Application Form

Selection: 2019

KA2 – Cooperation for innovation and the exchange of good practices – **Capacity Building in the field of Higher Education**

Call for Proposals 2019 - EAC/A03/2018

Innovative Training Centre to support a postgraduate 3rd cycle Advanced Course to face Environmental Emergency in Azerbaijan / ITACA

DETAILED DESCRIPTION OF THE PROJECT

JOINT PROJECTS

(To be attached to the e-Form)

PART D – Relevance of the Project

D.1 Why does the consortium undertake this project?

- *Which problem(s) will the project address in the participating Partner Countries? Why are these problems pressing?*
- *Please explain the result of the need analysis carried out for each Partner Country and for each Partner institution and provide qualitative and quantitative evidence for your results. Please refer also to studies carried out and feasibility analyses undertaken. In particular explain for each institution, why the support from the CBHE action is required. (limit 10.000 characters)*

The continuous increasing in oil and gas production in the Caspian area, and the simultaneous growing impact of the activities related to oil and gas extraction and transport in Azerbaijan has caused a need of specific skills in the fields of environmental protection, polluted sites remediation and sustainable development of oil and gas extraction and transport.
Already in 1901-1905, half of the total volume of oil in the world was extracted in Absheron peninsula in Azerbaijan, and during the Second World War, 70.1% of all oil used in the former Soviet Union was extracted in this Country.
Nowadays, in the Absheron Peninsula thousands of running and abandoned oil wells are located, and more than 3200 hectares of territories have been proved to be polluted by oil products, radionuclides and residual waters. Due to the presence of more than 200 small and big lakes, and related natural resources, the remediation of such area is a National priority of the Country.
In 2014, only British Petroleum in Azerbaijan recorded six oil spills, five of which were fully contained, and produced a total of 368,839 tons of solid and liquid wastes, mainly constituted by produced waters. Only about 42% of the non-hazardous waste (5,690 tons) and 20% of the hazardous waste (63,314 tons) are currently recycled or reused, but the remaining amount required an appropriate treatment.
At the same time, the high pollution of the Caspian Sea is largely due to the growing potential of the offshore oil industry, oil transportation and offshore oil pipelines. Sinking of facilities, leakage of oil products, fall of installations into disrepair are just few examples of the continuous threat to the ecosystem and to the life of the about 15 M people currently living in Caspian coastal zones.
As the Caspian Sea is an enclosed system, contamination by oil is particularly severe, and several coastal areas (Baku, Sumgayit, Makhachkala, Turkmanbashi) have been proclaimed "environmental disaster zone" in Azerbaijan and neighboring countries since 1992.
As a consequence, a high demand of specialist in the field of polluted sites remediation, especially skilled on the design and practice of equipment and plants suitable to afford the main environmental problems of the country has become an urgency, and it represents a crucial and necessary step in Azerbaijan development.
On the other side, the HE Master Sc. courses on Environmental Engineering and Ecology currently held in Azerbaijan are mainly oriented toward fundamental aspects and traditional environmental technologies, thus missing to provide specific professional skills to the graduates for their sudden entrance into the job market.
In EU such kind of professional skill ready to enter the job market are provided by one year postgraduate 3rd cycle course, which are managed in collaboration between industry and academia.
The current HE system in the Country, does not include a 3rd cycle of education different from Ph.D. course, thus determining a substantial gap between the academic world and the market job.
As a results of such approach, especially in the field of ecology and environmental science as well as engineering, a bridge between Universities and industries could contribute to solving the actual and emerging issues in the field of environmental remediation and to afford the following challenges:
1. Sustainable oil and gas production and waste minimization.

2. Effective management of industrial wastes, remediation of all polluted formerly industrial areas with harmonization among industrial zones, populated areas, recreation centres and natural environment.
3. Zero discharge of non-treated wastewaters to environment.
In summary. the professional skills of specialists facing the above mentioned needs should be addressed to:
• design and management of technical solutions;
• solving environmental issues, both in industry and public institutions.

(*Please add Partner Countries/partners as appropriate)*

Please identify the target groups and their needs in each Partner Country and in each Partner Country institution. (limit 8.000 characters)

From a general point of view, the target groups reached by the project will be graduated students, teachers, technicians and administrative staff, both belonging to universities and companies. Regarding graduated students in Azerbaijan, they especially need a more practice and problem solving oriented formation, to face the emerging environmental issues in the Country. The Training Centre organized by the consortium will exploit the long term experience of EU teachers in 3rd cycle advanced course jointly held with industrial partners. The project involves the organization of an advanced course, as a 3rd cycle of education, aiming at increasing the professional skills of graduates in the field of environmental remediation in Azerbaijan, thus allowing an easier introduction into the job market, and, at the same time, thanks to their enrollement, enhancing professionality and competitivity of all the subjects active in environmental remediation in the Country (both academic, and industrial). To be admitted to such course, students must have a 2nd level degree, in Ecology, applied and industrial Chemistry, or in every industrial and environmental engineering field.

In a more general vision, the Training Centre will also represent a tool to be used for developing continuous education in the Country, at a public and private level. It will contribute to meet also the government and industries expectations of providing a platform to enhance the knowledge of technicians employed in all the engineering areas. In this view, also other Ministries apart from the Ministry of education are targeted as potential beneficiaries of the project, just for the continuing education of the staff of both state and private companies with the potential of sustainability.

Regarding academic staff, teachers will be trained by EU experts on an innovative teaching methodology, based on the solution of selected case studies, involving multidisciplinary knowledge and practical skills. This will be coupled with their need of increasing the quality of research, and, on the other side, to favour their collaboration with alla stakeholders working in the field of environmental protection, monitoring and remediation.
Technician will benefit of the collaboration with EU experts in the acquirement to pilot plant of purchased with project funding. EU experts will help them to practice with innovative tecnologies to be implemented to solve the main environmental issues in the Country.
Administrative staff at the Azerbaijan HEs will be involved in the organization and managing of the Training Centre, as regards the relationship with the industrial sector. This will meet their expectation of increasing their competences in managing international grant, and establish strong and long term relationship with EU institutions.
More in detail, all the Azerbaijanian academic institutions involved in the project have already participated to international research or didactic projects, but all of them are relatively young in the field of environmental engineering. The recent boost of environmental concern at national level, requires their active participation to the solving of environmental issues in the Country. AzUAC have only recently inaugurated a laboratory of environmental monitoring, but needs

supports by EU experts for staff training on more advanced technologies application. BSU has a long term expertise in the filed of ecology, chemistry and nanotechnology, but a more engineering approach is required to implement technologies on a field scale. BHOS staff is skilled in the field of oil and gas extraction, but more advanced skills are required in view of the introduction of sustainable extraction technologies. BEU is equipped with pilot plant and instrument in the field of chemical and mechanical engineering, and could take advantage form the participation in the consortium by introducing new and more appropriate technical solution to solve environmental issues, as well as by increasing their analytical skills, necessary for environmental characterization and monitoring.
All graduate students from these institutions needs to be trained by a more practical approach, to be immediately ready to face the scientific and technological challenges proposed by environemtal issues in Azerbaijan. So, the bridge between the academic and industrial world could be represented by a one year 3rd cycle course, where lectures given by international teachers, and a substantial practical activity devoted to the solution of acse staudies, will allow them to fill the gap with EU graduated students in this sector.
The Ministry of the Environment will get benefit from the the project, since the introduction of the 3rd cycle of education in the HE in Azerbaijan, could not only improve the competitivity of local companies (through the enrollment of high-level specialists) but also strengthen the relationship between universites and industries, in view of establishing research collaborations.
Sukanal will get benefit from the particpation to the project since its main activity is water supply and treartment in Azerbaijan. The poor quality of water in the Country, and the increase of water demand from civil, agricultural and industrial consumption, obviously implies a growing complexity of treatment processes. As a result of groundwater and surface water poor quality, conventional treatment systems are no longer effective in Azerbaijan, and new and more advanced solutions must be found. Therefore, the research department of Sukanal can take advantage form the collaboration with recognized EU experts in this field. For this reason, Sukanal will offer practical placement to students, to work on real cases studies of pollution.
At the same time, the two private labs (Azecolab and Analytik) are currently involved in environmental monitoring, but their skills are often limited to the traditional technologies. Working among a consortium of experts in monitoring and remediation, can definitively update the technological and a scientific knowledge of their technical staff and thus increase the competitiveness in their core activity.

(*Please add partner countries/partners as appropriate)*

How will the project address the relevant thematic national/regional priorities (see https://eacea.ec.europa.eu/erasmus-plus/funding/capacity-building-higher-education-2019_en) set by the Programme for its target country (ies)/region(s)? (limit 8.000 characters)

The project will address some of the more relevant thematic included in the National priorities of Azerbaijan. The two targeted priorities are education and environment.
From the education point of view, the project aims at testing ad introducing a new education course (the 3rd cycle level), devoted to 2nd cycle graduated students in technical and scientific disciplines, able to introduce in the job market qualified professionals skilled in the field of environmental remediation and sustainable oil and gas extraction. Moreover, in the implementation of the new course a new teaching methodology will be experimented, that is based on problem-based learning and project work, which gives to the students a unique opportunity to acquire new knowledge and competences at a high academic level in an independent manner. The students will attend front-end lecture in the first semester and will apply theory to practice in the second semester devoted to projects and which will prepare them better for their future career, the methodology is that one applied at Aalborg university, which is partner of the project.
From the environment point of view, Azerbaijan is now facing some urgent environmental issues ranging from the scarcity of drinking water, to the huge land pollution in highly industrialized

areas involved in the oil and gas extraction.
The needs of experts trained in the development and implementation of new technologies is mandatory to tackle the current and future environmental challenges in the country.

(*Please add Partner Countries/regions as appropriate)*

D.2 Aims and objectives

- *What does the proposal aim at in general? What are the project's specific objectives?*
- *Explain how the specific objectives of the project address the problems mentioned in Part D1 and the needs of each target group in each Partner Country. Demonstrate also that the set objectives are realistic and feasible in the national and institutional context(s).*
  (limit 8.000 characters)

The planned activities are:
- the design and building up of a Training Center, where EU and AZ universities and stakeholders will share their experiences and new technical and scientific knowledge in the field of environmental remediation to jointly face the environmental challenges in the Country;
- the design and development of a postgraduate 3rd cycle advanced course on environmental remediation, to train professionals skilled in new technologies to be implemented to solve the actual emergencies in the field;
- the evaluation of the feasibility of the introduction in AZ of this new type of education (the 3rd cycle) that is absent in the current local HE system (apart from PhD), in the view of constituting a bridge between the academic and industrial sectors, to favour students introduction in the job market, thus contributing to a quality enhancement of the technicians in the AZ companies, as well as increasing their competitiveness on a national and international level;
- the introduction of an innovative and more practical teaching methodology, consisting of problem-based learning and project work.

The expected results of the project are:
• to contribute to the modernization of the Az universities and to improve the higher education of engineers and technicians in the field of soil and water remediation, and waste management to face the impact of oil and gas extraction activities in Azerbaijan
• to improve and speed-up the employability of graduates and staff and their entrepreneurial capability
• to introduce new advanced technology in the area of environmental remediation and waste management
• to get the oil and gas extraction industry more sustainable.

Azerbaijanian Universities have not previous experiences on a 3rd cycle course for postgraduates. Conversely, the EU Universities, in particular those ones partners of the project, have been since long time successfully involved in the implementation of 3rd level course, both at National and International level.
Such advanced level of education is mainly based on the cooperation of HE institutions and companies. This ensures the high level of knowledge and the rigorous methodological approach proper of the academic world, and, on the other side, the active participation of industry on new tools and technology applied in the industrial practice.

Additional objectives will be:
i. for EU Institutions:
- Testing the introduction of a new teaching methodology in a different framework
- Strengthen the collaboration with local and other EU Institutions
- Favouring the introduction of women in the job market at a technical and management level.

ii. for Partner Country [Azerbaijan]
- filling the gap between academic and industrial sector, by favouring their collaboration
- allowing an easier introduction of students in the job market
- improving knowledge in the field of environmental remediation
- providing effective and reliable solutions to the emerging environmental issues in the Country
- testing new teaching methodology to assist the transition between a theoretical to a more problem-solving approach at HE level
- testing the introduction of a 3rd level Advanced Course, to build a bridge between education and the job market and thus consolidating the relationship between Universities and stakeholders.

(*Please add Partner Countries/regions as appropriate)*

Please explain how the planned activities and the expected results meet the needs of the identified target groups in the Partner Countries (limit 6.000 characters)

Partner Country [Azerbaijan]

Local Universities: teachers, staff, students
The building of the Training Centre will meet the need of Azerbaijanian Universities to strengthen their relationship with both local industries and EU HEIs.
The implementation of the 3rd cycle course will meet the need of modernization of HE system, by introducing a new methodological approach based on previous experiences in EU.
Teachers will get benefit form sharing experineces with EU colleagues, in view of increasing the quality and innovation degree of their studies in a field where EU institutions have a long time activity.
Furthermore, students attending the course will acquire skills and knowledge that will allow them a successful introduction in the job market.
Administrative staff will collaborate to project management with EU experts in EU funded and international grants, as well as they will get practice with all managing and quality aspects related to the EU more innovative teaching methodology.

Local enterprises and stakeholders
The selection of innovative technologies, and their testing as a crucial education step during the 3rd level course jointly with local enterprises and EU experts, will meet the urgence of proposing and testing effective solutions to face the emerging enviornmental issues in the Country. As a conseuence of the establishment of the Traing Center, they will get benefit from the enrollment of skilled professionals oriented to a practical and effective implementation of the more innovative environmental protection and remediation technologies to tackle the impact of oil and gas related activity in the Country.

Ministry of Education
The testing of the 3rd cycle course will meet the expectation of Ministry of Education, who will get benefit from the testing of this step of education (that is completely new for Azerbaijan) jointly with experienced EU institutions in this field.

(*Please add Partner Countries as appropriate)*

How will the project and its results contribute effectively to the objectives of the action Capacity-Building in the Field of Higher Education in each targeted Partner Country? (limit 6.000 characters)

Partner Country [Azerbaijan]:
The project and its results will contribute to improve High Education in the Country through the following actions:
- the evaluation and testing of a new teaching methodology, based on the Aalborg model, with meet the need of providing students with a more practical approach, to modernize the education in the area of engineering disciplines;
- the testing of the 3rd cycle of HE system will contribute to the need of enhance the relationships between universities and industries, according the EU model represented by the advanced postgraduated course in the field of engineering;
- the collaboration among HEIS and local stakeholders will contribute to the formation of skilled experts ready to face the challenges and expectations of the job market in the environmental engineering area;
- the strengthening of the relationship with EU High Institutions will meet the need of internationalization of the Country;
- the training of Az academic staff in EU will contribute to enhance the research in the Country, by enhancing experinecs in advanced technologies and environmental remediation processes;
- the co-sharing of teaching activities between local and EU teachers will contribute to modernize the teaching methodology in the Country;
- the formation of young researchers and PhD students will contribute to boost the scientific activity and the international relatonship of the academic staff in the local universities.

(*Please add Partner Countries as appropriate)*

How do the project's objectives fit in with the modernisation and internationalisation agenda of the targeted higher education institutions in the Partner Countries and with the development strategy for higher education in each Partner Country involved in the project? (limit 6.000 characters)

Partner Country [Azerbaijan]:
Modernisation and internalisation of HE system is a priority of the Ministry of Education of Azerbaijan. Guided by these priorities, the Ministry of Education has such major tasks as meeting the economy`s demand in highly-skilled specialists and building a vocational education system able to flexibly respond to new economic challenges.
To this aim, a progressive homogenization with EU system has therefore started in the last decade even through specific project funded by EU. In particular, the need of providing students with more innovative and practical skills to face environmental challenges in the Country has become a priority, to allow a more sustainable development.
Currently, high education system in Engineering in Azerbaijan is based on a strong theoretical approach, but lacks in providing students with practical skills, to allow them to be easily enter in the job market. In EU Engineering course are characterized by tutorial work in laboratories carried out by equipment on advanced technologies, also at pilot scale. Moreover, new education approaches have been introduced in EU to provide the students with an industrial oriented skill. This is the case of the University of Aalborg (AAU), one of the EU partners of this project. The study programmes at AAU are based on problem-based learning and project work, which gives to the students a unique opportunity to acquire new knowledge and competences at a high academic level in an independent
manner. The students apply theory to practice in the semester projects, which will prepare them better for their future career. The AAU method will be introduced in the 3rd cycle Environmental course to be developed, and this fact will represent an unique opportunity of modernisation and internationalization of the Az HE system.
A new challenge for the high education system in Azerbaijan will be the introduction of 3rd cycle of education since the only 3rd cycle course adopted in the Country is nowadays the PhD course. This is the reason why the Ministry of Education is particularly interested in this project, since it represents a testing of such new education programme, devoted to the formation of high-skills specialists in the field.

Internationalization is a priority for all Institutions in the Country, and, in particular EU relationship will allow the Country to definitely exit from and old HE system, based on a rigid and limited model, to a more flexible and dynamic one.
- Partner institution [BSU]
Baku state University is the most important university in the Country. It is well known at international level for the quality of research and expertise in the field of chemistry, physics, and nanotechnology. This institution has been already involved in EU project, and this new project will represent a crucial step in the pathway of internationalization and modernisation. In this project, in fact, BSU will act as a national coordinator, in a tight relationship with the grant-holder institution, in view of increasing their familiarity with EU grants management system. The new teaching methodology will also offer to BSU the opportunity of modernising their teaching methodology, actually more devoted to a theoretical approach, than a practical one, even in technical disciplines, thus favouring the introduction of BSU graduated in the job market, even at the higher level.
- Partner institution [BHOS]
BHOS is a leader institution in the field of oil and gas extraction technology. Its long-time collaboration with SOCAR, the major enterprise active in the filed in Azerbaijan, represents an added value for the project. SOCAR will be the main stakeholders interested in the project, since its Ecological Department is under development, and seeking for experts skilled in environmental engineering to pursue a more sustainable extraction activity. The project, through the participation of BHOS in the Training Centre, will give to their graduated students the opportunity to acquire knowledge and experiences in environmental remediation thus filling the gap with SOCAR expectations. BHOS will therefore get benefit from the project, by sharing experiences and working jointly with EU experts in this field, and by the collaboration with other local universities active in the field of environmental protection. Furthermore, the project will be the first experience in the framework of CBHE Erasmus+ programme, thus representing a first step towards the modernisation and internationalization of such institution.
- Partner institution [AzUAC]
AzUAC has recently introduced in the Engineering Faculty a laboratory for water and wastewater characterization and monitoring. Through the participation in the project, researchers, technicians, and students will acquire experience in the modern technology in the environmental field to allow this laboratory to become a reference point for environmental research and control in the Country. In particular, according to the development strategy of education in all Engineering branch, the project will give them the opportunity of modernizing teaching methodology and activities, by coupling theoretical formation with practical experience.
- Partner institution [BEU]
BEU is a new institution in the Country. The participation in EU funded projects will contribute to its development in all engineering branches, to become in the next future a reference point for engineering companies seeking for graduated skilled in plants design and operation. BEU will get benefit from the project mainly thanks to the opportunity of introducing students practice on pilot plants and stages near stakeholders, either at national or international level.

(*Please add Partner Countries/partners as appropriate)*

Please explain how the proposal will pay attention to the issues of inclusion, diversity and socio-economically disadvantaged participants and/or organisations in the Partner Countries. (limit 2.000 characters)

The project will promote the collaboration among universities and enterprises in the Country. The EU experience in the field will aim at the full involvement of industrial companies, that also will beneficiate of the new education programme, since the enrollment of skilled and trained professionals will improve their competitivity. For this reason, the project will target the funding from local enterprises, in view of ensuring project sustainability.
A particular care will be devoted to favouring the introduction of women in the job market, in the

area of engineering, both for a technical and management role.
Actually, a very good participation of women in the academic activity is a consolidated practice in Az. According to international databases, in 2018, about 48% of employees in Az are women. However, according to a previous study (Decision for LIFE 2010, https://wageindicator.org/Wageindicatorfoundation/wag), nearly half of all women employed can be found at the bottom of the labour market, in elementary occupations, against less than one sixth of employed men. In addition, the same study showed large differences between wages across industries (gender pay gap of about 43%), remarkably higher than in other economic sectors.
All local universities involved in the project will consider the participation in the project of a substantial number of female teachers and staff. Basing on a previous experience in Tempus programme of the same grant holder and local partnership, where 75% of students enrolled in a postgraduated course were women, a great number of women willing of acquiring more experiences to increase their opportunity to access technical and management role in companies is expected to participate in the new course.
A gender minimum of 40% will be respected for student enrollment.
Regarding a more practical aspect, the project will involve the design and building up of a Training Centre for postgraduate education. The Centre will be equipped since the beginning with facilities and devices respecting all EU health, safety, as well as the measures suggested by the European Disability Strategy 2010-2020 will be adopted, to favour disable involvement.

D.3 Innovative character

Demonstrate why the proposal is innovative.
If it is complementary to previous/existing funded projects nationally or internationally please explain how the new proposal build on it/them and demonstrate its added value and why it is not a simple continuation thereof. (limit 2.000 characters)

In recent years another project was funded in the framework of Tempus projects (Econano 543924) involving some partners of this consortium and representing a first step of collaboration between EU and Azerbaijan in the field of Environmental Engineering. This initiative is completely different with respect to that previous one, since it is focused on the realization of a Training Centre, to be used for two objectives: implementation of new environmental technologies to be applied in the oil and gas industry and training on such technologies of graduates attending to a 3rd cycle course. The implementation of the course after the end of the project will be assured by the strict collaboration between the local academic and industrial partners, allowed by the project itself. Course sustainability is assured by local partners, besides the official accreditation by the MoE, which will be invited to introduce the new 3rd cycle course, but will not be an essential condition for the project sustainability. Apart introducing a new course, the project will lead to the establishment of a research centre which foster the collaboration among the local universities and industries and EU experts in the field. In addition, from the didactic point of view, the introduction of a new teaching methodology will offer the opportunity of testing a problem solving oriented education in the Engineering area. The partnership has been strongly modified with respect to the previous project, to accomplish with the specific targets of the new project. In particular, the new partner Aalborg University will be selected basing on its experience in the field of innovative teaching methodology, while University of Granada and Argus will bring their experiences on innovative remediation technologies. From AZ side, the consortium has been deeply revised, by selecting universities active in the education on oil and gas activities and ecology engineering, to include their experiences in these sectors.

If the proposal builds on any previous or existing EU-funded/non-EU funded national or international activities/projects in this field, please fill the following table for each of these projects.

Reference number			
Project dates *(year started and completed)*		**Programme or initiative**	
Funded by			
Title of the project			
Coordinating organisation			
Partner Countries /institutions targeted by this project			
Website	http://		
Password / login if necessary for website			
(a)Summarise the project outcomes (b) Explain how ownership/copyright issues are to be dealt with (limit 2000 characters).			

Please copy and paste tables as necessary

D.4 European added value

Why is there a need for cooperation with the Programme Countries in this area of activity and a funding via the Erasmus+ Programme? Why can the intended results not be achieved through national, regional or local funding in the Partner Countries? (limit 2.000 characters)

The Eu experience in the field of 3rd cycle course held in collaboration with enterprises is fundamental in a first step to build up a course based on both theoretical and practical aspect of environmental remediation.
EU partners will be decisive both in students placement (50 % in EU), and in teachers formation on advanced topics and technologies (training in EU of the teachers of the new course).
Finally, the new teaching methodology successfully adopted in EU by the University of Aalborg will be introduced and applied on the new course, which moreover will be structured according to the Bologna's system. It is possible to underline that this should be a unique opportunity for the Az universities to apply the new teaching European methodogies and an education delivering key competences and professional skills.
The additional costs for testing this crucial step in the modernization of Azerbaijanian HE system cannot be charged to universities, in the absence of a MoE accreditation, as well as economic constraints in the Country could prevent a wide students participation to the initiative.
In the future, the sustainability of the course will be ensured by stakeholders support, attracted by the opportunity of participating in the training of skilled professionals, in view of an immediate and successful introduction in the job market.

D.5 Cross-regional cooperation

If your proposal is cross-regional, demonstrate the need for this cooperation between institutions from different regions. Please also explain the added value of this cross-regional cooperation for the targeted Partner Country institutions. (limit 2.000 characters)

NO

PART E – Quality of the Project Design and Implementation

E.1 Project activities and methodology

Please provide a detailed description of the activities and the working methodology to be used for achieving the objectives (including major milestones, measurable indicators, etc.). (limit 6.000 characters)

The project will deal with the Installation of a Training Center for the investigation of the more advanced remediation technologies in the field of oil and gas extraction and the development, testing and adaptation of a 3rd cycle Advanced Course on Environmental remediation in Azerbaijan.
The project will start with the equipment of a Training Centre to face the pollution due to Gas and Oil extraction in Azerbaijan. Working groups will be appointed with reference to the main topics to be investigated. Some EU experts will take part in each specific working group. This activity will be crucial, to provide real-life cases to be investigated during the research work and teaching activities.
Preliminary to the development of the course, a Training Centre will be constituted, since the front end lectures and the tutorial work will be carried out in it. From the beginning of the project, an agreement among all the partners, on all the organizative aspects related to the direction and administration of the centre, staff participation from each partner, site location, lab and equipment arrangement will be defined.
The crucial step of the project will be the design and the realization of the 3rd cycle course.
The course will be designed jointly by all partners, with the supervision of the Ministry of Education of Azerbaijan. For this purpose, a specific Committee, named the Didactic Board, will be appointed, involving representative from all partners, both at academic and industrial level.
New learning and teaching methodologies as problem-based learning and project work will be introduced, basing on the experiences of the EU partner Aalborg University.
The course will involve new forms of practical training schemes and study of real-life cases. To this aim, university-enterprise cooperation will be ensured thorough selection of selected case studies of remediation in heavily polluted areas in Azerbaijan, jointly faced by EU and Az partners. An online platform will be dedicated to the course. All the course's activities (enrollment, lecture and tutorial work time-table, available stages and exam results, etc.) will be managed in transparency way by this platform.
Teachers training in Europe will get the Az teachers informed on the content of teaching, advanced teaching methodologies and the credit European system, in addition will ensure the strengthening of collaboration between local and EU institutions. The objective will be filling the gap between University in EU and Azerbaijan. Each module of the 3rd cycle course will be shared by a local teacher and one from EU, in view of favouring the sustainability of the course by improving local teachers expertise on advanced and innovative EU teaching technologies.
The strict collaboration among the EU and Az partners in teaching and research will strengthen the internationalisation of HEI in Azerbaijan and its capability to afford the emerging environmental problems by means of the selected technologies.
The upgrading of facilities, through the procurement of specific equipment and pilot plants to be located near the Training Center in some devoted laboratory, will also contribute to the increase of scientific competitiveness of Azerbaijan researchers. Academic staff (teachers and technicians) will be in fact trained on selected equipment and pilot plants, to improve their professional and scientific development.
Administrative staff will be trained on the management of a course based on the credit systems and on the management of European projects, including financial aspects.
Arrangements of framework agreements among EU and Azerbaijan partner Universities, and executive protocols among specific departments or Faculties will be the first tangible outputs of the collaboration among local and Eu Institutions.

Project quality monitoring and evaluation, will involve the establishing of evaluation criteria, method and indicators, as well as the implementation of specific tools to assess the effectiveness of the Azerbaijan teachers' mobility, and the quality of education achieved by the students at the end of front end lectures and training activities.
An external advisory board from distinguished scientists and engineers (among the stakeholders interested in the project) from Azerbaijan and Europe who shall provide expert opinion on the better organization and potential amendments of the project will be also appointed. They will be invited in the middle term meeting in Rome, and the final conference in Azerbaijan to receive their opinion about project implementation.
Dissemination Activities will be also performed throughout the project lifetime, also in view of ensuring project future sustainability, in the absence of EACEA support.
A specific WP devoted to dissemination will be fully co-funded by the consortium.
Dissemination activities will involve:
- Project website, web platform and social network
- Dissemination material
- Event on the opening of the Training Center
- A workshop on new teaching methodology
- International Conference on soil remediation
- Thesis discussion open to the wide community
– Workshop on Environmental remediation in Azerbaijan
– Final Public Conference: presentation of project results and future activities, included launch of the second edition of the course.

Please demonstrate that the activities and the methodology mentioned are the most appropriate to achieve the envisaged results and that they are feasible. (limit 3.000 characters)

According to preliminary meetings with the Ministry of Environment of Azerbaijan, the need of introduction of new teaching methodology is a priority in the HE system in the Country.
The opportunity offered by this proposal represents a valid testing of a 3rd cycle course, not yet introduced in the Az HEIs. Moreover, the new learning and teaching approach is very important, in view of its implementation in the whole high education system.
By coupling the two innovations (new methodology and new level of education), the Ministry will have the unique opportunity to evaluate the feasibility and the effectiveness of a step forward in the education system of the Country.
The activities and the methodology proposed are finalized to a continuous osmosis of the EU knowledge in teaching and advanced research in environmental remediation. The Training Center is equipped with the support of the EU experts in the field. The presence of the Az industrial partners of the project in the Steering Committee will assure to address the research work toward the industrial needs. In order to get acquainted either the Az teachers or the students to the EU teaching and technologies facing the Az environmental problems, placement in EU is proposed. Moreover, teaching of each module is shared by one EU teacher and one Az teacher, so that they must discuss on the course content and make choices, then they will be in the exam committee of each module and will check the results of their collaboration.
The dissemination is proposed at national and international level to allow a discussion within the Country on the Environmental remediation robles in Az and let to be the international community aware of the EU project content.
The project can contribute to boost the activities of remediation in the Country, as well as to gain a greater awareness of environmental issues and emergencies in the Country.
The feasibility of the project is founded on the robust and demonstrated long time collaboration among the local and EU Universities, that in recent years has successfully lead to common project and activities in both the didactic (previous project Econano) and research area (co-tutoring of PhD students, common publication in the field of environmental and materials engineering. Also the interest and support of Ministry of Education of Azerbaijan (see attached

letter at page 165) contributes to assess the feasibility of the project, due to the key role that this institution will play during project lifetime.

What concrete, tangible results are expected to be achieved at the end of the project's activities in each of the targeted Partner Countries? (limit 6.000 characters)

Partner Country [Azerbaijan]:
The main tangible outputs of the projects are briefly summarized in the following, according to the considerations and discussions reported in the previous sections of this proposal:
- Installation of an operative Training Center shared by the partner Az universities and other stakeholders in Azerbaijan, that will represent a tool for continuous education in the Country in the are of Engineering;
- Development and test of a 3rd cycle course, for the first time in the Az HEIs, and its evaluation in view of implementation in the Az HE system;
- High Education of postgraduates attending the course will achieve an advanced professional skill in environmental remediation, and will be ready to contribute to tackling the emerging environmental issues in Azerbaijan;
- Achievement of an International skill by students, Az teachers and administrative staff, in particular near during their stage in EU, thus contributing to boosting new initiative of cooperation;
- Awareness of the Ministry of Education of Azerbaijan on the implementation and results of the 3rd cycle course, in the view of implementing of the new level of education in the Country
- academic staff trained on new equipment and pilot plants;
- significative boost of scientific publication in the field of environmental remediation by academic staff involved in the project;
- signature of framework agreements among partners;
- expertise of the students by using pilot scale remediation of selected polluted topics, as a result of practical placement activities of the students involved in the project;
- increase of research activities in the field of environmental remediation (i.e. increased number of PhD working on this area);
- enhancement of women and men employability in engineering companies and stakeholders;
- strengthening of collaboration with EU institutions (i.e. number of PhD co-tutored by local and EU professors);
- design and development of a new edition of the 3rd level course (without any support of EU funds), with the participation of EU partners, funded and fully organized by the Training Centre with own funding and local administrative staff trained during the project.

(*Please add Partner Countries as appropriate)*

*For all **types of activities** (curriculum development, modernisation of governance, management and functioning of HEIs; strengthening of relations between HEIs and the wider economic and social environment), for **each Partner Country institution** please provide information in Part F.2 Organisation and Activities.*

E.2Quality control and monitoring

Please explain what mechanisms will be put in place for ensuring the quality of the project and how the evaluation will be carried out. If an external evaluation is foreseen, provide information on the purpose and expected outcomes of this evaluation. Please define the specific quality measures established, as well as the benchmarks and indicators foreseen to verify the outcome of the action. Make sure that the information in this section is consistent with the project Logical Framework Matrix. (limit 3.000 characters)

The evaluation process will secure that the project will meet the fixed objectives and each Work Package contributes to reach the final goal. A specific Work package (WP10) is devoted to quality control and monitoring. It will provide guidelines to guarantee a smooth project implementation and assure a high quality program. This objective will be pursued according to the following steps:
1. Establishing evaluation criteria, method and indicators: just during the kick-off meeting, a draft report on criteria, method and indicators will be prepared by a specific task group and submitted for approval to the Steering Committee.
2. Monitoring of timing and budget: the Management Board will collect periodic information regarding the implementation and the budget expenditures.
3. Monitoring of Dissemination Activities: the WP10 leader will elaborate guidelines to monitor the dissemination campaign comparing the methodological document with the activities carried out and results achieved. The guidelines will be shared with the partners and the WP10 leader will monitor and collect the information for drafting the final evaluation.
4. Monitoring and evaluation of teaching results and quality. The WP10 leader will: i) prepare Guidelines to assure that the lessons are structured in the same way; ii) prepare Evaluation questionnaires for trainees about the organization of the Course and the internship experience; iii) elaborate Timesheets for trainees to be signed at the lessons; iv) check and control the didactic materials and the quality of the working experience in terms of acquiring skills and professional experience.
5. Final evaluation and progress report: the WP10 leader completes a final evaluation report on the results of the 3rd cycle course and examines together with the partner leaders all the final reports in order to guarantee the achievement of results.
6. Project sustainability of the 3rd cycle course in the near future: the WP10 leader will monitor the progress of the work devoted to promote the assessment of a 3rd level of education in Azerbaijan universities and will coordinate the SWOT analysis in view of its introduction in the Azerbaijan system of education.

E.3 Budget and cost effectiveness

Please describe the strategy adopted to ensure that the proposed results and objectives will be achieved in the most economical way, and on time. Explain the principles of budget allocation amongst partners. Indicate the arrangements adopted for financial management. What sources of co-funding will be used? (limit 3.000 characters)

The Training Center will be established in Baku, which has the 40 % of AZ inhabitants and where the AZ university partners are located. A site of around 400 m2 in a buiding of BSU will host the Center. It is close to the two main Universities, BSU and AzUAC, to get benefit from an easy support by their staff in all Training Center activities. For the same reason, all the teaching activities will be held under its premises. This choice will also minimize the time consumpion and the mobility cost for teachers and students.
Each training module of the 3rd cycle course will be divided in two sections, one of them will be continously tought by the EU teacher, to reduce costs for subsistence. To achieve a further costs reduction, most of the project meetings will be held in Baku, at Baku State University.
Also the big dissemination event (public Conference) will be held at BSU, and will involve the participation of stakeholders from the whole Country.
Twelve students selected during the 3rd level Course will attend their practical placement in EU Country, while the others will develop their final project and practical placement near the AZ partners. The travel and stay costs for the 12 students stage in EU will be equally distributed among the four Azerbaijanian Universities involved in the project. It means that each university will cover expense of 3 students (indipendently on their belonging to).

The e-learning platform, uploaded on the project website, will be used to charge and update the didactic modules (courses, tests, etc) and will act as a theoretical-practical tool, so as to multiply the evaluation processes and the internal monitoring of the project, and in terms of exploitation will be used also for further editions of the same course or for different didactic projects and activities.
Financial management will be performed by Sapienza University, active in managing international and EU projects. Partners will receive budget according to the role played in the project and their specific activities. According to the first tentative distribution reported in the proposal, partners will receive a first installment, while the second installment will be distributed according to the revised workplan in correspondence of the Intermediate report. A continuous monitoring of budget expenditures in accordance with project objectives and related milestones will be carried out. The grant will be used for equipment procuring: selected equipment to be used for lab activities will be bought, and, in view of the project sustainability, a training on such instruments is foreseen for researchers and students involved in the project. Equipment will be located near the premises of the Training Centre: three laboratory will be equipped, covering the aspects related to the three main environmental issues in AZ. A fourth laboratory will perform the analitic characterization.
Cofinancing of about 10% will be ensured by partners, proportionally to the available budget: sources of cofinancing will be actual expenses (at least 30% of the cofinancement) and staff costs (up to 70% of the cofinancement) for dissemination activities.

If your project involves any "exceptional costs" related to travel, please justify them here. (limit 2.000 characters)

NO

Please justify the equipment costs for each Partner Country Institution:

- *why the Partner Country institutions need them for the implementation of the project;*
- *their relations with the content to be developed and the specific activities to be implemented) and*
- *the estimated timeframe for their purchase as well as the estimated place where they will be located (limit 3.000 characters)*

Equipment costs have been included in the proposal, to allow the consortium to arrange four specific laboratories were training activities will be carried out. Each laboratory will be equipped with instruments shared by partners, but the procurement of more innovative and specific equipment to face the environmental challenges in Azerbaijan are necessary for a successful implementation of the project.
In particular, on the basis of the actual needs in the field of environmental remediation. The Training Centre, with a surface of about 400 m2, will be organized in one laboratory for the analytic characterization and three laboratories, each of them equipped to develop research and training activities, as below described.
Laboratory on degradation of oil in sea-water (LOD):
- Biodegradation process of oil spill
- Enzymatic treatments
- Nanomaterials for oil-spill clean-up (nano-dispersants, micro and nano TiO2 for photocatalytic treatment)

Laboratory on the treatment of the water produced by oil and gas extraction (LWT)
- Oil-water separation
- Disinfection (UV light/ozone, chlorination)
- Desalination (Electrodialysis, capacitive deionization, electrochemical activation)
- Membrane treatment (MF, UF, NF, RO)

Laboratory of contaminated soil remediation (LSR)
- Remediation technologies for heavy metal-contaminated soil (soil washing, phytoremediation and immobilization techniques)
- Electrochemical remediation of soils
- Bioremediation of crude oil-contaminated soil
- Emulsion zero-valent ions.

The following equipment will be therefore purchased for each installed laboratory, in addition to the equipment and devices, already available at the universities involved in the consortium, and allocated in the Training Centre.

LOD: pH and conductivity meters, stirring elements and magnetic stirrer, vacuum pump and filter system, drying oven and vacuum drying oven, analytical and technical balances, water purification system, rotary evaporator, oil and water baths.

LWT: membrane pilot plant unit (UF/NF/RO), high speed centrifuge, Total organic carbon analyser, anaerobic and aerobic lab scale reactor system.

LSR: microwave digester, soil sampling and analysis kit, thermostat, mass spectrometry, optical emission spectrometer.

Equipment to detect pollutants in the environments (ICP-OES instrument and microwave system) will be also purchased and addressed to the Analytik Characterization laboratory (LAC), under the supervision of BSU, for the characterization activity.

All instruments will be located at the Training Centre and used for research project to introduce new technologies and for students training during the development of the practical activities involved in the postgraduate 3rd cycle Advanced Course on Environmental Remediation, including tutorial work and thesis development. For this reason, equipment purchasing procedures will start right at the beginning of the project, to allow a timely inauguration of Training Centre labs, in view of the course launching.

