

AIRPORTS

COMPANY PROFILE AND
STATEMENT OF CAPABILITIES 2022

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1 Company Profile

About TECHNITAL

Description

TECHNITAL is a private joint stock company established more than 50 years ago (in 1964) and is one of the oldest engineering consultancy companies in Italy. Thanks to its high level of expertise, its dynamic nature and versatility, management autonomy and efficiency and its sophisticated hardware equipment and software libraries, the Company has been awarded large scale international and national projects by major public and private entities and by international funding organizations.

TECHNITAL's headquarters are situated in Verona, Italy. The organization abroad includes 15 between branches and subsidiaries in Algeria, Armenia, Bosnia & Herzegovina, Croatia, Djibouti, Georgia, Iraq, Kenya, Poland, Qatar, Tanzania, Trinidad & Tobago, Tunisia, Uruguay and Zambia and a number of local offices which is continuously changing according to the on-going international projects (at the moment there are 4 local site offices).

Services

TECHNITAL is a dynamic company whose sectors of activity cover transport infrastructure (roads and motorways, railways, inland waterways, urban transport, ports and airports), hydraulics (water treatment and desalination plants, dams, aqueducts, sewerage systems, waste water treatment), maritime and coastal engineering, environment, energy (incineration and waste to energy plants, hydroelectric plants, solar plants, biogas plants), waste treatment (recycling plants, dump sites), buildings, architecture and urban planning.

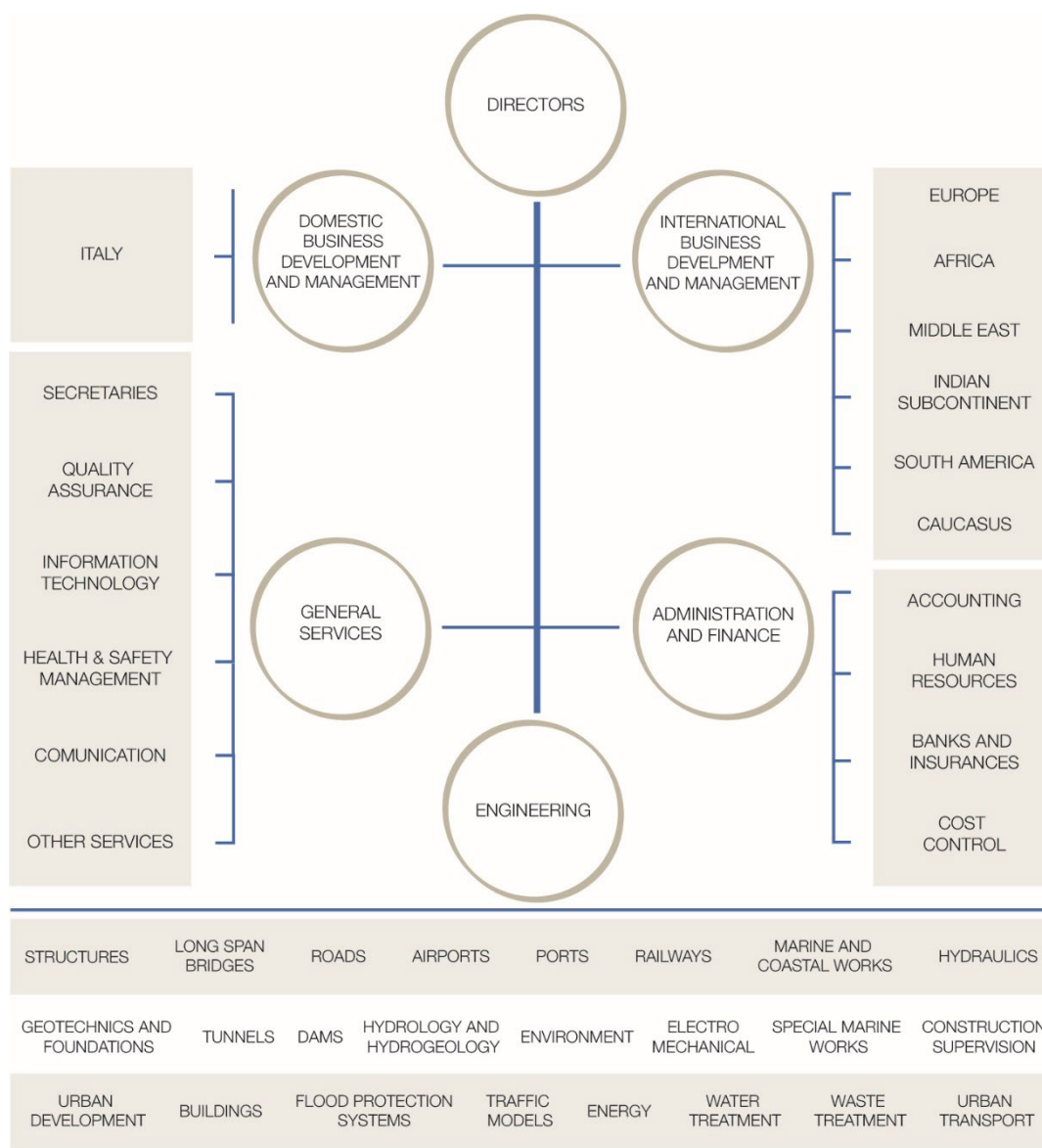
The company covers the full range of services, from planning and feasibility studies through to detailed design, works supervision and technical assistance:

- } project management
- } planning and economic-financial evaluation of investments
- } feasibility studies and technical-economic evaluations
- } all levels of design
- } environmental impact assessment and studies
- } traffic studies
- } procurement and assistance with tenders
- } construction supervision, quality assurance, testing and commissioning
- } co-ordination and supervision of research and laboratory tests
- } development of hydrodynamic and hydrogeological analysis and simulations
- } development and application of analysis methods and computer modelling.