(*Please add Partner Countries as appropriate)*

***Please complete the following Logical Framework Matrix**:*

E.4 Logical Framework Matrix – LFM				
Wider Objective: *What is the general objective, to which the project will contribute?* The main objective of the project is the constitution of a Training Centre on environmental remediation in Azerbaijan, where universities and stakeholders (companies, industries) can collaborate to the formation of professionals in the field, through the design and implementation of a postgraduated 3rd cycle course on environmental remediation in English language in Azerbaijan (AZ), aiming at favouring the introduction on the job market of specialists capable to face the environmental emergency in the Country.	**Indicators of progress:** *What are the key indicators related to the wider objective?* • Accreditation of the new Training Centre by the Ministry of Education • Interest of the Az Universities in the new methodological approach proposed • Preliminary agreement with the Ministry of Education of Azerbaijan about the interest on evaluating the 3rd cycle of education level • Approval by the Ministry of Education of the of the new cycle of education programme in AZ • Acceptance and enrollment of the new kind of professional trained by the Training Centre	**How indicators will be measured:** *What are the sources of information on these indicators?* • Partners and stakeholders participating to the Training Centre activities • Willingness of one or more Azerbaijan university partners to adopt the new teaching methodological approach based on problem solving and case studies analysis. • Number of student applications to the 3rd level course • Number of trained students employed near industries or academic institutions • Number and type of promoting events in AZ disseminating this new kind of education		

Specific Project Objective/s: *What are the specific objectives, which the project shall achieve?*	**Indicators of progress:** *What are the quantitative and qualitative indicators showing whether and to what extent the project's specific objectives are achieved?*	**How indicators will be measured:** *What are the sources of information that exist and can be collected? What are the methods required to get this information?*	**Assumptions & risks** *What are the factors and conditions not under the direct control of the project, which are necessary to achieve these objectives? What risks have to be considered?*	**How the risks will be mitigated:**
• Building up a Training Centre to deliver advanced course to increase professional skills of graduate students in Azerbaijan • Application of a new teaching methodological approach based on EU experiences • Introduction of a specific postgraduate 3rd cycle education course in environmental remediation for the modernization of the the EE system in AZ. • Fostering the creation of a new skill in EE for the students attending the course • Promoting internationalization by teaching in English language	• Joining of the Training Centre by universities and stakeholders • Willingness of the AZ teachers to adopt the new approach after their mobility in EU • Number of students and staff trained, and their satisfaction on the new skills achieved after completition of the course • Acceptance of the students to attend the lecturs and of the teachers to give lectures in English	• Number of agreements of participation to the Training Centre, number of staff and equipment shared by all partners in under the framework of the Training Centres • Number of teachers willing to adopt the new approach during their orrdinary eaching activity • New skills acquired by students and staff (as instrument practice, new technologies knowledge • Acceptance of the students to attend the lecturs and of the teachers to give lectures in English	• Adequate availability of staff and equipments to be shared from the patrners • Adequate number of teachers willing to adopt the new teaching approach during their ordinary eaching activity • Students enough prepared (at Universitary level) to attend the course and acquire practice with equipment • Homogeneous students preparation • Adequate level of English language for students and teachers	• Partners will be involved in the project according to their effective availability: activities and costs compensation among partners will in the view of fulfilling all prohjects objectives will be assured • Preliminary teachers selection will be carried out, to ensure the participation of motivated and skilled reserachers to the project; attendance to the training in EU will be mandatory for giving lectures in the 3rd level course • Students selection criteria will be carefully set, in a specific WP • The establishment of some fundamentals equirements for students participation will ensure the enrollment of highly motivated and prepared students • An adequate level of English language for students and teachers will be assessed by preliminary check of pre-requisite (English language certification, interview, specific written test)

Outputs (tangible) and Outcomes (intangible): *Please provide the list of concrete DELIVERABLES - outputs/outcomes (grouped in Work packages), leading to the specific objective/s.:*	**Indicators of progress:** *What are the indicators to measure whether and to what extent the project achieves the envisaged results and effects?*	**How indicators will be measured:** *What are the sources of information on these indicators?*	**Assumptions & risks** *What external factors and conditions must be realised to obtain the expected outcomes and results on schedule?*	**How the risks will be mitigated:**
• Development of a Training Centre on environmental protection and remediation in Azerbaijan • Advanced Laboratory installation and upgrading on environmental protection and remediation • Implementation of the 3rd cycle course on environmental remediation • Introduction of the new level of education in Azerbaijanian HE system • Strengthening EU-AZ collaboration • Strengthening relationship between Universities and industrial world in	• Course schedule on time • Installation of the new equipment and lab facilities on time • Quality of the content of the course modules • Satisfaction of the student attending each module • Uptake of the notions by students • Level of acceptance of the 3rd level course in AZ by the AZ partners and the wider community • Agreements between Az and Eu Institutions • Stakeholders participation to the Training practical activities	• Deviation of the deliverables achievements with respect to the workplan • Deviation between the installation of the laboratory for tutorial work and the scheduled time • Results of exams • Acceptance of the new skill by the stakeholders of the job market • Dissemination events and media reports • Number of new greements between Az and Eu Institutions • Number of practical placements offered by industrial partners	• Azerbaijan and EU teachers, who will share one module of the course, should be willing to define the content of their module by spending together at least one month near an EU university partner. • Willing of the MoEAZ to introduce the new level of education in the Azerbaijan system of education. • Willing of Azerbaijan university partner to share equipment ad staff in the Training Centre. • Lack of qualified EU and AZ teachers for complete coverage of all the modules of the Course • Delay in the acquisition and installation of the new equipment • Adequate number of students applying to the 3rd level course. • Too few candidates to the 3rd level course to carry on a	• The content of each module and the tasks of local and EU teachers will be defined during AZ teachers training near an EU university partner. • MoEAZ will be called to participate to any step pf the project. • Preliminary agreements at the establishing of the Trainig Centre will be signed among partners, regarding staff and instruments sharing. • Accurate selection of EU and AZ teachers to ensure coverage of all the modules of the Course • Equipment procurement will start just after GA signing as a prioritary activity. • To ensure an adequate number of applications, the course launch will be performed duirng a public event, and intensive dissemination activity will be carried out by local partners • Too few candidates to the 3rd level course to carry on a severe selection and to enrol best

Azerbaijan			severe selection and to enrol best quality students. • One or more teachers cannot perform the assigned duty for unexpected events. • Some disagreements will arise between two teachers who will share one course. • Students qualified to access the training session after exams • Difficulties in carrying on training activities near hosting Institutions. • Misunderstanding of quality control procedures • Limited dissemination in view of students selection, and information about the advantages of the new teaching system • Respect of commitments by the partners. • Lack of coordination capability of the local responsible.	quality stud • An adequate number of teachers and tutors will be employed, to ensure project development. • The Didactic Board will be appointed and will supervise any teaching activity • Students activity will be monitored along course lifetime, and tutoring activity will be ensured to prevent poor results at exams: anyway, training in EU only to the best students will be offered • Difficulties in carrying on training activities near hosting Institutions. • Quality control procedures will be illustrated clearly and continuously revised • The WP devoted to dissemination will involve an adequate number of staff hours, to ensure a correct a sustainable distribution of tasks and favour an effective dissemination • Periodic Workshops and meetings will be organized to illustrate to stakeholders the

				benefits of the project • Periodic meetings will be organized by Video Conference to check and boost all partners activities: activities and budget will be residstributed among partners to respect effective duties and tasks. • Accurate selection of the local coordinator of the project, and continuous support to his activities by the project coordinator and the Steering Committee.
Activities: *What are the key activities to be carried out (**grouped in Work packages**) and in what sequence in order to produce the expected results?* • Selection of the main environmental issues due to the pollution of oil and gas extraction in Azerbaijan and appointment of the working groups (WP1) • Design of a Training Centre to face the pollution due to Gas and Oil extraction in Azerbaijan (WP2)	**Inputs:** *What inputs are required to implement these activities, e.g. staff time, equipment, mobilities, publications etc.?* • Kick off meeting and settling up of Management board (WP1) • Definition of the technologies to be investigated and subjects (WP2) • Check of the available facilities (WP2) • Settling up of the Steering Committee (SC)		**Assumptions |& risks** *What pre-conditions are required before the project starts? What conditions outside the project's direct control have to be present for the implementation of the planned activities?* • Knowledge of the Environmental issues in AZ by sharing available information (WP1). • Identification of new arising technologies to be investigated (WP1). • Availability of information about environmental pollution in Azerbaijan (WP1) • Data accessibility to researchers and companies	**How the risks will be mitigated:** • The discussion and the choice will be coordinated by expert partner for each field (WP1). • Establishment of specific agreement among the partners to clearly define role and activities in the Training Center, as well as the modality of lab and equipments sharing (WP1) • Some equipment, tool and instruments will be provided by partners (WP2). • The laboratories will be equipped with additional instruments and

• Preparatory action for the realization of the 3rd cycle course (WP3) • Definition of criteria for students selection and course dissemination (WP4) • Installation of the Training Center (WP5) • Students selection and enrolment (WP6) • Implementation of thye 3rd cycle course on Advanced Environmental remediation (WP7) • Remediation technologies investigation and testing (WP8) • Evaluation of the introduction of the new 3rd cycle course in the Azerbaijan HE system to ensure project sustainability (WP9) • Project quality monitoring and	for the scientific supervision of the Training Centre (WP2) • Definition of objectives, structure and modules content of the course. Setting up of a Didactic of Board. Assignment of each module to teachers (1 AZ and 1 EU) (WP3) • Identification of the Master Sc. degrees and English level for the application (WP4) • Definition of a Call for application (WP4) • Choice of equipment and instruments, to be provided by the partners or purchased by the project (WP5) • Researchers and technicians willing to carry out activities in the Training Center (WP5) • Achievement of the required equipment and instruments (WP5) • Definition of the criteria		(WP1) • Disagreement on main issues or innovative technologies (WP1). • Full agreement about Training Centre organization and scope (WP2) • Full agreement among partners about project implementation and partners tasks (WP2) • Laboratories are enough equipped for practice on each innovative technology (WP2) • Equipment procurement will start just after GA signing (WP2). • Establishment of a specific agreements about Training Center (WP2) • Partners expert and willing to develop each module to be taught (WP3). • Full agreement between the two teachers assigned to each module (WP3). • Laboratories enough	equipment purchased with the project (WP2) • Stages of Az teachers and tutors near EU to be acquainted to the agreed modules content and the innovative technologies (WP3) • Criteria of selection chosen in agreement with the skills of the graduated in the field (WP4) • Construction of a web site and flyers for the dissemination (WP4) • Merging the facilities available or to be purchased by the project and eventual change of the short-term objectives (WP5) • To perform some tasks in a lab of one of the partners of the project (WP5) • Final decision on the selected students by the Didactic Board (WP6) • Evaluation and final decision of the content of each module by the Didactic Board (WP7) • Any difficulty in providing lab for tutorial work will be overcome by

evaluation (WP10) • Dissemination activities (WP11) • Project management (WP12)	of selection by the Didactic Board (WP6) • Appointment of a working group for the selection (WP6) • Definition of the enrolment procedure (WP6) • Course programme definition by the Didactic Board (WP7) • Appointment of teachers (WP7) • Achievement of a suitable number of enrolled students (WP7) • Availability of public or private entities for stages (WP7) • Choice of research projects and definition of their work-plan (WP8) • Appointment of the researcher responsible of each research project (WP8) • Achievement of opinion		equipped for practice on innovative technologies (WP3). • Teachers not allowed to spent on month abroad due to local commitments (WP3) • Presence in Az of an adequate number of potential candidates for the course (WP4). • Wide dissemination of the Call for application (WP4). • Risk is a low number of applications (WP4) • Availability of the site of the Center (WP5) • Willingness of researchers to work out in the Training Center (WP5) • Missing of facilities to pursue fixed research objectives (WP5) • Achievement of a suitable number of applications (WP6). • Agreement on the selection by the appointed working	facilities offered by BSU (WP7) • Offering a one-month English language course to students before the course (WP7) • Chance to perform some items of a research project near one of the partner university (WP8) • Periodic evaluation of the progress of each research project by the SC (WP8) • In view of fostering the course accreditation, all steps will be carefully supervised by the AZ MoE (WP9) • Holding of the new course with financial support by stakeholders and students fee (WP9) • Identification of the critical issues by the SWOT analysis (WP10) • Opening of the workshops to the AZ academic and industrial community (WP11) • Careful selection of authorities and stakeholders to be invited to the final public meeting (WP11) • In case of disagreement in a committee, the decision will be

	on the performed 3rd level course by teachers and students (WP9) • Suggestions by stakeholders on the new course (WP9) • Headlines and framework for the introduction of a 3rd level Course in AZ (WP10) • Minutes of meeting of Steering Committee, and laboratory supervisors (WP10) • Half-year reports on project monitoring (WP10) • Achievement of the information and news to be published on the website and the digital platform (WP11) • List of the activities to be performed and communities to be reached for dissemination (WP11)		group (WP6) • Fruitful agreement on each module content between teachers (WP7) • Tutorial practice available in the labs of the Training Center (WP7) • Available equipments and operators for each investigated technology (WP8) • Risks to perform the objectives of each research project (WP8) • Successful results of the 3rd level course (WP9) • Eligibility of the 3rd level course by MoE (WP9) • Long time for the introduction of the new course in AZ He system (WP10) • Effective dissemination (WP11) • Agreement on the decisions (WP12)	taken by its leader or the project SC (WP12) •

	• Continuous and effective work of all committees and working groups (WP12) • Half-year reports on project quality (WP12)			

Please complete the following work plan.

E.5 Work Plan

Please use the model provided below. Applicants are expected to complete a one-page work plan for each project year.
For each year of your proposal, please complete a work plan indicating the deadlines for each outcome and the period and location in which your activities will take place. Please create additional work plan tables if further space is needed.

The same reference and sub-reference numbers as used in the logical framework matrix must be assigned to each outcome and related activities.

Activity carried out in the Programme Country: = (E.g. activity in France for two weeks in the first month of the project 2= under M1)
Activity carried out in the Partner Country (ies): **X** (E.g., activity in Tunisia for three weeks in the second month of the project: 3X under M2)

WORKPLAN for project year 1

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
D 1.1	Environmental footprint and report on the Environmental Pollution due to oil and gas extraction in Azerbaijan	**6**		**1= 2X**	**1= 2X**									
D 1.2	Identification of the main topics to be investigated. Appointment of a working group for each specific topic, its coordinator and description of the relevant clean-up technologies together with the fixed objectives	**4**			**1= 1X**	**1= 1X**								
D 1.3	Appointment of an external advisory board	**2**					**1=**				**1X**			
D 2.1	Design of the Training Centre, lab organization and equipment procurement	**7**		**1= 1X**	**1X**	**2X**	**2X**							

D 2.2	Signature of agreements among the partners interested on each specific research project.	**4**						**1= 1X**	**1= 1X**					
D 2.3	Starting of the procedure for the accreditation of the Training Centre by the Ministry of Education	**1**							**1X**					
D 3.1	Review on 3rd cycle high education courses in Europe in the field of oil and gas extraction and environmental remediation	**4**				**1=**	**1=**	**1=**	**1=**					
D 3.2	Workshop on new teaching methodology	**1**											**1X**	
D 3.3	Design of a 3rd cycle Advanced Course on Environmental Remediation and Sustainable G&O extraction	**10**						**1= 1X**	**1= 1X**	**2= 2X**	**1= 1X**			
D 3.4	Definition of each module content and the EU and AZ Teachers selection	**8**									**1= 1X**	**1= 1X**	**1= 1X**	**1= 1X**
D 3.5	Course venue selection and arrangement	**6**										**2X**	**2X**	**2X**
D 3.6	Preparation of didactic materials	**16**								**2= 2X**	**2= 2X**	**2= 2X**	**2= 2X**	
D 3.7	Teachers formation in Europe	**4**											**4=**	
D 4.1	Student selection criteria	**7**										**3= 4X**		
D 4.2	Launch of the Call for application	**3**										**1= 1X**	**1X**	
D 5.1	Preliminary actions on the Training Centre area, Installations of laboratory facilities and equipment, preliminary tests	**12**				**3X**	**3X**	**3X**	**3X**					
D 5.2	Opening of the Training Centre	**1**								**1X**				
D 8.1	Technologies for site remediation	**10**								**1= 1X**	**1= 1X**	**1= 1X**	**1= 1X**	**1= 1X**
D 8.2	Technologies for the removal of contaminants from the produced water by oil and gas extraction	**10**								**1= 1X**	**1= 1X**	**1= 1X**	**1= 1X**	**1= 1X**

D 8.3	Technologies for oil degradation in the sea-water	**10**								**1= 1X**	**1= 1X**	**1= 1X**	**1= 1X**	**1= 1X**
D 10.1	Establishing evaluation criteria, method and indicators	**2**	**1= 1X**											
D 10.2	Evaluation of the Azerbaijan teachers' mobility	**1**												**1X**
D 10.5	Monitoring of Dissemination Activities	**8**	**1= 1X**			**1= 1X**			**1= 1X**			**1= 1X**		
D 11.1	Project website, web platform and social network	**6**	**1= 1X**			**1X**			**1=**			**1X**		
D 11.2	Dissemination material	**4**							**1=**			**1X**		**1= 1X**
D 11.3	Course launch and presentation to stakeholders and the Ministry of Education	**1**												**1X**
D 12.1	Kick-off meeting	**2**			**1= 1X**									
D 12.2	Organization of the Training Centre	**5**			**1= 1X**	**1= 1X**	**1X**							
D 12.3	Meetings of the Course Didactic Board	**2**									**1= 1X**			
D 12.4	Call for application to the Course and dissemination strategy	**4**										**1= 1X**	**1= 1X**	

WORKPLAN for project year 2

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
D 3.4	Definition of each module content and the EU and AZ Teachers selection	6	3= 3X											
D 3.5	Course venue selection and arrangement	3	1X	1X	1X									
D 6.1	Students selection and enrolment	2	2X											
D 6.2	Preliminary activities (English intermediate course, distribution of didactic materials)	4			4X									
D 7.1	Front end lectures	16				4X	4X	4X	4X					
D 7.2	Lab training	16				4X	4X	4X	4X					
D 7.3	Exams	1								1X				
D 7.4	Stage topics selection and Students stage assignment	4								1= 1X	2X			
D 7.5	Stage near EU partners and stakeholders in Azerbaijan	16											4= 4X	4= 4X
D 8.1	Technologies for site remediation	12	1= 1X		1= 1X		1= 1X		1= 1X		1= 1X		1= 1X	
D 8.2	Technologies for the removal of contaminants from the produced water by oil and gas extraction	12	1= 1X		1= 1X		1= 1X		1= 1X		1= 1X		1= 1X	
D 8.3	Technologies for oil degradation in the sea-water	12	1= 1X		1= 1X		1= 1X		1= 1X		1= 1X		1= 1X	
D 10.3	Evaluation tool on the education achieved by the students at the end of front-end lectures	8				1= 1X	1= 1X	1= 1X	1= 1X					
D 10.5	Monitoring of Dissemination Activities	8	1= 1X			1= 1X			1= 1X			1= 1X		
D 11.1	Project website, web platform and social network	6	1= 1X			1X			1=			1X		
D 11.2	Dissemination material	5		1X			1X			1X			1X	

D 11.4	Conference on soil remediation	**1**											**1X**	
D 12.3	Meetings of the Course Didactic Board	**2**									**1= 1X**			
D 12.5	Training campaign approval and lab assignment	**2**									**1= 1X**			
D 12.6	Middle term project meeting	**4**			**2= 2X**									

WORKPLAN for project year 3

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
D 7.5	Stage near EU partners and stakeholders in Azerbaijan	8	4= 4X											
D 7.6	Thesis dissertation	1			1X									
D 8.1	Technologies for site remediation	9	1= 1X		1= 1X		1= 1X		1= 1X	1X				
D 8.2	Technologies for the removal of contaminants from the produced water by oil and gas extraction	9	1= 1X		1= 1X		1= 1X		1= 1X	1X				
D 8.3	Technologies for oil degradation in the sea-water	9	1= 1X		1= 1X		1= 1X		1= 1X	1X				
D 8.4	Drafting of a joint proposal in the field of Environmental Remediation to be submitted to Horizon 2020 call	10					1= 1X	1= 1X	1= 1X	1= 1X	1= 1X			
D 9.1	SWOT analysis for the introduction of the new course in the Azerbaijan HE system	2				1= 1X								
D 9.2	Proposal for accreditation of the course in AZ HE system	6				1= 1X	1= 1X	2X						
D 9.3	Work-plan of the second edition of the course (without EACEA funding, but fully supported by stakeholders)	24				2= 2X	2= 2X	2= 2X	2= 2X	2= 2X	2= 2X			
D 10.4	Students training stage evaluation	1		1X										
D 10.5	Monitoring of Dissemination Activities	8	1= 1X			1= 1X			1= 1X			1= 1X		
D 10.6	Project quality report	8											2= 2X	2= 2X
D 11.1	Project website, web platform and social network	5	1= 1X			1=				1X				1=

D 11.2	Dissemination material	**4**			**1X**				**1= 1X**					**1X**
D 11.5	Workshop on Environmental remediation in Azerbaijan	**4**							**2= 2X**					
D 11.6	Final Conference: presentation of project results and future activities, included launch of the second edition of the 3rd cycle course in Environmental Engineer	**4**											**1= 1X**	**1= 1X**
D 12.3	Meetings of the Course Didactic Board	**2**			**1= 1X**									
D 12.7	Final thesis discussion	**5**			**2= 3X**									
D 12.8	Arrangements of framework agreements among EU and Azerbaijan partner Universities, and executive protocols among specific departments or Faculties	**8**			**1= 1X**	**1= 1X**	**1= 1X**	**1= 1X**						
D 12.9	Final project meeting	**8**											**2= 2X**	**2= 2X**

Please complete the information on each work package for your project

E.6 Work packages

Please enter the different project activities you intend to carry out in your project. Make sure that the information in this section is consistent with the project Logical Framework Matrix.

Work package type and ref.nr	**PREPARATION**	**1**
Title	Selection of the main environmental issues, due to the pollution of oil and gas extraction in Azerbaijan, to be investigated and appointment of the working groups	
Related assumptions and risks	Assumptions: • Knowledge of the Environmental issues in AZ by sharing available information. • Identification of new arising technologies in the area to be investigated. • Availability of information about environmental pollution in Azerbaijan • Data accessibility to researchers and companies Risks: • Disagreement on main issues or innovative technologies. • Lack of permission for data sharing and use for project activities • Lack/insufficient of access to relevant data about pollutants	
Description	This Work Package will identify the major pollution emergencies in Azerbaijan due to the gas and oil extraction, basing on the analysis of available data collected in the last years by national and international institutions and companies. An updated and comprehensive report will be prepared dealing with the evaluation of the impact of oils and gas extraction activities on environmental sectors (water, air, soil). The major risks associated to these activities will be studied, thus identifying the main topics to be investigated and deepened in the Training Centre with the collaboration of EU experts. Once the topics to be investigated are selected, appropriate working groups and their coordinator will be appointed. For each topic the working group will take over the study and analysis of technical solutions to be tested and proposed to tackle the related environmental issue. Each coordinator will be asked to define in details the research project, its workplan and equipment, and to submit to the Steering Committee a report in two weeks. The steering Committee will check the consistency of the workplan with the available resources and will approve each research project.	
Tasks	D 1.1 – Environmental footprint and report on the Environmental Pollution due to oil and gas extraction in Azerbaijan D 1.2 - Identification of the main topics to be investigated. Appointment of a working group for each specific topic, its coordinator and description of the relevant clean-up technologies together with the fixed objectives. D 1.3 - Appointment of an external advisory board	

Estimated Start Date (dd-mm-yyyy)	15-11-2019	**Estimated End Date (dd-mm-yyyy)**	31-12-2019
Lead Organisation	University of Granada - UGR		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task cannot be performed by the partner.*	The main costs for this WP are related to staff costs for data elaboration and report drafting.		

Deliverables/results/outcomes

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**1.1.**	
	Title	Identification of the main Environmental Pollution problems, due to oil and gas extraction in Azerbaijan, to be investigated	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	The first activity of the Training Centre will be choice of the main environmental problems in Azerbaijan to be tackled by research projects developed in the Training Centre. A report will be released, basing on quantitative and qualitative data obtained in recent years, highlighting the effective impact of oil and gas extraction practice in Azerbaijan. The main technologies to face such problems will be discussed and the best ones will be proposed for the investigation.	
	Due date	January, 2020	
	Languages	English, Azerbaijani	
Target groups	☒ Teaching staff ☐ Students		

	☐ Trainees ☒ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**1.2.**	
	Title	Appointment of the specific topics to be investigated and the working groups	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	Basing on the results of the previous activity of assessing the overall environmental issues to be faced, the subjects of the research projects to be developed in the Training Centre and the appointment of the working groups will be made by the Steering Committee. The coordinator of each laboratory, together with the expert of the specific topic will prepare a work-plan to be submitted and approved to the Steering Committee.	
	Due date	February, 2020	
	Languages	English, Azerbaijani	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/	Work Package and Outcome ref.nr	**1.3.**

Outcomes	Title	Appointment of an external advisory board	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	An external advisory board from distinguished scientists and engineers from AZ and Europe will be appointed, to provide expert opinion on the better organization and potential amendments of the project. The members of the board will be selected among others AZ institutions interested in the project, and EU experts in the field of continuous education and postgraduate course, as well as engineers employed at high level in companies and stakeholders in the field of environmental engineering in AZ and EU. They are expected to contribute to project implementation, and to join the Training Centre at the end of the project, in view of increasing its sustainability.	
	Due date	July, 2020	
	Languages	English, Azerbaijani	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Work package type and ref.nr	**PREPARATION**	**2**
Title	Design of a Training Centre to face the pollution due to Gas and Oil extraction in Azerbaijan	
Related assumptions and risks	Assumptions: • Full agreement about Training Centre organization and scope • Full agreement among partners about project implementation and partners tasks • Laboratories sites have all the facilities for experimental research work • Equipment procurement will start just after GA signing as a priority activity. • Establishment of a specific agreements among the partners to clearly define role and activities of the Training Centre as well as organization structure, as role and modality of sharing labs and equipment Risks: • Delay in the acquisition and installation of the new equipment • Laboratory does not have adequate facilities to start up the experimental work	

Description	The objective of the first part of the project is the building up of a regional Training Centre in Azerbaijan as a platform for continual professional development (CPD) addressing waste management companies and authorities in the region. The Training Centre will involve the participation of all partners, both from the academic and the industrial side, under the supervision of a Centre Head, who will manage the Training Centre activities. The Training Centre will be organized in 3 laboratories devoted to: 1. Degradation of oil in sea-water; 2. Oil and gas water production treatment; 3. Treatment of contaminated soil. Moreover, one more laboratory will be devoted to the analytical instrumentation. The management of the Training Centre is assigned to the Steering Committee, consisting of the coordinator of the four laboratories the Centre's Head and 3 EU experts. The equipment and instruments will be allocated in the Training Centre by the academic partners, which will hold the ownership of each apparatus. Right after the definition of the Training Centre a decision on the operators of the laboratories, mainly from the Az university partners, will be taken. Then, the equipment and instrument procurement procedure will start, on the basis of multiple offers (to be compared) within each issue.		
Tasks	D 2.1 – Design of the Training Centre, lab organization and equipment procurement D2.2 – Signature of agreements among the partners involved on each specific research project.		
Estimated Start Date (dd-mm-yyyy)	01-01-2020	**Estimated End Date (dd-mm-yyyy)**	30-06-2020
Lead Organisation	Baku State University - BSU		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task cannot be performed by the partner.*	The basis of the new Training Centre will be discussed during the kick off meeting, where partners role and the committees will be defined. Equipment is requested for the implementation of advanced laboratories in the field of environmental remediation. Staff costs for both Azerbaijan and EU experts are necessary to jointly perform the Centre design.		

Deliverables/results/outcomes

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**2.1.**	
	Title	Design of the training centre, lab organization and equipment procurement	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	The Training Centre will be organized in the following 4 Laboratories: 1. Degradation of oil in sea-water; 2. Oil and gas water production treatment; 3. Treatment of contaminated soil; 4. Analytical instrumentation. Each Laboratory will be equipped with instruments and devices shared by the partners, and with further appropriate equipment and pilot units procured from the grant. A lab AZ coordinator will be identified, and one or more EU experts will join lab activities. The operators attending each laboratory, that is each research project, will be identified and appointed. Equipment procurement procedures will start immediately after grant agreement signature, to be completed on time for the Training Centre opening event.	
	Due date	March, 2020	
	Languages	English, Azerbaijani	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**2.2**	
	Title	Signature of agreements among the partners involved on each specific research project.	
	Type	☐ Teaching material ☐ Learning material	☐ Event ☒ Report

		☐ Training material	☐ Service/Product
	Description	The research projects previously defined will be submitted to all the partners, which will be invited to join the project with their representatives. The partnership of each research project, eventually widened with respect the initial working groups, will write and define an agreement to define the role of each part and the respect of the previous intellectual rights.	
	Due date	May, 2020	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Work package type and ref.nr	**PREPARATION**	**3**
Title	Preparatory action for the realization of the 3rd cycle course	
Related assumptions and risks	Assumptions: • Presence of partners' expert and willing to develop each module to be taught. • Full agreement between the two teachers, one AZ and one EU, assigned to each module. • Laboratories enough equipped for practice on innovative technologies. Risks: • Teachers are not allowed to spend one month abroad due to local teaching commitments	
Description	All the preparatory activity and preliminary tasks for the implementation of the advanced course are grouped in this WP. A careful review of the 3rd cycle high education courses in Europe on the subject of the proposal will be carried out, and, basing on experiences on similar course successfully held in EU, a 3rd cycle advanced course will be designed, considering the specific requirement by the Ministry of Education, in view of the proposal of the course accreditation. Experts from EU partners will be involved in this step, and all partners, including industrial partners, will actively take part in the design process, in order to fulfil with the objectives of the proposal : the development of a course	

	that represents a bridge between the academic world and the industrial one, thus allowing a successful introduction of the trained students in the job market will be developed. A one-year course will be organized in two parts, according to Bologna credit system. A first semester, spent in front end lectures and lab training, will be followed by a second semester devoted to a stage near an industrial company or university, and concluded with a written thesis work. All students will be hosted by one of the partners for a three months practical placement, where students will work on an innovative environmental technology, under the supervision of an academic or industrial expert. The course will be hosted near the Training Centre premises. Some students (at least 12) will spend the practical placement in EU). They will be selected according to the results of exams held at the end of the first part of the course. The AZ teachers of the course will be acquainted on the innovative remediation technologies and the teaching contents of the environmental courses in EU by spending one-month stage in EU, hosted by one of the EU partners. In particular, the AZ coordinator of the Didactic Board will be hosted by the Aalborg university to learn about the new didactic method to be applied in the course.		
Tasks	D 3.1 – Review on 3rd cycle high education courses in Europe in the field of oil and gas extraction and environmental remediation D 3.2 – Workshop on new teaching methodology D 3.3 - Design of a 3rd cycle Advanced Course on Environmental Remediation and Sustainable G&O extraction D 3.4 – Definition of each module content and the EU and AZ Teachers selection D 3.5 – Course venue selection and arrangement D 3.6 - Preparation of didactic materials D 3.7 – Teachers formation in Europe		
Estimated Start Date (dd-mm-yyyy)	01-02-2020	**Estimated End Date (dd-mm-yyyy)**	30-09-2020
Lead Organisation	Aalborg University - AAB		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is*	Travels are necessary from Az to Eu for teachers training near EU partner institutions. Teachers training will involve the joint organization of the course with EU teachers and staff. Staff costs are necessary to cover EU experts training activity and all teachers course material and lectures preparation, as well as activities related to course design and organization. Travel costs are also necessary to participate to the Workshop on new teaching methodology.		

necessary, explain why the task cannot be performed by the partner.	

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**3.1.**	
	Title	Review on 3rd cycle high education courses in Europe in the field of oil and gas extraction and environmental remediation	
	Type	☒ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	A review of 3rd cycle education in the Engineering courses in EU will be carried out. All the aspect related to course organization, teaching methodology and participant pre-requisite will be deeply analysed, in view of the implementation in the HE system in Azerbaijan.	
	Due date	May, 2020	
	Languages	English, Azerbaijani	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**3.2.**	
	Title	Workshop on new teaching methodology	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☐ Report ☐ Service/Product
	Description	AAU will organize a workshop for the didactic board, where The new approach, based on Alborg-PBL model (recognized by Unesco), will be introduced and discussed.	

		The core of this method is based on a combination of problem-based learning, teamwork, multi-disciplinarily and close collaboration with companies and real-life problems. This workshop will introduce the AAU PBL Model, providing practical examples on its core. The participants will experience - TEAMWORK: When doing project work, the students/participatns work closely in groups with each other. This gives the opportunity to cooperate, share knowledge, learn to manage disagreement or conflict, as well as to explore larger and more complex academic problems than what they would have been able to do on their own. The strength of the group relies also in its heterogeneity (often including both Danish and international students from all around the world) and complementary skills of the participants, and teaches the students to think in a multi-disciplinary way, using knowledge and information obtained in different courses. Furthermore, the groups serve a social purpose and make it easier for students to get to know their fellow students and feel more at home at the university. - COLLABORATION WITH THE BUSINESS COMMUNITY: Aalborg University works closely with the business community and companies. This means that students will work with real issues from companies and organisations. Thus, while studying, they already have the opportunity to enhance their academic competences with a business-oriented and practical angle. - HANDS-ON: TEACHERS DO RESEARCH: At Aalborg University teaching is research-based. This means that lecturers are doing research within the same academic field as they are teaching. In this way, students gain access to the latest knowledge and dedicated teachers who are passionate about what they teach. The teaching material not only includes books but may also consist of, for example, current academic articles from journals.
	Due date	September, 2020
	Languages	English
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians	

	☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**3.3.**	
	Title	Design of a 3rd cycle Advanced Course on Environmental Remediation and Sustainable G&O extraction	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	A postgraduate 3rd cycle Advanced Course on Environmental Remediation will be designed, based on the EU adopted practice and experiences in the field. The Didactic Board appointed in the previous WP will take over the design of the course. The participation of experts from EU partners with previous experiences in the field of 3rd cycle course teaching and management will ensure project quality. The course will be organized in front end lectures, lab activities, and practical placement, and will deal with ten modules on specific subjects selected by the Didactic Board. The course, according to Bologna credit system, will be organized with with 30 ECTS of front-end lectures and tutorial work. Additional 25 ECTS will be attributed to a practical placement, that is a stage on a practical case study near an industrial or university laboratory where students will work under the supervision of both an academic and an industrial tutor. Finally, 5 credits will be assigned to a thesis written report. After the definition of each module, the Didactic board will appoint two experts, one from AZ and one from EU, who will share the course teaching.	
	Due date	July, 2020	
	Languages	English, Azerbaijani	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☐ Administrative staff ☒ Technical staff		

	☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**3.4.**	
	Title	Definition of each module content and EU and local Teachers selection	
	Type	☐ Teaching material ☒ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	Each module content will be defined by the Didactic Board, on the basis of the proposal of the two teachers, i.e. one from AZ and one from EU, appointed for each module. Local teachers to be trained in EU will be selected, and their formation and skills improvement will be achieved through a training period in EU, alongside the EU teacher sharing the same module.	
	Due date	July, 2020	
	Languages	English, Azerbaijani	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**3.5.**	
	Title	Course venue selection and arrangement	
	Type	☒ Teaching material ☐ Learning material ☐ Training material	☐ Event ☐ Report ☐ Service/Product
	Description	The course will be held in the Training Centre. Baku	

		State University will take care of the venue, that will be equipped for advanced teaching methodologies. The Didactic board will collect preliminary feedback from the responsible teachers about particular needs required for the correct execution of the relevant modules and will look after proper solutions.
	Due date	November, 2020
	Languages	English, Azerbaijani
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☐ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**3.6.**	
	Title	Preparation of didactic materials	
	Type	☒ Teaching material ☐ Learning material ☒ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	Teachers will be asked for organizing and preparing didactic material to be shared with students before the beginning of the course. Teaching material will consist of handbook, scientific journal and reports, slide and exercise material. All the didactic materials will be organized and stored in a platform (only for students and teachers) of the project website. Best practice guidelines on Heath and Safety in laboratory will also delivered for students training before starting lab activities	
	Due date	January, 2021	
	Languages	English	
Target groups	☒ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☒ Technical staff		

	☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☒ Local ☐ Regional	☐ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**3.7.**	
	Title	Formation of teachers and tutors in Europe	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☐ Report ☒ Service/Product
	Description	Teachers from Azerbaijan universities selected according to the previous deliverable 3.3 will be hosted during one month at EU partners Institutions, to complete their formation alongside EU experts and teachers. The stage will be primarily useful to discuss and agree on the tasks of each shared module. During the stage, teachers will attend seminars, and specific advanced course, as well as they will get practice with innovative equipment. Moreover, during the mobility, each Azerbaijan teacher will become acquainted to the teaching procedure and the application of the Bologna process near the hosting university. At the end of the mobility the Azerbaijan teacher, in agreement with the European colleague, will write a report on the module in charge, including the detailed content, the lecture assigned to each teacher, i.e. European and Azerbaijan, and the preliminary background required to the student to attend the module.	
	Due date	September, 2020	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☒ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		

Dissemination level	☐ Department / Faculty ☐ Institution	☒ Local ☐ Regional	☐ National ☐ International

Work package type and ref.nr	**PREPARATION**		**4**
Title	Definition of criteria for student selection and course launch		
Related assumptions and risks	Assumptions: • Presence in Az of great number of graduated in environmental area as potential candidates for the enrolment. • Wide dissemination of the Call for application. Risks: • Low number of applications.		
Description	Once the course to be implemented is designed, a Didactic Board will take care of all the activities related to course development. The first activity will involve student selection, based on appropriate criteria defined by the Didactic Board according to criteria approved jointly with the Ministry of Education, in view of the proposal for accreditation. A call of application will be launched, where all the aspect related to student pre-requirement for participation and all the course workplan will be clearly reported. To ensure an adequate number of applications from the whole Country, a number of events for the course presentation will be organized the by Az partners. The attendance will be the academic partners and industrial stakeholders, but also new institutions interested in the project, which will be invited to offer placement opportunity to the enrolled students.		
Tasks	D 4.1 Student selection activity D 4.2 Launch of the Call for application		
Estimated Start Date (dd-mm-yyyy)	01-09-2020	**Estimated End Date (dd-mm-yyyy)**	31-10-2021
Lead Organisation	Baku Higher Oil School - BHOS		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task*	Staff costs are necessary to cover the activities of Az managers and teachers concerning the course presentation to the wide community, and for EU and Az staff involved in the conceiving and drafting of the call. Activities of the selection board (including both EU and Az teachers) will also be covered by staff costs.		

cannot be performed by the partner.	

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr		**4.1.**
	Title	Student selection criteria	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☐ Report ☒ Service/Product
	Description	The Didactic Board will define the criteria for the student selection, according to Ministry of Education guidelines and suggestion. Students' requirement to be considered will be: type and topic of the degree, graduation level achieved, English language knowledge, other specific skills (practice on equipment, period spent abroad during education). Students from all industrial and engineering area will be admitted to the selection, as well as graduated in ecology, chemistry, industrial chemistry, nanotechnology or equivalent. Too restrictive criteria will be prevented by an accurate preliminary evaluation of the skills of the students graduated in the above-mentioned fields.	
	Due date	August , 2020	
	Languages	English	
Target groups	☒ Teaching staff ☒ Students ☐ Trainees ☒ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr		**4.2.**
	Title	Launch of Call for application	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☐ Report ☒ Service/Product

	Description	A call of application will be launched. The course program and schedule, together with all other available information to this point will be advertised at Universities' premises, Internet sites, mass media channels, social networks, forum and other means suggested by the Azeri partners. Parallel to this, the link to the application form (Call for Application) and the correct call procedures will be provided. The Azerbaijanian partners should identify and seek contact to multiple advertising channels, including institutions, mass media, internet, social network, forums. A list of the established possibilities and contacts should be provided in order to ensure the wider interest to the initiative as possible. The performed advertising activities will be listed, and a success rate of advertising will be evaluated on the basis of a ratio between the identified and effectively used advertising channels and the number of received and qualified applications by students.
	Due date	September, 2020
	Languages	English
Target groups	☐ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Work package type and ref.nr	**DEVELOPMENT**	**5**
Title	Installation of the Training Centre	
Related assumptions and risks	Assumptions: • Availability of the site of the Centre near BSU. • Willingness of researchers to work out in the Training Centre Risks: • Missing of facilities in a lab to pursue established research and didactic objectives	
Description	The Training Centre is located in the area of the BSU. In a preliminary step,	

	the spaces of the Training Centre devoted to the headquarter, laboratories and specific rooms will be identified, and facilities will be provided for lab activities. Equipment and instruments purchased by the grant will be allocated, installed and tested. The Training Centre will be then opened arranging an event of National importance, with the participation of all partners, Authorities and stakeholders.		
Tasks	D 5.1 – Preliminary actions on the Training Centre area, Installations of laboratory facilities and equipment, preliminary tests D 5.2 – Opening of the Training Centre		
Estimated Start Date (dd-mm-yyyy)	01-01-2020	**Estimated End Date (dd-mm-yyyy)**	31-06-2020
Lead Organisation	Baku State University - BSU		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task cannot be performed by the partner.*	Staff costs are necessary to preliminary activities by managers and teachers for lab installations, and for equipment installations and testing. Travel costs are necessary to all EU partners to participate to the inauguration will be held in Baku during March 2020, in the presence of authorities and stakeholders.		

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**5.1.**	
	Title	Preliminary actions on the building area, Installations of laboratory facilities and equipment preliminary tests	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☐ Report ☒ Service/Product
	Description	The Training Centre premises will be equipped according to the specific needs. Rooms for lectures and meetings will be foreseen, as well as laboratories for equipment installation and lab activities development. Analytical instruments and glassware	

		and reagents will be allocated near the Analytical Instrument laboratory and a proper procedure for their temporary use will be adopted. All equipment will be tested, and operating manuals will be drafted by the Steering Committee, also including all aspects regarding safety.
	Due date	May, 2020
	Languages	English, Azerbaijani
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**5.2.**	
	Title	Opening of the Training Centre	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☐ Report ☐ Service/Product
	Description	The Training Centre will be opened in a National Event, with the participation of all partners, Authorities and stakeholders.	
	Due date	June, 2020	
	Languages	English, Azerbaijani	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☐ Administrative staff ☒ Technical staff ☐ Librarians ☒ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)* All stakeholders in Azerbaijan will be invited to the event. Industries, high education institutions, small and medium enterprises and laboratories active in the field of environmental monitoring, protection and		

	remediation in the Country.		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Work package type and ref.nr	**DEVELOPMENT**		**6**
Title	Students selection, enrolment and course preliminary activities		
Related assumptions and risks	Assumptions: • Achievement of an adequate number of applications to the course • Criteria on the selection approved by the Didactic Board • Agreement on the selection by the appointed working group • Uploading of didactic material on the project website Risks: • Poor number of candidates • Criteria not valuable enough to achieve a successful selection		
Description	Students selection will be carried out by the Didactic Board. Application will be ranked, and 25 candidates will be admitted to the course. A preliminary test on English language will be carried out, and, according to the level achieved by students, a tailored English language course will be held as a preliminary step to the didactic activities of the course. Students enrolment will be made by the administrative staff of BSU, according to the rule of this university.		
Tasks	D 6.1 Students selection and enrolment D 6.2 Preliminary activities (English intermediate course, distribution of didactic materials)		
Estimated Start Date (dd-mm-yyyy)	01-11-2020	**Estimated End Date (dd-mm-yyyy)**	31-01-2021
Lead Organisation	University of Patras - UPAT		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task*	Staff costs are necessary for EU and Az partners involved in student selection and preliminary activities to the Course.		

cannot be performed by the partner.	

Deliverables/results/outcomes

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**6.1.**	
	Title	Students selection and enrolment	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☒ Service/Product
	Description	Students' selection procedures will be clearly followed by the Didactic Board on the basis of the criteria previously defined (D4.1). The selection will assign a rank to the candidates. The results of selection will be published on project website and near partners institutions. Each candidate will be informed about the selection by post. Afterwards, the selected candidates will be invited to enrolling near the secretary of BSU within 20 days of the communication reception. A maximum of 25 students will be enrolled, to ensure sustainability of laboratories activities. They will receive a certification of course admission, and all course material, including dissemination material.	
	Due date	November, 2020	
	Languages	English	
Target groups	☐ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**6.2.**
	Title	Preliminary activities (English intermediate course, distribution of didactic materials)

	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☒ Service/Product
	Description	Preliminary activities to the course will involve the distribution of didactic material, and the organization of an English language course for the enrolled student who has not achieved an intermediate rank. Such course, held near the Training Centre, with the help of mother-tongue teachers provided by the consortium, will contribute to improve the English level of the students for an easier attendance of the course in English.	
	Due date	January, 2021	
	Languages	English	
Target groups	☐ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☒ Local ☐ Regional	☐ National ☐ International

Work package type and ref.nr	**DEVELOPMENT**	**7**
Title	Implementation of the 3rd cycle course on Advanced Environmental Remediation	
Related assumptions and risks	Assumptions: • Fruitful agreement on each module content between the two appointed teachers. • Tutorial practice available in the labs of the Training Centre • Good English spoken language of teachers and students. • Availability of the placement for the stage of all the students Risks: • One or more teachers cannot perform the assigned duty for unexpected events. • Some disagreements might arise between the two teachers who will share one course. • Students do not pass the exams and further exam sessions should be arranged.	
Description	The Course will be implemented according to the planned activities approved by the Didactic Board. All lectures will be taught in English, and local and EU teachers will collaborate to each module course teaching.	

	Front-end lectures should be coupled with lab activities. A final exam session is foreseen, and each student will be ranked according to his exams results. Two sessions of exams will be arranged, the second one for student failures in the first session. Practical placement will be granted to all students: to the best twelve will be offered a three-months stage in EU, near partners lab. The other students will carry out their practical placement hosted by institutions and stakeholders in Azerbaijan.		
Tasks	D 7.1 – Front end lectures D 7.2 – Lab training D 7.3 - Exams D 7.4 – Stage topics selection and Students stage assignment D 7.5 – Stage near EU partners and stakeholders in Azerbaijan D 7.6 – Thesis dissertation		
Estimated Start Date (dd-mm-yyyy)	01-02-2021	**Estimated End Date (dd-mm-yyyy)**	31-01-2022
Lead Organisation	Baku State University - BSU		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task cannot be performed by the partner.*	Staff costs are necessary for EU and Az partners involved in teaching. Travel costs are necessary for EU staff mobility and student practical placement in AZ and EU. Equipment purchased in previous WP and consumables are necessary for student training.		

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**7.1.**	
	Title	Front end lectures	
	Type	☒ Teaching material ☒ Learning material ☒ Training material	☐ Event ☐ Report ☐ Service/Product
	Description	The lectures and the tutorial work will be held in the Training Centre. BSU will take care of all the organization aspect related to course implementation. The innovative teaching methodology proposed by	

		Aalborg University and presented and discussed in the previous WPs will be adopted. Lectures will be held in English, and each module will be shared by EU and Az experts in the field. Az teachers and tutors trained in EU will participate in the teaching activity.
	Due date	May, 2021
	Languages	English
Target groups	☐ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**7.2.**	
	Title	Lab training	
	Type	☒ Teaching material ☒ Learning material ☒ Training material	☐ Event ☐ Report ☐ Service/Product
	Description	Each module will deal with front-end lectures and a suitable number of hours spent in lab activities. During lab activities, under the supervision of EU and Az teachers and technicians, students will make practice with instruments, pilot plant, as well as software for equipment and plant design and process modelling.	
	Due date	May, 2021	
	Languages	English	
Target groups	☐ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		

Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr		**7.3.**
	Title	Exams	
	Type	☒ Teaching material ☒ Learning material ☒ Training material	☐ Event ☐ Report ☐ Service/Product
	Description	A final exam dealing with both written and oral tests will be performed at the end of class activities. The didactic board will manage the exam session: each module will be separately evaluated, and a final overall ranking will be assigned. In case of a failure of a student in one or more exams, he will be required to sustain the second session of exam. The average note of the exams will be considered to assign practical placement positions in EU and Azerbaijan.	
	Due date	June, 2021	
	Languages	English	
Target groups	☐ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr		**7.4.**
	Title	Stage topics selection and Students stage assignment	
	Type	☒ Teaching material ☒ Learning material ☒ Training material	☐ Event ☐ Report ☐ Service/Product
	Description	A preliminary survey of available subjects, responsible and location for available training positions for the students will be performed by the Didactic Board. The number of proposed subjects should be at least equal to the number of students attending the course. The	

		number of proposed training positions near EU Universities should be equal to 12. At the end of this first process, the Didactic Board will perform a selection of the stage topics. Afterwards the stage assignment procedure will start. Training in EU will be offered to the 12 students with the best average note in the exams. The choice will be made by students according to their rank. In case someone prefers to renounce to the EU stage, subsequent students in the rank will be invited. Students will be hosted by the four EU Universities participating in the project, the other 13 students will get a placement near an Az company or institution. Practical placement topics will be selected according to the activities performed in each of the three training laboratories established in the Training Center, and covering all the three identified main area of investigation.
	Due date	July, 2021
	Languages	English
Target groups	☐ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**7.5.**	
	Title	Stage near EU partners and stakeholders in Azerbaijan	
	Type	☒ Teaching material ☒ Learning material ☒ Training material	☐ Event ☐ Report ☐ Service/Product
	Description	All the students will work on practical case studies of environmental remediation of site or stream polluted by oil and gas related activities. The placement will be supervised by a teacher expert in the selected topic, European one for the stage in EU and Az one for placement in Az.	