TECHNITAL has worked in several countries world-wide: Afghanistan, Albania, Algeria, Angola, Argentina, Armenia, Australia, Austria, Bahamas, Benin, Bolivia, Bosnia & Herzegovina, Brazil, Bulgaria, Burkina Faso, Burundi, Cayman Islands, Colombia, Croatia, Cuba, Cyprus, Czech Republic, Djibouti, Dominican Republic, Egypt, Ethiopia, Georgia, Germany, Ghana, Greece, Guatemala, Hungary, India, Iraq, Italy, Jordan, Kenya, Kosovo, Libya, Madagascar, Malawi, Malaysia, Mali, Mauritania, Monaco, Montenegro, Mozambique, Nicaragua, Niger, Norway, Panama, Peru, Poland, Qatar, Republic of Haiti, Romania, Russia, Rwanda, Saudi Arabia, Senegal, Slovenia, Somalia, Spain, Sudan, Syria, Tanzania, Togo, Trinidad & Tobago, Turkey, Uganda, Ukraine, U.A.E., United Kingdom, U.S.A., Uruguay, Venezuela, Yemen, Zambia.

Organization and staffing

TECHNITAL's multidisciplinary staff is organized according to the following chart:



TECHNITAL's multidisciplinary staff includes about 200 professional employees covering the various aspects of the engineering services: Transport, Hydraulics, Geotechnical, Marine & Coastal, Environmental Studies & Territorial Analysis, Structures, Electronic Data Processing & Systems Analysis, Quantity Surveying & Cost Estimation, Electromechanics, BIM/CAD/CAE, Works Supervision, etc.

Whenever required for the solution of specific problems, the home group is integrated by external consultants and specialists, both Italian and foreign. Seeking assistance and advice from colleagues, scientists, and academics throughout the world is part of TECHNITAL's policy of aiming for excellence.

Given the firm's considerable international experience, TECHNITAL's staff are perfectly at ease working in the main international languages (English, French, Spanish) and using international engineering codes (BS, ASTM, AASHTO, ASME, API and the like) and contract conditions (FIDIC and others).

Quality control

TECHNITAL's activity is certified by ISO 9001:2015 Quality System Management. The company is also certified by ISO 14001: 2015 Environmental Quality Management and by ISO 45001:2018 Occupational Health and Safety Management System.

TECHNITAL has developed a company policy regarding quality control which is constantly being updated and applied, taking into account the costs to be sustained to achieve the objectives of quality and maximum benefit for both the Company and the Client. Thanks to its Quality Control System, TECHNITAL is capable of guaranteeing the quality of its services and of ensuring the Client that these services satisfy the required quality standards.

Code of Ethics

Ethical and responsible decision making is very important for the company in terms of risk management and in order to keep actions within the ethical and legal boundaries.

For that reason, the company is adopting a Code of Ethics (available from the web site of the company) and conduct for its Executives and Directors and for all the Employees able to fulfill requirements for responsible decision taking. Such code aims at reducing the possibility of stepping outside behavioral limits set by the company.

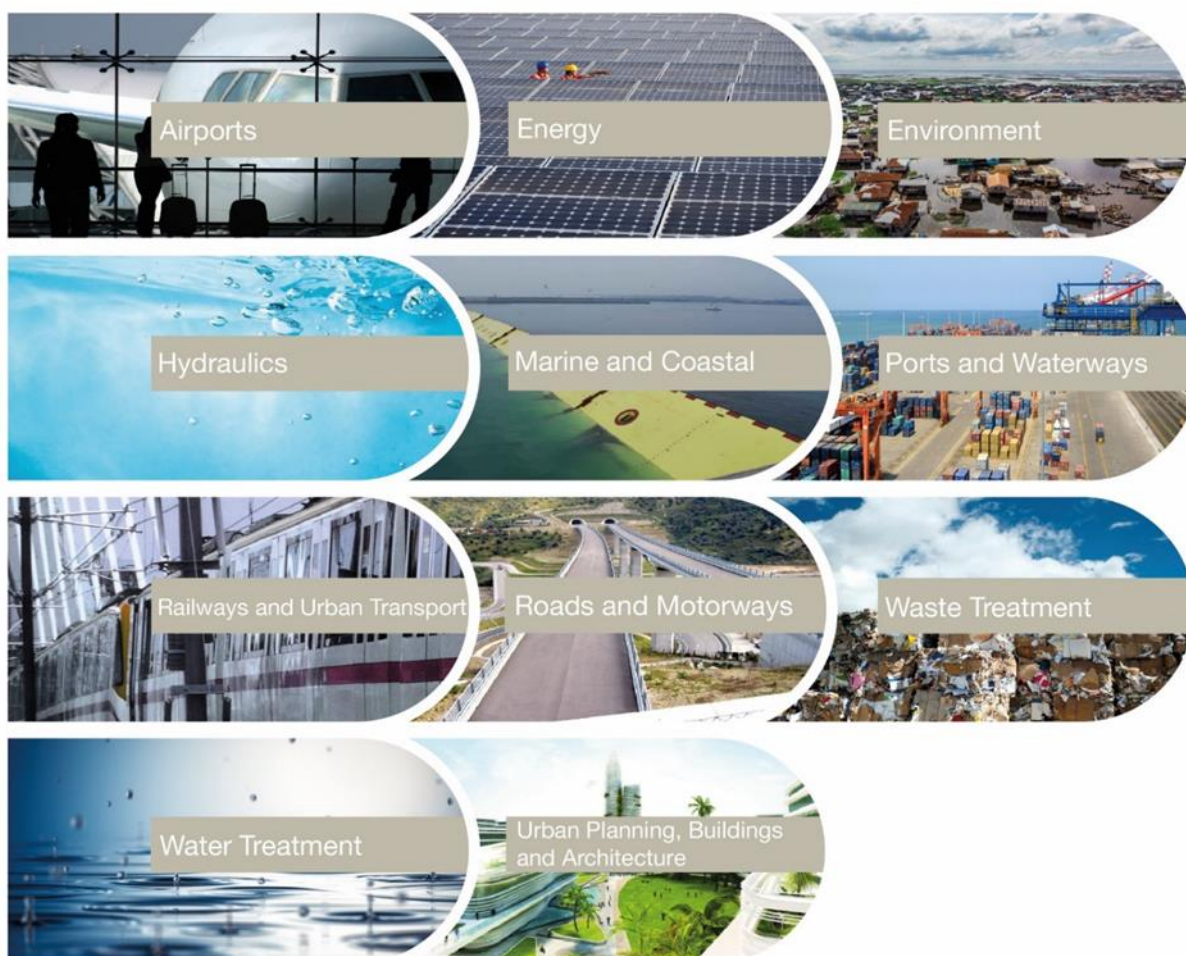
The Code of Ethics the company is adopting also meets the Organization, Management and Control Model pursuant to Italian Legislative Decree n. 231/2001.