		At the end of the stage the students will be required to give a presentation of their work near the host institution.
	Due date	November, 2021
	Languages	English
Target groups	☐ Teaching staff ☒ Students ☒ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution ☐ Local ☐ Regional ☒ National ☒ International	
Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**7.6.**
	Title	Thesis dissertation
	Type	☒ Teaching material ☒ Learning material ☒ Training material ☐ Event ☒ Report ☐ Service/Product
	Description	The thesis will report the schedule of the performed activities by the student during his training and description and considerations on the learnt technology. All students will be invited to a meeting held in Baku to discuss their thesis work in front of the Didactic Board. The presentation will consist of a 20 minutes oral speech and 10 minutes left for additional questions from the committee. The latter will evaluate the quality of the presentation and the work done, as well as the individual contribution to the considerations on the learnt technology with a qualitative mark (excellent, very good, good, satisfactory, insufficient) based on the defined learning objectives and outcomes. The mark will take also into account the evaluation to the work by the thesis's tutor.
	Due date	January, 2022
	Languages	English
Target groups	☐ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff	

	☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Work package type and ref.nr	**DEVELOPMENT**		**8**
Title	Remediation technologies investigation and testing		
Related assumptions and risks	Assumptions: • Choice of the research processes to be investigated • Availability of equipment and operators needed by each investigated technology. Risks: • Lack of fulfillment of the objectives of each research project.		
Description	Each research project, defined at the point D1.2, will be implemented according to the adopted workplan. Each working group in charge of a specific research project will report every three months the achieved results and will identify risks and opportunities to get the target. Every six months the progress of each research projects will be presented to the Steering Committee, also by means to the telematic media, to receive suggestions and remarks. According to the work-plan a final report on the work will be written and submitted to the Steering Committee. The results of the studies will be presented in a Workshop on environmental remediation in Azerbaijan (Month 31), as described in the following WP 10. The most brilliant research works will be submitted to International Conferences, in particular to that one organized in the project in Granada. The participation in national and international events will be also finalized to find out collaborations in view of the economic sustainability of the Training Centre after the project end. Moreover, joint proposal in the field of environmental technologies will be submitted to Horizon 2020 or to other national and international calls.		
Tasks	D 8.1 – Technologies for site remediation D 8.2 – Technologies for the removal of contaminants from the produced water by oil and gas extraction D 8.3 – Technologies for oil degradation in the sea-water D 8.4 - Drafting of a joint proposal in the field of Environmental Remediation to be submitted to Horizon 2020 call		
Estimated Start Date (dd-mm-yyyy)	01-06-2020	**Estimated End Date (dd-mm-yyyy)**	31-05-2022

Lead Organisation	University of Granada - UGR
Participating Organisation	All partners
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task cannot be performed by the partner.*	Staff costs are necessary for EU and AZ teachers and staff supervising and reporting activities Travel costs are necessary for participation in the conference on advanced remediation technologies Equipment purchased in previous WP2 are necessary for the scientific investigations and practical activity of students

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**8.1.**	
	Title	Technologies for site remediation	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	The application of advanced technologies for a polluted site remediation in Azerbaijan will be proposed and discussed in this report, to solve a critical environmental issue in the Country. The best technologies examined during the research projects and the student stages will be evaluated and proposed for the application at large scale in Azerbaijan, both considering technical and economic aspects.	
	Due date	June, 2022	
	Languages	English	
Target groups	☒ Teaching staff ☒ Students ☒ Trainees ☐ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		

Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**8.2.**	
	Title	Technologies for the removal of contaminants from the produced water by oil and gas extraction	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	The application of advanced technologies for the treatment of produced waters in Azerbaijan will be proposed and discussed in this report, to solve a critical environmental issue in the Country. The best practices and technologies examined during the research projects and the student stages will be evaluated and proposed for the application at large scale in Azerbaijan, both considering technical and economic aspects.	
	Due date	June, 2022	
	Languages	English	
Target groups	☒ Teaching staff ☒ Students ☒ Trainees ☐ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**8.3.**	
	Title	Technologies for oil degradation in the sea-water	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	The application of advanced technologies for the degradation of oil in sea water will be proposed and discussed in this report, to solve a critical environmental issue in the Country, related to the	

		Caspian Sea huge pollution. The best technologies examined during the research projects and the student stages will be evaluated and proposed for the application at large scale in Azerbaijan, both considering technical and economic aspects.
	Due date	June, 2022
	Languages	English
Target groups	☒ Teaching staff ☒ Students ☒ Trainees ☐ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**8.4.**	
	Title	Drafting of a joint proposal in the field of Environmental Remediation to be submitted to Horizon 2020 call	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	Basing on the results of the collaboration during project life-time, and the results of practical placement of students for the application of innovative technologies to solve environmental remediation issues in Azerbaijan, partners will arrange some research proposals to be submitted in the field of Horizon 2020 programme.	
	Due date	July, 2022	
	Languages	English	
Target groups	☒ Teaching staff ☒ Students ☒ Trainees ☐ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		

	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Work package type and ref.nr	**DEVELOPMENT**		**9**
Title	Evaluation of the introduction of the new advanced 3rd cycle course in the Azerbaijan HE system to ensure project sustainability		
Related assumptions and risks	Assumptions: • Successful results of the 3rd cycle course from the project. • Eligibility of the proposed 3rd cycle course by MoEAZ. Risks: • Long time for the introduction of the new course in Engineering in the AZ HE system.		
Description	A plan for the introduction of the tested new 3rd cycle of education in Azerbaijan in the Engineering area will be developed by the Steering Committee and the Didactic Board. Representative of the Ministry of Education will be invited to participate to the discussion.		
Tasks	D 9.1 - SWOT analysis for the introduction of the new course in the Azerbaijan HE system D 9.2 – Proposal for accreditation of the course in AZ HE system and international accreditation D 9.3 – Work-plan of the second edition of the course (without EACEA funding, but fully supported by stakeholders)		
Estimated Start Date (dd-mm-yyyy)	01-02-2022	**Estimated End Date (dd-mm-yyyy)**	31-07-2022
Lead Organisation	Baku Engineering University - BEU		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task cannot be*	Staff costs are necessary for EU and AZ teachers and staff for reporting activities		

performed by the partner.	

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**9.1.**	
	Title	SWOT analysis for the introduction of the new course in the Azerbaijan system of education	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	Taking also into account the possible candidates to adopt the new curriculum of study the feasibility to set-up the new course will be evaluated by means of SWOT analysis. The identification of the Strengthens and Weaknesses for the education project will allow by one side to address the MoEAZ to adopt some new study directories and by the other side to fix prerequisites for to introduction of the new course. The first results on employment rate of the students trained in the porposed course will be taken into account and analyzed.	
	Due date	February, 2022	
	Languages	English	
Target groups	☒ Teaching staff ☒ Students ☒ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**9.2.**	
	Title	Proposal for accreditation of the course in AZ HE system and investigation of international accreditation	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product

	Description	This task will lead to discuss with MoEAZ any difficulties to be overcome for the accreditation of the new 3rd cycle course and to identify the possible areas of Engineering where this new education programme could be implemented. The possibility of international accreditation will be also investigated, in view of introducing the Country in an international high-level education network.
	Due date	April, 2022
	Languages	English
Target groups	☒ Teaching staff ☒ Students ☒ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**9.3.**	
	Title	Work-plan of the second edition of the 3rd cycle course in Environmental Engineering (without EACEA funding, but fully supported by stakeholders)	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	Based on the results of the course done during the project, the success of dissemination among stakeholders, and the interest of both academic and industrial sector, a second edition of the 3rd cycle Course in Environmental Engineering will be planned. All remarks and suggestion from the Ministry of Education will be taken into account. The organization and sustainability of the course will be carefully discussed and measures will be adopted to ensure the long-term success of the initiative.	
	Due date	July, 2022	
	Languages	English	
Target groups	☒ Teaching staff ☒ Students ☒ Trainees		

	☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*
Dissemination level	☐ Department / Faculty ☐ Institution ☐ Local ☐ Regional ☒ National ☐ International

Work package type and ref.nr	**QUALITY PLAN**		**10**
Title	Project quality monitoring and evaluation		
Related assumptions and risks	Assumptions: • Definition of the criteria and indexes for quality control. • Achievement of all the project reports on time. Risks • Lack of commitments from the partners • Weakness in project reporting		
Description	The evaluation process will secure that each Work Package contributes to reach the objectives of the project. It will provide guidelines to guarantee a smooth project implementation and assure a high-quality program. This objective will be pursued according to the tasks here after reported.		
Tasks	D 10.1 - Establishing evaluation criteria, method and indicators D 10.2 Evaluation of the Azerbaijan teachers' mobility D 10.3 - Evaluation tool on the education achieved by the students at the end of front-end lectures D 10.4 – Students training stage evaluation D 10.5 - Monitoring of Dissemination Activities D 10.6 - Project quality report		
Estimated Start Date (dd-mm-yyyy)	15-11-2019	**Estimated End Date (dd-mm-yyyy)**	14-10-2022
Lead Organisation	Sapienza University – UNIROMA1		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain*	Staff costs for questionnaires preparation and distribution, data collection, handling and report drafting.		

why it is required. If subcontracting is necessary, explain why the task cannot be performed by the partner.	

Deliverables/results/outcomes

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**10.1.**	
	Title	Establishing evaluation criteria, method and indicators	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	During the kick-off meeting, the leader of WP10 will present a draft report on criteria, method and indicators, which will be adopted for the monitoring and control of all the work-packages. The quality monitoring will have three functions: preventive, advisory and control. This deliverable will introduce the partners in the use of the SWOT methodology for the preventive and advisory monitoring of each WP. Smart indicators identified on the basis of the proposal content and in particular of the Logical Framework will be also illustrated.	
	Due date	November, 2019	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/	Work Package and Outcome ref.nr	**10.2.**

Outcomes	Title	Establishing evaluation criteria, method and indicators	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	A quality task working-group will be appointed and will fix the quantitative and qualitative indexes to monitor and control the different activities of the project. This group will work continuously along the project duration and submit the index of each expected deliverables at its due time to the Management Board. Moreover, this group will take care to define the questionnaire to be submitted to the various group of people engaged in the project actions, as the Azerbaijan teachers, who performed the mobility near one European university, the students attending the modules of the course and the training stage, the opinions of the teachers on the application of the new teaching methodology according to the Aalborg university scheme, etc. Finally, the quality team will provide to the Management Board every three months the qualitative deviations of the project activities with respect to that one fixed in the proposal.	
	Due date	October, 2020	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**10.3.**	
	Title	Evaluation tool on the education achieved by the students at the end of front-end lectures	
	Type	☐ Teaching material ☐ Learning material	☐ Event ☒ Report

		☐ Training material	☒ Service/Product
	Description	This activity will concern the end of the first semester of the 3rd cycle course. Learning Evaluation Questionnaires will be distributed at the end of each module to the students and will be structured in open questions. It will measure the satisfaction on the student (content, organization, presentation of the lectures, effectiveness of the new methodology, and effectiveness of the tutorial work). A report on the answers from the questionnaires will be produced by the quality working-group and provided to the Didactic Board.	
	Due date	May, 2021	
	Languages	English	
Target groups	☐ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words)		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**10.4.**	
	Title	Students training stage evaluation	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	A report will collect the questionnaires on the training fulfilled by each student. The issues of the questionnaire will concern the quality of the training, the consistency of the preparation achieved during the first semesters with respect to the training subject, the methodology afforded in the training and the satisfaction degree, etc.	
	Due date	December, 2021	
	Languages	English	
Target groups	☐ Teaching staff ☒ Students		

	☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**10.5.**	
	Title	Monitoring of Dissemination Activities	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	Dissemination activities will be monitored, and quantitative indicators will be adopted to evaluate their effectiveness. Among them, the number of visits on the website, the attendance to the events organized in the framework of the project.	
	Due date	14-10-2022	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**10.6.**	
	Title	Project quality report	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product

	Description	In this report the WP10 leader illustrates all the activities made during the three years of the project and details all the results achieved in quantitative/qualitative way. This document is a summary of all evaluation reports done during the project and the aim is to evaluate the consistency of all the performed project activities with the proposal and the overall quality of the project. The WP10 leader will submit the final quality report to the Management Board.
	Due date	14-11-2022
	Languages	English
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☐ National ☒ International

Work package type and ref.nr	**DISSEMINATION & EXPLOITATION**	**11**
Title	Dissemination activities	
Related assumptions and risks	Assumption: • Link of the project website in the website of the partners. • Effective dissemination in the Workshops and public meetings to the wide community. • International dissemination of the European project during the international Conference on remediation. • The results of the scientific investigations performed by the Training Centre will be appreciated by the industrial partners of the project for their exploitation. • The Az MoE will confirm the intention of introducing a 3rd cycle course in Engineering area Risks: • Limited dissemination of the Call for application, and unsatisfactory information about the advantages of the new teaching system.	
Description	This workpackage will promote the dissemination of the project activities and results by means of official internet pages, mass media channels, events, products (handbook, gadget, etc.). As far the exploitation is concerned, the utilization of the new technologies for environmental	

	remediation will be shown and promoted in front of the AZ industrial and scientific community in a Workshop and in an International Conference on soil remediation.		
Tasks	D11.1 Project website, web platform and social network D11.2 - Dissemination material D11.3 – Conference on Course launch and presentation to stakeholders and the Ministry of Education (Month 12) D11.4 – Conference on soil remediation (Month 23) D11.5 – Workshop on Environmental remediation in Azerbaijan (Month 31) D11.6 – Final Conference: presentation of project results and future activities, included launch of the second edition of the course (Month 36).		
Estimated Start Date (dd-mm-yyyy)	15-11-2019	**Estimated End Date (dd-mm-yyyy)**	14-10-2022
Lead Organisation	Azerbaijan University of Architecture and Constructions - AzUAC		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task cannot be performed by the partner.*	Travel costs for the arrangement and the participation in meetings and events. Costs for dissemination materials (completely covered by co-funding). Staff costs (partially co-funded) for project promotion and results dissemination near stakeholders in Azerbaijan		

Deliverables/results/outcomes

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**11.1.**	
	Title	Project website, web platform and social network	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☐ Report ☒ Service/Product
	Description	This deliverable will cover the implementation, publishing, administration and updating of the official internet page of the project. A specific domain name	

		will be acquired, and an internet page will be published at least in English and Azeri language. A specific domain name will be acquired and an internet page will be published at least in English and Azeri. The internet page will be a multimedia platform that serves as info point, but also to aid the organization of the Course (by a private area for file exchange among teachers), as main communication channel and as the main directory point for the students. The internet page will be updated and monitored in terms of daily accesses by partners and third partners IP Addresses. Parallel to this, a project specific social media page (Facebook) will be opened and maintained, in order to report all the news to the followers.
	Due date	31-12-2019
	Languages	English, Azeri
Target groups	☒ Teaching staff ☒ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☒ Other	
	If you selected 'Other', please identify these target groups. *(Max. 250 words)* Project followers, third parties, public, stakeholders.	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**11.2**	
	Title	Dissemination material	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☐ Report ☒ Service/Product
	Description	Dissemination products such as the project handbook, flyers of the meeting events, gadget production and distribution will be produced and distributed.	
	Due date	14-11-2022	
	Languages	English Azeri	

Target groups	☐ Teaching staff ☐ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☒ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 characters)* Project followers, third parties, public and private stakeholders, students.		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**11.3.**	
	Title	Course launch and presentation to stakeholders and the Ministry of Education	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☐ Report ☒ Service/Product
	Description	The course will be launched in a national event, where it will be presented to authorities and stakeholders. The main innovative aspects of the course will be clearly presented, and stakeholders will be invited to give their contribution to the discussion, and to propose their collaboration for practical activities and adoption of sustainability measures. At this stage, issemination activity will also be target to get interest form stakeholders, in view of appointing the advisory external board (WP 1.3).	
	Due date	October 2020	
	Languages	English, Azeri	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☒ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)* Graduates in scientific area, academic people, stakeholders, public authorities.		

Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**11.4.**	
	Title	Conference in soil remediation	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☐ Report ☐ Service/Product
	Description	During the period of time of the Az staff stage in EU, an international Conference on soil remediation will be organized in Granada. The event will have two objectives: to discuss the topics investigated in the Training Centre among the international scientific community and to disseminate the project. The Call for participation will be launched 9 months before the event. All the Az researchers in the field will be encouraged to submit their works.	
	Due date	September 2021	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☐ Administrative staff ☐ Technical staff ☐ Librarians ☒ Other		
	If you selected 'Other', please identify these target groups. (Max. 250 words) Experts in the soil remediation.		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**11.5.**	
	Title	Workshop on Environmental remediation in Azerbaijan	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☐ Report ☐ Service/Product
	Description	The results of the research project in the Training	

		Centre and the analyses on remediation in Azerbaijan during the thesis work will be presented (Month 31). This will be the occasion to submit to stakeholders the possible solutions to be implemented in the next future to face the environmental emergency in the Country.
	Due date	31-05-2022
	Languages	English, Azeri
Target groups	☒ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☒ Technical staff ☐ Librarians ☒ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words) Project followers, third parties interested in the environmental field, public officials, stakeholders.	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**11.6.**	
	Title	Final Conference: presentation of project results and future activities, included launch of the second edition of the 3rd cycle course in Environmental Engineering	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☐ Report ☐ Service/Product
	Description	During the final meeting in Baku, a Public conference of dissemination will be organized in collaboration with the Ministry of Education, to disseminate results and future initiatives among universities, authorities and all stakeholders in Azerbaijan.	
	Due date	14-11-2022	
	Languages	English, Azeri	
Target groups	☒ Teaching staff ☒ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians		

	☒ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)* Project followers, third parties, public officials, stakeholders.		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Work package type and ref.nr	**MANAGEMENT**	**12**
Title	Project management	
Related assumptions and risks	Assumptions: • Agreement on the decision to be taken among the partner representatives. • Management structure defined in detail • Active participation of all consortium members and project staff. Risks • Low commitments by partners.	
Description	The project Management will be performed by the appointed project manager according to recognized practices in the management of international cooperation projects. The activities of this WP concern the set-up structure and the adopted methodology to realize the project. The management structure will consist of a Management Board, a Didactic Board and a Steering Committee. The Management Board will be constituted by one representative of each partner. This Committee will be the decision-making body of the project and will be in charge for driving the project to a successful completion, including the budget control. It will delegate the day-by-day management to an appointed project manager who will be in charge for the current operations and implementation of the Committee's decisions. These latter will be taken by consensus whenever possible, otherwise a vote by simple majority will take place. In case of equality of vote the Project Manager will have the casting vote. The project Manager will be provided by UNIROMA1 and most of activities will be carried out via Internet, with the active support of the other Consortium partners. The Didactic Board, consisting of representatives of European and Azerbaijan partners taking care of the 3rd cycle course in Environmental Engineering and by a representative of MoEAZ. The Didactic board will be coordinated by a representative of the BSU and a representative of UNIROMA1 expert in the implementation of a 3rd cycle course in Italy. This Committee will coordinate and supervise all the education activities, including students selection, front-end lectures, stage training placement and thesis discussion. The Steering Committee will look after the implementation and the activities of the Training Centre. It will consist of the coordinators of the four laboratories, a representative of BSU who will have the responsibility of the Training Centre, the project manager and three experts from the EU partners. this	

	committee is expected to survive to the project, and it will take care of project sustainability and future activities of the Training Centre, including joint future projects (Horizons 2020, other national and international grants).		
Tasks	D 12.1 - Kick-off meeting (Month 2) D 12.2 – Organization of the Training Center D 12.3 – Meetings of the Course didactic board D 12.4 – Call for application to the Course and dissemination strategy D 12.5 - Training campaign approval and lab assignment (Month 15) D 12.6 - Middle term project meeting (Month 18) D 12.7 – Final thesis discussion (Month 27) D 12.8 - Arrangements of framework agreements among EU and Azerbaijan partner Universities, and executive protocols among specific departments or Faculties D 12.9 – Final project meeting (Month 36)		
Estimated Start Date (dd-mm-yyyy)	15-10-2019	**Estimated End Date (dd-mm-yyyy)**	14-10-2022
Lead Organisation	Sapienza University – UNIROMA1		
Participating Organisation	All partners		
Costs *Please explain the necessary costs for this WP: What travels are necessary? If equipment is requested, explain why it is required. If subcontracting is necessary, explain why the task cannot be performed by the partner.*	Staff costs for meetings of the board, by VC or Skype, and reporting activities; travel cost for participation in the meeting.		

Deliverables/results/outcomes

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**12.1.**	
	Title	Kick-off meeting	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☒ Report ☐ Service/Product

	Description	A kick-off meeting will be organized by the BSU and held in Baku. During the meeting project objectives and milestones will be illustrated to all partners in detail and discussed; WP leaders and partners representatives will be appointed. Management Board, Didactic Board and Steering Committee will be constituted. A Consortium agreement will be signed by the partners' representatives. Financial rules will be illustrated to all partners and future activities will be planned in detail. Plans for signature of agreements will be approved and relative procedures will start. A special committee for the internet actions will be appointed and guidelines for website will be approved. A press conference will be organized during the event.
	Due date	December, 2019
	Languages	English
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**12.2.**	
	Title	Organization of the Training Centre	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☐ Service/Product
	Description	All the aspects related to Training Centre activity will be in charge of the Steering Committee. A report dealing with terms and conditions of partners' participation in the Training Centre will be prepared and shared among partners. The coordinator of each of the four laboratories will be appointed. Each of them will be charged of the responsibility of the laboratory of its concern, including equipment, workers and research projects, whereas the Training Centre responsibility (Centre's Head) will be assigned	

		to a representative of BSU.
	Due date	February 2020
	Languages	English
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**12.3.**	
	Title	Meetings of the Course Didactic Board	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☒ Report ☐ Service/Product
	Description	A first meeting will be devoted to check of the preparatory actions for the course implementation (M9). The Az member of the Didactic Board will also visit the Training Centre to check the availability of facilities to carry on the 3rd cycle course (lecture hall, laboratory equipment, and didactic materials). The EU members will participate in the meetings by internet media. On the occasion, the appointment of the teachers will be confirmed and that one of tutors for all the didactic activities will be proposed and approved. Furthermore, periodical meetings will be organized for the supervision and control of the course. The EU partners will participate in the meetings by VC or Skype. The education quality provided by the teaching staff and the profit shown by the students in each exam session will be discussed time by time.	
	Due date	July, 2020 – July, 2021 - January, 2022	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees		

	☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**12.4.**	
	Title	Call for application to the Course and dissemination strategy	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☒ Service/Product
	Description	A Call for application for the enrolment in the course will be defined and disseminated by internet and throughout the AZ universities. A careful plan of dissemination will be studied and carried out by all partners in the Country.	
	Due date	September, 2020	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**12.5.**	
	Title	Training campaign approval and lab assignment	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☒ Service/Product
	Description	The Didactic Board will have a meeting at Baku for the	

		approval of the subject and location of the training stage of each student. The EU partners will participate in the meetings by internet media. The Board will award the 12 best students of a training at an European institution.
	Due date	July, 2021
	Languages	English
Target groups	☒ Teaching staff ☒ Students ☐ Trainees ☐ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**12.6.**	
	Title	Middle term project meeting	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☐ Event ☒ Report ☒ Service/Product
	Description	A middle term meeting will be held in Rome. The first achievements of the project, including the first results of the monitoring activities will be discussed. On the occasion a first analysis of the implementation of the 3rd cycle Course in Environmental Remediation in Azerbaijan will be discussed. The meeting will aim at drafting the Intermediate report, performing the check of expenditures, defining methods and tools for course and project evaluation, and planning student training in EU. A special committee will be appointed to edit the Project Handbook, for dissemination purpose. On the occasion, a meeting of the Didactic board will be also organized, to share experiences and plan the second part of Course activities.	
	Due date	January, 2021	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees		

	☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**12.7.**	
	Title	Final thesis discussion	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☒ Report ☐ Service/Product
	Description	At the end of the course, the didactic board will have a meeting in occasion of thesis discussion in Baku. Stakeholders will be invited to know the main outcomes of students' activity during their practical placement near EU and Az institutions.	
	Due date	January, 2022	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)*		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☒ National ☐ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**12.8.**	
	Title	Arrangements of framework agreements among EU and Azerbaijan partner Universities, and executive protocols among specific departments or Faculties	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☒ Report ☐ Service/Product

	Description	New framework agreements and executive protocols will be signed among the institutions involved in the project, as a result of the strengthening of collaboration among EU and Azerbaijanian Institutions. The number of such new or renewed agreement will be adopted as an indicator of project success towards academic institutions in the Country.
	Due date	April, 2022
	Languages	English
Target groups	☒ Teaching staff ☐ Students ☐ Trainees ☒ Administrative staff ☒ Technical staff ☐ Librarians ☐ Other	
	If you selected 'Other', please identify these target groups. (Max. 250 words)	
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional ☐ National ☒ International

Expected Deliverable/Results/ Outcomes	Work Package and Outcome ref.nr	**12.9.**	
	Title	Final project meeting	
	Type	☐ Teaching material ☐ Learning material ☐ Training material	☒ Event ☒ Report ☐ Service/Product
	Description	A final meeting will be held in Baku. The main achievement and outcomes of the project will be discussed, and initiatives to ensure sustainability will be strengthened. The meeting will aim at drafting the Final report, including all teaching, financial and technical results. Quality and monitoring aspects will be also deeply discussed . During the meeting, a Public conference of dissemination will be organized in collaboration with the Ministry of Education, to disseminate results and future initiatives among universities, authorities and all stakeholders in Azerbaijan.	
	Due date	September, 2022	
	Languages	English	
Target groups	☒ Teaching staff ☐ Students ☐ Trainees		

	☒ Administrative staff ☒ Technical staff ☐ Librarians ☒ Other		
	If you selected 'Other', please identify these target groups. *(Max. 250 words)* Authorities, wide community, press agencies, diplomatic representatives of the partner Countries		
Dissemination level	☐ Department / Faculty ☐ Institution	☐ Local ☐ Regional	☐ National ☒ International

Please copy and paste tables as necessary.

E.7 Consortium partners involved and human resources required to complete the work packages

Indicative input of consortium staff - *The total number of days per staff category should correspond with the information provided in the budget tables.*

Work Package Ref.nr	Partner nr	Partner acronym	Country	Number of staff days[1]					Exact Role and tasks of each person in the work package
				Category 1	Category 2	Category 3	Category 4	Total	
WP1 PREPARATION	1	UNIROMA1	IT	3	28	2	5	38	Manager for coordination and appointment of working groups. Teacher and technical staff for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	2	AAU	DK	2	12	1	0	15	Manager for coordination and appointment of working groups. Teacher and technical staff for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	3	UGR	ES	2	20	4	2	28	WP leader. Manager for coordination and appointment of working groups. Teacher and technical for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	4	UPAT	GR	2	14	2	2	20	Manager for coordination and appointment of working groups. Teacher and technical for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	5	BSU	AZ	2	12	2	1	17	Manager for coordination and appointment of working groups. Teacher and technical for documents analysis and selection of technologies. Technical and

[1] *Please see Programme Guide, Part B for your action, Table A – Project Implementation (amounts in Euro per day) Programme Countries and Table B - Project Implementation (amounts in Euro per day) Partner Countries.*

									Administrative for exchange of documents and database inquiryies.
	6	BEU	AZ	2	4	2	1	9	Manager for coordination and appointment of working groups. Teacher and technical for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	7	BHOS	AZ	2	4	2	1	9	Manager for coordination and appointment of working groups. Teacher and technical for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	8	AzUAC	AZ	3	4	2	1	10	Manager for coordination and appointment of working groups. Teacher and technical for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	9	AEL	AZ	1	1	4	0	6	Manager for coordination and appointment of working groups. Teacher and technical for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	10	AT	AZ	0	1	5	0	6	Teacher and technical for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	11	SRDI	AZ	0	1	1	0	2	Teacher and technical for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiryies.
	12	ARGUS	GE	1	3	2	0	6	Manager for coordination and appointment of working groups. Teacher and technical for documents analysis and selection of technologies. Technical and Administrative for exchange of documents and database inquiries.
			SUBTOTAL	20	104	29	13	166	
WP2 PREPARATION	1	UNIROMA1	IT	2	24	3	4	33	Manager for design and organization of the Training Centre. Manager and administrative for arranagements of agreements. Technical for practical aspects of TC organization.

	2	AAU	DK	3	16	0	0	19	Manager for design and organization of the Training Centre. Manager for arranagements of agreements. Technical for practical aspects of TC organization
	3	UGR	ES	4	28	1	0	33	Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
	4	UPAT	GR	4	24	1	0	29	Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
	5	BSU	AZ	4	12	2	0	18	WP leader. Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
	6	BEU	AZ	2	8	1	0	11	Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
	7	BHOS	AZ	2	8	1	0	11	Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
	8	AzUAC	AZ	2	10	1	0	13	Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
	9	AEL	AZ	0	1	1	0	2	Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
	10	AT	AZ	1	1	2	0	4	Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
	11	SRDI	AZ	2	2	1	1	6	Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
	12	ARGUS	GE	1	6	3	0	10	Manager for design and organization of the Training Centre. Manager for arrangements of agreements. Technical for practical aspects of TC organization
			SUBTOTAL	27	140	17	5	189	
WP3 PREPARATION	1	UNIROMA1	IT	4	36	6	4	50	Manager for coordination activity. Teachers for course design and content definition. Teachers for review of existing course in EU, training of AZ teachers. Manager,

									technical and administrative for course venue selection and arrangements.
	2	AAU	DK	5	24	0	4	33	WP leader. Manager for organization of workshop on new teaching methodology. Manager for coordination activity. Teachers for course design and content definition. Teachers for review of existing course in EU, training of AZ teachers. Manager and administrative for course venue selection and arrangements.
	3	UGR	ES	2	28	0	2	32	Manager for coordination activity. Teachers for course design and content definition. Teachers for review of existing course in EU, training of AZ teachers. Manager and administrative for course venue selection and arrangements.
	4	UPAT	GR	2	28	0	2	32	Manager for coordination activity. Teachers for course design and content definition. Teachers for review of existing course in EU, training of AZ teachers. Manager and administrative for course venue selection and arrangements.
	5	BSU	AZ	4	120	2	0	126	Local coordination of teaching activity. Manager for coordination activity. Teachers for course design and content definition. Teachers trained. Manager and technical for course venue selection and arrangements.
	6	BEU	AZ	1	120	2	0	123	Manager for coordination activity. Teachers for course design and content definition. Teachers trained. Manager and technical for course venue selection and arrangements.
	7	BHOS	AZ	1	120	2	0	123	Manager for coordination activity. Teachers for course design and content definition. Teachers trained. Manager and technical for course venue selection and arrangements.
	8	AzUAC	AZ	2	120	2	0	124	Manager for coordination activity. Teachers for course design and content definition. Teachers trained. Manager and technical for course venue selection and arrangements.
	9	AEL	AZ	0	2	8	0	10	Teachers and technical for course design and content definition (lab modules).
	10	AT	AZ	0	2	8	0	10	Teachers and technical for course design and content definition (lab modules).

	11	SRDI	AZ	3	4	0	1	8	Teachers for course design and content definition. Manager for coordination activity.
	12	ARGUS	GE	3	6	12	0	21	Manager for coordination activity. Teachers for course design and content definition. Teachers trained. Manager and technical for course venue selection and arrangements.
			SUBTOTAL	27	610	42	13	692	
WP4 PREPARATION	1	UNIROMA1	IT	3	18	6	4	31	Managers and teachers involved in the course presentation to the wide community, and staff involved in the conceiving and drafting of the call. Activities of the selection board (including both EU and Az teachers). Technical and administrative participation to student selection.
	2	AAU	DK	2	12	1	2	17	Managers and teachers involved in the course presentation to the wide community, and staff involved in the conceiving and drafting of the call. Activities of the selection board (including both EU and Az teachers). Technical and administrative participation to student selection.
	3	UGR	ES	2	12	2	0	16	Managers and teachers involved in the course presentation to the wide community, and staff involved in the conceiving and drafting of the call. Activities of the selection board (including both EU and Az teachers). Technical staff participation to student selection.
	4	UPAT	GR	2	14	3	0	19	Managers and teachers involved in the course presentation to the wide community, and staff involved in the conceiving and drafting of the call. Activities of the selection board (including both EU and Az teachers). Technical staff participation to student selection.
	5	BSU	AZ	2	6	1	1	10	Managers and teachers involved in the course presentation to the wide community, and staff involved in the conceiving and drafting of the call. Activities of the selection board (including both EU and Az teachers). Technical and administrative participation to student selection.
	6	BEU	AZ	1	6	1	1	9	Managers and teachers involved in the course

									presentation to the wide community, and staff involved in the conceiving and drafting of the call. Activities of the selection board (including both EU and Az teachers). Technical and administrative participation to student selection.
	7	BHOS	AZ	2	12	3	2	19	WP leader. Managers and teachers involved in the course presentation to the wide community, and staff involved in the conceiving and drafting of the call. Activities of the selection board (including both EU and Az teachers). Technical and administrative participation to student selection.
	8	AzUAC	AZ	2	10	2	1	15	Managers and teachers involved in the course presentation to the wide community, and staff involved in the conceiving and drafting of the call. Activities of the selection board (including both EU and Az teachers). Technical and administrative participation to student selection.
	9	AEL	AZ	0	2	3	0	5	Staff involved in the conceiving and drafting of the call
	10	AT	AZ	1	2	3	0	6	Staff involved in the conceiving and drafting of the call
	11	SRDI	AZ	2	4	0	1	7	Staff involved in the conceiving and drafting of the call
	12	ARGUS	GE	1	4	4	0	9	Staff involved in the conceiving and drafting of the call
SUBTOTAL				20	102	29	12	163	
WP5 DEVELOPMENT	1	UNIROMA1	IT	4	24	10	4	42	Preliminary activities by managers and teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	2	AAU	DK	4	10	1	0	15	Preliminary activities by managers and teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	3	UGR	ES	4	16	2	0	22	Preliminary activities by managers and teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	4	UPAT	GR	4	16	3	0	23	Preliminary activities by managers and teachers for lab installations, and for equipment installations and testing.

									Participation to the TC opening in Baku.
	5	BSU	AZ	4	16	4	4	28	WP leader. Preliminary activities by managers and teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	6	BEU	AZ	2	12	6	4	24	Preliminary activities by managers and teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	7	BHOS	AZ	4	10	6	4	24	Preliminary activities by managers and teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	8	AzUAC	AZ	4	10	6	5	25	Preliminary activities by managers and teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	9	AEL	AZ	0	3	3	0	6	Preliminary activities by teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	10	AT	AZ	0	3	3	0	6	Preliminary activities by teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	11	SRDI	AZ	1	3	0	1	5	Preliminary activities by teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
	12	ARGUS	GE	1	2	0	0	3	Preliminary activities by managers and teachers for lab installations, and for equipment installations and testing. Participation to the TC opening in Baku.
SUBTOTAL				32	125	44	22	223	
WP6 DEVELOPMENT	1	UNIROMA1	IT	4	18	4	4	30	Staff costs are necessary for student selection and preliminary activities to the Course.
	2	AAU	DK	2	6	0	0	8	Staff costs are necessary for student selection and preliminary activities to the Course.
	3	UGR	ES	2	12	0	0	14	Staff costs are necessary for student selection and preliminary activities to the Course.
	4	UPAT	GR	6	14	0	0	20	WP leader. Staff costs are necessary for student

									selection and preliminary activities to the Course.
	5	BSU	AZ	4	10	4	3	21	Staff costs are necessary for student selection and preliminary activities to the Course.
	6	BEU	AZ	2	4	4	0	10	Staff costs are necessary for student selection and preliminary activities to the Course.
	7	BHOS	AZ	2	4	4	0	10	Staff costs are necessary for student selection and preliminary activities to the Course.
	8	AzUAC	AZ	1	6	2	2	11	Staff costs are necessary for student selection and preliminary activities to the Course.
	9	AEL	AZ	0	2	4	0	6	Staff costs are necessary for student selection and preliminary activities to the Course.
	10	AT	AZ	0	2	4	0	6	Staff costs are necessary for student selection and preliminary activities to the Course.
	11	SRDI	AZ	2	4	0	1	7	Staff costs are necessary for student selection and preliminary activities to the Course.
	12	ARGUS	GE	2	4	2	0	8	Staff costs are necessary for student selection and preliminary activities to the Course.
SUBTOTAL				27	86	28	10	151	
WP7 DEVELOPMENT	1	UNIROMA1	IT	4	56	8	6	74	Teaching and lab activities. Course development. Administrative involved in organizing mobility.
	2	AAU	DK	2	8	0	0	10	Teaching and lab activities. Course development.
	3	UGR	ES	4	32	4	0	40	Teaching and lab activities. Course development.
	4	UPAT	GR	6	32	8	4	50	Teaching and lab activities. Course development. Administrative involved in organizing mobility.
	5	BSU	AZ	4	30	8	2	44	WP leader. Teaching and lab activities. Course development. Administrative involved in organizing mobility.
	6	BEU	AZ	1	28	4	0	33	Teaching and lab activities. Course development.
	7	BHOS	AZ	1	28	4	0	33	Teaching and lab activities. Course development.
	8	AzUAC	AZ	1	28	3	1	33	Teaching and lab activities. Course development. Administrative involved in organizing mobility.
	9	AEL	AZ	0	6	2	0	8	Lab activities. Course development.
	10	AT	AZ	0	6	2	0	8	Lab activities. Course development.
	11	SRDI	AZ	1	16	0	1	16	Lab activities. Course development.
	12	ARGUS	GE	4	10	28	0	42	Teaching and lab activities. Course development.

			SUBTOTAL	28	280	71	14	393	
WP8 DEVELOPMENT	1	UNIROMA1	IT	6	12	10	2	30	Technologies investigation. Draft of a proposal for H2020.
	2	AAU	DK	14	20	12	6	52	Technologies investigation. Draft of a proposal for H2020.
	3	UGR	ES	4	10	6	3	23	WP leader. Technologies investigation. Draft of a proposal for H2020.
	4	UPAT	GR	4	10	10	3	27	Technologies investigation. Draft of a proposal for H2020.
	5	BSU	AZ	2	8	6	2	18	Technologies investigation. Draft of a proposal for H2020.
	6	BEU	AZ	1	4	4	0	9	Technologies investigation. Draft of a proposal for H2020.
	7	BHOS	AZ	1	4	4	0	9	Technologies investigation. Draft of a proposal for H2020.
	8	AzUAC	AZ	1	8	6	1	16	Technologies investigation. Draft of a proposal for H2020.
	9	AEL	AZ	1	1	1	0	3	Technologies investigation. Draft of a proposal for H2020.
	10	AT	AZ	0	1	1	0	2	Technologies investigation. Draft of a proposal for H2020.
	11	SRDI	AZ	2	4	0	1	7	Technologies investigation. Draft of a proposal for H2020.
	12	ARGUS	GE	4	8	16	0	28	Technologies investigation. Draft of a proposal for H2020.
			SUBTOTAL	40	90	76	18	224	
WP9 DEVELOPMENT	1	UNIROMA1	IT	2	8	4	2	16	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	2	AAU	DK	2	3	8	0	13	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	3	UGR	ES	2	2	6	0	10	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	4	UPAT	GR	2	2	8	0	12	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	5	BSU	AZ	4	4	6	6	20	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	6	BEU	AZ	4	4	6	1	15	WP leader. Staff involved in the proposal for

									accreditation, plan of the second edition of the course.
	7	BHOS	AZ	2	2	8	2	14	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	8	AzUAC	AZ	2	1	6	2	11	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	9	AEL	AZ	2	2	4	0	8	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	10	AT	AZ	2	2	4	0	8	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	11	SRDI	AZ	2	2	0	1	5	Staff involved in the proposal for accreditation, plan of the second edition of the course.
	12	ARGUS	GE	2	2	0	0	4	Staff involved in the proposal for accreditation, plan of the second edition of the course.
SUBTOTAL				28	34	60	14	136	
WP10 QUALITY PLAN	1	UNIROMA1	IT	6	12	10	2	30	WP leader. Quality plan and project monitoring. Questionnaires filling in. Teachers feedback. Establishing evaluation criteria, method and indicators
	2	AAU	DK	14	26	10	10	60	Questionnaires filling in. Teachers feedback. Establishing evaluation criteria, method and indicators
	3	UGR	ES	4	10	6	3	23	Questionnaires filling in. Teachers feedback. Establishing evaluation criteria, method and indicators
	4	UPAT	GR	4	10	10	3	27	Questionnaires filling in. Teachers feedback. Establishing evaluation criteria, method and indicators
	5	BSU	AZ	4	10	4	2	20	Questionnaires filling in. Teachers and students feedback. Establishing evaluation criteria, method and indicators
	6	BEU	AZ	4	6	4	1	15	Questionnaires filling in. Teachers and students feedback. Establishing evaluation criteria, method and indicators
	7	BHOS	AZ	3	6	6	1	16	Questionnaires filling in. Teachers and students feedback. Establishing evaluation criteria, method and indicators
	8	AzUAC	AZ	4	8	8	1	21	Questionnaires filling in. Teachers and students feedback. Establishing evaluation criteria, method and indicators
	9	AEL	AZ	1	1	1	0	3	Questionnaires filling in. Teachers and students feedback.

	10	AT	AZ	0	2	1	0	3	Questionnaires filling in. Teachers and students feedback.
	11	SRDI	AZ	2	4	0	1	7	Questionnaires filling in. Teachers and students feedback.
	12	ARGUS	GE	2	2	6	0	10	Questionnaires filling in. Teachers and students feedback. Establishing evaluation criteria, method and indicators
SUBTOTAL				48	97	66	24	235	
WP11 DISSEMINATION & EXPLOITATION	1	UNIROMA1	IT	4	6	10	4	24	Dissemination activities in EU and Azerbaijan, Planning of dissemination activities. Participation to press conferences in AZ and dissemination events.
	2	AAU	DK	1	6	4	2	13	Dissemination activities in EU and Azerbaijan, Planning of dissemination activities. Participation to dissemination events.
	3	UGR	ES	2	6	4	4	16	Dissemination activities in EU and Azerbaijan, Planning of dissemination activities. Participation to dissemination events.
	4	UPAT	GR	1	8	3	3	15	Dissemination activities in EU and Azerbaijan, Planning of dissemination activities. Participation to dissemination events.
	5	BSU	AZ	18	30	16	13	77	Dissemination activities in Azerbaijan, Planning of dissemination activities. Participation to press conferences in AZ and dissemination events.
	6	BEU	AZ	15	20	16	13	64	Dissemination activities in Azerbaijan, Planning of dissemination activities. Participation to dissemination events.
	7	BHOS	AZ	15	20	16	12	63	Dissemination activities in Azerbaijan, Planning of dissemination activities. Participation to dissemination events.
	8	AzUAC	AZ	20	22	16	12	70	WP leader. Dissemination activities in Azerbaijan, Planning of dissemination activities. Participation to dissemination events.
	9	AEL	AZ	2	4	0	1	7	Dissemination activities in Azerbaijan, Planning of dissemination activities. Participation to dissemination events.
	10	AT	AZ	2	3	0	1	6	Dissemination activities in Azerbaijan, Planning of dissemination activities. Participation to dissemination events.

	11	SRDI	AZ	5	3	0	3	11	Dissemination activities in Azerbaijan, Planning of dissemination activities. Participation to dissemination events.
	12	ARGUS	GE	1	3	4	0	8	Dissemination activities in EU and Azerbaijan, Planning of dissemination activities. Participation to dissemination events.
SUBTOTAL				86	131	89	68	374	
WP12 MANAGEMENT	1	UNIROMA1	IT	36	32	8	32	108	WP leader. Project coordination and management. Meetings organization. Participation to project committees and didactic board. Administrative tasks.
	2	AAU	DK	18	14	8	10	50	Project management. Meetings organization. Participation to project committees and didactic board. Administrative tasks.
	3	UGR	ES	18	4	6	12	40	Project management. Meetings organization. Participation to project committees and didactic board. Administrative tasks.
	4	UPAT	GR	18	4	4	12	38	Project management. Participation to project committees and didactic board. Administrative tasks.
	5	BSU	AZ	7	6	4	3	20	Project management. Local coordination. Meetings organization. Participation to project committees and didactic board. Administrative tasks.
	6	BEU	AZ	7	6	4	1	18	Project management. Participation to meetings, project committees and didactic board. Administrative tasks.
	7	BHOS	AZ	7	6	3	1	17	Project management. Participation to meetings, project committees and didactic board. Administrative tasks.
	8	AzUAC	AZ	6	4	2	2	14	Project management. Participation to meetings, project committees and didactic board. Administrative tasks.
	9	AEL	AZ	3	4	1	1	9	Project management. Participation to meetings, project committees and didactic board. Administrative tasks.
	10	AT	AZ	3	4	1	0	8	Project management. Participation to meetings, project committees and didactic board. Administrative tasks.
	11	SRDI	AZ	5	4	0	2	11	Project management. Participation to meetings, project committees and didactic board. Administrative

									tasks.
	12	ARGUS	GE	6	0	4	4	14	Project management. Participation to meetings, project committees and didactic board. Administrative tasks.
SUBTOTAL				134	88	45	80	347	
TOTAL				**469**	**1790**	**530**	**269**	**3058**	

Please insert rows as necessary

PART F – Quality of the Project Team and Cooperation Arrangements

F.1 Background of partnership and the proposal preparation

Please provide shortly the history of cooperation between partners (if any). How the idea of the project was developed and which/ who among partners contributed to the proposal development. (limit 3.000 characters)

The partnership is based on four partners of the consortium successfully involved in the previous Tempus project 543924 ECONANO, that is Uniroma1, University of Patras, BSU, AZUAC, Azecolab. The new partnership consists of 13 partners 8 from Azerbaijan and 5 from 5 different Countries from EU. All the 8 university partners of this project, both EU and Az side, actually offer education in ecology engineering area, and most of them are also engaged in the application of new and advanced technologies for the environmental remediation and monitoring. Regarding Azerbaijani partnership, four public Universities are involved, covering all the fields of chemistry, physics and engineering, as well as offering ecology and environmental courses at bachelor level. An added value of the project is the good link among the EU partners because of collaboration in National and International projects and the existing agreements between the project applicant, Uniroma1, with BSU and AzUAC, as a result of the Econano project.
With respect to the Econano consortium, new partners from public and private sectors and have been introduced, to cover oil and gas sector, i.e. Baku Higher Oil School - BHOS, and the energy sector, i.e. Baku Engineering University- BEU, the main responsible of environmental impact. Azerbaijan universities are all involved in environmental monitoring, pollution prevention and control and environmental protection. In particular, BHOS operates also as the scientific academy of SOCAR, the biggest Az oil and gas company, which will be a reference point of the project with respect to the pollution problems to be faced, the training of the students and the opportunity of entrance in the job market.
The idea of the project was developed by Sapienza and BSU, which has a strict link with the Az MoE (see attached letter of interest by MoE at page 165). A joint report was written by BSU and Uniroma1 on the pollution of Absheron peninsula in Azerbaijan (Journal of Low Dimensional Systems, v. 2 (1), 2018). This report made evidence of the needs of Azerbaijan to face the pollution emergency in the region of Baku and to provide high qualified professional skills for the job market. At the same time both these partners, Sapienza and BSU, were aware of the lack education in enviromental remediation in Azerbaijan and as a consequence, the need of developing a new advanced 3rd cycle course, absent right now in the Az HES.
All the partners have contributed to the project proposal. The four EU Universities, whose collaboration is successfully consolidated, contributed to the concept of the advanced 3rd cycle course, on the basis of their direct experience in the field and to the elaboration of process scheme and WPs, according to their expertise and previous experiences in development of EU funded projects. Private companies contributed to individuate both job market needs and professional requirements, as well as to select environmental issues and remediation priorities.

If relevant, please explain how and to which extent the project benefits from the experience and participation of non–academic partners. (limit 3.000 characters)

EU non academic partner (Argus Gmbh) will get benefit from the project, since it would have the opportunity to share its experiences and build new collaboration in Azerbaijan. Furthermore, due to the collaboration with Universities in the development of the Training Center and related activities, an improvement of their technological skills is expected. At the same time, their participation in the project will contribute to test innovative technologies on a field scale, thus allowing students and teachers to evaluate the practical application of their theoretical studies.

Since the 3rd cycle course is thought to represent a bridge between university and job market, the project will get benefit from the participation of 3 non-academic Az partners, because they can evaluate their professional skill of the students during the offerd stage students and, later on will evaluate opportunity for them to enter the job market. Furthermore, the actual issues to be faced during implementation of technologies and all the aspect related to engineering can be successfully tackled thanks to the participation of experts active in the filed since long time. In particular, Analityk and Azecolab, mainly devoted to environmental monitoring and analysis, will give their expertise in instruments practice, while Sukanal will contribute to the project in all technical and practical aspects of technology implementation.

Please explain the role and the participation of the Programme Country partners and their support in the development of the different activities (e.g. in the development of the curricula) and (limit 3.000 characters)

The project will receive a fundamental boost from EU support. The need of EU collaboration regards to the support from EU Universities in implementing the advanced 3rd level course, basing on the past experiences of EU partners at their own countries. The support by EU Institutions will be not only in the phase of set-up of the course, by identifying proper skills and modules to be included in the course, by selecting equipment to be procured and used, and in the hosting of students at their premises, but also in the training of Azerbaijani teachers, in view of project sustainability. The support by EACEA will ensure student and staff mobility, equipment, and EU partners participation in teaching and training activities: funds are not available at a local level, but this initial effort can favour the involvement in the future of local stakeholders, interested in supporting the training of future professionals to be absorbed by the labour market.
All EU partners will be involved in some crucial steps, such as the design and organization of the Training Center, as well as teaching activities in the framework of the proposed 3rd cycle advanced course. All modules will be in fact shared by EU and local teachers.
Furthermore, EU partners will participate in the training activities of Azerbaijanian teachers in EU, and will host students for practical placement near their premises. Regarding technology selection and application on real cases, all EU partners will bring their scientific and technical expertise.
In addition, specific activities will be performed by:
- Sapienza University will play an important role in the design of the 3rd cycle course; it in fact already offers several 3rd cycle courses in the field of Engineering, including courses jointly organized with private companies, in some cases in the field of oil and gas and petrochemical activities, including environmental impact and pollution prevention and remediation. On the base of its wide previous experience, Sapienza will take over project management and cooordination.
- Aalborg University, in addition to a robust and consolidated expertise in the field of environmental remediation, will offer for the 3rd level course on Oil and Gas Extraction an innovative teaching methodology recognized and praised by UNESCO.
- University of Granada of recognised extensive experience in soil and water bioremediation, at the Institute of Water Research, will contribute to the selection of remediation technologies to be chosen and tested.
- UoP has acquired international prominence for pioneering and wide ranging research in Environment. A number of its Departments have been designated as Centres of Excellence, on the basis of international assessment. A special contribution is expected in the application of selected technologies at pilot scale on real cases.
- Argus Gmbh will collaborate in the selection of technologies to be tested on the basis of its practical eperience, and will contribute to researchers and technicians training on equipment and pilot scale.

F.2 Cooperation arrangements, management and communication

Please define the organisation of the implementation of the project and the division of tasks between the partners. Please explain the allocation of resources for each activity. Explain also how the tasks are distributed amongst the partners and how project "ownership" is ensured (limit 3.000 characters).

The project, both at academic and administrative level, will be managed in cooperation among the partners. Specific committees will be appointed for academic and administrative task management. Project activities will be coordinated by a Steering Committee of six members (3 EU, 3 AZ). Its main tasks will be:
- co-ordinate the general implementation of the activities;
- define the guidelines for running the activities and specific mandates (objectives, deliverables, procedures, duration);
- periodically review progress made towards the achievement of the Project objectives and results.

Regarding the administrative aspects, a Management Board will be appointed, including a representative from each partner, supported by administ.ative staff.
This board will support the coordinator:
- to assure the respect of all responsibilities and obligations indicated in the Grant Agreement including the respect of the eligibility of expenditures rules, obligations in providing needed information to the EC and responsibilities assumed by each Partner of the Project;
- to identify the guidelines for the management of the financial resources allocated to the Project, assuring the respect of European Commission procedures and requirements and defining the administrative procedures for the commitment, expenditure and accounting of funds.

In addition, direct contacts among the administrative officers at each Intitution will be established, to allow an easy exchange of financial and administrative documents. Furthermore, their involvement in mobility was fundamental, in the view of favouring any exchange of documents and experiences in the field of EU grant management
The support of the administrative head and staff of International relationship bureau (mobility and meetings technical organisation) will be ensured. Finally, a Didactic Board will be appointed with the specific tasks of:
a) Course dissemination and launching
b) Students selection and enrollment
c) Organization of teaching and tutorial modules.
d) Organization of the training stages.
e) Organization and management of the Theses discussion event.
f) Definition of the criteria to assign a grant for students mobility abroad.
g) Definition of the calendar of the course
h) Organization of the Workshop on ne teaching methodology.

The Didactic Board will be constituted by representative of all the teachers taking part in the course and by a representative of each of the laboratory. Representative of the Ministry of Education will be also invited time by time, to define the content of the course, the selection of students, etc., in view of course accreditation. All WPs will be carried out by selected partners, and a WP leader will be appointed, to take over the coordination of the activities. The budget will be distributed among WP activities: any activity will involve selected role (manager, teacher, administrative, technician) and the budget will be distributed among partners according to the specific activities and type of performer.
Sapienza will manage the grant: according to previous experiences in other similar project, the prefinancing will be distributed among partners according to the initial budget distribution, basing on the logical framework and WP implementation schedule hereby reported.

Please explain the overall project and partnership management making specific reference to the management plan and how decisions will be taken. Please describe how permanent and effective communication and reporting will be ensured as well as the measures put in place for conflict resolution (limit 2.000 characters).

Day by day activities will be managed by the three committees in their respective area by an intensive exchange of email and Skype meetings. All committees will adopt a decision making procedure that will ensure the involvement of all the partners, by encouraging internal meetings of coordination, to share experiences and to quickly solve any issues both form scientific and administrative point of view. To ensure the implementation of the project, according to the proposal and the decision approved by all partners during project meetings, the Grant Holder will act as a pivot, receiving any input and reporting any issue to the respective board for the decision. In case of difficulties to make decisions, the final decision will be made by the coordinator of the committee in agreement with the grant holder. Any member of the committees will be continuously contacted and updated about the state of the project by web site, email and periodical reports. Periodic or urgent meeting via Skype conferences are organized by the Grant Holder. Regarding the administrative aspects, a direct contact between the administrative officers will be established, for an easy exchange of financial and administrative documents. The support of the administrative head of International relationship bureau and administrative staff (mobility and meetings technical organisation) is also ensured at each partner institution for mobility issue and framework agreement signature.

F.3 Organisations and activities

This part must be completed separately by each organisation participating in the project (applicant and partners with its affiliated entities (if any)).

Partner number		**P1**
Organisation name & acronym	SAPIENZA UNIVERSITY – UNIROMA1	
F.3.1 - Aims and activities of the organisation *Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project* (limit 2000 characters).		
Sapienza University of Rome, founded in 1303 by Pope Boniface VIII, is one of the oldest universities in the world and the second largest University in Europe, greatly able to manage its outstanding numbers: 112.000 and more enrolled students, around 8.000 out of them coming from foreign countries and 1.500 incoming and 1.700 outgoing exchange students each year, 11 faculties covering almost all scientific and social areas coordinating a total number of 60 departments, more than 4.700 professors and researchers and 4.300 administrative and		

technical staff.
Sapienza offers a vast array of courses: around 270 degree programmes at Bachelor and Master level, 80 PhD courses, more than 200 one to two year long lasting professional courses and around 70 Specialization Schools, 35 Bachelor and Master degree programmes entirely taught in English (including a full 6-year long lasting degree in Medicine and Surgery), plus many English-taught single courses in various disciplines.
Sapienza is also one of the few Italian public Universities always ranked in major international rankings, active member of several international networks such as COURSERA, UNICA, UNIMED, the SANTANDER GROUP and many others and therefore it plays a fundamental role in the academic international scenario.
Committed to the importance of the internationalization of education and training, to the expertise and know-how sharing, to the collaboration in institutional and capacity building, Sapienza University is engaged, since a long time, in an extensive range of international cooperation projects and actions with almost every geographical area of the world: from Asia to the Balkans, from Australia to the Middle East, from America to the ACP countries.
This long lasting experience has brought Sapienza to an extensive knowledge of the international cooperation that made our University able to develop a wide and now tested range of management and operational skills in the field.
The Department of Chemical Material Environmental Engineering, in charge for the management of the project, contributes to the education for the curricula of Masters Sc. in Chemical Engineering, Environmental and civil engineering, Safety Engineering and Industrial Nanotechnology. It has a wide experience of participation in international education and research projects. Sapienza was the responsible of the EU project ECONANO, concerning a study on the modernization of ecology engineering in Azerbaijan. Sapienza has also a long time experience in third level education (Ph.D., 3rd level Advanced course) in the field of Engineering.

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	
Number of students	
Number of Bachelor degrees offered	
Number of Master degrees offered	
Number of PhD degrees offered	
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	

F.3.2 – Role of your organisation in the project
Please describe also the role of your organisation in the project (limit 1000 characters).

UNIROMA1, and in particular, the Department of Chemical Engineering Materials and Environment will coordinate the project, both regarding the teaching and the administrative activities. Due to the wide experience either on front end teaching or tutorial laboratory, this organisation will provide teachers for the 3rd level course in Environmental Engineering. In addition, 5 students attending will be hosted near UNIROMA1 lab to develop their final thesis project, and up to 10 AZ teachers will be hosted to be acquainted with the EU HE approach in Environmental Engineering. Basing on previous experiences in the field of 3rd cycle high education, jointly organized with industries and stakeholders, Sapienza will play a crucial role in the design and organization of the proposed postgraduate 3rd cycle course.
The experience of participation in national and international research consortia will be exploited in the phase involving the building up of the Training Centre.

F.3.3 – Curriculum development project *(only for Partner Country institutions)*
Please fill in if you are applying for a curriculum development project

Please confirm that no similar curricula/ courses/modules were developed/modernised in Tempus IV projects in this HEI.	

For new courses

What new courses will the project implement in your HEI?	

For each course please fill the following nested table:

Title	
Level of study	
List of subjects and credits (ECTS or comparable credit system) for each of them	
Estimated date of accreditation and accreditation body	
Estimated starting date of the new programme	
Number of students to be accepted in the first year/ second year	
Number of teaching staff to be trained	
Internship /placements (if applicable)	
List of equipment to be purchased for this course? (if applicable)	

Please copy and paste nested tables as necessary

For updated courses

Which existing courses will be updated in your HEI?	

For each course please fill the following nested table:

Title	
Level of study	
List of subjects and credits (ECTS or comparable credit system) for each of them	
Estimated date of accreditation and accreditation body	
% of the modernised subjects compared to total subjects included in the course	
Number of students to be accepted in the first year/ second year	
Number of teaching staff to be trained	
Internship /placements (if applicable)	
List of equipment to be purchased for this course? (if applicable)	

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

Provide information on (if applicable)

List the number of existing centres/networks in your HEI	
Is the centre to be created a new one or an update?	
If new, why is a new centre necessary? If updated, why is an updated centre necessary?	
Where will the centre be located in the institution?	
Will this infrastructure be made available to the centre after the project ends?	
How many people will be employed in the centre?	
Will the institution fund these posts after the project ends?	
How many administrative staff will be trained?	
Which procedures will be updated /introduced in the institution?	

F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment *(only for Partner Country institutions)* *Please fill in if you are applying for this type of project and define clear the activities to be held in your institution* (limit 2000 characters)

F.3.6 – Expected results and impact *(only for Partner Country institutions)*

What are the expected tangible results from the project in your HEI?	
How will the impact of these results be measured in your HEI?	
What financial means and human and other resources will be provided to sustain these results after the project ends?	

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project

Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Luca Di Palma	Coordinator of the project. He is professor of Materials Science and Technology and Wastewater treatment processes at the Faculty of Civil and Industrial Engineering. He was the coordinator of the Tempus project Econano and several programmes funded by National or International Agencies. He is the author of more than 180 scientific papers, and the member of Organizing and Scientific Committee of International conferences. He is the reviewer for several international journal and member of the editorial board of two international journal. Selected publication list: Vilardi, G., Sebastiani, D., Miliziano, S., Verdone, N., Di Palma, L. (2018) Heterogeneous nZVI-induced Fenton oxidation process to enhance biodegradability of excavation by-products, Chemical Engineering Journal, 335, pp. 309-320, doi: 10.1016/j.cej.2017.10.152. Di Palma, L., Bavasso, I., Sarasini, F., Tirillò, J., Puglia, D., Dominici, F., Torre, L., Galluzzi, A., Polichetti, M., Ramazanov, M.A., Hajiyeva, F.V., Shirinova, H.A. (2018) Effect of nano-magnetite particle content on mechanical, thermal and magnetic properties of polypropylene composites, Polymer Composite, 39, S3, E1742-E1750. Giorgio Vilardi, Luca Di Palma, Nicola Verdone (2018) On the critical use of zero valent iron nanoparticles and Fenton processes for the treatment of tannery wastewater, Journal of Water Process

	Engineering, 22, 109-122. Giorgio Vilardi, Thanasis Mpouras, Dimitris Dermatas, Nicola Verdone, Angeliki Polydera, Luca Di Palma (2018) Nanomaterials application for heavy metals recovery from polluted water: the combination of nano zero-valent iron and carbon nanotubes. Competitive adsorption non-linear modeling, Chemosphere, 201, 716-729. I. Bavasso, D. Montanaro, E. Petrucci, L. Di Palma (2018) Shortcut Biological Nitrogen Removal (SBNR) in an MFC anode chamber under microaerobic conditions: The effect of C/N ratio and kinetic study, Sustainability, 10, 4, 1062, 10.3390/su10041062.
Marco Stoller	Assistant professor from year 2012, senior from year 2016. Docent of "Production and Equipment of micro- and nanoparticles" (Nanotechnology Engineering) and "Combustion and Treatment plants of effluents" (Civil and Industrial Engineering). Research focuses on membrane technology (membrane fouling) and nanotechnologies (production of nanoparticles by means of process intensified chemical precipitation processes) and is reported in 87 papers on international peer-reviewed scientific journals, 2 book chapters, 1 book. Participation at 13 EU, international and national funded research projects (2 as PI). Member of the council of the European Membrane Society (EMS) and Italian Chemical Engineering association (AIDIC), as well of the EFCE section in membrane engineering. Co-chair of the organizing committee of the NINE congress (International Conference on Nanotechnology based Innovative Applications for the Environment). Reviewer for many international journals, such as Journal of Membrane Science, Desalination, Journal of Hazardous Materials among others. Selected publication list (max 5): 1. Stoller, M., Sacco, O., Vilardi, G., Pulido, J.M.O., Di Palma, L., "Technical–economic evaluation of chromium recovery from tannery wastewater streams by means of membrane processes", 2018, Desalination and Water Treatment 127, pp. 57-63 2. Ochando-Pulido, J.M., Stoller, M., Martinez-Ferez, A., "Boundary flux modelling for purification optimization of differently-pretreated agro-industrial wastewater with nanofiltration", 2018, Separation and Purification Technology 193, pp. 147-154 3. Stoller, M., Ochando-Pulido, J.M., Field, R., "On operating a nanofiltration membrane for olive millwastewater purification at sub- and super-boundary conditions", 2017, Membranes 7(3), 36 open access 4. Stoller, M., Serrão Mendes, R.,"Advanced control system for membrane processes based on the boundary flux model", 2017, Separation and Purification Technology 175, pp. 527-535 5. Lu, H., Wang, J., Stoller, M., Bao, Y., Hao, H., "An Overview of Nanomaterials for Water and Wastewater Treatment", 2016, Advances in Materials Science and Engineering 4964828 open access
Agostina Chiavola	Associate Professor in Environmental Engineering at Sapienza University of Rome. Member of the Ph.D. board in Hydraulic and Environmental Engineering at Sapienza University of Rome. Scientific

	Responsible of “Laboratorio Dema.Lab” of the CRITEVAT research center of Sapienza University of Rome. Teacher of “Design of Water and Wastewater Treatment Plants” and “Fundamentals of Environmental Engineering” at Sapienza University of Rome. The scientific activity is documented by 121 papers, among which 41 published in peer-reviewed scientific international journals, and of several book chapters. 1. A. Chiavola, E. D’Amato, M. Stoller, A. Chianese, M. R. Boni (2016) Application of Iron Based Nanoparticles as Adsorbents for Arsenic Removal from Water. Chemical Engineering Transactions, 47, 325-330. ISBN 978-88-95608-38-9; ISSN 2283-9216. 2. A. Chiavola, V. K. Tchieda, E. D’Amato, A. Chianese, A. Kanaev (2016) Synthesis and Characterization of Nanometric Titania Coated on Granular Alumina for Arsenic Removal. Chemical Engineering Transactions, 47, 331-336. ISBN 978-88-95608-38-9; ISSN 2283-9216. 3. V. K. Tchieda, E. D’Amato, A. Chiavola, M. Parisi, A. Chianese, M. Amamra, A. Kanaev (2016) Removal of arsenic by alumina: effects of material size, additives and water contaminants. CLEAN- Soil Air, Water, 43 (9999), 1-10. Online ISSN: 1863-0669. 2016 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. DOI: 10.1002/clen.201400599. 4. A. Chiavola, E. D’Amato, R. Gavasci, P. Sirini (2015) Arsenic Removal from Groundwater by Ion Exchange and Adsorption Processes: Comparison of Different Materials. Water Science and Technology: Water Supply, 15(5), 981-989, ISSN: 1606-9749, DOI:10.2166/ws.2015.054. 5. A. Chiavola, R. Baciocchi, E. D’Amato (2014), Application of a Two-Site Ideal Model for the Prediction of As-SO_4-Cl Ion Exchange Equilibria. Water Air & Soil Pollution, 225(1), 1810-1823, Springer Netherlands, ISSN: 0049-6979, DOI: 10.1007/s11270-013-1810-z.
Giorgio Vilardi	Post-Doc researcher, PhD in Chemical Engineering with a thesis named "Process Intensification: nZVI production and environmental applications". His research fields are the production of metallic and oxide nanoparticles by means of intensified processes (mainly chemical precipitation) and equipment, such as spinning disk reactor, the production of nano-coating for packing materials to be used in fixed bed reactors for the treatment of heavy metals/organic polluted wastewaters, the mathematical and fluid dynamic modelling of stirred tank, spinning disk and fixed bed reactors, the treatment of polluted soils and, in general, the development of separation processes based on intensified mass transfer phenomena. He is author of more than 30 published papers on international peer-review journals and 2 book chapters. Participation at 1 EU project, 3 national project (1 as PI) and at 10 international conferences (1 as chairman). He is president of the Young Italian Chemical Engineering Association and he is co-author of an industrial Patent (Italian Patent). He is reviewer for several international journals, such as Chemical Engineering Journal, Journal of Cleaner Production and Journal of Hazardous Materials. Selected publication list:

	1. Vilardi, G. Mathematical modelling of simultaneous nitrate and dissolved oxygen reduction by Cu-nZVI using a bi-component shrinking core model (2019) Powder Technology, 343, pp. 613-618. 2. Vilardi, G., Rodriguez-Rodriguez, J., Miguel Ochando-Pulido, J., Di Palma, L., Verdone, N. Fixed-bed reactor scale-up and modelling for Cr(VI) removal using nano iron-based coated biomass as packing material (2019) Chemical Engineering Journal, 361, pp. 990-998. 3. Vilardi, G., Ochando-Pulido, J.M., Stoller, M., Verdone, N., Di Palma, L. Fenton oxidation and chromium recovery from tannery wastewater by means of iron-based coated biomass as heterogeneous catalyst in fixed-bed columns (2018) Chemical Engineering Journal, 351, pp. 1-11. 4. Vilardi, G., Ochando-Pulido, J.M., Verdone, N., Stoller, M., Di Palma, L. On the removal of hexavalent chromium by olive stones coated by iron-based nanoparticles: Equilibrium study and chromium recovery (2018) Journal of Cleaner Production, 190, pp. 200-210. 5. Vilardi, G., Sebastiani, D., Miliziano, S., Verdone, N., Di Palma, L. Heterogeneous nZVI-induced Fenton oxidation process to enhance biodegradability of excavation by-products (2018) Chemical Engineering Journal, 335, pp. 309-320.
Irene Bavasso	Post-doc researcher in Chemical Engineering at Sapienza University of Rome, Department of Chemical Materials Environment Engineering. Research focuses on wastewater treatment, energy production and nanotechnologies especially production of nanoparticles and nanocomposites. Reviewer for many international journals and Society of Environmental Toxicology and Chemistry member. Selected publication list (max 5): Di Palma, L., Bavasso, I., Sarasini, F., Tirillò, J., Puglia, D., Dominici, F., Torre, L., Galluzzi, A., Polichetti, M., Ramazanov, M.A., Hajiyeva, F.V., Shirinova, H.A. Effect of nano-magnetite particle content on mechanical, thermal and magnetic properties of polypropylene composites (2018) Polymer Composites, 39, pp. E1742-E1750. Di Palma, L., Bavasso, I., Sarasini, F., Tirillò, J., Puglia, D., Dominici, F., Torre, L. Synthesis, characterization and performance evaluation of Fe3O4/PES nano composite membranes for microbial fuel cell (2018) European Polymer Journal, 99, pp. 222-229. Bavasso, I., Verdone, N., Di Palma, L. Cr(VI) removal by green-synthetized iron-based nanoparticles: Effect of Cr(VI) concentration and pH condition on adsorption process (2018) Chemical Engineering Transactions, 70, pp. 469-474. Bavasso, I., Vilardi, G., Stoller, M., Chianese, A., Di Palma, L. Perspectives in nanotechnology based innovative applications for the environment (2016) Chemical Engineering Transactions, 47, pp. 55-60. Gueye, M.T., Di Palma, L., Allahverdeyeva, G., Bavasso, I., Petrucci, E., Stoller, M., Vilardi, G.The influence of heavy metals and organic matter on hexavalent chromium reduction by nano zero valent iron in soil (2016) Chemical Engineering Transactions, 47, pp. 289-294.
Ilaria Cagnizi	Administrative staff. Responsible of teaching activities for the Department Chemical Engineering Environment Materials (DICMA)

	since 2014. Manager of training activities through the GOMP and INFOSTUD portals. She assists the students in their career practices and responsible of website content about courses at DICMA.
Alessandro Serrani	Technician. Informatic and web manager at DICMA. Responsible of dissemination activities and publishing. Technical assistance to meetings and didactic activities. Participant to several national and EU funded projects for managing of website and digital platform, as well as translation activities.

Partner number		**P2**
Organisation name & acronym	Aalborg University (AAU)	

D.1.1 - Aims and activities of the organisation

Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

The Aalborg University (AAU), renowned for its problem based learning recognised by UNESCO, is divided in 3 campuses (Aalborg, Esbjerg and Copenhagen) and offers education and research within the fields of natural sciences, social sciences, humanities, technical and health science. AAU awards Bachelors, Master's, and Ph.D degrees within the different programs with more than 19.000 students (13% international) enrolled. Moreover, it was *rated for excellence* in the QS-ranking system and ranked the 4th best in the world within engineering programs (and number 1 in Europe) in the MIT 2018 report as well as the US News World Ranking.

The Section for Sustainable Biotechnology is one of the five sections of the Department of Chemistry and Bioscience of AAU. The research focuses on the development of *Biorefineries* for the valorization of waste streams by means microbial and enzymatic processes, including production of feed and food ingredients, 2nd generation bioenergy technologies and green chemicals. Besides, mixed microbial culture technologies are under development for the degradation of plastics (PE, PET, etc.) and the bioremediation of pesticides and herbicide contaminated soils.

The Section of Chemical Engineering (SCE) is located in Esbjerg, which is a key city for offshore oil and gas (O&G) activities in Denmark. SCE has a strong collaborations with industrial partners within O&G (e.g. Total, Shell, Rambøll). Particular focus is devoted to the optimization of the use of production chemicals to reduce operating costs for the operators while decreasing the environmental footprint of O&G production. SCE is responsible for education in Chemcial Engineering (BSc and MSc), as well as for the *Master Programme in Oil and Gas Technology*.

Center for Microbial communities: the Environmental Biotechnology (EB) Group at Aalborg University is part of Center for Microbial Communities. Important topics include biological wastewater treatment, odour removal in biofilters, biofilm structure and function (biofouling, medical biofilms, exopolymers and adhesion), biodegradation of environmental pollutants, etc. There is an extensive collaboration with the groups involved in genomics, transcriptomics, proteomics and metabolomics in the Section of Biotechnology.

Please describe also the role of your organisation in the project (limit 1000 characters).

AAU will contribute to the project by hosting 2 teachers from Azerbaijan for 1 month, during which they will visit the facilities of AAU, follow research activities and experience our teaching method. AAU will furthermore host 3 students for 3 months. The students will be incorporated in on-going research projects and will thereby obtain new insight of innovative techniques related to numerous topics, such as oil/gas technology, bioremediation, biorefineries, etc. In addition, AAU will organize a workshop for the didactic board, in order to introduce our Aalborg-PBL teaching and educational model. Last but not least, AAU will also be in charge of 1 teaching module on Bioremediation of contaminated sites. Possible topics can involve (but are not limited to): Bioremediation of contaminated soils, Biodegradation of plastics and pesticides, impact of biofilms on human activities, Biorefineries, Effect of Microbial interactions in the degradation of recalcitrant/toxic compounds, Monitoring degradation of oil spills in soils, etc.

D.1.2 - Operational capacity: Skills and expertise of key staff involved in the project
Please add lines as necessary.

Name of staff member	*Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.*
Cristiano Varrone	Cristiano Varrone is associate professor in Fermentation Technology with 14 years of expertise in bioprocess technology and applied microbial ecology of both, artificial and natural ecosystems, with key competences in: Biorefineries, fermentation technology, Eco-engineering of Mixed Microbial Cultures, Second Generation Biofuels and Green Chemicals, production of bioplastics, bioremediation and biodegradation of plastics and pesticides, Statistical optimization of process parameters. 5 selected publications: Combined polyhydroxyalkanoates (PHA) and 1,3-propanediol production from crude glycerol: Selective conversion of volatile fatty acids into PHA by mixed microbial consortia. Burniol-Figols, Anna; Varrone, Cristiano; Le, Simone Balzer; Daugaard, Anders Egede; Skiadas, Ioannis V.; Gavala, Hariklia N. In: Water Research, Vol. 136, 01.06.2018, p. 180-191. Effect of hydraulic retention time on the modelling and optimization of joint 1,3 PDO and BuA production from 2G glycerol in a chemostat process. Varrone, Cristiano; Skiadas, Ioannis; Gavala, Hariklia N. In: Chemical Engineering Journal, Vol. 347, 12.04.2018, p. 525-534. Efficient biorefinery of waste activated sludge and vinegar residue into volatile fatty acids: Effect of feedstock conditioning on performance and microbiology. Zhou, Aijuan; Liu, Zhihong; Varrone, Cristiano; Luan, Yunbo; Liu, Wenzong; Wang, Aijie; Yue, Xiuping. In: Environmental Science: Water Research and Technology, Vol. 4, 08.06.2018. Metagenomic-based analysis of biofilm communities for electrohydrogenesis: From wastewater to hydrogen. Varrone, Cristiano; Van Nostrand, Joy D.; Liu, Wenzong; Zhou, Benjamin; Wang, Zhongshi; Liu, Fenghai; He, Zhili; Wu, Liyou; Zhou, Jizhong; Wang, Aijie. In: International Journal of Hydrogen Energy, Vol. 39, No. 9,

	18.03.2014, p. 4222-4233. Microbial network for waste activated sludge cascade utilization in an integrated system of microbial electrolysis and anaerobic fermentation. / Liu, Wenzong; He, Zhangwei; Yang, Chunxue; Zhou, Aijuan; Guo, Zechong; Liang, Bin; Varrone, Cristiano; Wang, Ai Jie.Biotechnology for Biofuels, Vol. 9, No. 1, 83, 02.04.2016. Microbial degradation of plastics: new plastic degraders, mixed cultures and engineering strategies (Chapter 12). Samantha Jenkins, Alba Martinez, Cesar Fonseca, Cristiano Varrone. IN: Soil microenvironment for bioremediation and polymer production. Wiley Online Book. (invited author). Submitted.
Jens Muff	Jens Muff is associate professor and Section Leader of SCE. He has expertise in Water treatment - complex industrial wastewater, process water, drinking water, produced water from offshore oil recovery, Remediation of contaminated sediment, soil and groundwater, Water reuse, Degradation of micro pollutants (pesticides, pharmaceutical residues etc.). 5 selected publications: N.L. Pedersen, M.N. Fini, P.K. Molnar, J. Muff, Synergy of combined adsorption and electrochemical degradation of aqueous organics by granular activated carbon particulate electrodes, Separation and Purification Technology 208 (2019) 51-58. A. Asamoah, D.K. Essumang, J. Muff, S. Kucheryavskiy, E.G. Søgaard, Science of the Total Environment 612 (2018) 1473-1479. I.A. Jimoh, E.G. Søgaard, J. Muff, M.Y. Kano, Elemental compositional zoning using reservoir formation water samples for oilfield applications, Society of Petroleum Engineers Annual technical Conference and Exhibition SPE-187088-MS, 2018. H.T. Madsen, S.S. Nissen, J. Muff, E.G. Søgaard, Pressure retarded osmosis from hypersaline solutions: Investigating commercial FO membranes at high pressures, Desalination 420 (2017) 183-190. J. Muff, M.E. Simonsen, E.G. Søgaard, Removal of tributyltin from contaminated seawater by combinations of photolytic and TiO2 mediated photocatalytic processes, Journal of Environmental Chemical Engineering 5 (2017) 3201-3206.
Marco Maschietti	Marco Maschietti is associate professor at SCE with an extended expertise in the fields of Hydrothermal liquefaction of biomass, upgrading of biocrudes using supercritical carbon dioxide, phase equilibrium thermodynamics, offshore oil/water separation in the presence of production chemicals, process analysis and optimization of offshore separation train, H_2S scavenging in offshore oil and gas. 5 selected publications: K. Arturi, S. Kucheryavskiy, R.P. Nielsen, M. Maschietti, F. Vogel, S. Bjelić, E.G. Søgaard, Molecular footprint of co-solvents in hydrothermal liquefaction (HTL) of Fallopia Japonica, Journal of Supercritical Fluids 143 (2019) 211-222.

	N. Montesantos, M. Chirullo, M. Maschietti, Liquid-liquid equilibrium of water + 2-methoxyphenol + methyl isobutyl ketone and water + 1,2-benzenediol + methyl isobutyl ketone at 303.15 and 328.15 K, Journal of Chemical and Engineering Data 63 (2018) 712-722. N. Montesantos, M. Maschietti, Preliminary evaluation of the impact of modified injection water composition on the oil/water separation in produced water treatment facilities, Chemical Engineering Transactions 57 (2017) 559-564. K.R. Arturi, M. Strandgaard, R.P. Nielsen, E.G. Søgaard, M. Maschietti, Hydrothermal liquefaction of lignin in near-critical water in a new batch reactor: influence of phenol and temperature, The Journal of Supercritical Fluids 123 (2017) 28-39. R.P. Nielsen, R. Valsecchi, M. Strandgaard, M. Maschietti, Experimental study on fluid phase equilibria of hydroxyl-terminated perfluoropolyether oligomers and supercritical carbon dioxide, The Journal of Supercritical Fluids 101 (2015) 124-130.
Jeppe Lund Nielsen	Jeppe Lund Nielsen is professor in Microbial Biotechnology and holds 22 years of expertise in microbial ecology in engineered and natural ecosystems, covering key competences in: Molecular identification and characterization using culture-independent techniques, microbial resource management, adhesion of bacteria to surfaces (biofilms), biological treatment of (waste)water, drinking water and air, aquaculture, production of bioenergy (biogas), degradation of micropollutants and microplastics, single cell microbiology, development of new methods in microbial ecology (-omics methods, single cell techniques on in house state-of-the-art technological platforms). Most of this work is accomplished through analysing large datasets from complex microbial ecosystems, and has been published in more than 135 peer reviewed publications and 12 book chapters. H-index 43 (Web of Science) and 53 (Google Scholar). Selected publication: Evaluation of a membrane bioreactor system as post-treatment in waste water treatment for better removal of micropollutants. (2017) Arriaga, S., de Jonge, N., Nielsen, M.L., Andersen, H.R., Borregaard, V., Jewell, K., Ternes, T.A., Nielsen, J.L., Water Research, Vol. 107 p. 37-46. Bioremediation strategies for removal of residual atrazine in the boreal groundwater zone. (2015). Nousiainen, A.O., Björklöf, K., Sagarkar, S., Nielsen, J.L., Kapley, A., Jørgensen, K.S., Applied Microbiology and Biotechnology, Vol. 99 (No. 23) p. 10249-10259. Degradation of PPCPs in activated sludge from different WWTPs in Denmark. (2015). Chen, X., Vollertsen, J., Nielsen, J.L., Dall, A.G., Bester, K. Ecotoxicology, Vol. 24 (No. 10) p. 2073-2080. Survival and activity of individual bioaugmentation strains. / Dueholm, M.S., Marquesa, G.I., Karst, S.M., D'Imperiob, S., Tale, V.P., Lewis, D., Nielsen, Per Halkjær; Nielsen, Jeppe Lund, Bioresource Technology, Vol. 186 p. 192-199.

	Complete Genome Sequences of Pseudomonas monteilii SB3078 and SB3101, Two Benzene-, Toluene-, and Ethylbenzene-Degrading Bacteria Used for Bioaugmentation (2014). Dueholm, M.S., Albertsen, M., D'Imperio, S., Tale, V.P., Lewis, D., Nielsen, P.H., Nielsen, J.L., Genome Announcements, Vol. 2 (No. 3) 00524-14.

Partner number		**P3**
Organisation name & acronym	University of Granada - UGR	

F.3.1 - Aims and activities of the organisation

Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

The UGR, founded in 1531, is one of the largest and most important universities in Spain. It serves more than 60000 students per year, including many foreign students, as UGR is the leader host institution in the Erasmus program.

UGR is also a leading institution in research, located in the top 4/10 of Spanish universities by a variety of ranking criteria. UGR is one of the few Spanish Universities listed in the Shanghai Top 500 ranking, in which its Engineering/Technology is positioned at the top of the 50 best universities of the world. UGR publishes annually more than 2,500 publications, with a percentage higher than 50 % in the first quartile. Internationally, we bet decidedly by our participation in the calls of the Framework Programme of the European Union. For the duration of the Seventh Framework Programme, the UGR has obtained a total of 66 projects, with total funding of 17.97 million euros, and for H2020, 41 projects with total funding of 11.33 million euros.

We also have more than 1,100 researchers and technicians engaged in various forms of predoctoral staff, postdoctoral contracts, researchers and contractors, representing over 30% more of our teaching staff. UGR is involved in a wide range of international networks thanks to the long list of co-operation partners it has throughout the world such as the International Association of Universities, the European University Association, the Coimbra Group of Universities, which includes over 40 of Europe's most prestigious universities and the South-American University Association for Postgraduate Studies, which is a UNESCO-recognised non-governmental international organization. At the UGR, internationalization is a political priority. In recognition of its continuing work in the promotion of European mobility since 1987, the UGR was awarded the Erasmus Programme's Gold Star in 2007. Currently, it receives more students on this Programme (about 2,000 per year) than any other European university and it is one of the European universities that sends the most students to other institutions (about 1,650 per year). The UGR also takes part in other mobility initiatives such as the Organisation of Ibero-American States' PIMA, the European Commission's Erasmus Mundus and UNESCO's PEACE programme, as well as programmes organised by the Coimbra Group of Universities.

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	
Number of students	
Number of Bachelor degrees offered	
Number of Master degrees offered	
Number of PhD degrees offered	
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	

F.3.2 – Role of your organisation in the project

Please describe also the role of your organisation in the project (limit 1000 characters).

The UGR will participate in this project through a series of teaching staff members with extensive experience in soil and water bioremediation belonging to the Institute of Water Research (IdeA). In addition, it will provide all its academic and research facilities available in this Research Institute. Specifically, the activities in which the UGR team will be involved during the development of this project are:

1. Azerbaijanian teacher training in the Water Research Institute (2 teachers for one month hosted at our Institution).
2. Teaching in Azerbaijan (2 teachers of the UGR for 2 weeks).
3. Student training at the Water Research Institute (3 students for three months our Institution, UGR).
4. Participation of members of the Water Research Institute to meetings in Azerbaijan and in EU according to the work program.

F.3.3 – Curriculum development project *(only for Partner Country institutions)*

Please fill in if you are applying for a curriculum development project

Please confirm that no similar curricula/ courses/modules were developed/modernised in Tempus IV projects in this HEI.	Choose an item.

For new courses

What new courses will the project implement in your HEI?	

For each course please fill the following nested table:

Title	
Level of study	
List of subjects and credits (ECTS or comparable credit system) for each of	

them	
Estimated date of accreditation and accreditation body	
Estimated starting date of the new programme	
Number of students to be accepted in the first year/ second year	
Number of teaching staff to be trained	
Internship /placements (if applicable)	
List of equipment to be purchased for this course? (if applicable)	

For updated courses

Which existing courses will be updated in your HEI?	

For each course please fill the following nested table:

Title	
Level of study	
List of subjects and credits (ECTS or comparable credit system) for each of them	
Estimated date of accreditation and accreditation body	
% of the modernised subjects compared to total subjects included in the course	
Number of students to be accepted in the first year/ second year	
Number of teaching staff to be trained	
Internship /placements (if applicable)	
List of equipment to be purchased for this course? (if applicable)	

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

Provide information on (if applicable)	
List the number of existing centres/networks in your HEI	
Is the centre to be created a new one or an update?	
If new, why is a new centre necessary? If updated, why is an updated centre necessary?	
Where will the centre be located in the institution?	
Will this infrastructure be made available to the centre after the project ends?	
How many people will be employed in the centre?	
Will the institution fund these posts after the project ends?	
How many administrative staff will be trained?	
Which procedures will be updated /introduced in the institution?	

F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

F.3.6 – Expected results and impact *(only for Partner Country institutions)*

What are the expected tangible results from the project in your HEI?	
How will the impact of these results be measured in your HEI?	
What financial means and human and other resources will be provided to sustain these results after the project ends?	