Sectors of Specialization

TECHNITAL provides high-quality consultancy services in different areas of specialization: Roads and Motorways, Railways and Urban Transport, Airports, Ports and Waterways, Marine and Coastal Engineering, Environmental Engineering, Urban Planning, Buildings and Architecture, Hydraulic Engineering, Water Treatment, Waste Treatment, Energy.

In each of these sectors, TECHNITAL provides innovative project solutions to Government Agencies, International Financial Institutions and Private Sector Organizations.

Services provided by TECHNITAL include master plans, feasibility studies, techno-economical evaluations, traffic studies, mathematical and physical modeling, all phases of design from concept to detailed design, environmental impact studies and monitoring plans, tender document preparation and assistance in the procurement of works, construction supervision.



2 Our Experience

Experience in Airports

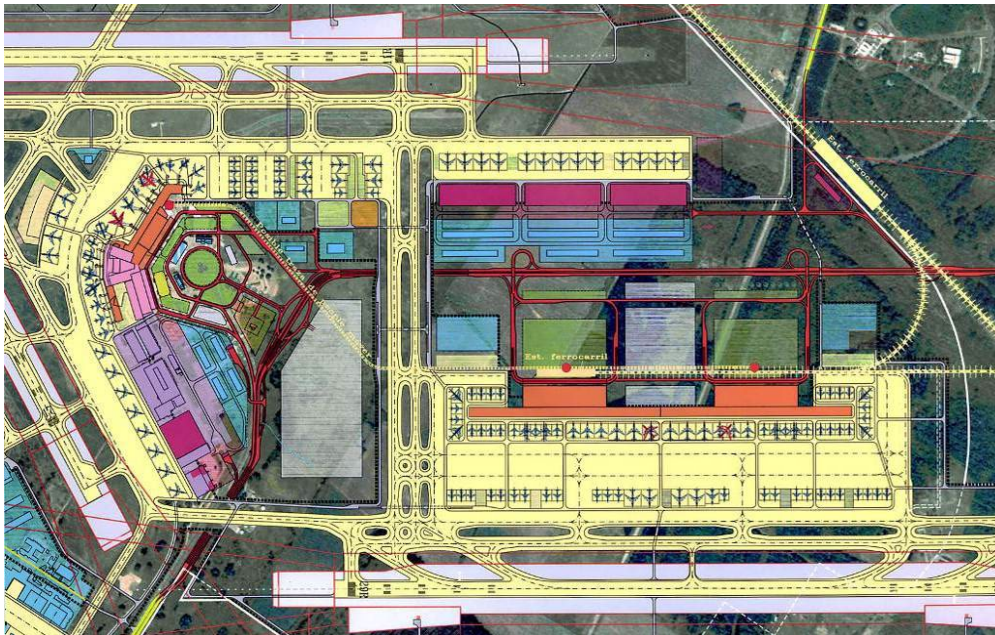
TECHNITAL has a vast international experience in all engineering consultancy services related to air transport providing state-of-the-art solutions for civil and military airports and air transport in general which dates back to the 1970s.

Airport engineering is a multi-disciplinary sector which incorporates many aspects such as traffic, logistics, environment, architecture, structures, operations, geotechnical and pavement engineering, drainage, and special systems (aeronautical navigation and surveillance, aircraft ground handling, processing of passengers and their baggage).

TECHNITAL provides integrated tailor-made engineering services for land-side and air-side facilities, ranging from technical-economic feasibility studies, infrastructures planning, concept/preliminary and detailed/final design, preparation of technical specifications and tender documents, up to construction management and works supervision. TECHNITAL's expertise covers a full range of engineering and architectural consultancy services including electrical and mechanical systems.

Airport master planning is a fundamental tool in determining future requirements for airports, and provides the comprehensive vision for short, medium and long-term infrastructures development. TECHNITAL has developed master plans in several Countries: Argentina (16 airports), Uruguay (Montevideo), Bosnia Herzegovina (Sarajevo), Peru (Lima), Armenia (Yerevan), Italy (Malpensa, Linate, Agrigento, Salerno, Alghero), Djibouti, Russia (Raduzhny) and the study of the Master Plans for the Romanian Airports under the European Union's Phare Programme.

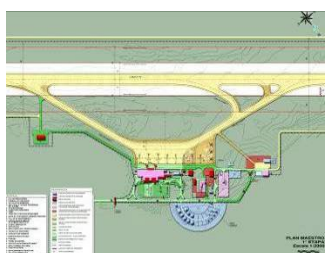
In this field, TECHNITAL has carried out among other the **study of integrated airport system in Buenos Aires and the Master Plan of its 2 airports, Ezeiza and Aeroparque**, in Argentina.



Master Plan of Ezeiza International Airport (Buenos Aires) – Terminal Areas

Also in Argentina, TECHNITAL has developed the **Master Plans of Cordoba and of 13 minor Argentinian airports**: Bariloche, Comodoro Rivadavia, Iguazu, Mar del Plata, Mendoza, Paranà, Rio Cuarto, Villa Reynolds, General Pico, Reconquista, Formosa, Catamarca, Rio Grande. In Uruguay, for the **Montevideo Carrasco International Airport**, TECHNITAL

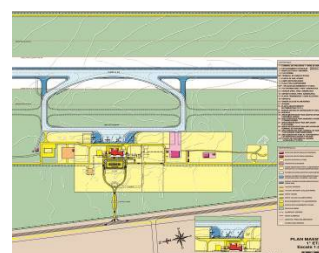
performed a comparative study for 6 alternative Master Plans including passengers and cargo new terminals.