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project

Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Jesus Gonzalez-Lopez	Head of the Environmental Microbiology and Engineering Research Group of the University of Granada, which has an extensive experience in applied research in water technology and environmental research. He has 375 publications and an h-index of

	44. He also has 12 patents and has extensively worked in the industry sector as consultant for firms such as Veolia, SACYR and Repsol-YPF, among others. He has supervised over 50 Ph.D. students and numerous post-docs. He has participated in several EU projects (11 framework programmes, 3 training networks, 1 cost actions, and receiving 1 Marie Curie grant holders, an ASEAN-EU environmental biotechnology network program). 1. Tatiana Robledo Mahón; ELIZABET ARANDA BALLESTEROS; Chiara Pesciaroli; Alfonso Rodríguez Calvo;Gloria Andrea Silva Castro; JESÚS GONZÁLEZ LÓPEZ; CONCEPCIÓN CALVO SAINZ. Effect of semi-permeable cover system on the bacterial diversity during sewage sludge composting. Journal of Environmental Management. 215, pp. 57 - 67. 2018. 2. Camacho, Lucero R; Cristina Garcia Fontana; Fernández-irigoyen, Joaquín; Santamaría, Enrique; JESÚS GONZÁLEZ LÓPEZ; MAXIMINO MANZANERA RUIZ; ELIZABET ARANDA BALLESTEROS. Anthracene drives sub-cellular proteome-wide alterations in the degradative system of Penicillium oxalicum. Ecotoxicology and Environmental Safety. 159, pp. 127 - 135. 2018. 3. Maria Jesus Garcia Ruiz; JESÚS GONZÁLEZ LÓPEZ; Francisco Osorio Robles. Effects of salinity on the nitrogen removal efficiency and bacterial community structure in fixed-bed biofilm CANON bioreactors.Chemical Engineering Journal. 347, pp. 156 - 164. 2018. 4. Paula Maza Marques; Ramiro Vilchez; ALEJANDRO GONZÁLEZ MARTÍNEZ; JESÚS GONZÁLEZ LÓPEZ; Maria Belen Rodelas Gonzalez. Assessing the abundance of fungal populations in a full-scale membrane bioreactor (MBR) treating urban wastewater by using quantitativePCR (qPCR). Journal of Environmental Management. 223, pp. 1 - 8. 2018. 5. ALEJANDRO GONZÁLEZ MARTÍNEZ; Bárbara Muñoz Palazón; Paula Maza Marques; Alejandro Rodríguez Sánchez; JESÚS GONZÁLEZ LÓPEZ; Vahala, Riku. Performance and microbial community structure of a polar Arctic Circle aerobic granular sludge system operating at low temperature. Bioresource Technology. 256, pp. 22 -29. 2018.
Concepción Calvo	Professor of Microbiology at the Faculty of Pharmacy of the University of Granada (UGR), where she is member of RNM-270 research group (Environmental Microbiology), and member of the Institute of Water Research of the University of Granada (Spain). She has a Bachelor in

	Pharmacy (UGR 1977) and PhD in Pharmacy (UGR 1982). She has a postdoctoral stay in the Microbial Ecology Laboratory at the Institute Pasteur, Paris from March 1980 to October 1982. Her main research expertise is in the field of bioremediation of hydrocarbon polluted sites, the production and characterization of biosurfactant, the study of biostimulation and bioaugmentation treatments or the studies of the viability of bioremediation of contaminated soils and water. Author and co-author of over 60 scientific publications including 51 original papers and 9 review articles or book chapters, in international journals with referee practice. She has been involved in more than 30 public/private R+D+i and transfer of technology projects, European Union, Spanish Ministry of Education and Research, Autonomous Government of Andalusia and 15 projects from private companies (Repsol, CLH, Hera Ambiental, DMC Research, IEP Europe,). 1. Rodríguez-Calvo, A; Silva-Castro, GA; Robledo-mahón, T; González-López, J; Calvo, C. 2018. Capacity of hydrophobic carriers to form biofilm for removing hydrocarbons from polluted industrial wastewater Assay in microcosms. Water, Air, and Soil Pollution. 229: 175. 2. Robledo-Mahon T. Aranda E, Pesciaroli C, Rodríguez-Calvo A, Silva-Castro, GA, González-López J, Calvo, C. 2018. Effect of semi-permeable cover system on the bacterial diversity during sewage sludge composting. Journal of Environmental Management. 215:57-67. 3. Rodríguez Calvo A, Silva-Castro GA, Uad I, Robledo Mahón T; Menéndez, M; González-López J; Calvo C. 2017. A comparative study of adhesion by bacterial isolates of marine origin. International Biodeterioration & Biodegradation. 123, 97-85. 4. Silva-Castro GA, Rodríguez-Calvo A, Laguna J, González-López J, Calvo C. 2016. Autochthonous microbial responses and hydrocarbons degradation in polluted soil during biostimulating treatments under different soil moisture. Assay in pilot plant. International Biodeterioration & Biodegradation. 108, 91-98. 5. Silva-Castro, GA; Uad I, Rodríguez-Calvo A, González-López J, Calvo C. 2015. Response of autochthonous microbiota of diesel polluted soils to land-farming treatments. Environmental Research.137: 49-58.
Clementina Pozo Llorente	Professor ascribed to the Department of Microbiology of the University of Granada (UGR). He teaches at the Environmental Sciences and Biology Degrees, as well as in three Official Postgraduate

	Masters of the UGR. She is co-author in 58 original research papers published in international journals indexed at JCR. During her research career, she has participated, with different degrees of dedication, in 18 national and international research projects, being principal investigator in 4 of them. Her research work has been focused, within the scope of "Environmental Microbiology", in the microbial production of polyesters (polyhydroxyalkanoates, PHAs) from renewable substrates as well as in the bioremediation of contaminated environments (soils and waters) with various xenobiotic and emerging polluting substances, including anionic detergents (linear alkyl benzene sulfonates, LAS), drugs and fuel oxygenates (MTBE, ETBE and TAME). In these last aspects, he has lead 3 research projects which have led three Doctoral Thesis. Recent research papers 1. Jessica Purswani; Isabel M. Guisado; Julio Coello-Cabezas; Jesús González-López and Clementina Pozo. Social microbial inocula confer functional stability in a methyl tert-butyl ether extractive membrane biofilm bioreactor. DOI: 10.1016/j.envpol.2018.10.100. Environmental Pollution (2019). 244: 855-860 2. Alejandro González-Martínez; su Chengyuan; Alejandro Rodríguez-Sánchez; Clementina Pozo; Jesús González-López and Riku Vahala. Application of microbial fuel cell technology for wastewater treatment and electricity generation under Nordic countries climate conditions: study of performance and microbial communities. DOI: 10.1016/j.biortech.2018.09.014. Bioresource Technology (2018) 270: 1-10. 3.Gallardo-Altamirano, M.J. Maza-Márquez, P., Peña-Herrera, J.M., Rodelas, B., Osorio, F. and Pozo, C. Removal of anti-inflammatory/analgesic pharmaceuticals from urban wastewater in a pilot-scale A2O system: Linking performance and microbial population dynamics to operating variables. DOI: 10.1016/j.scitotenv.2018.06.284. Science of the Total Environment (2018) 643: 1481-1492. 4.Guisado, IM, Purswani, J., González-López, J. and Pozo, C. An extractive membrane biofilm reactor as alternative technology for the treatment of methyl tert-butyl ether contaminated water. DOI:10.1002/btpr.2311. Biotechnology Progress (2016) 33(5): 1238-1245. 5. Guisado, IM, Purswani, J., González-López, J. and Pozo, C., Physiological and genetic screening methods for the isolation of methyl tert-butyl ether-degrading bacteria for bioremediation purposes. DOI: 10.1016/j.ibiod.2014.11.008. International Biodeterioration and Biodegradation (2015) 97(1): 67-74.
Maximino Manzanera	He began his doctoral studies in 1995, after graduating in Biology from the University of Granada. During his doctoral thesis under the supervision of Dr. Juan Luis Ramos and Dr. Silvia Marqués in the Estación Experimental del Zaidín as part of the Spanish High Scientific Research Council (CSIC). With this thesis he studied the

	bioremediation of aromatic hydrocarbons such as toluene, xylene, benzene, ethylbenzene and its derivatives. In 2000 he started his postdoctoral studies at the University of Cambridge at the Institute of Biotechnology, Dept. of Genetics, Dept. of Chemistry and at the Cambridge Institute for Medical Research (CIMR) until 2005. His return to Spain this year, with a Ramón y Cajal fellowship, allowed him to start his research at the Institute of Water (University of Granada) focussing on the tolerance drought and the protection against drought of plants for the rhizoremediation of drought subjected areas. He also studied the removal of soil pollutants, as well as in obtaining alternative fuels from microorganisms. In 2011 he was assigned to the Department of Microbiology of the Faculty of Pharmacy as Assistant Professor of the University where he teaches in Microbiology, Biotechnology, and Food Science and Technology. During this period he has directed 6 doctoral theses (one by the University of Cambridge and 5 by the University of Granada), and 12 master's degree projects. He has participated in 25 research projects. Thirty-eight research papers and 44 articles have been published in indexed journals, of which 18 are in the first quartile. Godoy P, Mourenza A, Hernandez-Romero S, González-López J, Manzanera M. (2018) Microbial Production of Ethanol from Sludge Derived from an Urban Wastewater Treatment Plant. Frontiers in Microbiology. 2. Camacho-Morales RL, García-Fontana C, Fernández-Irigoyen J, Santamaría E, González-López J, Manzanera M, Aranda E. (2018) Anthracene drives sub-cellular proteome-wide alterations in the degradative system of Penicillium oxalicum. Ecotoxicology and Environmental Safety 3. Vilchez S. and Manzanera M. (2011) Biotechnological uses of desiccation tolerant microorganisms for the rhizoremediation of soils subjected to seasonal drought. Applied Microbiology and Biotechnology 91:1297-1304 4. Juárez MB., Manzanera M., Rodelas B., Martínez-Toledo MV., Gonzalez-López J., Crognalea S., Pesciarolia C., Fenicea M. (2010) Metabolic characterization of a strain (BM90) of Delftia tsuruhatensis showing highly diversified capacity to degrade low molecular weight phenols. Biodegradation (2010). 21:475-489. 5. Calvo C., Manzanera M., Silva-Castro AG., Uad I., González-López J. (2009) Application of bioemulsifiers in soil oil bioremediation processes. Future prospects. Sci Total Environ (2009). 12:297-299.
Dr. A. Gonzalez-Martinez	Assistant professor in the department of Microbiology in the University of Granada. Among the researcher's scientific achievements, it is worth mentioning that he has 62 peer-reviewed

	publications in high impact journals in collaboration with renowned international researchers. In this way, the applicant citation count has been >820 citations, leading to an H-index of 17, i-10-index of 31 and 2.17 in the Category-normalized citation impact (CNCI) index. Moreover, he has also participated in 21 research projects with a total budget of >7.5M of € and he disseminated his knowledge and the results of his research activities in 24 works submitted to national or international conferences. **1.** Gonzalez-Martinez A, Sihvonen M, Muñoz-Palazon M, Rodriguez-Sanchez A, Mikola A, Vahala R,.(2018) Microbial ecology of full-scale wastewater treatment systems in the Polar Arctic Circle: Archaea, Bacteria and Fungi. Scientific Reports. 8(1): 2208, (NATURE PUBLISHING GROUP). Índice impacto: 4.112; Cuartil: 1 **2.** González Martinez A, Chengyuan S, Rodriguez-Sanchez A, Pozo-Llorente C, Gonzalez-Lopez J, Vahala R,(2018) Application of microbial fuel cell technology for wastewater treatment and electricity generation under Nordic countries climate conditions: Study of performance and microbial communities. Biores technol. 103, 87-94.Índice impacto: 5.807: Cuartil=1 **3.** Gonzalez-Martinez A, Margareto A, Rodriguez-Sanchez A, Pesciaroli C, Diaz-Cruz S, Barcelo D, Vahala R(2018). Linking the effect of antibiotics on partial-nitritation biofilters: Performance, microbial communities and microbial activities. Frontiers in Microbiol. 9 - 354, 1 - 16. Índice impacto: 4.019: Cuartil:1 **4.** Gonzalez-Martínez A, Muñoz-Palazon B, Maza-Marquez P, Rodriguez-Sanchez A, Gonzalez-Lopez J, Vahala R.(2018) Performance and microbial community structure of a polar Arctic Circle aerobic granular sludge system operating at low temperature. Biores Technol. 256:22-29 Índice impacto: 5.807: Cuartil: 1 **5.** Rodriguez-Sanchez A, Margareto A, Robledo-Mahon T, Aranda E, Diaz-Cruz S, Gonzalez-Lopez J, Barcelo D, Vahala R, Gonzalez-Martinez A.(2017) Performance and bacterial community structure of a granular autotrophic nitrogen removal bioreactor amended with high antibiotic concentrations, Chem Eng J, 325:257–269, Índice: 6,735 ; Cuartil: 1 (*Corresponding Author)
Elizabet Aranda	PhD in Biological Sciences, University of Granada. She is working as Senior Researcher with a “Tenure track Ramón y Cajal”. She has published 48 papers in SCI journals (h=16), 5 books chapters, supervised 3 PhDs, 4 Postdoc, 10 Master thesis and different PhD students from different programs (Erasmus+, Fulbright Program). She has been involved in more than 15 public/private R+D+i and transfer of technology projects as IP or collaborator. 1. Camacho-Morales RL, García-Fontana C, Fernández-Irigoyen J, Santamaría E, González-López J, Manzanera M, Aranda E. Anthracene drives sub-cellular proteome-wide alterations in the degradative system of Penicillium oxalicum. Ecotox. Environ. Safe 2018, 159: 127-135. 2. Mtibaà R., Olicón-Hernández DR., Pozo C, Belbahri L., Nasri M., Mechichi T., González-López J, Aranda E. Degradation of Bisphenol A by different thermo-tolerant ascomycete strains isolated from arid

	soils. Ecotox. Environ. Safe. 2018. 156, 87-96. 3. Aranda E., Godoy P, Reina R., Badia-Fabregat M, Rosell M., Marco-Urrea E., García-Romera, I. Isolation of Ascomycota fungi with capability to transform PAHs: insights into the biodegradation mechanisms of *Penicillium oxalicum*. Int. Biodeterior. Biodegrad. 2017. 122:141-150. 4. Aranda E. Promising approaches towards biotransformation of polycyclic aromatic hydrocarbons with Ascomycota fungi. Curr. Opinion Biotechnol. 2016 38:1-8 5. Aranda E, Scervino M, Godoy P, Reina R, Wittich RM, Ocampo-Bote JA, García-Romera I. Role of micorrhyzal fungus *Rhizophagus custos* in the dissipation of PAHs under root-organ culture conditions. Environ Poll. 2013. 181: 182-189

Partner number		**P4**
Organisation name & acronym	University of Patras - UPAT	

F.3.1 - Aims and activities of the organisation

Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

The University of Patras was founded in the city of Patras in 1964 Its creation contributed vastly to the decentralization of academic education in Greece. It is the third largest University in Greece concerning the size of students potential, the faculty members, administrative personnel, number of departments, and accredited students titles. There are 22 Departments, with a large number of sectors and consequently a great range of disciplines, which operate 112 laboratories and 14 clinics fully equipped. The University of Patras has 21,200 undergraduate and 3,260 postgraduate students, 754 of faculty members, 238 of teaching staff, and 481 administrative personnel. Besides its distinguished path in education, the University of Patras has made excellence in the fields of basic and applied research. The University of Patras has acquired international prominence for pioneering and wide ranging research in areas such as Environment, Health, Biotechnology, Mechanics, Electronics, Informatics and basic science. A number of its Departments, Laboratories and Clinics have been designated as Centers of Excellence, on the basis of international assessment. The Department of Chemical Engineering was accredited internationally by IChemE in 2007.

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	
Number of students	
Number of Bachelor degrees offered	
Number of Master degrees offered	
Number of PhD degrees offered	
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	

F.3.2 – Role of your organisation in the project

Please describe also the role of your organisation in the project (limit 1000 characters).

Contribution to the development of courses oriented to applications of fundamentals of science and chemical engineering to the environment. Emphasis shall be placed in aquatic chemistry, solution chemistry and crystal growth from solutions together with processes taking place at the solid/water interface. These processes are important for the mobilization and for the removal of pollutants from aquatic bodies. Preparation of course materials including demonstration activities for the use of model experiments and instrumentation. We shall contribute in the organization and structure of the MSc programme designed implementing evaluation procedures for the assessment of the tasks. Our organization has a longstanding experience in the development of graduate programmes both at the National and at the International level through the Erasmus activities and can offer know-how and support for the development of targeted programs at a graduate level related with environmental issues. We shall also contribute to the implementation of internationally accredited degrees because of our experience on the procedures and preparatory actions.

F.3.3 – Curriculum development project *(only for Partner Country institutions)*

Please fill in if you are applying for a curriculum development project

Please confirm that no similar curricula/ courses/modules were developed/modernised in Tempus IV projects in this HEI.	Choose an item.

For new courses

What new courses will the project implement in your HEI?	

For each course please fill the following nested table:

Title	
Level of study	
List of subjects and credits (ECTS or comparable credit system) for each of	

them	
Estimated date of accreditation and accreditation body	
Estimated starting date of the new programme	
Number of students to be accepted in the first year/ second year	
Number of teaching staff to be trained	
Internship /placements (if applicable)	
List of equipment to be purchased for this course? (if applicable)	

For updated courses

Which existing courses will be updated in your HEI?	

For each course please fill the following nested table:

Title	
Level of study	
List of subjects and credits (ECTS or comparable credit system) for each of them	
Estimated date of accreditation and accreditation body	
% of the modernised subjects compared to total subjects included in the course	
Number of students to be accepted in the first year/ second year	
Number of teaching staff to be trained	
Internship /placements (if applicable)	
List of equipment to be purchased for this course? (if applicable)	

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

Provide information on (if applicable)	
List the number of existing centres/networks in your HEI	
Is the centre to be created a new one or an update?	
If new, why is a new centre necessary? If updated, why is an updated centre necessary?	
Where will the centre be located in the institution?	
Will this infrastructure be made available to the centre after the project ends?	
How many people will be employed in the centre?	
Will the institution fund these posts after the project ends?	
How many administrative staff will be trained?	
Which procedures will be updated /introduced in the institution?	

F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

F.3.6 – Expected results and impact *(only for Partner Country institutions)*

What are the expected tangible results from the project in your HEI?	
How will the impact of these results be measured in your HEI?	
What financial means and human and other resources will be provided to sustain these results after the project ends?	

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project

Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Petros Koutsoukos, Professor	As a Departmental coordinator for the Chemistry Department of the University of Patras (1984-1989) organized the credit transfer system locally and worked for the implementation of international courses and student exchange. At the chemical Engineering Department as

	LLP/Erasmus coordinator worked for the development of exchanges of students and faculty with foreign Institutions. Participated actively in the development of a graduate course in Environmental sciences which runs successfully until present at the University. Director of the Laboratory of Inorganic and Analytical Chemistry of the Department of Chemical Engineering, with research emphasizing environmental issues including recycling of raw materials and pollution monitoring. Alexis G Pantziaros, Sofia Jaho, Isidora Karga, Iakovos C Iakovides, Petros G Koutsoukos and Christakis A Paraskeva, Struvite precipitation and COD reduction in a two-step treatment of olive millwastewater, J Chem Technol Biotechnol . 93: 730–735 (2018) Kontos, SS; Katrivesis, FK ; Constantinou, TC ; Zoga, CA ; Ioannou, IS; Koutsoukos, PG Paraskeva, CA , Implementation of membrane filtration and melt crystallization for the effective treatment and valorization of olive mill wastewaters, SEPARATION AND PURIFICATION TECHNOLOGY, 193, 103-111(2018) Ioannis Mpountas, Emmanuel Papadakis and Petros Koutsoukos, Phosphorus recovery from simulated municipal wastewater (SMW) through the crystallization of magnesium ammonium phosphate hexahydrate (MAP), J Chem Technol Biotechnol 92: 2075–2082 (2017) A.I.Vavouraki, P.G.Koutsoukos, The Inhibition of Crystal growth of Mirabilite in the Presence of Phosphonates, Journal of Crystal Growth,436 (2016), 92-98, doi: 10,1016/j.jcrysgro.2015.11.044In Sofia Jaho, Georgia D. Athanasakou, Varvara Sygouni, Maria G. Lioliou, Petros G. Koutsoukos, and Christakis A. Paraskeva, Experimental Investigation of Calcium Carbonate Precipitation and Crystal Growth in One- and Two-Dimensional Porous Media, Cryst. Growth Des., 16 (2016) (1), 359–370, DOI: 10.1021/acs.cgd.5b01321
Christakis Paraskeva, Professor	Separation processes and particle technologies, Water and tertiary wastewater treatment in depth filters, treatment of agro-industrial wastewaters with membranes (ultrafiltration, nanofiltration, reverse osmosis) and isolation and purification of organic compounds with high added value, coagulation/flocculation/precipitation methods, Computer- aided simulation of particles flow and deposition within porous media (dynamic behaviour), Consolidation of unconsolidated or poorly consolidated sand formations, stabilization of sandy soils, water proofing of underground constructions, soil protection from water erosion, Scale formation. Participation in international (BRITE- EURAM, ENERGY, TEMPUS, INCO-Copernicus, CRAFT, IST), national (EPET/SPA, STRIDE, EPET, PENED, PAVE) and industrial research projects. Teaching: Unit operations, Laboratory of Unit operations, Numerical analysis, Mass Transfer (undergraduate level), Fundamentals of Chemical Engineering II (fluid mechanics, heat and mass transfer -graduate level). DP Zagklis, CA Paraskeva, 'Purification of Grape Marc Phenols through Solvent Extraction, Membrane Filtration and Resin Adsorption/Desorption', 156 (2), 328-335, 2015, Separation and Purification Technology, doi:10.1016/j.seppur.2015.10.019 DP Zagklis, AI Vavouraki, ME Kornaros, CA Paraskeva, 'Purification of

	Olive Mill Wastewater Phenols through Membrane Filtration and Resin Adsorption/Desorption', Journal of Hazardous Materials, 285 (1), 69-76, 2015, doi:10.1016/j.jhazmat.2014.11.038 Spyridon S. Kontos, Petros G. Koutsoukos, Christakis A. Paraskeva, 'Removal and recovery of phenolic compounds from olive mill wastewater by cooling crystallization, accepted, DOI:10.1016/j.cej.2014.04.047, Chemical Engineering Journal, 251, 319-328, 2014 IS Ioannou, SS Kontos, PG Koutsoukos, CA Paraskeva, Mathematical Modeling and Experimental Coupling of Solution Layer Crystallization on a Vertically Cold Surface, Separation and Purification Technology, 197, 8-17, 2018, https://doi.org/10.1016/j.seppur. 2017.12.038 Dimitris P. Zagklis, Christakis A. Paraskeva, 'Isolation of organic compounds with high added values from agro-industrial solid wastes', Journal of Environmental Management, 216, 183-197, 2018, ISSN 0301-4797, https://doi.org/10.1016/j.jenvman.2017.04.083.
Pavlos Klepetsanis Associate Professor.	Expertise in the synthesis and properties of nano-particles with applications in medicine, delayed and targeted drug delivery. Also, in the use of scale deposits inhibitors. Experience in teaching graduate and undergraduate courses of health related subjects. He ha supervised an number of Master's level theses both of Geek graduate students and also of foreign exchange students. Significant administrative experience Involved in curricula development of the Department of Pharmacy of the University of Patras and in the evaluation procedures of the graduate programme.

Partner number		**P5**
Organisation name & acronym	Baku State University - BSU	

F.3.1 - Aims and activities of the organisation

Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

Baku State University (BSU) offers students 17 majors with 55 bachelor and 153 master degrees, has a broad range of research and training centres (37), a modern Library , two Scientific Research Institute, Institute of Applied Mathematics and Physics Problems. BSU has established cooperation and partnerships with academic institutions in EU and other countries of the world. These cooperation schemes and partnerships include various areas of academic activity, such as, research exchange, student and faculty exchange, and joint-degree programs. Last year has been organized the faculty of ecology and soil science which has 5 departments, laboratory for Ecology monitoring, scientific research laboratory of the Ecology Chemistry and Ecology Protection. The Faculty will provide new training, a master's degree in three specialties: "Ecology," Soil Science and Agricultural Chemistry, "Structure of the earth, the cadastre of land and the city."

Since BSU integrated its education system to European 3 stages education system (Bachelor, Master and PhD). New terms require that a student studying for bachelor (education period is 4

years) get a wide knowledge on certain fundamental specialties. The Master's level (education period 2 years) is a pass way to science, demands to choose tighter specialty.
Today BSU is a member of such authoritative associations and institutions as Association of Universities of Eurasia, which consolidates most of universities of former USSR, Association of Universities of Caspian Sea States, Association of Universities of Black Sea States, Association of European Universities. In 2002-2004 BSU led the Association of Universities of Black Sea States very successfully. Besides this, the University has bilateral agreements on scientific and technical cooperation, students-teachers exchange programs with Moscow State University Lomonosov's, Middle East Technical University, Nice-Sofia Antipole University, Indiana University, Kiyev National University, Vienna University and other universities and associations.
The education of Bachelor degree completes with preparation of diploma work and its defense. The Master's education – completes with dissertation work defense on written basis of personal study on certain field.
Educational programs on certain specialties and textbooks were prepared for Bachelor and Masters in accordance with the time requirements. For knowledge evaluation of the students, university started to use 100 points evaluation system, and for education university uses technical tools such as TV and video distance learning and etc.

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	60
Number of students	23000
Number of Bachelor degrees offered	55
Number of Master degrees offered	153
Number of PhD degrees offered	177
Number of DS degrees offered	47
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	Yes 561784-EPP-1-2015-1-FR-EPPKA2-CBHE-SP 544178-TEMPUS-1-2013-1-PT-TEMPUS-JPCR 543924-TEMPUS-1-2013-1-IT-TEMPUS-JPCR

F.3.2 – Role of your organisation in the project
Please describe also the role of your organisation in the project (limit 1000 characters).

The role of the Baku State University in this project will be focused to develop new courses in different area of sciences such us nanotechnology, biotechnology, ecology, nanophysics, nanochemistry, eco monitoring for the participants of trainings. Will organize teaching and training, meetings, workshops, courses and short term training to facilitate knowledge-research-innovation transfer. BSU will responsible preparation of laboratory practices and lecture materials, strengthening of material base of educational process, scientific researches and technological workings out in area nanotechnology in ecology, increase of level of educational - methodical work by creation of new curriculums, textbooks, educational and methodical grants, including on electronic carriers. Will be participate realization of the international cooperation within this project in area the curriculum development of ecology , biology l, chemistry, physics with applying nanotechnology. Will responsible the coordination of dissemination of results of

project in high education system of Azerbaijan.

F.3.3 – Curriculum development project *(only for Partner Country institutions)*
Please fill in if you are applying for a curriculum development project

Please confirm that no similar curricula/ courses/modules were developed/modernised in Tempus IV projects in this HEI.	**I confirm**

For new courses

What new courses will the project implement in your HEI?	

For each course please fill the following nested table:

Title	
Level of study	
List of subjects and credits (ECTS or comparable credit system) for each of them	
Estimated date of accreditation and accreditation body	
Estimated starting date of the new programme	
Number of students to be accepted in the first year/ second year	
Number of teaching staff to be trained	
Internship /placements (if applicable)	
List of equipment to be purchased for this course? (if applicable)	

For updated courses

Which existing courses will be updated in your HEI?	

For each course please fill the following nested table:

Title	
Level of study	
List of subjects and credits (ECTS or comparable credit system) for each of them	
Estimated date of accreditation and accreditation body	

% of the modernised subjects compared to total subjects included in the course	
Number of students to be accepted in the first year/ second year	
Number of teaching staff to be trained	
Internship /placements (if applicable)	
List of equipment to be purchased for this course? (if applicable)	

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

NO

Provide information on (if applicable)

List the number of existing centres/networks in your HEI	Institute for Physical Problems Institute Of Applied Mathematics Nanoreserch center Virtual İnternational Scientific Research Centre (VISRC)
Is the centre to be created a new one or an update?	New
If new, why is a new centre necessary? If updated, why is an updated centre necessary?	It will be first centre in Azerbaijan on its specific topic
Where will the centre be located in the institution?	It will be located one of campus of university and separately
Will this infrastructure be made available to the centre after the project ends?	Yes
How many people will be employed in the centre?	About 8
Will the institution fund these posts after the project ends?	There may be fund from universities and centre itself will earn by the service of private firms and companies
How many administrative staff will be trained?	About 5
Which procedures will be updated /introduced in the institution?	New courses

F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

- BSU will participate the design and implementation of a training course given by experts from universities and local industry
- the establishment of a new training centre near Baku State University devoted to development and training on new technological monitoring for the recovery ecological in Caspian Sea sides an Absheron Peninsula
- some periodic Workshops to discuss about the advances of the collaboration, the achieved project results and to receive feedback from local Enterprises;
- training of Az researchers and teachers near EU Universities;
- procurement of equipment and pilot plants by Az universities partners to be acquainted with the technologies to be proposed;
- seminars and training on pilot plants by EU experts in Azerbaijan;
- public conferences to disseminate achievements and results.

F.3.6 – Expected results and impact *(only for Partner Country institutions)*

What are the expected tangible results from the project in your HEI?	The project will increase the training of specialists in this area and improve the quality of training methods.
How will the impact of these results be measured in your HEI?	With the help of conducting a test training among of trainers and specialist
What financial means and human and other resources will be provided to sustain these results after the project ends?	After the project ends in the training centre will use human an other resources of universities which had participated in this project

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project

Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Prof. Mahammadali Ahmad Ramazanov	Dean of Physical faculty, Head of department of chemical physics of nanomaterials, specialists in nanomaterials, nanocomposites , had about 80 research articles in reviewer journals. 1. M. A. Ramazanov, Y. Babayev Preparation and structure of nanocomposites based on zinc sulfide in polyvinylchloride Journal of Non - Oxide Glasses Vol. 10, No. 1, January - March 2018, p. 1 – 6 journal C 2. S. N. Garibova , S.I. Mekhtiyeva , A.S. Huseynova, M. A. Ramazanov, G.J.Abbasova Influence of EuF3 rare-earth impurity on the optical properties and surface morphology Se95As5 chalcogenide glass like semiconductor journal Chalcogenide letters Vol. 15, No. 2, February 2018, p. 101 – 106, Impact factor 0,86 3. Luca Di Palma, Irene Bavasso, Fabrizio Sarasini, Jacopo Tirillo, Debora Puglia, Franco Dominici, Luigi Torre, Armando Galluzzi,

	Massimiliano Polichetti, Mahammadali Ahmed Ramazanov, Flora V. Hajiyeva, Habiba A. Shirinova Effect of Nano-Magnetite Particle Content on Mechanical, Thermal and Magnetic Properties of Polypropylene Compositesç, Journal Polymer Composites, 2018, DOI 10.1002/pc Impact factor 2,24 4. A. M. Maharramov, M. A. Ramazanov, Luca Di Palma, H. A. Shirinova, and F. V. Hajiyeva, Influence of magnetite nanoparticles on the dielectric properties of metal oxide/polymer nanocomposites based on polypropylene, Russian Physics Journal, 1-5 Impact factor 0,6 5. M.A. Ramazanov, A. R. Imamaliyev, Sh. A. Humbatov, Z. A. Agamaliev Effect of Barium Titanate Particles on Dielectric and Electro-Optical Properties of a Smectic-a Liquid Crystal, Russian Physics Journal, pp 1–8 ,08.02. 2018, Impact factor 0,7
Dr. Ismat Suleyman Ahmadov	Leader scientists, association professor of department of chemical physics of nanomaterials, specialists in biophysics, nanobiotechnology and ecology, had about 40 research articles in reviewer journals. 1. Ahmadov I.S. The impact of nanoparticles on the water uptake of the plant seeds .Actual problems of the modern nature sciences,Ganja, Azerbaijan ç 4-5 may,2017 2. Ismat S. Ahmadov, Nargiz J.Agayeva, Narmina A.Sadiqova. The impact of nanoparticles on the embrional and postembrional development in mollusks Lymnaea Auricularia. European Journal of Biomedical and Life Sciences. 2017, number 2, p.19 3. I.S.Ahmadov, M.A. Ramazanov, V.N. Ramazanli, N.J.Agayeva. The interactional nature of nanoparticles with plant cell surface.International Conference Modern Trends in Physics, 2017, 20-22 April, Baku, Azerbaijan 4. Ismat Suleyman Ahmadov, Mahammadali Ahmad Ramazanov, Abel Mammadali Maharramov. The study of imbibition curves in the seeds of corn (Zea mays) and red kidney bean (Phaseolus vulgaris): effect of nanoparticles and salts. Biointerface Research in Applied Chemistry, Volum 8, Issue 3, 3213-3218, 2018. 5. M.A.Ramazanov, I.S.Ahmadov,U.A.Hasanova, Luca Di Palma, Angelo Chianese. Environmental problems of Absheron peninsula and Caspian sea caused by oil and gas production. Journal of Low Dimensional Systems,v.2(1), 2018
Dr. Flora Vidadi Hajiyeva	Associate professor and PhD in chemistry at Nanoresearch Centre of Baku State University. Her main scientific fields are: magnetic polymer nanocomposites for adsorbing of high frequency electromagnetic waves, photovoltaic and photoresistive nanocomposites on the base quantum dots of metal sulphides, nanochemistry, nanotechnology in ecology and e.t.c. F.V.Hajiyeva is author of 46 papers which indexing in Web of Science Clarivate Analytics database. 1.Ramazanov M.A., HajiyevaF.V., MaharramovA.M., Luca Di Palma, Diana Sannino, Makoto Takafuji, MammadovH.M., Hasanova U.A., ShirinovaH.A., BayramovaZ.A. New Magnetic Polymer Nanocomposites on the Basis of Isotactic Polypropylene and

	Magnetite Nanoparticles for Adsorption of Ultrahigh Frequency Electromagnetic Waves Polymer-Plastics Technology and Engineering, volume 57, issue 5, p.449-458, 2018 2.Luca Di Palma, Irene Bavasso, Fabrizio Sarasini, Jacopo Tirillò, Debora Puglia, Franco Dominici, Luigi Torre, Armando Galluzzi, Massimiliano Polichetti, Mahammadali A. Ramazanov, Flora V. Hajiyeva, Habiba A. Shirinova Effect of nano-magnetite particle content on mechanical, thermal and magnetic properties of polypropylene composites Polymer Composites 2018 3.Ramazanov M.A., Maharramov A.M., Ali-zada R.A., Shirinova H.A., Hajiyeva F.V. Theoretical and experimental investigation of the magnetic properties of polyvinylidene fluoride and magnetite nanoparticles-based nanocomposites Journal of Theoretical and Applied Physics, vol.12, issue 1, pp.7-13, 2018 4.Ramazanov M.A., Maharramov A.M., Hajiyeva F.V., Shirinova H.A., Luca Di Palma The Effect of the Temperature–Time Mode of Crystallization on the Morphology and Thermal Properties of Nanocomposites Based on Polypropylene and Magnetite Journal of Inorganic and Organometallic Polymers and Materials,vol.28, issue 3, p.1171-1177, 2018 5.Ramazanov M.A., Alizade R.A., Maharramov A.M., Hajiyeva F.V., Sultanova J.R., Shirinova H.A.Theoretical and Experimental Study of the Magnetic Properties andSize of Distribution of PVDF+Fe Based Nanocomposites Journal of Inorganic and Organometallic Polymers and Materials, pp.1-8, 2018
Dr. Habiba Aslan Shirinova	Junior researcher at Nano-research center, PhD of physics . Her main research fields are: Polymer based nanocomposites material, magnetic nanostructures, magnetic and optic properties of nanomaterial. She is the author of 16 publications on international journal or national and/or international conferences proceedings. Teaching activity. Physics of nanoparticles Research methods of experimental physics Quantum mechanics of polyatomic molecules. . M.A. Ramazanov, F.V. Hajiyeva, A.M. Maharramov, A.B. Ahmadova,U.A. Hasanova, A.M. Rahimli and H.A. Shirinova “Influence of Polarization Processes on the Morphology and Photoluminescence Properties of PP/TiO2 Polymer Nanocomposites” Vol. 131 (2017) ACTA PHYSICA POLONICA 2.M. A. Ramazanov · A. M. Maharramov · F. V. Hajiyeva · H. A. Shirinova · Luca Di Palma “The Effect of the Temperature–Time Mode of Crystallization on the Morphology and Thermal Properties of Nanocomposites Based on Polypropylene and Magnetite (Fe3O4)” Journal of Inorganic and Organometallic Polymers and Materials DECEMBER 2017 3. M. A. Ramazanov, F. V. Hajiyeva, A. M. Maharramov, Luca Di Palma, Diana Sannino, Makoto Takafuji, H. M. Mammadov, U. A. Hasanova, H. A. Shirinova & Z. A. Bayramova “New Magnetic Polymer Nanocomposites on the Basis of Isotactic Polypropylene and Magnetite Nanoparticles for Adsorption of Ultrahigh Frequency

	Electromagnetic Waves" Polymer-Plastics Technology and Engineering 2017 4. A. M. Maharramov, M. A. Ramazanov, Luca Di Palma,H. A. Shirinova and F. V. Hajiyeva "INFLUENCE OF MAGNETITE NANOPARTICLES ON THE DIELECTRIC PROPERTIES OF METAL OXIDE/POLYMER" Russian Physics Journal, Vol. 60, No. 9, January, 2018 (Russian Original No. 9, September, 2017 5. Luca Di Palma, Irene Bavasso, Fabrizio Sarasini, Jacopo Tirillò, Debora Puglia, Franco Dominici, Luigi Torre, Armando Galluzzi, Massimiliano Polichetti, Mahammadali Ahmed Ramazanov, Flora V. Hajiyeva, Habiba A. Shirinova "Effect of Nano-Magnetite Particle Content on Mechanical, Thermal and Magnetic Properties of Polypropylene Composites. POLYMER COMPOSITES—2018
Dr. Kanan Abdulaga Huseynov	Researcher at Nano-research centre, PhD of Ecology and Soil sciences. His research fields are using Nanoparticles in Environmental ways, Soil sciences, Environmental sciences, Environmental Engineering and etc. He is the author of few publications on international journal and national journals. He take part in few International conferences and trainings. He have teaching activity in Ecology and Soil sciences Faculty. 1.The cleaning of air pollution with photo catalytic process of Titanium Dioxide nanoparticles. TEMPUS-1-2013-1-İT-TEMUS-JPCR ECONANO project 2.Нанотехнологии в сфере Экологии , Сборник статей по материалам научно-практической конференции роль и перспективы молодежи в развитии «зеленой экономики» 2016 3.G.Sh. Garibov , M.A.Ramazanov, U.A.Hasanova, K.A.Huseynov, A.Kanaev, " Photocatalitic Degradation of Organic pollutions by using TiO2 Nanoparticles" Chemical engineering transactions vol.60 2017 4.Influence of Phase composition of Dioxide of the Titan on Photocatalytic degradation of Organic Pesticides, Journal of LOW DIMENSIONAL SYSTEMS , VOL.2 , ISSN 2308-068X , 2018

Partner number	**P6**
Organisation name & acronym	Baku Engineering University - BEU

F.3.1 - Aims and activities of the organisation

Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

Baku Engineering University (BEU) was established on 8th of November, 2016 and operates in a big Campus located in Khirdalan city, Azerbaijan as well as it is one of the best public higher education institutions functions under the Ministry of Education of the Republic of Azerbaijan.

BEU, prepares engineers on all levels of higher education, execute programmes of higher and additional education in this sphere, and conduct fundamental and applied science researchers.

Besides, the establishment of the university aims to improve the teaching of engineering

technologies and prepare highly-qualified personnel for the industry.

BEU is a partner university at the Erasmus+ program within different KA1 agreements and KA2 projects (for example PROMIG, POWER, NIZAMI), as well as BEU with its relevant departments, was involved to a preparation of HORIZON 2020 project with its EU partner universities. Besides, BEU is very active in scientific and research works in Azerbaijan. The students of BEU are participating at the different Olympiads and scientific competitions where they won 1st place and get different awards.

BEU has a lot of laboratories with modern equipment and all needed facilities, BEU also has TECHNOPARK where new start-ups and spin-offs implementing their projects etc.
Related with this Erasmus+ KA2 project, we'd like to mention that BEU has a Center for Energy Research and it is collaborating with relevant private and governmental industrial organization as well as doing different scientific – research projects. The centre has all needed laboratories with modern equipment and all needed facilities as well as experienced personnel and researchers.

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	Erasmus – 14 Movlana – 4 Partnership agreement – 12
Number of students	4773
Number of Bachelor degrees offered	28
Number of Master degrees offered	12
Number of PhD degrees offered	6
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	1. PAWER - Paving the way to interregional mobility and ensuring relevance, quality and equity of access. (Erasmus+ - Key Action 2 - Capacity building in the field of higher education). - 574099-EPP-1-2016-1-IT-EPPKA2-CBHE-SP 2. PROMIG - Promoting Migration Studies in Higher Education. (Erasmus+ - Key Action 2 - Capacity building in the field of higher education) - 573554-EPP-1-2016-1-GE-EPPKA2-CBHE-JP 3. NİZAMİ - Restructuring and development of doctoral studies in Azerbaijan in line with requirements of European higher education area. (Erasmus+ - Key Action 2 - Capacity building in the field of higher education). - 561784-EPP-1-2015-1-FR-EPPKA2-CBHE-SP 4. Developing Mater programmes in Mobile Applications and Game Design at partner universities. (Erasmus+ - Key Action 2 - Capacity building in the field of higher education). - 598342-EPP-1-2018-1- SE-EPPKA2-CBHE-JP 5. Crisis and Risks Engineering for Transport Services. (Erasmus+ - Key Action 2 - Capacity building in the field of higher education). - 598218-EPP-1-2018-1- PL-EPPKA2-CBHE-JP

F.3.2 – Role of your organisation in the project
Please describe also the role of your organisation in the project (limit 1000 characters).

BEU will be involved in the project with its s "Center for Energy Research" and TECHNOPARK which all of them will be more useful and helpful for the consortium members of the project with below listed activites:

- participation in the discussions over the establishment of new curricula;
- providing qualified academic staff and students for trainings and student mobility;
- review of current curricula together with European and local partners;
- dissemination and sustainability of the project;
- effective project management.

Besides, BEU will actively participate in the project events, workshops, and try to implement all needed WPs. We hope this project will bring many and new opportunities for our university as well.

F.3.3 – Curriculum development project *(only for Partner Country institutions)*
Please fill in if you are applying for a curriculum development project

Please confirm that no similar curricula/ courses/modules were developed/modernised in Tempus IV projects in this HEI.	**I confirm**

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

NO

Provide information on (if applicable)

List the number of existing centres/networks in your HEI	Center for Energy Research
Is the centre to be created a new one or an update?	New
If new, why is a new centre necessary? If updated, why is an updated centre	It will be first centre in Azerbaijan on its specific topic

necessary?	
Where will the centre be located in the institution?	No
Will this infrastructure be made available to the centre after the project ends?	Yes
How many people will be employed in the centre?	About 8
Will the institution fund these posts after the project ends?	There may be fund from universities and centre itself will earn by the service of private firms and companies
How many administrative staff will be trained?	About 5
Which procedures will be updated /introduced in the institution?	New courses
F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment *(only for Partner Country institutions)* *Please fill in if you are applying for this type of project and define clear the activities to be held in your institution* (limit 2000 characters)	
This project intends to answer to the urgent need for Azerbaijan universities to revise the rules and content of organizing engineering studies within Bologna process documents in terms of their consistency, especially on ensuring science and research provisions in relevance with European standards, to fulfill the relationship among the fields of educational centers, business and industry units while improving Engineering-Entrepreneurial Know-How Exchange methodologies of current engineering approaches and internationalzation of research. We can expect to forge closer relations between HEIs from Europe and Azerbaijan. The relations will be consolidated in term of research and developpement agreements, exchanges of students and staff, employability, and will have an economical and social impact. The modernization of research and therefore the better understanding between countries will permit to enhance economical exhanges based on natural resources and expertises.	
F.3.6 – Expected results and impact *(only for Partner Country institutions)*	
What are the expected tangible results from the project in your HEI?	• 1.1.Gathering data current situation of Engineering education,1.2.Gathering data current situation of Engineering education,1.3.Analysing current situation of Engineering education and developed strategy for the Environmental Engineering Study • 2.2.Workshop in EU and modified models,4.3.Implementation of models • 3.1.Projects webplatform,3.2.Launch events for the each projects (Engineering days),3.3.Dissemination Conferences in partner countries,3.4.Dissemination of project results • 4.1.Developing sustainability plan,4.2.Local stakeholders seminars and meetings,

	• 5.2.Sef-evulation reports,7.3.Monitoring of the project and their staff 6.1.Day-to-day project management
How will the impact of these results be measured in your HEI?	Main outputs of projects will be addressed to Azerbaijan's younger generations, who are the primal target group of this project. They will not only improve their on-demand practical skills in variety fields of environmental engineering, but they will also improve their interpersonal skills, and create better personal network. Project's impact will serve to the revitalization of current non oil industry. This project will also have an impact on modernization of engineering education, research and innovation of in Azerbaijan. On a national level, the engineering students should inhance their professional skills to meet the needs of the local, regional and national markets. Again, those actions should be built up progressively and the first impacts should be visible before the completion of the project. To improve the quality of engineering education in Azerbaijan to fit to european standards. The project will work on the combinaison of expertises to bring to the desired results: modernisation of higher education. The impact will be felt during the development of the project through concrete actions: improvement of professionnal skills, improvement of engineering education management, internationalization, organization of engineering schools and reach all the target groups: PhD students, young researchers, staff, HEIs and instutions.
What financial means and human and other resources will be provided to sustain these results after the project ends?	BEU will be responsible for continuous update to EC and project partners regarding project related expenditures, project activities, scheduling; sustain continuous communication ; comply with EU reporting rules ; ensure quality assurance ; manage dissemination and information awareness both locally and nationally ; participate in meetings ;

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project

Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Parviz Hasanov	National Academy of Science. He is Head of Industrial Engineering Department at Baku Engineering University. Mr. Hasanov took active participations in several Tempus projects. Projects developed, coordinated and managed ● Establishing Modern Master-level Studies in Industrial Ecology IEMAST 517346-TEMPUS-1-2011-1- SE- TEMPUS-JPCR ● Curriculum Reform and Modernization of Ecology Engineering Based on Nanotechnology ECONANO, Grant Number (543924-TEMPUS-1-2013-1-IT- TEMPUS-JPCR) ● Development of Training Network for Improving Education in Energy Efficiency ENERGY, Grant number (530379-TEMPUS-1-2012-1-LVTEMPUS-JPCR) He is an author and co-author some scientific articles and books (as below

	listed): • Babayev Y., Demırkıran K., Məmmədov P., Həsənov P.,Tahirov N. Mechanical and Industrial Engineering, Remanufacture, Production, waste disposal with safety stock cost // Journal of Qafqaz University-2014.-№1.- p. 52-56. • Hasanov P., M.Y. Jaber, Saaed.Z. Production, Remanufacturing and Waste Disposal Models for the cases of pure and partial backordering // Applied Mathematical Modelling-2012. -№36.-p.5249-5261. • Hasanov P., M.Y. Jaber , S. Zanoni & L.E. Zavanella. Closed-loop supply chain system with energy, transportation and waste disposal costs // International Journal of Sustainable Engineering -2013.-no 6.- 4.-p. 352–358. • Hasanov P. , M.Y. Jaber , S. Zanoni & L.E. Zavanella. Closed Loop Supply Chain System With Energy, Transportation And Waste Disposal Costs-Berlin,Germany:International Symposium on Logistics-2011. • Hasanov P., Tahirov N. The EOQ Model With Manufacture, Remanufacture And Recycle Costs // Journal of Qafqaz University, Economics and Administration-2011.- Number 31.- p. 44-48. • Nail Tahirov, M. Jaber & Parviz Hasanov , "Optimization of Close-Looped Supply Chain of multi-items returned subassemblies", International Journal of Production Economics (IJPE),2015 • Hasanov P. Optimization of Green Supply Chain Network, IV International Scientific Conference of Young Researchers,2016 • Parviz Hasanov M. Jaber &, Nail Tahirov, "Four-level closed loop supply chain with remanufacturing" Applied Mathematical Modelling, Volume 66, February 2019, Pages 141-155.
Rashail Ismayilov	Mr. Ismayilov, PhD, is Senior Lecturer at Industrial Engineering Department at Baku Engineering University (BEU). At the same time, he is head of divison at "Sukanal" Scientific-Research and Design Institute, "Azersu" Open Joint Stock Company. Selected Scientific articles list: 1. Current environmental situation the Greater Caucasus rivers and its evaluation with the application of mathematical statistical methods. "Corporate Governance and Economic Development of Innovation" The International Scientific-practical Conference, Baku, 2011. Page. 242-247. 2. Assessment of the ecological flows in the absence of observational data (The example of rivers flowing directly into the Caspian Sea), Water problems: science and technology. International refereed academic journal. Baku-2016. № 1, Page 91-96.
Etibar Gahramanov	Mr. Gahramanov is Lecturer and Academic adviser at Industrial Engineering Department at Baku Engineering University (BEU). At the same time, he is PhD student at National Aviation Academy (PhD thesis - Using GIS and Remote Sensing in Urban Waste Disposal and Management: Baku and Sumgait cities, Azerbaijan). Publications: 1. K.I. Abdullayev, A.N. Badalova, R.N. Farzaliyev, E.S. Gahramanov., (2017). Fields of Remote Sensing. Baku: National Aviation Academy.
Sevil Imanova	Mrs. Sevil Imanova (PhD Candidate) is Head of International Relations & Projects Management Office and lecture of "Organizing and Management of

	Industry" Department at Baku Engineering University (BEU). She has project management skills and experiences as well as she is an author and co-author some scientific articles and books (as below listed): - Author of "Introduction to Industrial Engineering" book, published by Qafqaz University, Baku, Azerbaijan. 2010:98; - "Saving Six Slash Method and Competitive Advantage" article was published in the Journal of Qafqaz University, No.: 29:11, . Azerbaijan. 2010; - "Measurement of Service Quality by Fuzzy Delphi Method" article was published in the Journal of Qafqaz University. No.: 30: 103-118, Azerbaijan. 2010; - "Management Quality in Education" article was published in the Journal of Qafqaz University, No.: 24:12, Azerbaijan 2008; - "Audit of Satisfaction of the Consumer" article was published in the Journal of Qafqaz University, No.: 20: 187-192, Azerbaijan. 2007 etc; She has also researching and teaching experiences which it will be more helpful for the project needs and WPs implementation.