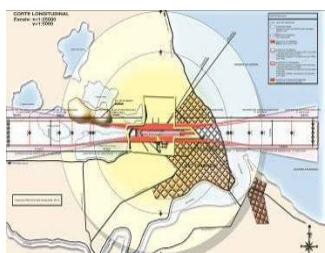
Iguazu Master Plan



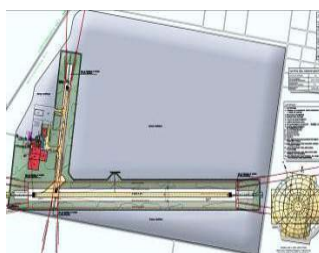
Mar del Plata Master Plan



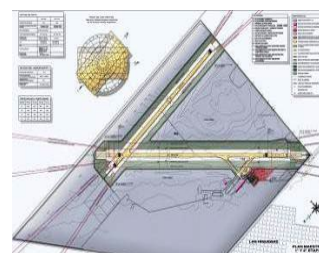
Catamarca Master Plan



Rio Grande Master Plan



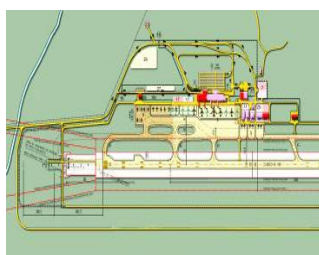
Reconquista Master Plan



Rio Cuarto Master Plan



Mendoza Master Plan



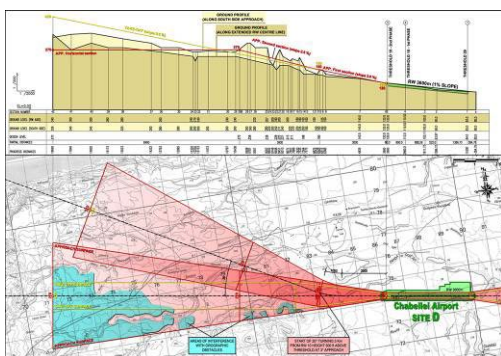
Bariloche Master Plan



Comodoro Master Plan

Master Plans of 13 Argentinian Airports

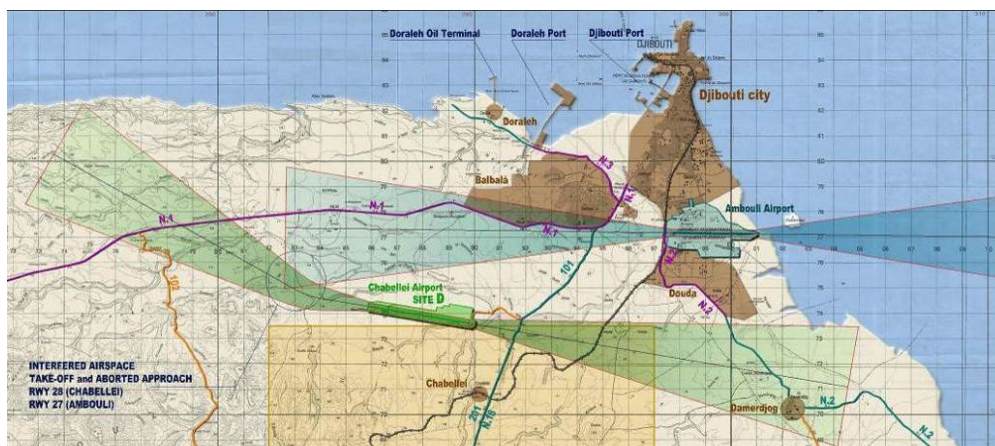
The planning phase may involve specific studies on the optimal airport positioning which take into account the possible alternatives in terms of catchment areas, earthworks, terrestrial links, airspace, obstacles, ranges, runway orientation, costs, future development, constraints, etc. Such studies were performed, for example, for the airports of **Djibouti** and **Agrigento** (Italy).



Approach and take-off orographic obstacles

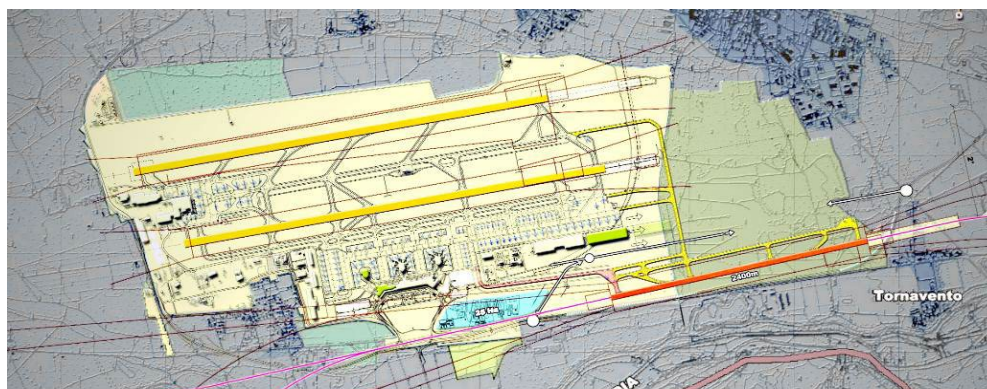


Djibouti New Airport aerial view



Airspace – Interfered airspace take-off and aborted approach

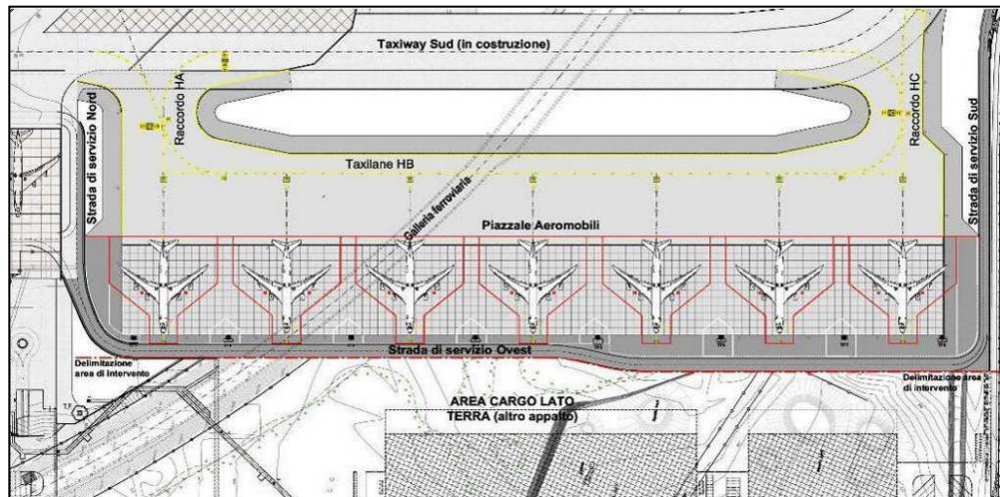
In the case of the 3rd runway of the **Milan Malpensa Airport** (Italy), the main objective was to reduce the noise impact on surrounding communities. Various hypotheses, parallel and transverse runway, adopting various criteria, were studied and compared to select the best option.