Partner number		**P7**
Organisation name & acronym		**Baku Higher Oil School - BHOS**

F.3.1 - Aims and activities of the organisation
Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

Baku Higher Oil School (BHOS) is a leading higher education institution in Azerbaijan and was established as a public HEI under the Decree No.539. The mission of BHOS is to train highly qualified specialists in various energy sectors, including petroleum, chemical and automation engineering, to develop a new generation of engineers having an excellence in selected areas of engineering, technology and design. To this end an educational environment is provided with brand-new technologies and high profile teaching staff. BHOS offers education and training within four currently available specialization programmes in bachelor level: Petroleum Engineering, Chemical Engineering, Information Security and Process Automation Engineering. In master's level the programmes include Oil and Gas Technology, Reservoir Evaluation and Management, Process Automation Engineering and Master of Business Administration.
BHOS strives to incorporate international dimension into its academic and research community. International cooperation is carried out mainly through bilateral agreements, MOUs and cooperation memorandums, between universities and institutions. BHOS cooperates with overseas universities, amongst which cooperation with University of West Attica in Greece, University of Valladolid and University of Alcala in Spain, WSB University of Poland in the frames

of Erasmus+ mobility programmes for students and staff exchange should be underlined. BHOS has double diploma programs in bachelor and master level with Heriot-Watt University of UK. Among the other universities BHOS has cooperation agreements with University of Houston, AGH University of Science and Technology, RWTH Aachen University, Petroleum Gas University of Ploiesty, Petroleum Institute Abu Dhabi etc.
One of the advantage of BHOS is its close cooperation with national and transnational companies operating in Azerbaijan, as students take summer internship in the companies as a part of bachelor curriculum. In this connection, BHOS cooperates with companies like SOCAR, BP, ABB, Halliburton, Schlumberger, Statoil, Baker Hughes, Maire Tecnimont, Total, Microsoft, Emerson Process Management, Schneider Electric, to name but a few.
Besides, Baku Higher Oil School has been conducting the program"School of Project Management" (SPM) in partnership with George Washington University, TwentyEighty Straregy Excetution and BPand local projects such as Business Education for Engineers with BP and others.

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	24
Number of students	724
Number of Bachelor degrees offered	4
Number of Master degrees offered	4
Number of PhD degrees offered	0
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	*No*

F.3.2 – Role of your organisation in the project
Please describe also the role of your organisation in the project (limit 1000 characters).

The main role of BHOS is supporting the centre by involving the Petroleum Engineering and Chemical Engineering departments to provide it with qualified trainers and researchers who has broad experience in oil and gas production and chemical processing, water treatment, optimization of processes and can contribute to the evaluation and identification of current environmental situation in the investigated area. Having included modern courses to train engineers who are able to deal with current world problems, the abovementioned programs are well-tailored to fit the main idea of the project. This staff will take part in identification of current situation and environmental footprint, dissemination, course and content development and delivery. BHOS laboratories, e.g. Process Industries and Reservoir engineering labs will be used to support the centre when necessary.

F.3.3 – Curriculum development project *(only for Partner Country institutions)*
Please fill in if you are applying for a curriculum development project

Please confirm that no similar curricula/ courses/modules were developed/modernised in Tempus IV projects in this HEI.	**I confirm**

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

NO

Provide information on (if applicable)

List the number of existing centres/networks in your HEI	
Is the centre to be created a new one or an update?	
If new, why is a new centre necessary? If updated, why is an updated centre necessary?	
Where will the centre be located in the institution?	
Will this infrastructure be made available to the centre after the project ends?	
How many people will be employed in the centre?	
Will the institution fund these posts after the project ends?	
How many administrative staff will be trained?	
Which procedures will be updated /introduced in the institution?	

F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

- Design of the training center, lab organization and equipment procurement
- Evaluation and identification of environmental footprint and contribute to the report on the Environmental Pollution due to oil and gas extraction in Azerbaijan
- Identification of the main topics to be investigated
- Appointment of each working group on a specific topic, its coordinator and evaluation of the relevant cleanup technologies
- Design of a 3rd cycle advanced course on Environmental Remediation and Sustainable G&O extraction
-Participate in trainers selection, trainings and follow-up on training
-Participate in equipment procurement and installation procedures
- Teachers and tutor training on equipment
- Carrying out student selection according to definition of criteria
- Course dissemination near stakeholders
- Check of each facility and equipment preliminary tests
- Lab training
- Stage near partners and stakeholders in Azerbaijan
- Investigation of technologies oil degradation in the sea-water

F.3.6 – Expected results and impact *(only for Partner Country institutions)*

What are the expected tangible results from the project in your HEI?	1.Trained academic and administrative staff 2.Availability of data on specific environmental problems as a result of the project implementation 3.Accessibility to new lab equipment for further research and investigation 4.Newly prepared course content and materials 5. Students with higher chances of employability 6. students with higher interest in research 6. Increased network and partnership with EU and local universities
How will the impact of these results be measured in your HEI?	Surveys Evaluation and acceptance reports Statistical analysis on increased interest in scientific research
What financial means and human and other resources will be provided to sustain these results after the project ends?	BHOS staff and researchers will be involved even after the project ends. The activities of the training centre can be sustained and even extended via using the available labs and other centres of BHOS. Dissemination of results among companies whom BHOS have good cooperation will lead to sustaining the results as well.

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project

Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Fuad Valiyev	Doctor of Technical Sciences, Professor of the Department of Petroleum Engineering of Baku Higher Oil School. He has been a Professor of Mechanics at Azerbaijan Petroleum University for more than thirty years. For a number of years he worked at various universities and

	research centers in Turkey and the United States as a visiting professor. Basic Themes of his scientific works relate to Rheophysic problems, Metastable states, Non-linear Wave and Negative Pressure Processes in Hydraulic Systems, Electrokinetic Principles of Transfer Processes, Theory and Practice of using of Physical Fields for Control of Oil and Gas Production Processes, Entropy and Global Eco-Energy Problems, Ecological Footprint of Oil-Recovery Processes. He is currently busy with problems related to environmental problems of oil production in Azerbaijan. He is the author of more than 140 scientific papers, was a participant in many International Conferences on problems of oilfield mechanics, thermodynamics, hydrodynamics, ecology.
Sevda Fatullayeva	Sevda Fatullayeva is a Head of Chemical Engineering Department of Baku Higher Oil School. She has graduated from the Chemical Faculty of Baku State University. She was awarded the PhD degree in Chemistry on speciality "Chemical kinetics and catalysis" at Institute of the Theoretical Problems of Chemical Technology of Azerbaijan National Academy of Sciences, Baku, Azerbaijan (now - Institute of Catalysis and Inorganic Chemistry named after acad. M.Nagiyev of Azerbaijan National Academy of Sciences). She has 13 years of teaching experience and has taught the "Biophysical and Bioorganic Chemistry" courses, as well as "Chemistry" course for foreign students of preparatory department of Azerbaijan Medical University. At present, S.Fatullayeva teaches the "Principle of Chemistry" and "Chemical Reactivity" courses for the students of "Chemical Engineering" speciality at Baku Higher Oil School. She was a participant of "Science for Piece" NATO project "Synthesis of zeolite catalysts". Many researches have been done in the field of catalysis, in particular, "Preparation and investigation of metalzeolites as multifunctional catalysts in selective oxidation of aliphatic alcohols". She participated in different international conferences on problems of catalysis. Recently she is interested in ecological problems. S.Fatullayeva is the author of more than 40 publications, including 4 manuals, 2 teaching aids and 2 patents.
Sevda Zargarova	Sevda Zargarova graduated with honor degree undergratuate program of Chemical Engineering Department of Middle East Technical University in 2010

	and graduate program of Hacettepe University in 2013. Starting from 2013, Sevda Zargarova became the academic member of Chemical Engineering Department at Baku Higher Oil School. She has been lecturing different subjects such as Process Calculation, Process Modelling and Control, Process Design and others. She is dealing with her PhD education on the topic `Synthesis and property research of surfactant oligomer propylene oxide derivatives with $C_8$-$C_{18}$ aliphatic amines` at Institute of Petrochemical Processes named after Academician Yu.G.Mamedaliyev, Azerbaijan National Academy of Sciences. The main objective of the work is to clean sea water from thin oil layer petroleum that exist on the surface by using surface active materials. She is author of 12 scientific papers, including 3 articles on this environmental problem.
Rima Guliyeva	After successfully completing her undergraduate and master studies, Rima Guliyeva is continuing her activity as a lecturer at the Department of Chemical Engineering at BHOS. She has more than 13 years of experience in academic field participating in many research activities some of them being research of “Carbon Capture and Storage”, “Synthesis of Imidazole and its derivatives”. A more extensive research was the project “Amphiphilic Catalysts for the Treatment of Oily Wastewaters” which she has carried out under supervision of professor Helder Gomes during master education at Polytechnic Institute of Bragança, Portugal. Rima Guliyeva also participated as a mentor in the Startup Project “Conversion of plastic wastes into fuel” with students, which was particularly remarkable. She has PhD on topic “Hydrocracking of vacuum gasoil in the presence of alumosilicate catalysts modified with Ni, Co and Mo” at National Academy of Science.
Farad Kamyabi	With solid background in Reservoir Engineering, he has been lecturing Reservoir Engineering and Reservoir Simulation courses in Baku Higher Oil School since 2015. He carried out a research on “Development of Bio-Oil Emulsion to Allow Realistic Testing of Oil Spill Control Equipment” at Norwegian University of Science and Technology in 2014. This work was published at SPE Latin American and Caribbean Health, Safety, Environment and Sustainability Conference, 7-8 July 2015, Bogotá, Colombia. Farad is currently working on a project on “Pore-Scale Analysis of Azeri-Chirag-Guneshli”.

Nargiz Tarverdiyeva	She has bachelor degree in Chemical engineering and master in Oil and gas technologies from Heriot-Watt University. Besides she has received master certificate in project management from George Washington University and currently works as a program manager at BHOS. She is responsible to manage the activities of double diploma programs of BHOS, local and international projects and Erasmus+ office at BHOS. She has been the coordinator and trainer of "Business Education for Engineers" program which was funded by BP. She has worked on the "Sustainable Development" report and carried out the implementation and evaluation of sustainable development goals for BHOS together with EY company.

Partner number		**P8**
Organisation name & acronym	Azerbaijan University of Architecture and Construction - AzUAC	

F.3.1 - Aims and activities of the organisation

Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

The Azerbaijan University of Architecture and Construction is located in Baku, Azerbaijan. Founded in 1975, the University has total area of 49000 m2 with 5 educational buildings and the Campus comprising a nine-storeyed dormitory for foreign students. It also includes Construction College and a technical Lyceum. Languages of instruction are Azerbaijani, Russian and English.

There are 7 faculties Architecture, Construction, Water Economy and engineering-communication systems, Transportation, Construction technologies, Construction Economics, Mechanics and information technology - over 7,500 students are educated on the 25 Bachelor's and 39 on Master's degrees.

The accreditation of the Faculty of Architecture by the Royal Institute of British Architects (RIBA) is under the process. Regularly meetings are held, works done by the Faculty are monitored, and discussions are made. Recently, the accreditation of Preparatory Faculty for Foreign Students is implemented by the University of Leicester, England.

Azerbaijan University of Architecture and Construction attributes great importance to international exchange in teaching and research, and promotes the cooperation with universities and other partners worldwide. The international orientation includes all aspects of university life: research, teaching and administration. As at January 2018, Azerbaijan University of Architecture and Construction has more than 100 partner universities across the world. With these partners, the university maintains a number of cooperation in research and teaching, including 2 (Erasmus+ and Mevlana Exchange Program) programs for student exchange.

Azerbaijan University of Architecture and Construction places great value on "Internationalization" and the Internationalization Strategy that is detailed in the following emphasize this.

Azerbaijan University of Architecture and Construction strives to increase public attention on an international level by "Internationalization" and to strengthen the international orientation

within the institution. The objective of "Internationalization" accents the international position and reputation of the university with regard to high-profile research and teaching, research cooperation's and the education of future scholars, specialists.
In terms of strategic direction of development**,** strengthening of the University's academic position, the internationalization strategy directly relates to the following strategic objectives:

- (1) increasing international activity in the field of scientific research, in particular with regard to increased participation in European research programs and projects;
- (2) expansion of international cooperation in the field of the exchange of academic staff and students

- (3) Promoting partnership with international universities, funding bodies and other private and public organizations

In terms of strategic direction, Constant improvement of the quality of education while providing favourable conditions for the education of people with outstanding talents, the internationalization strategy is directly related to the following strategic objectives:

- Development of a broad and comprehensive education at all levels and forms of education and for various types of studies;
- Intensification of international student exchanges within international programs and bilateral agreements.

AzUAC is cooperating with universities of more than 75 countries as a part of various programmes. The collaboration with these educational institutions are implemented in the framework of dual diploma programs, cooperation agreements, joint exchange programs (Erasmus Mundus, Erasmus +, Mevlana exchange program) and on the basis of Tempus projects.

AzUAC has been involved in various exchange programmes since 2013, expanding its cooperation relations with EU universities.
22 students and 4 instructors joined to the exchange program for study and research within Tempo (Trans European and Mobility Program) and Backis (Between Baltic and Caspian Seas) projects. Accordingly 5 students and 2 instructors in 2014 - 2015 academic years were admitted to the Azerbaijan University of Architecture and Construction from European Universities.
Furthermore, a protocol was signed with "Sapienza", University of Rome, Politecnico di Milano, University of Pavia, University of Turin, UTP University of Sciences and Technology, Istanbul Technical University, Middle East Technical University, Celal Bayar University, Kahraman Marash University, Bartin University, Technical University of Lisbon since 2015, within the framework of EU Erasmus+ KA1.
Double Diploma Programs
Istanbul Technical University, Turkey,
(Bachelor Degree in Construction Engineer);
Northampton University, UK,
(Master Degree in Urbanism and Solid Waste Management);
University of Coruna (Spain)
(Master degree in Ecological engineering)
Polytechnic, Institute of Leiria (Portugal)
(Master degree in Construction engineering)
University of Braganca
(Master degree in İnformation Technologies)

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	90
Number of students	8500
Number of Bachelor degrees offered	24
Number of Master degrees offered	39
Number of PhD degrees offered	20
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	

F.3.2 – Role of your organisation in the project
Please describe also the role of your organisation in the project (limit 1000 characters).

The main objective of the proposed project is to establish a training centre on environmental engineering. The AzUAC's participation is expected to bring expertise and experience through studies, assessments, trainings, and etc. AzUAC able to act as a research institution that not only considers scientific research and innovation as an ultimate goal but also has extensive expertise in implementing such monitoring's and assessments. AzUAC can contribute in studies and assessments of oil-contaminated water, methanol contaminated water, wastewater from industries, households water treatment. Also, studies and assessments carry out in contaminated soil treatment, because there are areas with contaminated from oil due to extensive exploration. Another issue to implement is air pollution treatment. The Ecology Engineering Department at AzUAC has engaged in many various projects and carried out the necessary outcomes which were successfully finalized and delivered. The department members who are involved in this project will deliver and share their knowledge on developing and executing studies, researches, trainings, and overall assessments of outcomes. The department has a good data base which ready to share during the length of the project. Dissemination activities will be also carried out in Azerbaijan.

F.3.3 – Curriculum development project *(only for Partner Country institutions)*
Please fill in if you are applying for a curriculum development project

Please confirm that no similar curricula/ courses/modules were developed/modernised in Tempus IV projects in this HEI.	**I confirm**

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)* *Please fill in if you are applying for this type of project and define clear the activities to be held in your institution* (limit 2000 characters)	
NO	
Provide information on (if applicable)	
List the number of existing centres/networks in your HEI	1. Knauf- Training and Consulting Centre 2. Aksesuar Construction Centre 3. "Tamiz Shahar Center" 4. Innovative Business Incubator Centre 5. Wood design Studio Embawood
Is the centre to be created a new one or an update?	İt is planned to open Design Centre together with Milan Technical University in coming days.
If new, why is a new centre necessary? If updated, why is an updated centre necessary?	Opening of different purpose centres will provide students not only with theoretical knowledge but prepare them as qualitative staffing and gain practical knowledge on the labour market. Centres also allow for multilateral research in specific areas.
Where will the centre be located in the institution?	The Training Centre will be located close the university campus.
Will this infrastructure be made available to the centre after the project ends?	Yes
How many people will be employed in the centre?	The number of employees varies according to the needs of the centre. At least 5 teachers, 3 researchers, 2 administrative staff and 1 technician, will participate to the project.
Will the institution fund these posts after the project ends?	Yes
How many administrative staff will be trained?	2
Which procedures will be updated /introduced in the institution?	New teaching methodology
F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment *(only for Partner Country institutions)* *Please fill in if you are applying for this type of project and define clear the activities to be held in your institution* (limit 2000 characters)	
• The International Ecoenergy Academy (IEEA), Azerbaijan and International Ecoenergy Academy (IEEA) office in Miami, USA both have a strong database and ready to share the carried out studies and researches. • International Sustainable Energy Organization (ISEO), Switzerland, ready to cooperate with scientists and experts in this project. • The Hydrogen Energy Foundation, USA, can contribute to various studies. • The International Renewable Energy Agency (IRENA) will cooperate in studies and assessments.	

- MGIMO University, Russia, Ecology Department participated in many trainings and members of Ecology Engineering Department of AzUAC cooperated with MGIMO University in Caspian region ecological assessment.
- ABOK Russian Association, Russia, actively participated with Ecology Engineering Department of AzUAC and International Ecoenergy Academy in ecological assessments and monitoring of Absheron Penninsula

F.3.6 – Expected results and impact *(only for Partner Country institutions)*

What are the expected tangible results from the project in your HEI?	• Increase the scientific and practical knowledge of professors and staff. • Raise students' capacities, knowledge, and experience by their active participation. • Strengthen cooperation between partners. • Strengthen cooperation among local, foreign, state, private and HEI's institutions and organizations. • Exchange of experience between partners. • Enhancement of quality and quality assurance system in line with EU's and World best practices and standards. The outcomes could be disseminated for professors and students at the university for future studies and used further in researches
How will the impact of these results be measured in your HEI?	The project results will presented to the head management and scientific committee of university. Then, the positive outcomes of project can be send and if needed presented to the state for future consideration, for example to the committee of standards where they can use them in practices or preparation of new standards, legislations, and etc.
What financial means and human and other resources will be provided to sustain these results after the project ends?	The Ecology Engineering Department of AzUAC is always participates in such projects and after carrying them out sustain most effective results by implementing them with the best students and professors who put their efforts for it.

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project

Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Fagan Aliyev	Doctor of Science, Professor. The Head of the Ecology Engineering Department. • Prof. Fagan Aliyev, Hadiya Khalilova, Farhad Aliyev, "Heavy metal pollution of ecosystem in an industrialized and urbanized region of the republic of Azerbaijan" Chapter 20 in Heavy Metals Book, IntechOpen publishing London,

	UK, pp., 359-381, 2018, http://dx.doi.org/10.5772/intechopen 74600 • 2014 The anthropogenic impact on surface water resources in Azerbaijan UK sc. j. "Energy & Environment", v.25, № 2, 2014, pp. 343-356. • 2012 Ecology, textbook, (in Azerbaijani), Baku 2012, 827 p. • 2010 Policy Reforms in Renewable Energy Investments in Azerbaijan. "Ecoenergy" j., 2010, №1, pp. 5-12. • 2009 Large-scale electronic maps of oil-contaminated soils of the Absheron Peninsula (developed under the plan of measures according the Decree of Azerbaijan Republic president dated 28 September 2006) • 2007 Hydro-hydrogen pilot project –a new step towards environmental friendly energy development in Azerbaijan, Proceeding of the 9th Baku International Congress "Energy, Ecology, Economy", 7-9 June 2007, Baku, Azerbaijan • 2007 Ecology of present times, textbook (in Azerbaijani), Baku 2007, 715 p. • 2006 Environmental situation and opportunities of renewable energy use in Azerbaijan Republic, Report at The Libyan International Oil, Gas, Power and Renewable Energy Exhibition and Forum, 4-7 December 2006, Libya. 2006 The use of alternative energy sources-the best approach to improving environmental situation in Azerbaijan. Report at the 16th WHEC, 13-16 June 2006, Lyon, France.
Farhad Aliyev	PhD - Lecturer at the Ecology Engineering Department, Chief of the International Relations Department • Farhad Aliyev, Prof. Fagan Aliyev, Hadiya Khalilova, "Heavy metal pollution of ecosystem in an industrialized and urbanized region of the republic of Azerbaijan" Chapter 20 in Heavy Metals Book, IntechOpen publishing London, UK, pp., 359-381, 2018, http://dx.doi.org/10.5772/intechopen 74600 • Farhad F. Aliyev, Prof. Nadir Agayev, "Solar radiation data analysis in Baku by using Daubechies Wavelets", International Journal of Innovation in Science and Mathematics, volume 3, issue 3, pp., 163-167, 2015. • Farhad Aliyev, N.Agayev, H. Khalilova, "Features

	of the regression modeling of solar radiation with different types of functions", Caspian Journal of Applied Mathematics, Ecology, and Economics, volume 2, pp., 110-119, 2014. • Farhad Aliyev, O. Salamov, "Determining the influence of dust and shadowing on optical and energetic characteristics of a solar collector with a two-glass transparent coverage", Power Engineering Problems Journal, volume 1, pp. 77-88, 2012.
Sevda Gasimova	Associate Professor at the Ecology Engineering Department. Chair of Environmental Engineering, senior teacher. Technological research of recycling industrial, mineral and municipal waste.
Leyla Mammadova	Associate Professor at the Ecology Engineering Department. Docent of Ecological Engineering Department. General Ecology, Ecology, Ecology of environment

Partner number		**P9**
Organisation name & acronym	Azecolab Company LLC - AEL	
F.3.1 - Aims and activities of the organisation *Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project* (limit 2000 characters).		
Azecolab is an environmental laboratory service company established in 2000 by supporting of Azerbaijan National Academy of Science, US Civilian Research Development Foundation, NATO Science for Peace program and OSCE. Azecolab Have national accreditation for lab activity and internationally accredited according ISO9001, ISO 17025, OHSAS 18001 and ISO 14001. Azecolab is independent SME, which have 2 types of activities- laboratory analytical services and environmental studies. Lab is participating in EU lab proficiency test programs and represent of Azerbaijan in regional environmental programs. Lab personnel have mastered in ASTM, EPA and ISO analytical methods in heavy metals, oil hydrocarbons, PAHs, pesticides and PCBs tests. Laboratory are equipped with top level analytical equipment as ICP-MS, ICP-OES, ion chromatograph, GC/FID, GC/ECD and GC/MS.		

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	Not applicable
Number of students	Not applicable
Number of Bachelor degrees offered	Not applicable
Number of Master degrees offered	Not applicable
Number of PhD degrees offered	Not applicable
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	Yes Tempus 543924 - Econano

F.3.2 – Role of your organisation in the project

Please describe also the role of your organisation in the project (limit 1000 characters).

Involving of project participants from university and students in practical environmental study projects, including environmental monitoring of oil/gas activity, cement industry and mining activity. Participation to training activities on pilot plants and application to case studies. Sharing of experience in lab activity and practice on equipment for environmental characterization and monitoring. Dissemination activities.

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)*

Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

Provide information on (if applicable)

List the number of existing centres/networks in your HEI	Not applicable
Is the centre to be created a new one or an update?	
If new, why is a new centre necessary? If updated, why is an updated centre necessary?	
Where will the centre be located in the institution?	
Will this infrastructure be made available to the centre after the project ends?	
How many people will be employed in the centre?	
Will the institution fund these posts after the project ends?	
How many administrative staff will be trained?	
Which procedures will be updated /introduced in the institution?	

F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment *(only for Partner Country institutions)* *Please fill in if you are applying for this type of project and define clear the activities to be held in your institution* (limit 2000 characters)

F.3.6 – Expected results and impact *(only for Partner Country institutions)*	
What are the expected tangible results from the project in your HEI?	Not applicable
How will the impact of these results be measured in your HEI?	Not applicable
What financial means and human and other resources will be provided to sustain these results after the project ends?	Lab equipment and technician for practical activities of the Training Centre.

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project	
Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Bahruz Suleymanov	PhD, International experience in EU projects, Project manager
Yelena Suleymanova	Team leader for training of project student, MSc, 10s years' experience training of environmental analytical methods for lab personnel
Rashad Hajimammadov	PhD, International experience in EU projects, team leader for spectrometric analytical methods (ICP-MS, ICP-OES)
Navai Ibadov	PhD, International experience in EU projects, team leader for chromatography analytical methods (GC/FID, GC/ECD, GC/MS)

Partner number		**P10**
Organisation name & acronym	ANALITIK LLC – AT	

F.3.1 - Aims and activities of the organisation

Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

Small Private Enterprise ANALITIK LLC is a private research and innovative enterprise. The staff of company completed from specialists in the field of chemistry, biology, environmental engineering and physics.

The main directions of science & technological activities of the company are the following:

- Organization of trainings and workshops in the field of spectroscopy, wet chemistry and new technological solutions
- Soil, Sediment and Waste analyses,
- Surface water, Ground water, Lake water, Sea water analyses,

EXPERT AND CONSULTING SERVICES

- Environmental Impact Assessment (EIA);
- Representation of expert services on environment,
- Environmental Baseline Study,

ANALITIK employs are highly skilled personnel and represents a wide spectrum of scientific and research works in following areas: development of environmental, alternative energy projects, consulting and laboratory services. As technological developed structure, ANALITIK with at least 10 permanent experienced researchers is integrated into Azerbaijan national research activities and has close relationships with Azerbaijan National Universities and National Academy of Sciences. ANALITIK participated in series of long term regional environmental projects financed by international organizations, which support scientific and environmental projects in the region (WB, UNEP, UNDP). ANALITIK has very closely collaboration with the Commission on Alternative Energy at the Ministry of Ecology and Natural Resources of the Republic of Azerbaijan and State Agency on alternative and renewable energy sources.

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	Not applicable
Number of students	Not applicable
Number of Bachelor degrees offered	Not applicable
Number of Master degrees offered	Not applicable
Number of PhD degrees offered	Not applicable
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	No

F.3.2 – Role of your organisation in the project

Please describe also the role of your organisation in the project (limit 1000 characters).

ANALITIK LLC will support of project with lab training in area spectroscopy and wet chemistry and sharing of experiences in area project development Organization of workshops and trainings on the sampling of water, soil and sediment. Dissemination activities.

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)*

Please fill in if you are applying for this type of project anddefine clear the activities to be held in your institution(limit 2000 characters)

NO	
Provide information on (if applicable)	
List the number of existing centres/networks in your HEI	Not applicable
Is the centre to be created a new one or an update?	
If new, why is a new centre necessary? If updated, why is an updated centre necessary?	
Where will the centre be located in the institution?	
Will this infrastructure be made available to the centre after the project ends?	
How many people will be employed in the centre?	
Will the institution fund these posts after the project ends?	
How many administrative staff will be trained?	
Which procedures will be updated /introduced in the institution?	
F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment*(only for Partner Country institutions)* *Please fill in if you are applying for this type of project anddefine clear the activities to be held in your institution*(limit 2000 characters)	
F.3.6 – Expected results and impact *(only for Partner Country institutions)*	
What are the expected tangible results from the project in your HEI?	Not applicable
How will the impact of these results be measured in your HEI?	Not applicable
What financial means and human and other resources will be provided to sustain these results after the project ends?	Lab equipment and technician for practical activities of the Training Centre.
F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project	
Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Mustafa Muradov	Have wide experience in area management of

PhD, Physics	International science projects(FP7, STCU), environmental projects(UNDP, WB), organization of lab trainings for industry laboratories. His role in project will be integration of ANALITIK experience with project tasks and supporting of project students training in ANALITIK LLC.
Ruslan Jafarov	He is expert in in area Optical and Atomic Absorption Spectroscopy. He will be engaged by practical training and examination of students for metals tests in soil and water samples.
Rafayil Alasov MsC, Chemist	He is expert in area sampling, sample preparation process. He will be engaged by practical training soil, water and sediment sampling. Preparation of water and soil samples for analyses according standard operation process(SOPs).
Aynure Ismailova MsC, Chemist	She is expert in area Laboratory Quality Control Procedures. She will be engaged by practical training and examination of students for Laboratory Quality Control procedures.

Partner number		**P11**
Organisation name & acronym	"Sukanal" Scientific Research and Design Institute – "Sukanal" SRDI	

F.3.1 - Aims and activities of the organisation

Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

"Sukanal" SRDI is the key scientific-research and project organization realizing preparation of feasibility study, appropriate projects for construction and rehabilitation of centralized water supply and sewerage system, wastewater treatment plants in settlements, complex engineering survey, scientific-research and investigation. Main areas of institute activity include designing of centralized water supply and sewerage systems of the settlements, feasibility study preparation, conducting complex engineering research for construction, preparation of ecological and water utility passports of offices and enterprises. The Institute has Scientific-Technical Council with wide staff. Modern research laboratory exists in the Institute for conducting the analysis of potable, waste and groundwater according to international standards. The branch of the department of Hydrometeorology of BSU and the branch of the Department of Engineering Systems and Devices of Architecture and Construction University operate in the Institute to strengthen the teaching, science and industry relationships.

Presently, wastewater of Baku is treated in Hovsan, Sahil, Buzovna, Mardakan, Shuvalan and Zig Water Treatment Plants previous to discharge into the Caspian Sea. Laboratories are functioning for monitoring treatment process in each Water Treatment Plant. Physical-chemical and bacteriological parameters of treated waste water are determined according to 91/27 EES directive adopted by the Ministry of Health of the Republic of Azerbaijan and the European Union. The following indicators are controlled during treatment process of wastewater. pH, OBT5, OKT, associated substances, coli index, oil products, surface-active substances, fats. Modern computer programs are used in all stages of designing process of institute. Group of young specialists get acquainted with water supply and sewerage plants in foreign countries, took courses and got international certificates.

Only for Partner Country institutions, please provide information on:

Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country?	2 memoranda 1. Tsotne MIRTSKHULAVA Water Management Institute of Georgian Technical University (GTU) 2. Ecocenter for Environmental Protection of Georgia
Number of students	41
Number of Bachelor degrees offered	0
Number of Master degrees offered	0
Number of PhD degrees offered	3
Have you participated in CBHE? If yes, list CBHE projects titles and reference numbers. Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles)	*No*

F.3.2 – Role of your organisation in the project

Please describe also the role of your organisation in the project (limit 1000 characters).

"Sukanal" SRDI will support of the project with scientific-research works such determination of pollution sources , assessment of the environmental impact of the wastewater , new technologies for wastewater treatments. Also, Institute will support of the project with Training and Innovation Centre for increasing the level of professionalism, knowledge and skills of students, improving their experience. The center will ensure high effectiveness of conducted courses and workshops, training in order to overcome gaps in this field and propose suggestions for these fields. The polygon situated in center's area will be used for practical repetitions. The centre has a hostel, a library and a cafeteria. The laboratory will support of project with practical seminars to define physical- chemical and bacteriological indicators of the wastewater. The scientific journal Water problems: Science and Technologies will support of project with publication of scientific and methodological articles. Printing centre" Billur" will provide students with printed materials.

F.3.4 – Modernisation of governance, management and functioning of HEIs *(only for Partner Country institutions)*

Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

No

Provide information on (if applicable)

List the number of existing centres/networks in your HEI	

Is the centre to be created a new one or an update?	
If new, why is a new centre necessary? If updated, why is an updated centre necessary?	
Where will the centre be located in the institution?	
Will this infrastructure be made available to the centre after the project ends?	
How many people will be employed in the centre?	
Will the institution fund these posts after the project ends?	
How many administrative staff will be trained?	
Which procedures will be updated /introduced in the institution?	

F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment *(only for Partner Country institutions)*
Please fill in if you are applying for this type of project and define clear the activities to be held in your institution (limit 2000 characters)

- Scientific journal named "Water problems: science and technologies" will cooperate with new Training Center, as well as will publish scientific articles of students
- Journal will cooperate with scientists and specialists acting in this project
- In addition to scientific articles, information on project will be posted in the Journal regularly
- Training and Innovation Center of Sukanal SRDI will organize trainings, workshops on wastewater sources, treatment of wastewater sources, main pollutants, analysis methods and etc. for increasing the level of professionalism of students, improve their knowledge, skills and experience
- Center will involve in education procedure scientists and specialists from Sukanal SRDI and from outside organizations. Training rooms and conference room, library, kitchen, fitness hall and bedding rooms have been established according to international standards. A polygon was organized for conducting practical repetitions
- Doctoral Studies of Institute will represent an opportunity to the students for obtaining the PhD degree in the Technology and engineering of environment, Engineering-communication systems specialties after finishing Master Course
- The Laboratory will organize practical seminar and trainings for students to define physical-chemical and bacteriological indicators of wastewater, to conduct operative, accurate and reliable analyses. The number of studied parameters of wastewater has reached 105.

F.3.6 – Expected results and impact *(only for Partner Country institutions)*

What are the expected tangible results from the project in your HEI?	• Employees of Institute will use this experience for future wastewater treatment projects • The project results will be disseminated inside and outside participating organizations, institutes • Networking (network of institutions and people

	from European countries) • Strengthen the cooperation between project partners with a view to establishing exchanges of practices • Organizing international scientific conference • Conducting workshops, trainings, workshops • Increasing the number of scientific articles
How will the impact of these results be measured in your HEI?	• Preparing evaluation and acceptance report on project results • Conducting surveys
What financial means and human and other resources will be provided to sustain these results after the project ends?	As "Azersu" OJSC, which" Sukanal SRDI" serve, is a government-supported organization, so we have stable financial support to sustain these results after the project ends

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project

Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Farda Imanov	Doctor of Science, Professor He is Hydrologist and Water Resources Specialist in Azerbaijan and the region with over 31 years of experience in hydrometeorology, information systems, environmental management, institutional and legal reform and related transboundary cooperation activities. He is chief of Hydrometeorology chair of the Baku State University and deputy director of "Sukanal" SRDI. He will be engaged by practical training and examination like: Water and public health Integrated urban water and waste water management Decision Making for Environmentally Oriented Water Resources Management Publications: 1.Imanov F.A, Ismayilov R.A. (2018) Drinking water sources in Azerbaijan and smart water treatment technologies VIII International Scientific and Technical Conference" Modern Problems of Water Management, Environmental Protection, Architecture and Construction". pp.115-117. 2.Imanov F.A., Ismayilov R.A.(2018) SMART WATER MANAGEMENT IN AZERBAIJAN: THE JEYRANBATAN ULTRA-FILTRATION WATER PURIFICATION FACILITY COMPLEX. // SMART WATER MANAGEMENT - Case Study Report. IWRA, K-water Deajeon, Koreya. p.73.

Jeyhuna Mammadova	MsC, Environmental manager She is an expert in Environmental management. She will deal teaching and researching in the field of environmental science. Main research interests are focused on Environmental Sciences, Environmental Management, Water Pollution, Water quality, Hydrology, Water Resources Management and Water Supply and Climate Changes.

Partner number		**P12**
Organisation name & acronym	ARGUS Umweltbiotechnologie GmbH; ARGUS	

F.3.1 - Aims and activities of the organisation
Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project (limit 2000 characters).

ARGUS Umweltbiotechnologie GmbH (D) was established in 1987 and is a Berlin-based SME that employs 15 engineers with high specialisations in chemistry, geology, biotechnology, process engineering, as well as staff personnel for construction and maintenance. Active since 1987, ARGUS was one of the first firms in Germany to work with microbiological means in the fields of environmental damage of soils, groundwater and waste water. Its RTD work focuses on the conception of methods to treat organic pollutants in soil and water, and on the development of new sustainable technologies in the field of food production. ARGUS co-operates closely with universities and is also funded by various programmes for its activities in the environmental sector. Over the last two years, ARGUS has conducted seven large-scale wastewater and soil remediation projects with an approximate total value of €2.4 million. ARGUS is also active in designing, producing and selling customised environmental equipment such as biofilters, oil removal systems, groundwater, waste water and soil treatment plants. ARGUS has been partner in several FP5 to FP7 programs, including INBIOSYNAP, ECOSOIL, SOLARDIST, POLYVER and ETOILE (which focused on bioethanol production via lignocellulosic fermentation of olive oil residues). Already in 1996 ARGUS constructed and designed a pilot plant of 80.000 l for anaerobic treatment of olive mill wastes (COOP).

ARGUS' facilities possess several bioreactors for scale up investigations (anaerobic fluidized bed bioreactors, anaerobic slurry bioreactors, fixed bed bioreactors), the equipment for downstream processing (microfiltration units, adsorption columns in lab and pilot scale), and a fully equipped analytical lab for all kind of organics incl. GC, HPLC, and TOC. The company is accredited by DAR for DIN EN ISO/IEC 17025:2005.

Meanwhile ARGUS had conducted more than 180 remediation sites including groundwater treatment and recovery of oil phases up to 7 m oil layer floating on groundwater. ARGUS had cleaned up several former Russian military bases.

F.3.2 – Role of your organisation in the project
Please describe also the role of your organisation in the project (limit 1000 characters).

Presentation of innovative remediation projects for groundwater cleaning and removal of oil phases including tar oil layers. Participation to teaching and training activities. Key role in the managing of case studies during students training near Eu or local laboratories. Contribution to the organization of the Conference on advanced remediation technologies. Participation to staff training at laboratory and field level. Introduction of practice on pilot and field scale plants and equipments.

F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project

Name of staff member	***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.***
Dr.-Ing. Horst Niebelschütz	Research Director at ARGUS, which he founded in 1987. A chemist by training, he gained his diploma (1977) from the Technical University of Hannover and his PhD (1982) from the Technical University of Berlin. His post-doctoral studies at the TU Berlin focused on biotechnology. He gained specific experience in fermentation technology and industrial environmental analysis. He conducted EU-funded projects on the treatment of olive wastes, which allowed him to develop an extensive network of contacts with scientists and other relevant stakeholders in the whole Mediterranean basin.
Dipl-Ing. Maren Junghans	Managing Director at ARGUS. She studied bioengineering in Hamburg and worked as a technical assistant at the Research Center GKSS, Geesthacht and Institute for Bio Process Technoloy in Berlin, before joining ARGUS in 1988. She is mainly responsible for efficiency assessment.
Dipl.-Ing. Sigrid Bunzel	Graduated from the Technical Fachhochschule Berlin in 1992 with a major in biotechnology. She joined ARGUS immediately afterwards and became manager of quality control the following year. Her principal responsibility is chemical analysis

Please see the attached letter of interest by the Ministry of Education of the Republic of Azerbaijan:

Da: "Vusala Gurbanova" <v.gurbanova@edu.gov.az>
Oggetto: FW: Re: mandate ITACA-ME
Data: 5 febbraio 2019 14:25:31 CET
A: <luca.dipalma@uniroma1.it>
Cc: "'Shahin Bayramov'" <shahin.bayramov@edu.gov.az>, "'Yashar Omarov'" <yashar.omarov@edu.gov.az>, "'Mahammadali Ramazanov'" <mamed_r50@mail.ru>

Dear Luca,

Ministry of Education of the Republic of Azerbaijan appreciates your and Mr. Ramazanov's initiatives of preparation and submission of ITACA Project (Innovative Training Centre to support a postgraduate 3rd cycle Advanced Course to face Environmental Emergency in Azerbaijan), fully supports its realization in Azerbaijan, and wishes successful application.

Best Regards,

Vusala Gurbanova
Senior Advisor
Science, Higher Education, and Secondary Professional Education Department

Ministry of Education of the Republic of Azerbaijan
AZ1008, Azerbaijan, Baku, Khatai Avenue 49
T: +994 12 599 11 55 (ext. 5383) | www.edu.gov.az

From: Mahammadali Ramazanov [mailto:mamed_r50@mail.ru]
Sent: Tuesday, February 05, 2019 10:32 AM
To: Vusala Qurbanova <v.gurbanova@edu.gov.az>
Subject: Fwd: Re: mandate ITACA-ME
Importance: High

-------- Пересылаемое сообщение --------

F.4 List of Associated Partners

(Where applicable)

Capacity-building projects can involve associated partners who contribute to the implementation of specific project tasks/activities or support the dissemination and sustainability of the project. Associated Partners cannot be responsible for core activities of the project (e.g. management, coordination, monitoring, leader of a work group etc.). ***No financial contribution from the project grant will be allocated to these organisations.***

Name of organisation	Type of institution	Website	City	Country	Role in the project	Activities and related Work Packages

Please insert rows as necessary

PART G – Impact and Sustainability

G.1 Expected impact of the project

Please explain which target groups will use the project outputs /products /results. Describe how the target groups will be reached and involved during the life of the project and afterwards and how the project will benefit the target group at local, regional, national and/or regional level. Please structure your description according to the different levels of impact and stakeholders.

#	Project results	Who will they impact at national, regional level?	How?
1	Building up of a Training Centre on environmental remediation	Universities national research centres and companies and companies, involved in environmental remediation and pollution prevention	The Training Centre will give to local Institutions, stakeholders, and national institutions, the opportunity of sharing experiences in the field and facing emerging environmental problems by using new technologies
2	Teachers trained on a new teaching methodological approach	Universities, HE system in Azerbaijan	Teachers will be trained on a new methodological approach in the field of engineering, in view of implementing of such new methodology also at a new Education Level not yet adopted in Azerbaijan.
3	Professionals trained in the field of environmental remediation	Companies involved in environmental remediation and pollution prevention	The new professionals will contribute to boots the activities of environmental remediation in Azerbaijan, by introducing new skills in the companies active in this field
4	Successful introduction in the job market of the students attending the course	Companies, Universities	The skills acquired by the professionals trained by the Training Centre will ensure them an easy employment near companies active in the field of environmental protection and remediation, or near universities (as Ph.D. students, researchers, technicians)
5	Increased number of	Universities and national	The new and strengthened

	framework agreement between Az and EU institutions	research centres	collaboration between teachers of EU and Az will increase local universities competitivity and ranking
6	Increased participation of AZ institutions in EU projects	Administrative staff and researchers of Universities and companies	The skills acquired by the administrative staff working side EU administrative staff, will give them new competences in the field trained by the Training Centre. The researchers may increase international collaborations.
7	Additional partners joining the Training Centre	Universities, companies	The results of a successful collaborations and the advantages offered by the sharing of competences will favour the request from other institutions to be included in the activities of the Training Centre

Please insert rows as necessary

Overview of short term impact indicators (during the project EU funding period)

Short term impact	Target groups/potential beneficiaries	Quantitative indicators (in numbers please)	Qualitative indicators
Achievement of an innovative methodological approach in HE in Engineering	Teachers	Degree of satisfaction of teachers involved in the new course	Change of teaching approach and methodology
Introduction of new skills in Environmental Engineering in the job market in Azerbaijan	Students	Number of students getting a job in one year after the end of the project	Satisfaction of the job market with respect the new skills
Research facilities in Environmental Engineering	All local Universities partners	Number of research projects getting benefits of equipment or instruments in the new Training Centre	Improvement of quality of the research projects using facilities of Training Centre
Analysis for the introduction of the 3rd cycle of Education in	MoEAZ and all Azerbaijan Universities	Number of AZ universities considering the introduction of the	Accreditation by MoEAZ

Environmental Engineering in Azerbaijan		new course	
Practical experience of students	Students performing a stage near an industry or a research centre	Number of students trained	Evaluation of the student ability by the host industry or research centre
Benefit of students training in EU	Students trained in EU	Degree of satisfaction of students	Knowledge of EU members and EU universities/companies
Strengthening of relationship with EU institutions	Universities in Azerbaijan	Number of agreements signed during project lifetime	Improved relationship between AZ and EU institutions
Improvement technical and scientific skills of partners	Academic and industrial partners in Azerbaijan	Number of staffs trained on research and equipment	Introduction of new technologies in the environmental field
Favouring female access to management roles	All Azerbaijanian partners	Number of women involved in the project at a high level of management	Equal opportunities
Benefit of EU companies to offer services in Azerbaijan	EU companies	Number of projects involving EU companies in Azerbaijan	Improved relationships between Az and EU companies

Please insert rows as necessary

Overview of long term impact indicators (after the projects EU funding period)

Long term impact	Target groups/potential beneficiaries	Quantitative indicators (in numbers please)	Qualitative indicators
The activity of a training centre finalized to the remediation of the polluted sites	The industrial companies and national institutions facing environmental problems	Number of contracts defined with the training centres during three years after the project end	Reduction of the pollution degree in Absheron peninsula and in the neighboured landscapes
Implementation of the proposed 3rd level Course in Engineering Az HE system	Universities in Azerbaijan	Number of Universities adopting the new education system	Implementation of the new level of education
Introduction of an innovative methodological approach in HE in the field of	Teachers	Number of Engineering courses adopting the new methodological approach in	Change of teaching approach and methodology in the field of Engineering

Engineering		Azerbaijan	
Better introduction of Azerbaijan Institutions to EU projects	Administrative staff	Participation of Azerbaijanian institutions in new EU funded projects	Improved capability of project management and organization for Az institutions
Strengthening of relationships of Az academia with industrial partners	Researchers, academic staff	Number of joint research and publications with industrial partners	Improved relationship between Academia and industry
Strengthening of relationship with stakeholders	Researchers, academic staff	Number of stakeholders partners of the Training Centre after the project	Involvement of stakeholders others than project partners in new academic initiative of the Training Centre
Improvement of collaboration between Az private and public entities and EU companies	The AZ and EU industrial companies and AZ national institutions facing environmental problems	Number of AZ private and public entities and EU companies involved in new contracts	Improved relationship between Az private and public entities and EU companies

Please insert rows as necessary

G.2 Dissemination and exploitation strategy

Please explain how the dissemination will be organised during and after the project's lifetime. Define each target group and what communication channels will be used to reach them and when.

Target Group	Means of Communication to Reach These Target Groups	When	Indicators to measure the effectiveness of the means of communication
Teachers, Researchers	Workshop In Aalborg: presentation of the new teaching methodology	1st year of the project	Number of participants, number of teachers interested in applying the new methodology
Students, teachers	3rd cycle course presentation in Baku	1st year of the project	Number of institutions participating to the event, number of students attending the event, number of application to the course

Researchers in environmental field	Conference in Granada on New technologies for remediation of polluted sites	End of the 1st year of the project	Number of attendances, number of attendances by the partners
Universities, researchers, industries and companies	Thesis dissertation	3rd year of the project	Number of institutions and companies participating to the event, attendance to the event
Stakeholders	Public conference in Baku	3rd year of the project, final event	Number of stakeholders participating to the event, overall attendance, number of presentations by Authorities and Institutions
Stakeholders, citizens	Press conferences	In occasion of 3rd cycle presentation and Public conference meeting in Azerbaijan	Number of reporters and radio or TV broadcasting represented
Stakeholders, citizens	Press release	In occasion of any meeting in Azerbaijan	Number of newspapers publishing the release
Teachers, students	Dissemination material	In occasion of any meeting in EU and Azerbaijan	Number of products distributed, number of students and teachers interested in the project (through specific questionnaires ad hoc distributed)
Graduate students in Azerbaijan	Brochures, call of application	Launch of the 3rd cycle course, 1st year of the project	Number of the institutions of the candidates, number of application to the course
Stakeholders	Project Handbook	In occasion of 3rd cycle presentation and Public conference meeting in Azerbaijan	Number of copies requested and delivered

Please insert rows as necessary

G.3 Sustainability

Explain how exploitation activities will ensure optimal use of the results within the project's lifetime and afterwards. Explain how the impact of the project will be sustained beyond its lifetime. Please list the outcomes that you consider sustainable and describe the strategy to ensure their long lasting use beyond the project's lifetime. Also explain how the results will be mainstreamed and multiplied at national/regional level. Describe the strategy foreseen to attract co-funding and other forms of non-EU support for the project.

Sustainable Outcomes	**Strategy to ensure their sustainability**	**Resources necessary to achieve this**	**Where will these resources be obtained?**
Long-time activity of the Training Centre	A Consortium will be signed by the partners of the project to manage the training centre during and after the project	The Departments of the training centre will be established on the basis of research projects contracts shared by industrial and academic partners, to ensure availability of staff, equipment and placement positions	The resources will be obtained by contracts among each project partners and by getting national and international funds of successful projects Additional interested partners will join the training Centre, sharing their facilities, and giving the opportunity of more practical placements
Joining the Training Centre by other institutions	Dissemination of project outcomes and the related benefit from partners	Staff and lab facilities from other partners	Resources by new partners from Azerbaijan and neighboured countries
Subsequent editions of the 3rd level course on environmental remediation	Dissemination of advantages offered to the students by the participation to the course (easier introduction in the job market), and to the stakeholders (opportunity to offer placement of graduated with high skill in remediation)	Achievement of funding from the MoEAz and from the enterprises joining the Centre, grant from private and institutions to offer a reduced fee to the best applicants to cover staff costs, travel costs for students, teachers and EU experts, dissemination costs.	The resources will be obtained firstly from the project partners, including MoEAz, then from the Az private and public institutions Introduction of a fee for participation, grants from enterprises joining the Centre.
Continuous involvement of EU	Signing framework agreements among	Staff and travel costs for EU experts will	Submission to national and

experts	partners, and design the Training Centre to favour its international activity and collaboration with foreign Institutions	come from successful mobility project and common research projects	international research and education calls, including ERASMUS+. Invitation of EU expert from Az universities and other institutions to give seminars in the Centre. Introduction of a fee for participation, grants from enterprises joining the Centre.
Continuous collaboration between the partners	Framework agreements will be signed by the Az and EU university partners. Implementation of common initiatives as co-tutoring Ph.D. theses.	Each partner will be invited to economically sustain the collaboration.	Each university will pay for the travelling and staff cost of their participants
Training Centre as a Contact Point for EU companies in Azerbaijan	Strengthening of relationship among public and private AZ entities and EU companies	Funding from Az Companies Association and Az Trading Institutions for organization of meetings	Grants from Az Companies Associations and Az Trading Institutions
Long-time activity of the Training Centre	A Consortium will be signed by the partners of the project to manage the training centre during and after the project	The Departments of the training centre will be established on the basis of research projects contracts shared by industrial and academic partners, to ensure availability of staff, equipment and placement positions	The resources will be obtained by contracts among each project partners and by getting national and international funds of successful projects Additional interested partners will join the training Centre, sharing their facilities, and giving the opportunity of more practical placements
Joining the Training Centre by other institutions	Dissemination of project outcomes and the related benefit	Staff and lab facilities from other partners	Resources by new partners from Azerbaijan and

	from partners		neighboured countries
Subsequent editions of the 3rd level course on environmental remediation	Dissemination of advantages offered to the students by the participation to the course (easier introduction in the job market), and to the stakeholders (opportunity to offer placement of graduated with high skill in remediation)	Achievement of funding from the MoEAz and from the enterprises joining the Centre, grant from private and institutions to offer a reduced fee to the best applicants to cover staff costs, travel costs for students, teachers and EU experts, dissemination costs.	The resources will be obtained firstly from the project partners, including MoEAz, then from the Az private and public institutions Introduction of a fee for participation, grants from enterprises joining the Centre.
Continuous involvement of EU experts	Signing framework agreements among partners, and design the Training Centre to favour its international activity and collaboration with foreign Institutions	Staff and travel costs for EU experts will come from successful mobility project and common research projects	Submission to national and international research and education calls, including ERASMUS+. Invitation of EU expert from Az universities and other institutions to give seminars in the Centre. Introduction of a fee for participation, grants from enterprises joining the Centre.
Continuous collaboration between the partners	Framework agreements will be signed by the Az and EU university partners. Implementation of common initiatives as co-tutoring Ph.D. theses.	Each partner will be invited to economically sustain the collaboration.	Each university will pay for the travelling and staff cost of their participants
Training Centre as a Contact Point for EU companies in Azerbaijan	Strengthening of relationship among public and private AZ entities and EU companies	Funding from Az Companies Association and Az Trading Institutions for organization of meetings	Grants from Az Companies Associations and Az Trading Institutions

Please insert rows as necessary

PART H - Other EU grants

*Please list the **projects** for which the organisations involved in this application have received financial support from EU programmes.*

Programme or initiative	Reference number	Beneficiary Organisation	Title of the Project
CBHE	561795-EPP-1-2015-1-IT-EPPKA2-CBHE-JP	Sapienza University of Rome	DIEGO - Development of quality system through EnerGy Efficiency cOurses
CBHE	561571-EPP-1-2015-1-IT-EPPKA2-CBHE-JP	Sapienza University of Rome	ECORED - European quality COurse system for Renewable Energy Development
CBHE	561561-EPP-1-2015-1-ES-EPPKA2 -CBHE-SP	Universidad De Sevilla	HARMONY - Development of approaches to harmonization of a comprehensive internationalization strategies in higher education, research and innovation at EU and Partner Countries
CBHE	561548-EPP-1-2015-1-ES-EPPKA2-CBHE-SP	University of Barcelona	MIMIR - Modernisation of Institutional Management of Innovation and Research in South Neighboring Countries
CBHE	561638-EPP-1-2015-1-JO-EPPKA2-CBHE-JP	German-Jordanian University	DESIRE - Development of higher Education teaching modules on the Socio-economic Impacts of the Renewable Energy implementation
CBHE	561989-EPP-1-2015-1-UK-EPPKA2-CBHE-JP	Kingston University London	FSAMP - Flight Safety and Airworthiness - a masters programme
CBHE	561854-EPP-1-2015-1-AR-EPPKA2-CBHE-JP	ISALUD Buenos Aires	LASALUS - Professionalization on Result-based Healthcare Management through Distance Education and Training Simulation
CBHE	574135-EPP-1-2016-1-PT-EPPKA2-CBHE-SP	INSTITUTO POLITECNICO DE COIMBRA	Alignment of independent quality assurance for joint degree programmes in partner countries - AIQA
CBHE	574023-EPP-1-2016-1-UK-EPPKA2-CBHE-JP	OBREAL - Barcelona	CAMINOS: Enhancing and Promoting Latin American Mobility

CBHE	573522-EPP-1-2016-1-FR-EPPKA2-CBHE-JP	Université d'Aix Marseille	European project design and management in the South Mediterranean region - EUNIT
CBHE	573967-EPP-1-2016-1-ES-EPPKA2-CBHE-JP	Universidad de las Palmas de Gran Canaria	Euro-African Network of Excellence for Entrepreneurship and Innovation - INSTART
CBHE	573708-EPP-1-2016-1-ES-EPPKA2-CBHE-JP	OBREAL - Barcelona	Modernizing and Enhancing Indian E Learning Educational Strategies - MIELES
CBHE	573665-EPP-1-2016-1-IT-EPPKA2-CBHE-JP	UNIMED	Refugees Education Support in Mena countries - RESCUE
CBHE	585781-EPP-1-2017-1-PS-EPPKA2-CBHE-JP	Birzeit University	eSCO - e-Academy to support Smart Cities Operations in Palestine
CBHE	585740-EPP-1-2017-1-AT-EPPKA2-CBHE-JP	University of Innsbruck	HEBA - High level rEnewabBle and energy efficiency mAster courses
CBHE	585779-EPP-1-2017-1-ES-EPPKA2-CBHE-JP	OBREAL - Barcelona	EQUAM-B - Enhancing Quality Assurance in India
CBHE	585694-EPP-1-2017-1-ES-EPPKA2-CBHE-SP	OBREAL - Barcelona	EQUAM-M - Enhancing Quality Assurance in Morocco
CBHE	585832-EPP-1-2017-1-ITEPPKA2-CBHE-JP	Tor Vergata University of Rome	SMALOG - Master in Smart Transport and Logistics for Cities
CBHE	586039-EPP-1-2017-1-ES-EPPKA2-CBHE-JP	University of Valladolid	WESET - Capacity Building for Wind Engineering Skills in Egypt and Tunisia
CBHE	586339-EPP-1-2017-1-ITEPPKA2-CBHE-SP	UNIMED	Amélioration de la Gouvernance dans le système de l'EnSeignement Supérieur en Tunisie - SAGESSE
CBHE	598682-EPP-1-2018-1-AR-EPPKA2-CBHE-SP	Universidad de Buenos Aires	Consensus - Latin American Consensus For The Internazionalization In Postgraduate Education
CBHE	598503-EPP-1-2018-1-IT-EPPKA2-CBHE-JP	Universita degli Studi di Roma La Sapienza	HURBE - Healthy URBan Environment: Developing Higher Education in Architecture and Construction in Bosnia and Herzegovina
CBHE	598910-EPP-1-2018-1-CO-EPPKA2-CBHE-JP	Asociacion Colombiana de Universidades	MIMIR - ANDINO - Modernisation of Institutional Management of Innovation and Research in the Andean Region

CBHE	598349-EPP-1-2018-1-IT-EPPKA2-CBHE-JP	Libera Universita di Lingue e Comunicazione IULM	PAgES - Post-Crisis Journalism in Post-Crisis Libya: A Bottom-up Approach to the Development of a Cross-Media Journalism Master Program
Strategic Partnerships	2014-1-IT02-KA200-003402	Médias Technologies Conseil / MTC sprl	COMMONS - Common spaces for collaborative learning
Strategic Partnerships	2014-1-EL01-KA203-001612	Aristotle University Thessaloniki (LP)	ARCHI-MEDES, Shaping the Architect's profile(s) for the Mediterranean and European South
Strategic Partnerships	2014-1-HR01-KA200-007181	IRENA - Istrian Regional Energy Agency (Croazia)	EH-CMap - Advanced Training on Energy Efficiency in Historic Heritage
Strategic Partnerships	2015-1-IT02-KA201-015013	Sapienza University of Rome	Education and Museum: Cultural Heritage for science learning - EDUMUSE
Strategic Partnerships	2015-1-IT02-KA201-014774	IIS Aldini Valeriani Sirani - Bologna	Science and Global Education beyond the barriers of learning difficulties - S.G.E
Strategic Partnerships	2015-1-IT02-KA203-015203	Ente per la Ricerca e la Formazione – E.RI.FO., Roma	Alliance for Mobility InComing and Outgoing - AMICO
Strategic Partnerships	2015-1-ES01-KA203-015905	Universidad de las Palmas de Gran Canaria	Strategic partnership for the Implementation of the University International Cooperation and Humanitarian Aid Network - UNICAH
Strategic Partnerships	2016-1-IT02-KA203-024430	UNIMED	inHERE - Higher Education Supporting Refugees in Europe
Strategic Partnerships	2016-1-ES01-KA204-025656	CEPA Tenerife (Centro Público de Educación de Personas Adultas Santa Cruz de Tenerife)	Apoyo a la inclusión social, a las Necesidades Específicas y la Mejora de Competencias Básicas para personas reclusas en Europa - CALYPSOS
Strategic Partnerships	2016-1-PL01-KA203-026232	Politechnika Lubelska	SURE: Sustainable Urban Rehabilitation in Europe
Strategic Partnerships	2017-1-IT02-KA204-036825	Sapienza University of Rome	ACDC - Adult Cognitive Decline Consciousness
Strategic Partnerships	2017-1-FR01-KA203-037384	Universitè Lumiere Lyon	CODES - Communication, Diversité culturelle et Solidarité

Strategic Partnerships	2017-1-TR01-KA203-046763	Sapienza University of Rome	Tac - Teaching out of classroom: Innovative teaching in dental education by flipped classroom model
Strategic Partnerships	2017-1-PL01-KA203-038527	Sapienza University of Rome	DT.Uni. - Design Thinking Approach for an Interdisciplinary University
Strategic Partnerships	2017-1-CY01-KA203-026745	Sapienza University of Rome	EPUM_ Emerging Perspectives on Urban Morphology: Researching and Learning through multiple practices
Strategic Partnerships	2018-1-IT02-KA203-048091	Sapienza University of Rome	Cultural Studies in Business
Strategic Partnerships	2018-1-IT01-KA202-006730	ITCS “Rosa Luxemburg”	Tool Vip 24
Strategic Partnerships	2018-1-NL01-KA201-039020	Stichting Anatta Foundation	Pride of Place
Strategic Partnerships	2018-1-RO01-KA203-049309	UNIVERSITY POLITEHNICA OF BUCHAREST (UPB)	Engage Students
Strategic Partnerships	2018-1-EL01-KA203-047826	Aristotle University Thessaloniki (LP)	THERMAL- Short-cycle Training Courses on Thermal Analysis in Material Science
Strategic Partnerships	2018-1-ES01-KA203-050606	Universidad Complutense de Madrid	ALCMAEON – Design a digital collection to include medical museum in the teaching of medical humanities and promote object-based learning education model
Jean Monnet	587109-EPP-1-2017-1-IT-EPPJMO-MODULE	Sapienza University of Rome	Comprehending European Citizenship and Immigration Law
Jean Monnet	587814-EPP-1-2017-1-IT-EPPJMO-CHAIR	Sapienza University of Rome	Rethinking the UE trade policy for Development
Jean Monnet	600125-EPP-1-2018-1-IT-EPPJMO-MODULE	Sapienza University of Rome	Transportation Law and Court of Justice of the European Union
ERC-2017-ADG	786572	Sapienza University of Rome	NOT A writtEn word but graphic symbols. NOTAE: An evidence-based reconstruction of another written world in pragmatic literacy from Late Antiquity to early medieval Europe.

ERC-2017-ADG	788893	Sapienza University of Rome	Algorithmic and Mechanism Design Research in Online MArkets Algorithmic and Mechanism Design Research in Online MArkets Algorithmic and Mechanism Design Research in Online Markets
ERC-2017-ADG	789058	Sapienza University of Rome	Embodied Honesty in Real World and Digital Interactions
ERC-2017-COG	771127	Sapienza University of Rome	INvention of SCRIpts and their BEginnings
ERC-2017-PoC	779751	Sapienza University of Rome	IN VIvo Cavitation Through UltraSound
ERC-2017-PoC	780333	Sapienza University of Rome	A holographic microscope for the immersive exploration of augmented micro-reality
ERC-2018-ADG	832792	Sapienza University of Rome	The mathematics of wave propagation and Maxwell equations
ERC-2018-ADG	833627	Sapienza University of Rome	Memory and Loss: Spoken Languages and Written Records in Late Antique to Early Modern Italy.
ERC-2018-ADG	833718	Sapienza University of Rome	Invention and Reconstruction of the extended Mediterranean. The role of architecture. The modern Mediterranean as a European Invention. The future Mediterranean as a Shared Reconstruction.
ERC-2018-ADG	834108	Sapienza University of Rome	Historical Archaeological Atlas of Cultures and Knowledge of ancient Mediterranean. A spatial and demographic investigation tool to unlock cultures and their dynamics
ERC-2018-ADG	834145	Sapienza University of Rome	Restart Rome
ERC-2018-ADG	834173	Sapienza University of Rome	QUANTum light spectROSCOPY: Entangling light to disentangle dynamics
ERC-2018-ADG	834228	Sapienza University of Rome	White-Box Self-Programming Mechanisms

ERC-2018-ADG	834239	Sapienza University of Rome	The Neolithic Sahara: Emergence, Evolution and Transformations of Prehistoric Pastoralism
ERC-2018-ADG	834307	Sapienza University of Rome	The Medieval Romance and the Emotions We Feel
ERC-2018-ADG	834615	Sapienza University of Rome	Synthetic photobiology for light controllable active matter
ERC-2018-ADG	834656	Sapienza University of Rome	Engravings in early italian printed books: a bibliographic tool and digital archive to highlight the engravings as illustrations of printed books
ERC-2018-ADG	835012	Sapienza University of Rome	The physics of Earthquake faulting: learning from laboratory earthquake prediCTiON to Improve forecasts of the spectrum of tectoniC failure modes: TECTONIC
ERC-2018-ADG	835124	Sapienza University of Rome	For a less bitter life
ERC-2018-ADG	835134	Sapienza University of Rome	Novel statistical physics framework for economic growth
ERC-2018-STG	802554	Sapienza University of Rome	Spectral geometric methods in practice
ERC-2018-STG	803213	Sapienza University of Rome	Hydrophobic Gating in nanochannels: understanding single channel mechanisms for designing better nanoscale sensors
ERC-2019-STG	848634	Sapienza University of Rome	Wearable Assistive Intelligence as a Neuroprosthesis for mOTor control in Parkinson's Disease
ERC-2019-STG	848639	Sapienza University of Rome	The Origins of the European Vernacular Law: Texts, Words, Ideas (11th-14th centuries)
ERC-2019-STG	850745	Sapienza University of Rome	Unprecedented searches for New Particles with NonUniversal Fermion Couplings
ERC-2019-STG	851152	Sapienza University of Rome	Driven Engineering of Crystal DEfects and Design of topological superconductors
ERC-2019-STG	851157	Sapienza University of Rome	BrEAking the preciSion fronTier at LHC and beyond with Parton Distribution Functions
ERC-2019-STG	851719	Sapienza University of Rome	Satellite Cell Neurotrophic Function: The Hidden Talent

ERC-2019-STG	851859	Sapienza University of Rome	Nanoscale dynamics of volcanic eruptions: forecasting magma failure
ERC-2019-STG	851976	Sapienza University of Rome	Secure CRyptography under Online/Offline sabotaGE
ERC-2019-STG	852057	Sapienza University of Rome	deciphering the nature of core collapse Supernovae via synergistic observations of gravitational Waves And Neutrinos
ERC-2019-STG	852607	Sapienza University of Rome	Examining the effects of digitization on cognitive processes inherent to human intelligence
ERC-2019-STG	852615	Sapienza University of Rome	An Intra-scale Multi-messenger wAy to the Galaxies and INtergalactic medium co-Evolution
ERC-2019-STG	852687	Sapienza University of Rome	Frontiers of Populism in the European Union: Bordering Practices and Europeanization in a Shifting Political Landscape.
ERC-2019-STG	853362	Sapienza University of Rome	Neurometrics for real-time decoding of human mind to make empathic environments
ERC-2019-STG	853389	Sapienza University of Rome	Secure and Private Environment for Critical InFrastructures Cooperation
ERC-2019-STG	853450	Sapienza University of Rome	Evolution of Cranial Morphology in Neanderthal and Modern Humans: An Occipital Perspective
ERC-2019-STG	853583	Sapienza University of Rome	A Novel Mechanism Regulating Cardiovascular Autophagy and Homeostasis in Physiology and Disease
ERC-2019-SyG	854247	Sapienza University of Rome	MOmentum Resolved Excitation Transmission Electron Microscope
ERC-2019-SyG	855390	Sapienza University of Rome	Words and Images en route. Textual and Visual Representations of the Mediterranean in the Middle Ages.
ERC-2019-SyG	855923	Sapienza University of Rome	ASsembly and phase Transitions of Ribonucleoprotein Aggregates in neurons: from physiology to pathology.

ERC-2019-SyG	856092	Sapienza University of Rome	Green Materials for Energy Applications
ERC-2019-SyG	856429	Sapienza University of Rome	Interaction between wind and suspension bridges: theoretical, computational, experimental analysis and validation of the models.
ERC-2019-SyG	856464	Sapienza University of Rome	Breaking the limits of hard problems: making possible the impossible
H2020-BBI-JTI-2017	792054	Sapienza University of Rome	Separation, fractionation and isolation of biologically active natural substances from corn oil and other side streams
H2020-BBI-JTI-2018	836884	Sapienza University of Rome	Unlocking the potential of Sustainable BiodegradabLe Packaging
H2020-BigDataPrize-2017	815255	Sapienza University of Rome	No title
H2020-CS2-CFP08-2018-01	831795	Sapienza University of Rome	compAct powerfUl anD reliAble piezoeleCtrIc acTuator for landing gear sYstems
H2020-ECSEL-2018-2-RIA-two-stage-1	826437	Sapienza University of Rome	Electro-Magnetic Ablation GUidance System based on real-time microwave tomography (E-MAGUS)
H2020-ECSEL-2018-2-RIA-two-stage-1	826609	Sapienza University of Rome	Signal procEssing foR ENerGy nETwork monItoring
H2020-FETFLAG-2018-03	820392	Sapienza University of Rome	Photons for Quantum Simulation
H2020-FETOPEN-1-2016-2017	801127	Sapienza University of Rome	European development of bionics vestibular implant for bilateral vestibular dysfunction
H2020-FETOPEN-2018-2019-2020-01	828978	Sapienza University of Rome	A Body Scan for Cancer Detection using Quantum Technology
H2020-ICT-2017-1	780086	Sapienza University of Rome	European Robotics League plus Smart Cities Robot Competitions

H2020-ICT-2018-2	825619	Sapienza University of Rome	A European AI On Demand Platform and Ecosystem
H2020-INFRADEV-2017-1	777431	Sapienza University of Rome	CompactLight
H2020-INFRAIA-2017-1-two-stage	731015	Sapienza University of Rome	European Lexicographic Infrastructure
H2020-INFRAIA-2017-1-two-stage	731077	Sapienza University of Rome	European Network of Fourier-Transform Ion-Cyclotron-Resonance Mass Spectrometry Centers
H2020-INFRAIA-2018-1	823914	Sapienza University of Rome	Advanced Research Infrastructure for Archaeological Data Networking in Europe - plus
H2020-INFRAIA-2018-1	824091	Sapienza University of Rome	European Research Infrastructure for Science, technology and Innovation policy Studies 2
H2020-JTI-FCH-2018-1	826193	Sapienza University of Rome	PNR for safety of hydrogen driven vehicles and transport through tunnels and similar confined spaces
H2020-JTI-IMI2-2016-10-two-stage	777500	Sapienza University of Rome	Improving the care of patients suffering from acute or chronic pain
H2020-JTI-IMI2-2016-10-two-stage	777499	Sapienza University of Rome	Functional pain biomarkers in healthy subjects and animals: standardization and pharmacological validation towards accelerated translation in analgesic drug development for better patient care
H2020-LCE-2017-RES-RIA-TwoStage	764089	Sapienza University of Rome	Advanced Biomass Catalytic Conversion to Middle Distillates in Molten Salts
H2020-LC-SC3-2018-ES-SCC	824410	Sapienza University of Rome	Geographical Islands FlexibiliTy
H2020-LC-SC3-2019-RES-TwoStages	851355	Sapienza University of Rome	Predictive and Preventative Operation and Maintenance for Remote Marine Energy Solutions

H2020-LC-SC3-2019-RES-TwoStages	851737	Sapienza University of Rome	LIgnocellulosic BIomass to biodiesel: Oleaginous Microalgae and Yeasts and as fuel Factories
H2020-LC-SC3-EE-2018	847124	Sapienza University of Rome	EUROpean GRand dataset and financing strategies for Energy Efficient iNvestments
H2020-MG-2018-TwoStages	814961	Sapienza University of Rome	Strengthening synergies between Aviation and maritime in the area of human Factors towards achieving more Efficient and resilient MODE of transportation
H2020-MG-2018-TwoStages	815001	Sapienza University of Rome	Needs, wants and behaviour of 'Drivers' and automated vehicle users today and into the future
H2020-MG-2018-TwoStages	815044	Sapienza University of Rome	Sloshing Wing Dynamics
H2020-MSCA-IF-2017	792862	Sapienza University of Rome	Fundamental physics in the era of gravitational-wave astronomy
H2020-MSCA-IF-2017	793212	Sapienza University of Rome	Understanding the role of intrinsic and extrinsic drivers of loss in species niches, to inform conservation planning under climate change
H2020-MSCA-IF-2017	793811	Sapienza University of Rome	DePICting the interior of active VOLCanoes to reduce volcanic hazards: application to the present unrest at Nevado del Ruiz (Colombia) - PICVOLC
H2020-MSCA-IF-2017	795744	Sapienza University of Rome	Ancient Saharan Art – Decoding Art through Theoretically-sounded Archive
H2020-MSCA-IF-2017	797012	Sapienza University of Rome	JUpiter Modeling Platform
H2020-MSCA-IF-2017	797655	Sapienza University of Rome	The Orosius Arabicus and the Arab Vision of the Graeco-Roman World: Researches on the Mediterranean Responsiveness
H2020-MSCA-IF-2017	799769	Sapienza University of Rome	Borelli Galaxy. Visualizing Galileo's Heritage (1635-1700 ca.)
H2020-MSCA-IF-2017	800084	Sapienza University of Rome	Insults in Italian City States.Criminal Literary History

H2020-MSCA-IF-2017	800637	Sapienza University of Rome	A Culture for the Integration. Odeia in the Cities of Asia Minor during the Second Sophistic Age (first to third cent. AD)
H2020-MSCA-IF-2018	832055	Sapienza University of Rome	Humanizing Classical Antiquity: A Comparative Analysis between Seneca's Work and Pauline Literature
H2020-MSCA-IF-2018	837404	Sapienza University of Rome	Efficiency of human Exosomes isolated from several Biliary and Liver pathologies to induce Cholangiocarcinoma insurgence in healthy Biliary Tree
H2020-MSCA-IF-2018	838793	Sapienza University of Rome	Mechanisms that maintain centromere DNA repeats stability in human cells.
H2020-MSCA-IF-2018	838915	Sapienza University of Rome	The context consonance as an interpretative driver for the resistance to innovation
H2020-MSCA-IF-2018	838917	Sapienza University of Rome	Context Information Utilization for Advancing beyond-5G Wireless Networks
H2020-MSCA-IF-2018	839192	Sapienza University of Rome	Mérida, Ancient Yucatan Archaeology: a Topographic and Urbanistic Study on the Territory of a Maya City from the Northern Lowlands
H2020-MSCA-IF-2018	839363	Sapienza University of Rome	Technological Cultures in Capuchin Monkeys: an Archeological and Behavioural exploration
H2020-MSCA-IF-2018	839602	Sapienza University of Rome	Understanding ancient urbanism: site planning and unintended consequences of the Classic Maya city as a model
H2020-MSCA-IF-2018	840265	Sapienza University of Rome	Socio-economic mechanism of mining and metallurgy in the Bronze Age
H2020-MSCA-IF-2018	841207	Sapienza University of Rome	Religious Super-Diversity in Cape Town. Dynamics of Leadership and Territorialization Through Religious Spaces in the Migration Process.
H2020-MSCA-IF-2018	841692	Sapienza University of Rome	Smart power systems protection against transient surges: professional development through research and training

H2020-MSCA-IF-2018	841876	Sapienza University of Rome	Boundary conditions on smooth and fractal surfaces
H2020-MSCA-IF-2018	842721	Sapienza University of Rome	Transnational Healing: Therapeutic Trajectories in Spiritual Trance
H2020-MSCA-IF-2018	843186	Sapienza University of Rome	Following the paths of itinerant professionals of the arts in the epigraphic sources of the Hellenistic period
H2020-MSCA-IF-2018	843489	Sapienza University of Rome	National Identity and Literature: from Rome to Italy and Europe
H2020-MSCA-IF-2018	843547	Sapienza University of Rome	Multilingual Classroom Practices for the Integration of Migrant Children in Preschools
H2020-MSCA-IF-2018	843968	Sapienza University of Rome	Exploring the link between endocannabinoids, stress and extinction of aversive memories: Implications for the treatment of post-traumatic stress disorder
H2020-MSCA-IF-2018	844034	Sapienza University of Rome	Assessing Laws In Criminal Ecological environments
H2020-MSCA-IF-2018	844320	Sapienza University of Rome	The Early History of the Codex
H2020-MSCA-IF-2018	844364	Sapienza University of Rome	Medical Treatments in Medieval Leprosaria. Exploring Healing Remedies through Dental Calculus Analysis
H2020-MSCA-IF-2018	844837	Sapienza University of Rome	Strain Engineering of Light-Emitting Nanodomes
H2020-MSCA-IF-2018	844993	Sapienza University of Rome	Beyond the Einstein theory of General Relativity
H2020-MSCA-IF-2018	845483	Sapienza University of Rome	Intrinsic and extrinsic mechanical properties of driven active suspensions
H2020-MSCA-IF-2018	845745	Sapienza University of Rome	OSTEOBIOGRAPHIES. Lives and identities of fisher-foragers of Lake Turkana in the African Humid Period.
H2020-MSCA-IF-2018	845768	Sapienza University of Rome	Chinese medicine in Africa, the reconfiguration of medical pluralism

H2020-MSCA-IF-2018	846325	Sapienza University of Rome	Cost effective sustainable process for generating energy feedstock from microalgae using industrial wastewater through biorefinery approach.
H2020-MSCA-IF-2018	846430	Sapienza University of Rome	Unraveling molecular mechanisms linking root development to nutrients availability
H2020-MSCA-IF-2018	846464	Sapienza University of Rome	Describing molecolar eosinophilic esophagitis phenotypes in children from north america and europe
H2020-MSCA-IF-2018	846856	Sapienza University of Rome	Cementochronology Unravels Seasonality in Prehistory
H2020-MSCA-ITN-2017	766311	Sapienza University of Rome	European Doctorate in ARchaeological and Cultural Heritage MATerials science
H2020-MSCA-ITN-2017	766417	Sapienza University of Rome	INternational training at the Science-Policy Interface for Researchers in Europe, for Nature
H2020-MSCA-ITN-2018	812780	Sapienza University of Rome	Active Matter: From Fundamental Science to Technological Applications
H2020-MSCA-ITN-2018	813091	Sapienza University of Rome	Age-related changes in hematopoiesis
H2020-MSCA-ITN-2018	814147	Sapienza University of Rome	Multiscale optical frequency combs: advanced technologies and applications
H2020-MSCA-RISE-2017	778234	Sapienza University of Rome	Disorders of Consciousness (DoC): enhancing the transfer of knowledge and professional skills on evidence-based interventions and validated technology for a better management of patients
H2020-MSCA-RISE-2018	823780	Sapienza University of Rome	Membrane protein integrated technologies development for drug design
H2020-MSCA-RISE-2018	823966	Sapienza University of Rome	STructural stABiLity risk assEssment

H2020-MSCA-RISE-2018	823969	Sapienza University of Rome	Raising knowledge and developing technology for the design and deployment of high-performance power transformers immersed in biodegradable fluids "BIOTRAFO"
H2020-MSCA-RISE-2018	823995	Sapienza University of Rome	European network staff eXchange for integrAting precision health in the health Care sysTems
H2020-NMBP-BIO-CN-2018	826244	Sapienza University of Rome	Electricity driven Low Energy and Chemical input Technology foR Accelerated bioremediation
H2020-NMBP-ST-IND-2018	814624	Sapienza University of Rome	Innovative and affordable service for the Preventive Conservation monitoring of individual Cultural Artefacts during display, storage, handling and transport
H2020-S2RJU-OC-2017	777564	Sapienza University of Rome	Innovative RUNning gear soluTiOns for new dependable, sustainable, intelligent and comfortable RAIL vehicles
H2020-S2RJU-OC-2017	777594	Sapienza University of Rome	Optimised Real-time Yard and Network Management
H2020-S2RJU-OC-2018	826250	Sapienza University of Rome	Measuring, monitoring and data handling for railway assets; bridges, tunnels, tracks and safety systems
H2020-SC1-2018-Single-Stage-RTD	825859	Sapienza University of Rome	Focused Ultrasound and RadioTHERapy for Noninvasive Palliative Pain Treatment in Patients with Bone Metastasis
H2020-SC1-2019-Two-Stage-RTD	847406	Sapienza University of Rome	Vascular endothelial growth factor's European Genomic Federation
H2020-SC1-2019-Two-Stage-RTD	847435	Sapienza University of Rome	Mind Improvement and Neuronal Enhancement by Real and Virtual Actions
H2020-SC1-2019-Two-Stage-RTD	847830	Sapienza University of Rome	Molecular feedback mechanisms between insulin resistance and amiloid beta production: a metabolic path to Alzheimer's disease
H2020-SC1-2019-Two-Stage-RTD	847918	Sapienza University of Rome	Preconceptional carrier screening in the European Roma population to prevent genetic disease.

H2020-SC1-2019-Two-Stage-RTD	848045	Sapienza University of Rome	A metabolomics-based approach for the screening of hepato-metabolic comorbidities in the obese pediatric population
H2020-SC1-2019-Two-Stage-RTD	848046	Sapienza University of Rome	Using personal pre-surgery gut microbiome composition for predicting weight loss and recovery from Diabetes Mellitus by bariatric surgery to direct clinical management, and a follow prevention of wei
H2020-SC1-2019-Two-Stage-RTD	848165	Sapienza University of Rome	Improving the cost effectiveness of the care of patients with heart failure by an impedanceometric edema record and early alerts, for more patientautonomy and better-informed clinical decision-making
H2020-SC1-FA-DTS-2018-1	826293	Sapienza University of Rome	Protection and privAcy of hospital and health iNfrastructures with smArt Cyber sEcurity and cyber threat toolkit for dAta and people
H2020-SC1-FA-DTS-2018-2	856625	Sapienza University of Rome	Digital Therapeutics for Person-Centric Healthcare at Home
H2020-SFS-2017-1	774652	Sapienza University of Rome	Enhancing Food Security in AFRIcan AgriCULTUral Systems with the Support of REmote Sensing
H2020-SU-DS-2018	833360	Sapienza University of Rome	Fostering the Culture of Cyber Security in Europe
H2020-SU-ICT-2018-3	857199	Sapienza University of Rome	European Quantum Key Distribution Network Test-bed
H2020-SU-INFRA-2018	832772	Sapienza University of Rome	Securing the Interdepencies of Critical Infrastructures
H2020-SU-INFRA-2018	833542	Sapienza University of Rome	deFENding Connected hEalthcare Systems
H2020-SU-SEC-2018	833319	Sapienza University of Rome	Augmented Reality for Victim Detection and Localisation
H2020-SU-SEC-2018	833405	Sapienza University of Rome	Human Factors and EU Perception

H2020-SU-SEC-2018	833870	Sapienza University of Rome	Understand the Impact of Novel Technologies, Social Media, and Perceptions in Countries Abroad on Migration Flows and the Security of the EU & Provide Validated Counter Approaches, Tools and Practices
H2020-SU-SEC-2018	833966	Sapienza University of Rome	Understanding Security Dimensions of Externally Generated Socio-Political Imaginaries of Europe
H2020-SU-SEC-2018	833974	Sapienza University of Rome	Heterogeneous data stream risk-based screening
H2020-WIDESPREAD-2018-01	857543	Sapienza University of Rome	Centre of ExcelleNce for nanophotonicS, advancEd Materials and novel crystal growth-Based technoLogiEs
H2020-WIDESPREAD-2018-03	853735	Sapienza University of Rome	Lightweight and bio-materials in eco-friendly engineering - gaining new knowledge
H2020-WIDESPREAD-2018-03	857388	Sapienza University of Rome	Twinning to strengthen research on epidemiology and public health impact of traumatic brain injuries in Europe
H2020-WIDESPREAD-2018-03	857405	Sapienza University of Rome	Epileptogenesis and Epilepsy Network: from genes, synapses and circuits to pave the way for novel drugs and strategies
H2020-WIDESPREAD-2018-03	857420	Sapienza University of Rome	Smart Data ProcESsing and SysTems of Deep INsIght
H2020-WIDESPREAD-2018-03	857537	Sapienza University of Rome	From Human Interaction to Abstract Concepts and Words: Increasing research excellence through hands-on training
H2020-WIDESPREAD-2018-03	857564	Sapienza University of Rome	Human-Robot Collaboration for Excellence
H2020-WIDESPREAD-2018-03	857612	Sapienza University of Rome	Integration of Geodetic and imAging TecHiques for monitoring and modelling the Earth's surface defoRmations and Seismic risk

H2020-WIDESPREAD-2018-03	857615	Sapienza University of Rome	Nanotechnology, Sensors and Technical Enhancement Program
ISFP-2017-AG-CSEP	812584	Sapienza University of Rome	Oltre l'orizzonte. Contro narrazioni dai margini al centro
JUST-JCOO-AG-2017	800803	Sapienza University of Rome	Transnational Protocols: A Cooperative Tool For Managing Cross-Border Insolvency
JUST-JTRA-EJTR-AG-2017	807014	Sapienza University of Rome	An EU operation to tackle gaps in cross-border cooperation of training providers.
JUST-JTRA-EJTR-AG-2018	854023	Sapienza University of Rome	Salzburg Transnational Law School
JUST-JTRA-EJTR-AG-2018	854034	Sapienza University of Rome	Training enforcement in fundamental rights
JUST-JTRA-EJTR-AG-2018	854037	Sapienza University of Rome	An EU operation to support the training of justice professionals on anti-money laundering
NFRP-2018	847441	Sapienza University of Rome	Management and uncertainties of severe accidents
REC-RDAP-GBV-AG-2017	810343	Sapienza University of Rome	PR.O.T.E.C.T. – PreventiOn, assessment and Treatment of sex offenders. A network to ExChange good practices and develop innovaTion at EU level
REC-RDAP-GBV-AG-2018	856874	Sapienza University of Rome	Preventing Sexual and Gender-Based Violence in migrant communities and strengthening support to victims in EU cities
REC-RRAC-ONLINE-AG-2018	850425	Sapienza University of Rome	Misogynist hate speech
RFCS-2017	800687	Sapienza University of Rome	DEtection of Steel DEfects by Enhanced MONitoring and Automated procedure for self-inspection and maintenance
Erasmus + Strategic Partnership	2018-1-SE01-KA203-039142	Kungliga Tekniska Hoegskolan	STEM skills and competences for the new generation of Nordic engineers
Erasmus + Strategic Partnership	2018-1-UK01-KA203-048246	University of Wolwerhampton	Health Research-Based Innovative Open Educational Resources and Tools for Lighting Design Students and Professionals

Erasmus + Strategic Partnership	2018-1-FR01-KA203-048110	Ecole Nationale Supérieure de Techniques Avancées Bretagne	Attracting diverSe Talent to the Engineering Professions of 2030
Erasmus + Strategic Partnership	KA203-2018-010	AAU	CRAFT Building links between education, research and innovation on the foundation of our shared cultural heritage
Erasmus + Strategic Partnership	KA203-2018-011	AAU	Artist-led Learning in Higher Education (ALL)
Erasmus + Capacity Building in the field of HE	598587-EPP-1-2018-1-EL-EPPKA2-CBHE-JP	Technological educational institute of Crete	Innovative Teaching Education in Mathematics
Erasmus Mundus Joint Master Degree	599291	Universitat fur Weiterbildung Krems	MAC (Media Arts and Cultures)
Erasmus Mundus Joint Master Degree	599137	Paris-Lodron universitat Salzburg	DCLead (Master in Digital Communication Leadership)
Erasmus Mundus Joint Master Degree	599317	AAU	ADVANCES (MA Advanced Development in Social Work)
Erasmus + Knowledge Alliances	600920-EPP-1-2018-1-ES-EPPKA2-KA	Fundación Universidad San Jorge	P4Work (Knowledge Alliance for Innovative Measures in Prevention of Work-Related Musculoskeletal Disorders. Prevent4Work)
Erasmus + Knowledge Alliances	601190-EPP-1-2018-1-DK-EPPKA2-KA	AAU	FLIP2G (Enhancing education and training through data-driven adaptable games in flipped classrooms)
Erasmus + Capacity Building in the field of HE	586416-EPP-1-2017-1-DK-EPPKA2-CBHE-JP	AAU	Enhancing Entrepreneurship, Innovation and Sustainability in Higher Education in Africa
Erasmus + Capacity	561884-EPP-1-2015-1-DK-	AAU	PBLMD Introducing Problem Based Learning in Moldova:

Building in the field of HE	EPPKA2-CBHE-JP		Toward Enhancing Students' Competitiveness and Employability
ERASMUS+	591991-EPP-1-2017-1-IT-EPPKA2-SSA-B	FUNDACION GENERAL UNIVERSIDAD DE GRANADA EMPRESA	EO4GEO: Towards an innovative strategy for skills development and capacity building in the space geo-information sector supporting Copernicus User Uptake
ERASMUS+	2018-1-DK01-KA202-047126	SOSU OESTJYLLAND	DEAL: DEMENTIA, EDUCATION, APPROACH, LIFE
ERASMUS+	2018-1-SK01-KA202-046271	Slovenská poľnohospodárska univerzita v Nitre	Biz4Fun - Let's have fun with business start-up
ERASMUS+	2018-1-UK01-KA201-048161		CS4ESD - Citizen Science for Education in Sustainable Development
ERASMUS+	2018-1-IT02-KA201-048443-03	LICEO SCIENTIFICO STATALE "FRANCESCO REDI"	STEMachines Project
ERASMUS+	91848-EPP-1-2017-1-EL-EPPKA2-SSA	UPAT	SEnDIng: Sector Skills Alliance for the design and delivery of innovative VET programmes to Data Science and Internet of Things professionals
ERASMUS+	1945-EPP-1-2017-1-DE-EPPKA3-SSA	STEINBEIS HOCHSCHULE BERLINGMBH	BIOS Digital Skills on Computational Biology for Health Professionals
ERASMUS+	574706-EPP-1-2016-1-ES-EPPKAI-KA	FUNDACION GENERAL UNIVERSIDAD DE GRANADA EMPRESA	Transnational Entrepreneurship and Corporate Learning:Fostering Effective Internatinalization Strategies in Academic Spin Offs
ERASMUS+	EAC/A03/2016	AFJ UNIVERSITE LIBRE DE BRUXELLES	REAMOOC: REseau Africain de developpement de MOOC pour L' Innovation pedagogique dans l'enseignement superieur
ERASMUS+	2017-1 -IT01-KA202-006084	CONSORZIO MATERAHUB INDUSTRIE CULTURALIE CREATIVE	Get Close to Opera: Training Opera Educational Area to foster Migrants Cultural Integration in Europe
ERASMUS+	585772-EPP-1-2017-1-PS-EPPKA2-CBHE-JP	AL-ISTIQLAL UNIVERSITY-PASS	TESLA:Virtual Reality as Immersive and Learning Tool in Palestinian Higher Education Institutions
ERASMUS+	2017-1-UK01-KA203-036607	GLYNDW UNIVERSITY	Internationalising Trading for Social Enterprises Sustainability

			and Education (InTSEnSE)
ERASMUS+ SPORT	2017-3336/001-001	Cyprus Sport Organisation	Good Governance enhancement through e-Learning for Sport Volunteer Board Members_GREFORM
ERASMUS+	2017-1-EL01-KA201-036255	UPAT	ASTRONOMY FOR BLIND AND DISABLED
ERASMUS+	2017-1-UK01-KA203-036607	Glyndwr University/Prifysgol	Internationalising Trading for Social Enterprises Sustainability and Education (InTSEnSE)
ERASMUS+	585797-EPP-1-2017-IT-EPPKA2-CBHE-JP	UNIVERSITA DEGLI STUDI DI BARI	NUCIF: Network de Universidades para el conocimiento y la integraziòn de frontera
ERASMUS+	2017-1UK01-KA201-036611	UNIVERSITY OF THE WEST OF SCOTLAND	Using a Games approach to TEach children about discriminatory BULLying
ERASMUS+	2017-1-EL01-KA202-036352	UPAT	Developing the Skills of COmmunity and health workers working with Refugees
ERASMUS+	(SPORTS) 2016-3719/001-001:	UPAT	DEV: Development and evaluation of guide-models mass athletics for sports in students with special needs (obese, disabled persons etc)
ERASMUS +	23542	e-Trikala SA	DEN CuPID Digital Educational Network for Cultural Projects Implementation and Direction
ERASMUS +	2015-1-IT02-KA201-015013	Sapienza University of Rome	EDMUSE Education and Museum: Cultural Heritage for science learning
ERASMUS +	2016-I-PT01-KA203-022950	INSTITUTO POLITECNICO DA GUARDA	TELESEICT:TEACHING AND LEARNING IN SPECIAL EDUCATION WITH INFORMATION AND
ERASMUS +	2016-1-CY01-KA201-017371	University of Cyprus	WORLD OF PHYSICS An innovative virtual reality educational environment for school physics education
ERASMUS +	022949	Universitatea Politehnica Din Bucuresti	VR4STEM: Virtual Reality for STEM Entrepreneurship Training
ERASMUS +	2015-1-EL01-KA201014029	UPAT	ELIOS: E-Learning Interactive Open School
ERASMUS +	2015-1-EL01-KA202-014168	IME GSEVEE	Open: Open Up entrepreneurship
ERASMUS +	001352	UPAT	Training to Farmers through