Airside engineering regards flight infrastructure (either new runways, taxiways and aprons or rehabilitation/improvement of existing facilities) and airfield special systems (airfield ground lighting and navigational aids etc.). TECHNITAL provides complete civil engineering services for airside infrastructure from concept design up to tender support and works supervision. Since airside infrastructure often has to be built whilst the airport is still operational, special attention is paid to ensure that all deadlines and targets are met.

TECHNITAL has carried out airside infrastructure projects in many countries, among other Argentina, Uruguay (Montevideo), Italy (Verona, Malpensa, Vicenza, Agrigento, Foggia), Madagascar (Nosy Be), Romania (Bucharest), Bosnia and Herzegovina (Sarajevo), Afghanistan (Herat).

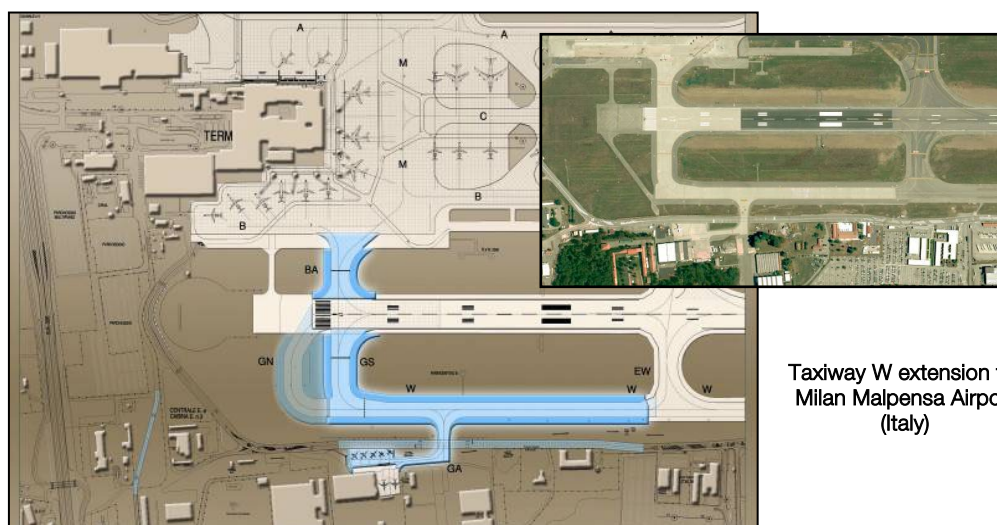
Among major projects are **Montevideo Airport** (preliminary to detailed design for the upgrade of runways, apron, drainages and visual aids), **Milan Malpensa Airport** (final and detailed design of the new cargo apron, including 142,100 m² concrete and bituminous paving and A.G.L. systems; final and detailed design of 70,240 m² taxiway W extension, new taxiways GS and BA, including visual aids and drainage system, General Aviation apron, and service roads), **Verona Airport** (design and works supervision of taxiways and other airside facilities).



New cargo apron of Milan Malpensa Airport



Works supervision of airside infrastructure at Verona Airport



Taxiway W extension for Milan Malpensa Airport (Italy)

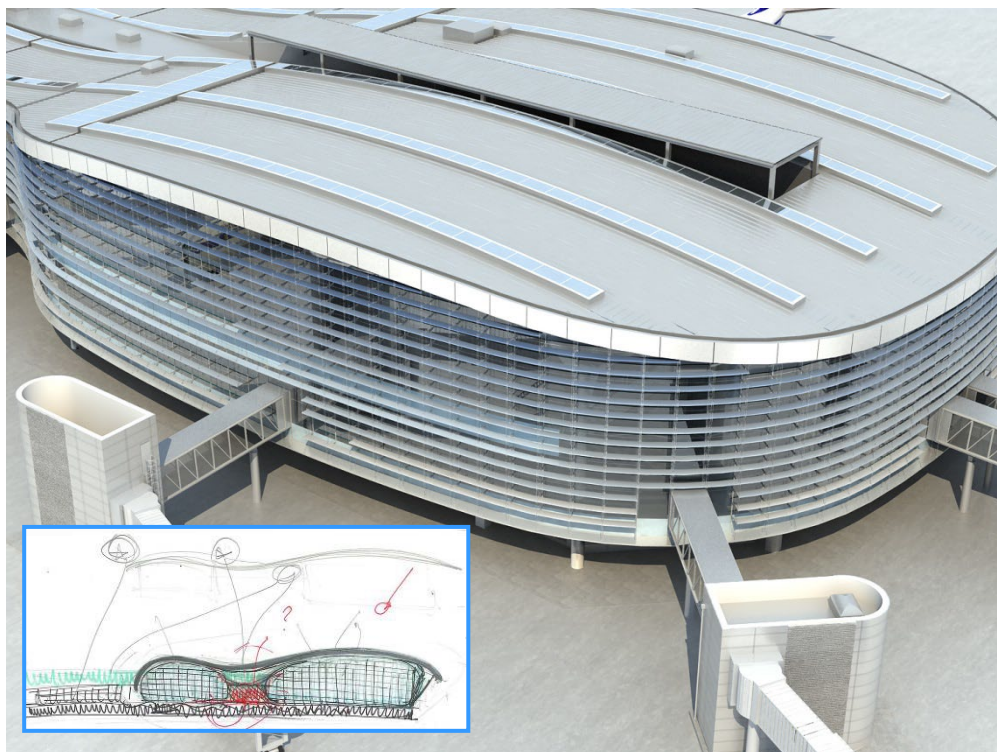
With regard to integrated design of airport buildings, especially, but not limited to, passenger's terminals, TECHNITAL's experience covers all levels of planning and design of civil works and MEP systems: from concept/preliminary design (terminal sizing and layout, aircraft apron layout, with or without boarding bridge) through to final and detailed design. Consultancy services have been provided in several countries among which: Romania (Bucharest), Armenia (Yerevan), Italy (Malpensa, Bergamo, Verona, Bari, Foggia, Bergamo), Albania (Tirana), Uruguay (Montevideo), Argentina (Buenos-Aires), Bosnia and Herzegovina (Sarajevo).

Among the most relevant assignments, TECHNITAL has carried out the design of Phase 3 rehabilitation and extension works for **Bucharest Otopeni Airport in Romania**. The project includes various terminal buildings, the control tower, a multi-level parking, baggage handling buildings, hangars, apron, taxiway, technical systems. The whole system of 3 Buildings (Departure Terminal, Arrival Terminal and Finger) is extended as a consequence of Romania's entry in Schengen area and to accommodate annual passenger traffic of 6 million in service category B (IATA classification). This involves (pictured below): 1) extension of the Finger Building (from 8,000 m² to 25,000 m²) and modification of the existing Fingers; 2) doubling of the Departure Terminal (from 19,500 m² to 39,000 m²); 3) restructuring of the Arrivals Terminal; 4) a new passenger parking.



3rd Phase of rehabilitation and extension works for Bucharest Otopeni Airport – Romania

The new arrival/departure terminal building of Otopeni was awarded in 2011 the European Award for Steel Structures assigned by ECCS (European Convention for Constructional Steelworks).



New Finger of Bucharest Otopeni Airport – Romania

TECHNITAL has designed many other airport buildings, among which the expansion of the terminals at Bergamo Orio al Serio (Italy), Verona Catullo (Italy), Montevideo (Uruguay) and Djibouti.



Concept design of expansion of Passengers Terminal of Bergamo Orio al Serio Airport – Italy

Services provided for airport buildings include tender support, technical assistance and works supervision.



Construction supervision of terminal buildings at Marco Polo Airport in Venice – Italy

TECHNITAL has also carried out several projects related to land-side roads and parking, among other: multi-level car parking and at-grade car parking at the Bucharest Otopeni Airport (Romania), at-grade car parking lot of the Milan Malpensa Airport (Italy), access roads and car-parks of the Bari Palese Airport (Italy) and of the Milan Linate Airport (Italy).



Multi-level car parking of Bucarest Otopeni Airport

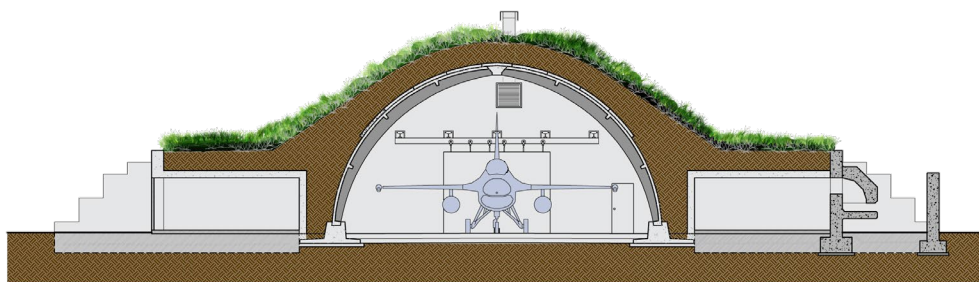


At-grade car parking of Milano Malpensa Airport

TECHNITAL has also gained a long experience in military bases design.

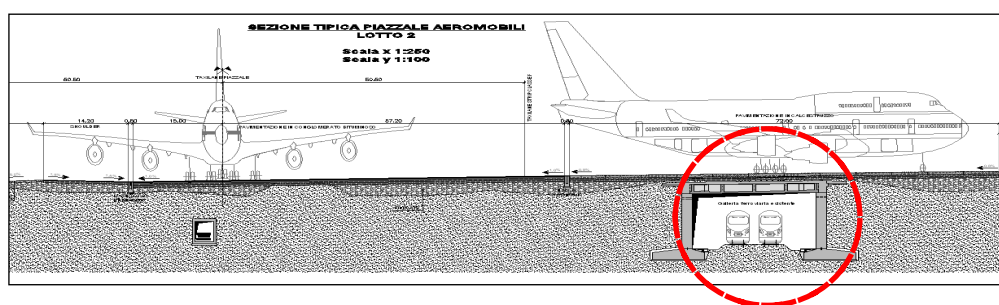
In Italy: Aviano (Aircraft Aprons, Runway, Taxiways, Electronic laboratory with EMP protection), Cameri (Engine workshop, semi-hardened SPBF - Squadron Pilot Briefing Facility), Cervia (AMX aircraft Maintenance hangar and workshop, semi-hardened SPBF), Crotona (NATO air base – redeployment 401 tactical fighter wing), Ghedi (Electronic laboratory with EMP protection, Ammunition igloo depot, refuelling and recovery Shelters MEF - Mine Enemies Fall), Gioia del Colle (shelters MEF), Istrana (Maintenance hangar and workshop), Montichiari (Ammunition igloo depot), Piacenza (Air base adjustment for the Tornado aircraft, Special aeronautic materials hardened Storage, semi-hardened SPBF, Electronic laboratory with EMP protection), Poggio Ballone (semi-hardened SPBF), Poggio Renatico (semi-hardened SPBF), Rimini (Shelters MEF), Thiene (New Visual Aids and new Flight facilities), Treviso (AMX aircraft Maintenance hangar and workshop, Housing building), Villafranca (Shelters MEF, semi-hardened SPBF).

Abroad: Ali al Salem air base - Kuwait (hardened aircraft shelters), Poland (16 hardened aircraft shelters to accommodate 3rd generation NATO aircrafts), Russia (russian aircraft shelters upgrade to meet Nato 3rd generation aircraft shelters), Al-Udeid air base - Qatar.