			Serious Games
ERASMUS +	2014-1-NL01-KA200-001295	Risbo B. V.	NAOS: professional capacity dealing with diversity
ERASMUS +	2015-1-IT02-KA201-015237)	Istituto Comprensivo Statale "L.Fibonacci" di Pisa	T.E.S.T Teaching experimentation in science and technology
H2020	824990	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES (CEA)	RIMA - Robotics for Infrastructure Inspection and MAintenance
H2020	826299	ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΕΡΕΥΝΑΣ ΚΑΙ ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΝΑΠΤΥΞΗΣ ΕΚΕΤΑ	AgeingatWork - Smart, Personalized and Adaptive ICT Solutions for Active Health and Productive Ageing with enhanced Workability
H2020	825196	TTY-SAATIO	TRINITY - Digital Technologies, Advanced Robotics and increased Cyber-security for Agile Production in Future European Manufacturing Ecosystem
H2020	820807	FUNDACIO EURECAT	SHAREWORK: Safe and effective HumAn-Robot cooperation toWards a better cOmpetiveness on cuRrent automation lacK manufacturing processes
H2020 RIA	822064	NTRASOFT INTERNATIONAL SA	H2020 MARKET4.0 "A Multi-sided Business Platform for plug and produce Industrial Product Service systems
H2020 Marie Curie ITN	813596	UNIVERSITEIT GENT	DurSAAM "PhD Training Network on Durable, Reliable and Sustainable Structures with Alkali-Activated Materials
H2020	817527	WAGENINGEN UNIVERSITY	MAIA - Mapping and Assessment for Integrated ecosystem Accounting
H2020-REA	732068	UPAT	GameECAR Gamification of Ecodriving behaviors through intelligent management of dynamic car and driver information
H2020-SC1	777159	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	OACTIVE Advanced personalised, multi-scale computer models preventing OsteoArthritis
HORIZON2020-ERC-	755284	UPAT	DynaCOMP Assessing compounds targeting DNA

2016-PoC			replication licensing complexes as anti-tumor agents
H2020-IND-CE	768775	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	AMABLE AdditiveManufacturABLE
H2020-IND-CE	767287	FIDIA SPA	PROGRAMS PROGnostics based Reliability Analysis for Maintenance Scheduling
H2020-IND-CE	767561	COMAU SPA	SERENA VerSatilE plug-and-play platform enabling remote pREdictive mainteNAnce
H2020-ICT	780265	UPAT	ESMERA European SMEs Robotics Applications
H2020-DS-SC7	768908	IRIS SRL	FreeWheel Lifecycle-reconfigurable Smart Mobility Platform to enable autonomous and cost-effective personalized solutions for social inclusion of disabled and elderly while leveraging AM technologies
H2020-SFS-2017-2	773950		DECIDE- Measuring, Designing and Evaluating ECo-IntensifieD European Aquaculture Systems
H2020-RIA	713514	UNIVERSIDAD DE BURGOS	ICARUS Innovative coarsening-resistant alloys with enhanced radiation tolerance and ultra-fine-grainedStructure for aerospace application
H2020-RIA	723611	VIAS Y CONSTRUCCIONES, SA	HINDCON Hybrid Industrial Construction through a 3D printing 'all-in-one' machine for large-scale advanced manufacturing and building processes
H2020-REA	691203	UPAT	ERROR A pEdiatRic dosimetRy personalized platfORm based on computational anthropomorphic phantoms
H2020-RIA	688995	Deusto Tech Energy	WASTE4THINK Moving towards Life Cycle Thinking by integrating Advanced Waste Management Systems
H2020-RIA	688900	Swedish National Road and Transport	ADASANDME Adaptive ADAS to support

		Research Institute – VTI	incapacitated drivers Mitigate Effectively risks through tailor made HMI under automation
H2020 ICT	644218	Lulea Tekniska Universitet (LTU) Sweden	AEROWORKS: Collaborative Aerial Robotic Workers
H2020-RIA	633464	Luonnonvarakeskus (LUKE), Natural Resources Institute Finland	DIABOLO: Distributed, integrated and harmonised forest information for bioeconomy outlooks»
H2020-RIA	645212	INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS (ICCS/NTUA)	NEPHELE: eNd to End scalable and dynamically reconfigurable oPtical arcHitecture for application-awarE SDN cLoud datacentErs
H2020-RIA	636966	Karlsruher Institut fuer Technologie (KIT)	ProRegio: Customer-driven design of product-services and production net works to adapt to regional market requirements»
H2020-IA	637107	KUNGLIGA TEKNISKA HOEGSKOLAN (KTH)	SYMBIO-TIC: Symbiotic Human-Robot Collaborative Assembly: Technologies, Innovations and Competitiveness
H2020-RIA	636692	UNINOVA - INSTITUTO DE DESENVOLVIMENTO DE NOVAS TECNOLOGIAS (UNINOVA)	DIVERSITY: Cloud Manufacturing and Social Software Based Contect Sensitive Product-Service Engineering Environment for Globally Distributed Enterprise
H2020-Coordination & support action	637212	EUROPEAN FACTORIES OF THE FUTURE RESEARCH ASSOCIATION AISBL (EFFRA)	FoF-Impact: Enhanced impact of the Factories of the Future PPP through technology transfer and expanded community
H2020-RIA	636862	PRIMA INDUSTRIE SPA	ICP4Life An Integrated Collaborative Platform for Managing the Product-Service Engineering Lifecycle
H2020-BG-2014-2	635340	HERIOT-WATT UNIVERSITY	MARISURF: NOVEL, SUSTAINABLE MARINE BIO-SURFACTANT / BIO-EMULSIFIERS FOR COMMERCIAL EXPLOITATION
H2020-RIA	646307	Fundacion Tecnalia Research & Innovation	PLATFORM Open Access pilot plants for sustainable industrial scale nanocomposites manufacturing based on buckypapers, doped veils and

			prepregs»
H2020-MG-2014-2015	636549	University of Bath	EXTREME Dynamic Loading - Pushing the Boundaries of Aerospace Composite Material Structures
H2020-FETOPEN-2014-2015	665238	CRANFIELD UNIVERSITY	CompInnova: An Advanced Methodology for the Inspection and Quantification of Damage on Aerospace Composites and Metals using an Innovative Approach
H2020-RIA	634453	Universitatsmedizin Greifswald Korperschaft des Offentlichen Rechts (UMG)	Euthyroid: Towards the elimination of iodine deficiency and preventable thyroid-related diseases in Europe
H2020-RIA	653706	Universiteit Utrecht	iNEXT: Infrastructure for NMR, EM and X-ray crystallography for translational research
H2020-MSCA-RISE	645756	UNIVERSITAET MUENSTER	GLYCANC: Matrix glycans as multifunctional pathogenesis factors and therapeutic targets in cancer
H2020-RIA	643607	CERTH: Ethniko Kentro Erevnas kai Technologikis Anaptyxis	MyAirCoach: Analysis modelling and sensing of both physiological and environmental factors for the customized and predictive self-management of Asthma
H2020-RIA	637081	ASOCIACION DE INVESTIGACION METALURGICA DEL NOROESTE (AIMEN)	MASHES: Multimodal spectral control of laser processing with cognitive abilities
FP7	604691	EURESCOM	FI-STAR: Future Internet Social and Technological Alignment Research
FP7-ICT	610391	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	NOTREMOR: "Virtual, Physiological and Computational Neuromuscular Models for the Predictive Treatment of Parkison's Disease"
FP7 ICT	325098: ATHENAPLUS	Istituto centrale per il catalogo unico delle biblioteche italiane	Access to cultural heritage networks for Europeana
FP7	329442	UPAT	Targeting the Keap1/Nrf2 pathway in adipose tissue for obesity prevention and treatment

FP7	607394	UPAT	SEDITRANS : Sediment transport in fluvial, estuarine and coastal environment
FP7	607851	UNIVERSITY OF SHEFFIELD	ENDURE: European Network for Durable Reinforcement and Rehabilitation Solutions
FP7	608777	TECHNOLOGY TRANSFER SYSTEM S.R.L.	PATHFINDER: European research and innovation agenda for future simulation and forecasting technologies
FP7	609147	TECHNOLOGY TRANSFER SYSTEM S.R.L.	MANUSKILLS: "Envisioning an advanced ICT-Supported Build-Up of Manufacturing Skills for the Factories of the Future"
FP7	317512	MEDIZINISCHE HOCHSCHULE HANNOVER	TECAS: Towards Tissue Engineering Solutions for Cardiovascular Surgery
FP7-NMP	310229	ARISTOTELIO PANEPISTIMIO THESSALONIKIS	SMARTONICS: Development of smart machines, tools and processes for the precision synthesis of nanomaterials with tailored properties for organic electronics"
FP7-NMP	319116	THE UNIVERSITY OF LIVERPOOL	VANESSA: Validation of Numerical Engineering Simulations: Standardisation Actions
FP7-TRANSPORT	605550	UPAT	i-VISION :"Immersive Semantics-based Virtual Environments for the Design and Validation of Human- centred Aircraft Cockpits"
FP7-ICT	611007	DAIMLER AG	INTERACT :Interactive Assembly Operations for the Human-Centered Workplaces of the Future
LIFE	LIFE16 IPE GR002	Ministry of Environment & Energy (Greece)	Integrated Actions for the Conservation and Management of Natura 2000 Sites, Species, Habitats and Ecosystems in Greece
LIFE	LIFE13 NAT/GR/000909	UPAT	ElClimA: Conservation measures to assist the adaptation of Falco eleonorae to climate change
LIFE	LIFE14	UPAT	DEBAG: ntegrated information

	GIE/GR/001127		and awareness campaign for the reduction of plastic bags in the marine environment)
LIFE	LIFE12 INF/GR/000985	MEDITERRANEAN SOS Network	LIFE - AMMOS - Integrated information campaign for the reduction of smoking related litter on beaches
H2020	654623	ARGUS Umweltbiotechnologie GmbH	waste2fuel
ETB-2012-26	031A231A	ARGUS Umweltbiotechnologie GmbH	Optisolv
FP 7	245084	ARGUS Umweltbiotechnologie GmbH	Animpol
FP 7	286601	ARGUS Umweltbiotechnologie GmbH	Aquality
FP 7	222331	ARGUS Umweltbiotechnologie GmbH	Etoile
Craft	COOP-CT-2006-032967	ARGUS Umweltbiotechnologie GmbH	Polyver
Craft	COOP-CT-2004-508442	ARGUS Umweltbiotechnologie GmbH	Ecosoil
TEMPUS	543924-TEMPUS-1-2013-1-IT-TEMPUS-JPCR	Baku State University Qafqaz University Ministry of Education of Azerbaijan Azecolab company Azerbaijan University of Architecture and Construction	ECONANO - Curriculum reform and the modernization of ecology engineering based on nanotechnology
Erasmus+ - Key Action 2 - Capacity building in the field of higher education	574099-EPP-1-2016-1-IT-EPPKA2-CBHE-SP	Baku Engineering University and other universities; Grant holder / coordinator of the project: Unıversıta Deglı Studı Dell'aquıla (Italia)	PAWER - Paving the way to interregional mobility and ensuring relevance, quality and equity of access

Erasmus+ - Key Action 2 - Capacity building in the field of higher education	573554-EPP-1-2016-1-GE-EPPKA2-CBHE-JP	Baku Engineering University and other universities; Grant holder / coordinator of the project: Ivane Javakishvili Tibilisi State University (Georgia)	PROMIG - Promoting Migration Studies in Higher Education
Erasmus+ - Key Action 2 - Capacity building in the field of higher education	561784-EPP-1-2015-1-FR-EPPKA2-CBHE-SP	Baku Engineering University and other universities; Grant holder / coordinator of the project: Université de Montpellier (France)	NİZAMİ - Restructuring and development of doctoral studies in Azerbaijan in line with requirements of European higher education area
Erasmus+ - Key Action 2 - Capacity building in the field of higher education	598342-EPP-1-2018-1- SE-EPPKA2-CBHE-JP	Baku Engineering University and other universities; Grant holder / coordinator of the project: Linkopings Universitet (Sweden)	Developing Mater programmes in Mobile Applications and Game Design at partner universities
Erasmus+ - Key Action 2 - Capacity building in the field of higher education	598218-EPP-1-2018-1- PL-EPPKA2-CBHE-JP	Politechnika Warszawska University (Poland)	Crisis and Risks Engineering for Transport Services
Erasmus+ - Key Action 2 - Capacity building in the field of higher education	561784-EPP-1-2015-1-FR-EPPKA2-CBHE-SP	Baku State University Azerbaijan State University of Languages Azerbaijan State Agrarian University Qafqaz University Ministry of Education of Azerbaijan etc. Azerbaijan National Science Academy, Nakhchivan State University, Azerbaijan University of Architecture and Construction	NIZAMI - Restructuring and development of doctoral studies in Azerbaijan in line with requirements of European higher education area

TEMPUS	544178-TEMPUS-1-2013-1-PT-TEMPUS-JPCR	Baku State University Azerbaijan University of Architecture and Construction Ministry of Education of Azerbaijan	RETHINK - Reform of Education THru International Knowledge exchange
Erasmus Mundus project	TEMPO	Baku State University Azerbaijan University of Architecture and Construction	TEMPO - Trans-European Mobility Poject on Education for Sustainble Development
TEMPUS TACIS	CD – JEP 2003-2005	Université Montpellier 1, France France Architecture School, France Montpellier School of Languedoc, France	Building economy, construction and maintenance
TEMPUS TACIS	CD – JEP -25043-2004	Azerbaijan University of Architecture and Construction, Azerbaijan Technical Univeristy, Cologne University of Applied Sciences, Germany Zuyd University of Applied Sciences, The Netherlands	Master's Degree on Energy Management in Azerbaijan
Erasmus-Mundus		Technical University of Lisbon	TEMPO Trans-European Mobility Project on Education for Sustainable Development
Erasmus-Mundus		University of Montpellier 2	Backis: between Caspian and the Black Sea Regions
Erasmus+ KA2	530340-Tempus-1-2012-1-AZ-TEMPUS-JPHES	Information Systems Management Institute, Latvia; Information Technologies Institute, Lithuania; KTH Royal Institute of Technology, Sweden;	ENOTES - ECDL National Operator and Test Centers in Azerbaijan

		University of Technology and Life Sciences, Poland; University of Alicante, Spain; MoE of the Republic of Azerbaijan; Azerbaijan State Agricultural University; Azerbaijan State Pedagogical University; Azerbaijan University; Azerbaijan University of Languages; Azerbaijan Tourism Institute; Baku Business University; Lankaran State University; Nakhchivan Private University;	
Erasmus+ KA2	543924-TEMPUS-1-2013-1-IT-TEMPUS-JPCR	Sapienza Innovation Consortium, Italy; University of Paris 13, France; University PANEPISTI MIO PATRON, Greek; MoE of the Republic of Azerbaijan, Azerbaijan University of Architecture and Construction, Qafqaz University, Azecolab Company LLC, Baku State University, Azerbaijan	ECONANO: Curriculum Reform and the Modernization of Ecology Engineering based on Nanotechnology
Erasmus+ KA2	544178-TEMPUS-1-2013-1-PT-TEMPUS-JPCR	Polytechnic Institute of Leiria, Portugal; Ministry of Education and Science of Ukraine, Ministry of Youth and Sports of Ukraine, Ukraine; University of A Coruña, Spain; Delft University of	Reform of Education THru INternational Knowledge exchange (RETHINK)

		Technology, the Netherlands; University of Paderborn, the Netherlands; Kaufmann Consulting, Germany;	
Erasmus+ KA2		University of Montpellier, France	NIZAMI - Restructuring and development o f Doctoral studies in Azerbaijan in line with the requirements of the European Higher Education Area
Erasmus+ KA2	LPEB N°561732-EPP-1-2015-1-FR-EPPKA2-CBHE-JP	National Conservatory of Arts and Crafts (CNAM), France; Gip Fipag – Public Interest Group – Training and Vocational Integration of the Academy of Grenoble, France; Tsentar Za Razvitie I Vnedryavane Na Evropeiski Praktiki Ltd - Crv ep, Bolgaria; International Telematic University UNINETTU NO – UTIU – Spain; Conservatoire national des arts et métiers - Auvergne - Rhône-Alpes (AGCNAM); University of Seville, Spain; Hochschule für Technik, Wirtschaft und Kultur Leipzig, Germany; Politecnico di Torino - Poli To, Italy; University of Pavia, Italy; 5 partners from Azerbaijan:	Professional Bachelor in open and distance learning for energy and environmental performance of buildings in the Russian Federation, China and Azerbaijan

		Azerbaijan Technical Univesity; Azerbaijan Univeristy of Architecture and Construction; Sumgait State University; Ministry of Education of the Republic of Azerbaijan; Associated Partners: Inshaat Ish LLC; 3 partners from China: Harbin Institute of Technology – HIT; Dalian University of Technology – DUT; BEIJING University of Technology – BUT; 13 partners from Russia: North-Eastern Federal University in Yakutsk (NEFU); Siberian Transport University (SGUPS); Tuvan State University (TuvSU) National Research Irkutsk State Technical University (ISTU); Far Eastern Federal University (FEFU); Yakut Municipal Civil Engineering (YAKST); Ministry of Housing and Public Utilities and Energy, Republic – MHPR ; - State Unitary Enterprise "Housing and communal services of the – Partenaire Associé ; JCS Sakhaenergo -	

		Associated partner; Joint-stock company Chukotenergo - Associated partner; Center for Energy Efficiency (CENEf); Ural State Mining University, UEMou,	
ERASMUS MUNDUS-Action 2	2013-2550/001-001-EMA2	University of Graz	JoinEU-See Penta
ERASMUS MUNDUS-Action 2	2013-2401/001/001	Universidad de Granada	Al Idrisi II
ERASMUS MUNDUS-Action 2	545716-EM-1-2013-1-CZ-ERA MUNDUS-EMA21	Masaryk University	EMAIL III
ERASMUS MUNDUS-Action 2	545674-EM-1-2013-1-RO-ERA MUNDUS-EMA21	Universitea Alexandru Ioan Cuza Din Iasi	IANUS
ERASMUS MUNDUS-Action 2	545809-EM-1-2013-1-IT-ERA MUNDUS-EMA21	Alma Mater Studiorum - Università di Bologna	AMIDILA
ERASMUS MUNDUS-Action 2	2013-2591/001-001	Carl von Ossietzky Universität, Oldenburg	EurekaSD
LLP-Erasmus	540051-LLP-1-2013-1-UK-ERASMUS-ENW	University of Gloucestershire	UE4SD: Univerity Educators for Sustainable Development
LLP-Erasmus	539547-LLP-1-2013-1-FI-ERASMUS-ENW	SAVONIA UAS	ELLAN: European Later Life Active Network
LLP-Erasmus	2013-1-ES1-ERA10-74542	Universidad de Granada	Intensive programme: BiomedTech II
LLP-Erasmus	538716-LLP-1-2013-IT-ERASMUS-EQR	Universita di Bologna	EDGES: Joint European Doctorate in Women´s and Gender Studies
LLP-Erasmus	538981-LLP-1-2013-1-BE-ERASMUS-EQMC	Katholieke Hogeschool Leuven	LEMONOC: Learning Mobility with Non-industrialised Countries
LLP-Grundtvig	539478-LLP-1-2013-1-UK-GRUNDTVIG-GMP	University of Newcastle upon Tyne	EU-Speak II: Speakers of Other Languages: Low-literate adult immigrants: Training their Teachers

LLP-Grundtvig	539730-LLP-1-2013-1-PT-GRUNDTVIG-GMP	Virtual Campus Lda.	UISEL: Ubiquitous Information for Seniors Life
LLP-Jean Monnet	542418-LLP-1-2013-1-ES-AJM-PO	Universidad de Granada	Jean Monnet Centre of Excellence in European Constitutional Law and Globalization
LLP-Leonardo da Vinci	2013-1-ES1-LEO05-66726	Universidad de Granada	STRENGTH: Structuring of work related competences in Chemical Engineering
LLP-Transversal Programme	543277-LLP-1-2013-1-IT-KA2-KA2MP	Universitá di Roma "Sapienza"	MATEL: Metalinguistic Awareness Tests in European Languages
LLP-Transversal Programme	543077-LLP-1-2013-ES-KA2-KA2MP	Universidad de Granada	ADOLL: Accessible Design for Online Language Learning
LLP-Transversal Programme	543284-LLP-1-2013-1-DE-KA2-KA2MP	Universitat Paderborn	Agnovel: Advanced Interactive Graphic Novels on Mobile Touchscreen
LLP-Transversal Programme	543030-LLP-1-2013-KA3-KA3	Kultirring in Berlin e.V.	Vidusign: Video Education and sign language
Preparatory Action: European Partnerships on Sports	C2N07-11ML-1113-0241-1	Empresa Pública para la Gestión del Turismo y del Deporte de Andalucía, S.A.	ARISTO
TEMPUS IV	544605-TEMPUS-1-2013-1-BE-TEMPUS-JPHES	Katholieke Universiteit Leuven	ARMAZEC: Developing tools for lifelong learning in Transcaucasus region: e-Learning
TEMPUS IV	543966-TEMPUS-1-2013-1-BE-TEMPUS-JPCR	Katholieke Universiteit Leuven	HETES: Higher engineering training for environmentally sustainable industrial development
TEMPUS IV	544134-TEMPUS-1-2013-1-BE-TEMPUS-SMGR	UNIKA: Network of Universities form the Capitals of Europe	UZDOC: Enhancing quality of doctoral education at Higher Education
TEMPUS IV	543820-TEMPUS-1-2013-1-JO-TEMPUS-JPHES	University of Jordan	CBPJOI: Capacity Building of Personnel in Jordanian Olive Industry
TEMPUS IV	544528-TEMPUS-1-2013-1-MA-TEMPUS-JPGR	Université Hassan 1er Settat	RECET: Renforcement des Compétences en Evaluation insTitutionnelle
ERASMUS+ KA1 EMJMD	553342-EPP-1-2014-1-FR-EPPKA1-JMD-MOB	Université Jean Monnet	COSI: Joint Master Degree in COlour in Science and Industry

ERASMUS+ KA103	2014-1-ES01-KA103-000274	University of Granada	Mobility of individuals (programme countries)
ERASMUS+ Jean Monnet	553483-EPP-1-2014-1-ES-EPPJMO-MODULE	University of Granada	Jean Monnet Module: European Union Economy
ERASMUS+ KA2 Strategic Partnership	2014-1-CY01-KA201-000295	C.C.R.S.M. Cyprus Centre for the Research and Study of Music	MUSICHILD: Mediterranean Early Childhood Music Education; raising children's musicality, evaluating music learning and enabling teachers' preparation
ERASMUS+ KA2 Strategic Partnership	2014-1-BE02-KA201-000477	TOPunt GENT vzw	TEACH: Translating and implementing Evidence based theory and Assessment into the Classroom practice to Heighten education for all
ERASMUS+ KA2 Strategic Partnership	2014-1-ES01-KA203-004496	University of Granada	Dare+: Developing All-Round Education
ERASMUS+ KA103	2015-1-ES01-KA103-013703	University of Granada	Mobility of individuals (programme countries)
ERASMUS+ KA107	2015-1-ES01-KA107-015469	University of Granada	Mobility of individuals (partner countries)
ERASMUS+ KA107	2015-2-ES01-KA107-022656	University of Granada	Mobility of individuals (partner countries)
ERASMUS+ KA2 CBHE	561654-EPP-1-2015-1-IT-EPPKA2-CBHE-JP	Universita della Calabria	ENROL: Empowering and Networking the International Relationships Offices of the Libyan University System
ERASMUS+ KA2 CBHE	561750-EPP-1-2015-1-MA-EPPKA2-CBHE-JP	University Mohammed V-Agdal	MAGIC: Regional PhD School based on Innovative HydroPlatform in Water and Environment to Enhance MAGhreb Inter-Research Centres
ERASMUS+ KA2 Strategic Partnership	2015-1-CY01-KA201-011845	Cyprus Pedagogical Institute	DiDeSu-Differentiation of instruction for teacher professional Development and students' Success

ERASMUS+ KA2 Strategic Partnership	2015-1-IT02-KA203-014786	Università di Bologna	Shift in Orality: Shaping the Interpreters of the Future, and of Today
ERASMUS+ KA2 Strategic Partnership	2015-1-UK01-KA204-013485	The University of Newcastle upon Tyne	EU-Speak 3-European Speakers of Other Languages: Low-literate adult immigrants: Training their Teachers
ERASMUS+ KA2 Strategic Partnership	2015-1-ES01-KA203-016095	Fundación Once para la Cooperación e Inclusión Social de Personas con Discapacidad - Fonce	InNetCampus
ERASMUS+ KA3	562148-EPP-1-2015-1-NL-EPPKA3-PI-FORWARD	University of Groningen	CALOHEE: Measuring and Comparing Achievements of Learning Outcomes in Higher Education in Europe
Europe for Citizens	563281-CITIZ-1-2015-1-IT-CITIZ-CIV	GEA Società Cooperativa Sociale	NEC: The New European Citizen: lights and shadows of the Union's future through the eyes of young present and future citizens
ERASMUS+ KA1 EMJMD	574436-EPP-1-2016-1-FR-EPPKA1-JMD-MOB	École des Hautes Études en Santé Publique	EuropubHealth
ERASMUS+ KA103	2016-1-ES01-KA103-023129	University of Granada	Mobility of individuals (programme countries)
ERASMUS+ Jean Monnet	574949-EPP-1-2016-1-ES-EPPJMO-CHAIR	University of Granada	Jean Monnet Chair: EIEU-Economic Integration in the European Union
ERASMUS+ KA107	2016-1-ES01-KA107-023786	University of Granada	Mobility of individuals (partner countries)
ERASMUS+ KA2 CBHE	573778-EPP-1-2016-1-IT-EPPKA2-CBHE-JP	Consorzio Interuniversitario Almalaurea	TUNED-Tunisian Network for Employability and Development of graduates' skills
ERASMUS+ KA2 CBHE	573703-EPP-1-2016-1-BE-EPPKA2-CBHE-SP	Reseau des Univertes des Capitales de l'Europe	UZDOC 2.0-Furthering the Quality of Doctoral Education at Higher Education Institutions in Uzbekistan
ERASMUS+ KA2 Strategic Partnership	2016-1-BE01-KA201-016264	Educ'Art Asbl	Art et Apprentissage
ERASMUS+ KA2	2016-1-PT01-KA203-022950	Instituto Politecnico da Guarda	TELESEICT-Teaching and Learning in Special Education with

Strategic Partnership			Information Communication Technologies
ERASMUS+ KA1 EMJMD	586565-EPP-1-2017-1-ES-EPPKA1-JMD-MOB	University of Granada	GEMMA: Master's Degree in Women's and Gender Studies
ERASMUS+ Jean Monnet	587726-EPP-1-2017-1-ES-EPPJMO-MODULE	University of Granada	EnviEU: Environment Framework for a Sustainable Europe
ERASMUS+ KA103	2017-1-ES01-KA103-035670	University of Granada	Mobility of individuals (programme countries)
ERASMUS+ KA107	2017-1-ES01-KA107-036554	University of Granada	Mobility of individuals (partner countries)
ERASMUS+ KA2 CBHE	586295-EPP-1-2017-1-ITEPPKA2-	Università degli Studi di Padova	ICMED: International credit mobility: a new challenge for the Mediterranean region
ERASMUS+ KA2 CBHE	585997-EPP-1-2017-1- MA-EPPKA2-CBHE-JP	Université Hassan 1er Settat	INSITES: Institutionnalisation Des Structures d'innovation De Transfert Et d'exploitation Du Savoir
ERASMUS+ KA2 Strategic Partnership	2017-1-ES01-KA203-038141	University of Granada	3Economy+
ERASMUS+ KA2 Strategic Partnership	2017-1-UK01-KA203-036715	University of Gloucestershire	AISAB: Applied Innovation for Students and Business
ERASMUS+ KA2 Strategic Partnership	2017-1-NL01-KA203-035211	Universitair Medisch Centrum Utrecht	PATHWAY: Clinician Scientist Training and Career
ERASMUS+ KA2 Strategic Partnership	2017-1-TR01-KA202-046148	Ankara University	Keep Lab Safety Keep You Healthy
ERASMUS+ KA104	2018-1-ES01-KA103-047173	University of Granada	Mobility of individuals (programme countries)
ERASMUS+ KA1 Learning Mobility of Individuals	599306-EPP-1-2018-1-FR-EPPKA1-JMD-MOB	Université de Lille	MITRA-Transcultural Migrations EMJMD
ERASMUS+ KA107	2018-1-ES01-KA107-048029	University of Granada	Mobility of individuals (partner countries)

ERASMUS+ KA2 CBHE	598349-EPP-1-2018-1-IT-EPPKA2-CBHE-JP	Libera Università di Lingue e Comunicazione – IULM	PAgES-Post-Crisis Journalism in Post-Crisis Libya: A Bottom-up Approach to the Development of a Cross-Media Journalism Master Program
ERASMUS+ KA2 CBHE	598434-EPP-1-2018-1-RS-EPPKA2-CBHE-JP	University of Niš – UNI	TeComp-Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences
ERASMUS+ KA2 CBHE	598807-EPP-1-2018-1-ES-EPPKA2-CBHE-JP	University of Granada	COPHELA: Cooperation in Quality Assurance for Pharmacy Education and Training between Europe and Latin America
ERASMUS+ KA2 CBHE	598839-EPP-1-2018-1-IT-EPPKA2-CBHE-JP	University of Molise (UNIMOL)	EARTH-Education, Agriculture and Resources for Territories and Heritage
ERASMUS+ KA2 Knowledge Alliances	600936-EPP-1-2018-1-PT-EPPKA2-KA	UNIVERSIDADE DA BEIRA INTERIOR	BIO-ALL-BIOHEALTH Gear Box Alliance
ERASMUS+ KA2 Knowledge Alliances	600989-EPP-1-2018-1-IT-EPPKA2-KA	UNIVERSITA DEGLI STUDI DI FOGGIA	eTOMATO-Training and Orientation for Multifunctional Agriculture enTrepreneurial Opportunities
ERASMUS+ KA2 Strategic Partnership	2018-1-UK01-KA203-047948	University of Edinburgh	DIGIPASS-Virtual Environments for Supporting Mobility under the Erasmus+ programme
ERASMUS+ KA2 Strategic Partnership	2018-1-PL01-KA203-051106	UNIWERSYTET LODZKI	AIMED-Aiming to educate by promoting the academic dimension of Erasmus+
ERASMUS+ KA3 Initiatives for policy innovation - Social inclusion through education, training and youth	604612-EPP-A-2018-1-IT-EPPKA3-IPI-SOC-IN	University of Milan-Bicocca	CLeDI-Creative learning districts for inclusion
Erasmus+ KA107	2018-1-ES01-KA107-049056	Baku Higher Oil School	KA107-UAH

Erasmus+ KA107	2018-1-EL01-KA107-047502	Baku Higher Oil School	KA107-UNIWA
Erasmus+ KA107	2018-1-PL01-KA107-049031	Baku Higher Oil School	KA107-WSB
Erasmus+ KA107	2017-1-ES01-KA107-048367	Baku Higher Oil School	KA107-UNIVA

*Please list **other EU grant proposals** submitted by your organisation, or by any partner organisation in this project proposal. For each grant application, please mention the EU Programme concerned and the amount requested.*

Programme concerned	Beneficiary Organisation	Amount requested
H2020-ERC-STG	Sapienza University of Rome	€ 1.462.080,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.163.125,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.499.500,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.826.807,56
H2020-ERC-STG	Sapienza University of Rome	€ 1.434.769,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.571.209,36
H2020-ERC-STG	Sapienza University of Rome	€ 1.474.375,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 2.889.840,24
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.809.789,64
H2020-ERC-STG	Sapienza University of Rome	€ 1.400.000,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.340,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.151.650,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.874.278,60
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.314.267,64
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.838.675,32
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.587.331,60
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.858.044,40
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.751.464,96
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.477.162,96
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.832.741,44
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.807.214,56
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.938.543,64
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.527.992,80
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.618.904,32
H2020-ERC-COG	Sapienza University of Rome	€ 1.949.831,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.867.225,12
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 2.822.552,28
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.272.170,68
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.615.657,48
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.900.477,24
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.971.795,76

H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.960.711,72
H2020-ERC-COG	Sapienza University of Rome	€ 2.000.000,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.609.947,52
H2020-MSCA-ITN-EID	Sapienza University of Rome	€ 768.809,88
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.735.000,36
H2020-MSCA-ITN-EJD	Sapienza University of Rome	€ 3.741.717,96
H2020-ERC-COG	Sapienza University of Rome	€ 1.117.854,00
H2020-ERC-COG	Sapienza University of Rome	€ 925.000,00
H2020-ERC-COG	Sapienza University of Rome	€ 1.456.107,00
H2020-ERC-COG	Sapienza University of Rome	€ 1.632.840,00
H2020-ERC-COG	Sapienza University of Rome	€ 1.575.813,00
H2020-MSCA-RISE	Sapienza University of Rome	€ 2.362.500,00
H2020-MSCA-RISE	Sapienza University of Rome	€ 1.359.000,00
H2020-MSCA-RISE	Sapienza University of Rome	€ 522.000,00
H2020-MSCA-RISE	Sapienza University of Rome	€ 652.500,00
H2020-ERC-POC	Sapienza University of Rome	€ 149.781,00
H2020-MSCA-RISE	Sapienza University of Rome	€ 1.260.000,00
H2020-MSCA-RISE	Sapienza University of Rome	€ 1.053.000,00
H2020-MSCA-COFUND-FP	Sapienza University of Rome	€ 6.372.000,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 180.277,20
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 84.138,60
H2020-ERC-ADG	Sapienza University of Rome	€ 2.475.312,00
H2020-ERC-ADG	Sapienza University of Rome	€ 1.697.725,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.500.000,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.987.500,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 168.277,20
H2020-ERC-ADG	Sapienza University of Rome	€ 1.180.875,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.373.531,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.485.625,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.495.562,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.007.710,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 180.277,20
H2020-MSCA-IF-EF-RI	Sapienza University of Rome	€ 168.277,20
H2020-ERC-ADG	Sapienza University of Rome	€ 1.756.875,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.499.419,00
H2020-ERC-ADG	Sapienza University of Rome	€ 1.946.291,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 168.277,20
H2020-ERC-ADG	Sapienza University of Rome	€ 1.919.547,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.499.197,00
H2020-MSCA-IF-EF-RI	Sapienza University of Rome	€ 180.277,20
H2020-ERC-ADG	Sapienza University of Rome	€ 2.483.943,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.060.833,00
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 244.269,00

H2020-ERC-ADG	Sapienza University of Rome	€ 2.385.000,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 180.277,20
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 262.269,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 168.277,20
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 262.269,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 180.277,20
H2020-ERC-STG	Sapienza University of Rome	€ 1.076.250,00
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 176.203,80
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 176.203,80
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 180.277,20
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 180.277,20
H2020-ERC-STG	Sapienza University of Rome	€ 1.400.469,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.498.124,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.418.625,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.367.250,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.500.000,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.497.875,00
H2020-ERC-SyG	Sapienza University of Rome	€ 7.423.206,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.455.125,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.440.000,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.403.750,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.380.375,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.499.375,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.732.898,90
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.232.922,84
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.669.471,36
H2020-MSCA-ITN-EID	Sapienza University of Rome	€ 1.018.805,40
H2020-ERC-SyG	Sapienza University of Rome	€ 7.694.299,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.881.057,76
H2020-ERC-COG	Sapienza University of Rome	€ 1.648.130,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.085.419,68
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.945.097,44
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.709.943,50
H2020-ERC-SyG	Sapienza University of Rome	€ 450.068,00
H2020-ERC-SyG	Sapienza University of Rome	€ 6.734.496,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.020.555,96
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.409.619,76
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.005.134,64
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.645.456,48
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.734.099,64
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.777.464,16
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.023.498,96
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 2.900.709,98

H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.929.440,68
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.955.574,52
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.182.185,52
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.117.557,24
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.026.912,84
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.138.864,56
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.065.407,28
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.941.919,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.955.103,64
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 2.620.058,76
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.072.947,54
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.389.607,36
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.666.528,36
H2020-MSCA-ITN-EJD	Sapienza University of Rome	€ 2.690.808,48
H2020-MSCA-ITN-EJD	Sapienza University of Rome	€ 3.750.153,12
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.817.488,96
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 4.099.310,64
H2020-ERC-COG	Sapienza University of Rome	€ 1.999.636,00
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 2.887.326,72
H2020-MSCA-ITN-ETN	Sapienza University of Rome	€ 3.712.556,88
H2020-MSCA-RISE	Sapienza University of Rome	€ 271.400,00
H2020-MSCA-ITN-EJD	Sapienza University of Rome	€ 3.895.606,84
H2020-MSCA-ITN-EID	Sapienza University of Rome	€ 787.206,60
H2020-ERC-COG	Sapienza University of Rome	€ 1.456.107,00
H2020-ERC-COG	Sapienza University of Rome	€ 1.999.012,00
H2020-ERC-COG	Sapienza University of Rome	€ 2.481.103,00
H2020-ERC-COG	Sapienza University of Rome	€ 1.781.938,00
H2020-MSCA-RISE	Sapienza University of Rome	€ 1.794.000,00
H2020-MSCA-RISE	Sapienza University of Rome	€ 1.596.200,00
H2020-ERC-POC	Sapienza University of Rome	€ 150.000,00
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 212.433,60
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 171.473,28
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 213.524,16
H2020-ERC-ADG	Sapienza University of Rome	€ 1.913.000,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 171.473,28
H2020-ERC-ADG	Sapienza University of Rome	€ 1.913.812,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.381.635,00
H2020-MSCA-IF-EF-RI	Sapienza University of Rome	€ 183.473,28
H2020-ERC-ADG	Sapienza University of Rome	€ 1.569.500,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.353.266,00
H2020-ERC-ADG	Sapienza University of Rome	€ 1.381.276,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.492.964,00
H2020-ERC-ADG	Sapienza University of Rome	€ 1.657.500,00

H2020-ERC-ADG	Sapienza University of Rome	€ 1.686.087,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.440.855,00
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 231.524,16
H2020-ERC-ADG	Sapienza University of Rome	€ 2.397.500,00
H2020-ERC-ADG	Sapienza University of Rome	€ 1.350.625,00
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 203.185,92
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 171.473,28
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 171.473,28
H2020-ERC-ADG	Sapienza University of Rome	€ 2.456.250,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 183.473,28
H2020-ERC-ADG	Sapienza University of Rome	€ 2.493.125,00
H2020-ERC-ADG	Sapienza University of Rome	€ 2.499.197,00
H2020-ERC-ADG	Sapienza University of Rome	€ 3.459.750,00
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 183.473,28
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 251.002,56
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 269.002,56
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 183.473,28
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 269.002,56
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 257.209,92
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 91.736,64
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 183.473,28
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 171.473,28
H2020-MSCA-IF-EF-CAR	Sapienza University of Rome	€ 171.473,28
H2020-MSCA-IF-EF-CAR	Sapienza University of Rome	€ 275.209,92
H2020-MSCA-IF-GF	Sapienza University of Rome	€ 249.597,12
H2020-MSCA-IF-EF-RI	Sapienza University of Rome	€ 171.473,28
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 183.473,28
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 171.473,28
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 171.473,28
H2020-MSCA-IF-EF-RI	Sapienza University of Rome	€ 183.473,28
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 171.473,28
H2020-MSCA-IF-EF-ST	Sapienza University of Rome	€ 171.473,28
H2020-ERC-STG	Sapienza University of Rome	€ 1.250.000,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.143.375,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.450.000,00
H2020-ERC-SyG	Sapienza University of Rome	€ 13.999.924,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.491.850,00
H2020-ERC-STG	Sapienza University of Rome	€ 1.450.000,00
H2020-ERC-SyG	Sapienza University of Rome	€ 5.225.125,00
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.811.875,00*
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.248.187,00*
H2020-ERC-SyG	*Sapienza University of Rome*	*€ 9.579.961,00*
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.500.000,00*

H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.016.250,00*
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.441.250,00*
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.435.000,00*
H2020-ERC-SyG	*Sapienza University of Rome*	*€ 10.963.781,00*
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.499.375,00*
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.475.000,00*
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.275.625,00*
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.478.212,00*
H2020-ERC-STG	*Sapienza University of Rome*	*€ 1.495.000,00*
H2020-ERC-SyG	*Sapienza University of Rome*	*€ 7.741.799,00*
H2020-ERC-SyG	*Sapienza University of Rome*	*€ 5.955.350,00*
EIT-KICS-2018	*Sapienza University of Rome*	*€ 0,00*
H2020-SC1-2019-Two-Stage-RTD	*Sapienza University of Rome*	*€ 19.000.000,00*
H2020-SC1-2019-Two-Stage-RTD	*Sapienza University of Rome*	*€ 2.200.000,00*
H2020-SC1-2019-Two-Stage-RTD	*Sapienza University of Rome*	*€ 4.150.000,00*
H2020-SC1-2019-Two-Stage-RTD	*Sapienza University of Rome*	*€ 5.800.000,00*
H2020-SC1-2019-Two-Stage-RTD	*Sapienza University of Rome*	*€ 5.500.000,00*
H2020-SC1-2019-Two-Stage-RTD	*Sapienza University of Rome*	*€ 17.596.899,00*
H2020-SC1-2019-Two-Stage-RTD	*Sapienza University of Rome*	*€ 20.000.000,00*
H2020-SC1-FA-DTS-2018-2	*Sapienza University of Rome*	*€ 18.020.068,25*
H2020-SU-DS-2018	*Sapienza University of Rome*	*€ 6.140.042,50*
H2020-SU-ICT-2018-3	*Sapienza University of Rome*	*€ 14.732.686,38*
H2020-SU-INFRA-2018	*Sapienza University of Rome*	*€ 7.634.000,00*
H2020-SU-INFRA-2018	*Sapienza University of Rome*	*€ 7.606.712,50*
H2020-SU-SEC-2018	*Sapienza University of Rome*	*€ 6.270.488,75*
H2020-SU-SEC-2018	*Sapienza University of Rome*	*€ 5.113.700,00*
H2020-SU-SEC-2018	*Sapienza University of Rome*	*€ 4.994.652,50*
H2020-SU-SEC-2018	*Sapienza University of Rome*	*€ 4.425.625,00*
H2020-SU-SEC-2018	*Sapienza University of Rome*	*€ 4.213.424,00*
H2020-WIDESPREAD-2018-01	*Sapienza University of Rome*	*€ 14.999.828,75*
H2020-WIDESPREAD-2018-03	*Sapienza University of Rome*	*€ 793.675,00*
H2020-WIDESPREAD-2018-03	*Sapienza University of Rome*	*€ 797.312,50*
H2020-WIDESPREAD-2018-03	*Sapienza University of Rome*	*€ 800.000,00*
H2020-WIDESPREAD-2018-03	*Sapienza University of Rome*	*€ 799.267,50*
H2020-WIDESPREAD-2018-03	*Sapienza University of Rome*	*€ 799.828,75*
H2020-WIDESPREAD-2018-03	*Sapienza University of Rome*	*€ 781.875,00*
H2020-WIDESPREAD-2018-03	*Sapienza University of Rome*	*€ 796.050,00*
H2020-WIDESPREAD-2018-03	*Sapienza University of Rome*	*€ 799.450,00*

JUST-JTRA-EJTR-AG-2018	*Sapienza University of Rome*	*€ 385.484,19*
JUST-JTRA-EJTR-AG-2018	*Sapienza University of Rome*	*€ 236.256,00*
JUST-JTRA-EJTR-AG-2018	*Sapienza University of Rome*	*€ 340.886,08*
NFRP-2018	*Sapienza University of Rome*	*€ 3.186.503,05*
REC-RDAP-GBV-AG-2018	*Sapienza University of Rome*	*€ 1.031.727,46*
REC-RRAC-ONLINE-AG-2018	*Sapienza University of Rome*	*€ 218.106,22*
Project "Capacity Building on Public Investment " with World Bank	World Bank Ministry of Education University of Siegen Azerbaijan University of Architecture and Construction	€ 10 000 000
AVICENNA VIRTUAL CAMPUS in Central Asia project Coordinated by UNESCO and supported by the European Commission	Azerbaijan University of Architecture and Construction	USD 300 000

Please insert rows as necessary.

PART I - Check List

*Please make sure that you **fully** completed each part of this application form, as follows:*

- ☒ PART D - RELEVANCE OF THE PROJECT
- ☒ PART E - QUALITY OF THE PROJECT DESIGN AND IMPLEMENTATION
  - ☒ E.4 Logical Framework Matrix
  - ☒ E.5 Workplan
  - ☒ E.6 Work packages
- ☒ PART F - Quality of the Project Team and Cooperation Arrangements
- ☒ PART G - Impact and Sustainability
- ☒ PART H - Other EU grants
- ☒ PART I - CHECK LIST