3rd generation NATO hardened aircraft shelters

With regard to railway/mass transit systems serving airports, TECHNITAL has carried out among other two projects for the Milan Malpensa Airport (new railway station in front of terminal T2, and railway link between terminals T1 and T2, and underground railway tunnel under the cargo apron), and for the Bari Palese Airport (2 railway-stations, 1 transit building and railway link) in Italy.



Underground railway tunnel of Milano Malpensa Airport (Italy)

Other significant projects in the airport sector include:

- ⌋ Trieste Airport – Air-side pavements, access roads and parking, control tower and operational services building, water supply, sewage, visual aids, lighting – Italy
- ⌋ Ancona Airport - Air-side pavements, access roads and parking, water supply, and sewage system – Italy
- ⌋ Bergamo Airport - Air-side pavements and visual aids, water supply, drainage, sewage system, fire and rescue building and first aid and Fire Brigade building – Italy
- ⌋ Khartoum Airport – All airport infrastructures – Sudan
- ⌋ Taranto Manduria Airport – Passengers and Cargo Terminals and runway enlargement – Italy
- ⌋ Herat Airport – Feasibility Study for the upgrade to ICAO standards - Afghanistan
- ⌋ New Logar Airport – Feasibility Study - Afghanistan
- ⌋ New Nangharar Airport – Feasibility Study - Afghanistan
- ⌋ Pisa Airport – Apron and access roads – Italy
- ⌋ Rimini Airport – Apron, access roads, lighting, water supply, sewage system – Italy
- ⌋ Barcelona Milazzo Airport – Feasibility Study for a Class A airport – Spain
- ⌋ Verona Villafranca Airport – Air-side pavements, new passenger terminal, fire and rescue building, water supply, sewage system, visual aids, lighting, access roads and parking - Italy
- ⌋ Vicenza Airport – Master plan in order to open to civil air traffic (3 alternatives) – Italy

Services provided by TECHNITAL include:

1. Consulting
 - } Technical-economic feasibility studies
 - } Time and cost analyses
 - } Socio-economic analyses
 - } Transportation system planning

2. Design
 - } Preliminary and final design of infrastructures for both land-side and air-side, including primarily civil and military airports
 - } Preliminary and final architectural design
 - } Preliminary and final design of electrical and mechanical installations
 - } Technical specifications, contracts, construction planning, cost estimates
 - } Tender documents preparation

3. Supervision
 - } Construction management and supervision
 - } Technical assistance during tender phase
 - } Works supervision

The following table and related project sheets give full details of the main projects performed in this field.

TABLE A – COMPANY’S EXPERIENCE (For titles in **bold** type see project sheets in Appendix A)

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
AIRPORTS						
Consultancy Services for Feasibility Study for Nangahar International Airport - Afghanistan	Afghanistan Civil Aviation Authority (ACAA)	11/2019	08/2021	Feasibility Study, Preliminary Design	781,000	180,000,000
Consultancy Services for Feasibility Study for Logar International Airport - Afghanistan	Afghanistan Civil Aviation Authority (ACAA)	05/2019	08/2021	Feasibility Study, Preliminary Design	804,197	195,000,000
Requalification of the Taxiway “Tango” and Other Air-Side Facilities at “Valerio Catullo” Airport – Italy	Aeroporto Valerio Catullo di Verona Villafranca S. p. A	06/2015	06/2019	Preliminary and Detailed Design, Supervision of Construction Works of taxiway and other airside facilities	682,031	14,155,000
Consultancy Services for Feasibility Study for Herat International Airport - Afghanistan	Afghanistan Civil Aviation Authority (ACAA)	05/2018	02/2019	Feasibility Study	746,992	39,000,000
Design and Construction supervision for the expansion of the northern aircraft apron of Orio al Serio airport- Italy	S.A.C.B.O. S.p.A.	05/2017	01/2019	Detailed and Final Design; Works Supervision	530,000	15,575,000
New international airport of Djibouti – Republic Djibouti	Ministry of Equipment & Transport	12/2010	05/2011	Pre-Feasibility Study of new airport	Pro bono, estimated cost of services € 220,000	Confidential
International Airport of Milan Malpensa - New Cargo Apron	S.E.A. S.p.A.	01/2008	04/2010	Final and Detailed Design	255,000	21,700,000

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
Airport railway Stations and railway link between Bari Palese Airport and Bari Town Center - Italy	DEC - Degennaro Costruzioni, in association with IPA Precast	09/2008	06/2009	Detailed Design	700,000	52,212,000
Development Plan and Design of the General Aviation Area of Milan-Linate Airport - Italy	ATA – Ali Trasporti Aerei S.p.A.	08/2007	04/2009	Development Plan, Preliminary and Final Design	275,000	30,139,000
Hydrologic, Geotechnical and Hydraulic Studies and Campaign for Pontecagnano Airport – Italy	Aeroporto di Salerno S.p.A.	07/2007	08/2008	Hydrologic, geotechnical and hydraulic studies	90,000	4,290,000
New underground Railway Tunnel for the new cargo city of Milan Malpensa Airport – Italy	S.E.A. S.p.A.	06/2006	01/2008	Detailed Design	145,380	12,900,000
Taxiway W extension for Milan Malpensa international airport - Italy	S.E.A. S.p.A.	01/2005	12/2007	Final and Detailed Design	236,110	11,490,000
Development of Zwartnots International Airport (Yerevan): Technical Assistance - Armenia	Armenia International Airports – CJSC - EBRD	07/2006	06/2007	Technical Assistance	80,000	n.a.
Master Plan of Pontecagnano Airport – Italy	Giorgiofossa S.A.S.	10/2006	02/2007	Master Plan, Economic and Financial Plan	59,400	28,020,000
New Military Al-Udaid Airbase - Qatar	Rizzani De Eccher SpA	11/2003	04/2006	Master Plan, Preliminary, Final and Detailed Design	972,800	Confidential
Technical Assistance for New Airport of Agrigento Valle dei Templi - Italy	Aeroporto Agrigento Valle dei Templi S.p.A	01/2005	11/2005	Technical Assistance, Preliminary Design	n.a.	n.a.

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
Airside Infrastructures of New Airport of Agrigento Valle dei Templi - Italy	Aeroporto Agrigento Valle dei Templi S.p.A.	09/2003	09/2004	Final Design	231,000	63,000,000
New Airport of Agrigento Valle dei Templi, serving Southern-central Sicily - Italy	Aeroporto Agrigento Valle dei Templi S.p.A.	11/2002	03/2003	Master Plan, Pre-Feasibility Study, Preliminary Design	100,000	110,000,000
Master Plan of Alghero Fertilia Airport - Italy	S.E.A. S.p.A.	06/2002	08/2002	Master Plan	60,000	n.a.
Development study of international airport of Milan Malpensa - Italy	S.E.A. S.p.A.	04/2002	07/2002	Technical Feasibility Study	49,000	n.a.
International airport of Nosy Be – Madagascar	Viaggi del Ventaglio S.p.A.	04/2002	06/2002	Feasibility Study	8,500	3,000,000
Aeronautical servitudes on neighbouring towns at Milan Linate Airport - Italy	S.E.A. S.p.A.	05/2002	05/2002	Identification of aeronautical servitudes	n.a.	n.a.
Master Plan, Runway Visual Aids, Aircraft Apron, Passenger Terminal (building and area) of Carrasco international Airport of Montevideo - Uruguay	D.G.I.A. (Direccion General de Infraestructura Aeronautica)	09/2001	02/2002	Master Plan, Preliminary Design Detailed Design	1,050,000	77,800,000
Master plan, new runway, aircraft apron, and control tower of Ezeiza international airport, Buenos Aires – Argentina	Aeropuertos Argentinos 2000 S.A.	10/2000	10/2001	Master Plan, Preliminary Design	674,300	1,480,400,000

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
Master Plans of 8 airports: Paraná, Rio Cuarto, Villa Reynolds, General Pico, Reconquista, Formosa, Catamarca, Rio Grande – Argentina	Aeropuertos Argentinos 2000 S.A.	11/1999	02/2000	Master Plan, Environment Studies	220,000	152,870,000
Master plan for the international airport of Cordoba, new Terminal of Cordoba and expansion of Terminals of 2 Buenos Aires Airports - Argentina	Aeropuertos Argentinos 2000 S.A.	08/1999	08/2000	Master plan, Environment Studies	75,000	390,000,000
Master Plans of 5 airports: Bariloche, Comodoro Rivadavia, Iguazu, Mar del Plata, Mendoza – Argentina	Aeropuertos Argentinos 2000 S.A.	07/1999	02/2000	Master plan, Environment Studies	140,000	321,130,000
Jorge Chavez international airport in Lima – Perú	S.E.A. S.p.A.	07/1999	09/1999	Master Plan, Traffic Forecasts, Environmental Study, Business Plan	n.a.	744,300,000
Renewal of G. Lisa airport in Foggia for year 2000 jubilee – Italy	S.E.A. S.p.A.	12/1998	08/1999	Final Design	70,700	3,664,000
International airport of Sarajevo – Bosnia & Herzegovina	S.E.A. S.p.A.	07/1998	12/1998	Master Plan Preliminary Design	31,000	21,400,000
Master Plan and Passengers Terminals of Ezeiza International airport in Buenos Aires – Argentina	S.E.A. S.p.A.	07/1998	11/1998	Master Plan, Preliminary Design	93,000	53,300,000

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
Master Plan of Carrasco international airport of Montevideo – Uruguay	P.N.U.D. (Programa de las Naciones Unidas para el Desarrollo) D.G.I.A. (Direccion General de Infraestructura Aeronautica)	03/1997	09/1997	Master Plan, Preliminary Design	356,000	152,000,000
17 airports master plan and design of a civil aviation. technical assistance and training programme - Romania	Romanian Ministry of Transport - Bucharest	09/1996	05/1997	Feasibility Study, Concept and Preliminary Design. Economic and Financial Analysis, Technical Assistance	414,000	n.a.
Airside Facilities and Visual Aids of Carrasco international airport – Uruguay	P.N.U.D. (Programa de las Naciones Unidas para el Desarrollo) D.G.I.A. (Direccion General de Infraestructura Aeronautica)	06/1995	09/1996	Master Plan, Feasibility Study and Detailed Design	800,000	48,000,000
Bridges and Subways at Milan Malpensa Airport - Italy	Italairport S.p.A.	10/1991	12/1991	Detailed Design	37,700	n.a.
Sewer and Drainage System of the Milan Malpensa Airport - Italy	Italairport S.p.A.	06/1990	10/1991	Detailed Design	18,500	n.a.
Airbases of Ghedi and Montichiari: various air/land side infrastructures - Italy	Cogei S.p.A.	09/1990	04/1991	Detailed Design	78,700	6,300,000
Adaptation of the military airport for a new civil airport at Vicenza Airbase - Italy	Italairport S.p.A. (Final Design) Aeroporti Vicentini S.p.A. (Construction Supervision)	05/1990	12/1990	Final Design and Works Supervision	62,000	n.a.

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
Sewer-Water Systems of Milan Malpensa Airport - Italy	Italairport S.p.A.	03/1989	10/1990	Detailed Design	5,200	n.a.
Air-side Pavements of Ushuaia airport - Argentina	Italairport S.p.A.	01/1989	12/1989	Air-side Pavements Design	n.a.	n.a.
Airbase of Piacenza: airbase adaptation to tornado aircraft - Italy	ISE Costruzioni S.p.A.	10/1988	10/1989	Detailed Design	62,000	n.a.
AIRPORT TERMINALS						
Expansion and requalification of the Departure Terminal of "Valerio Catullo" Airport - Italy	Aeroporto Valerio Catullo di Verona Villafranca S.p.A.	01/2017	Ongoing	Final and Detailed Design, Works Supervision	2,424,611	52,000,000
Design and works supervision for the phase 1B expansion of the passenger terminal of "Orio al Serio" Airport (Bergamo) - Italy	SACBO S.p.A.	11/2016	Ongoing	Preliminary, Final and Detailed Design, Works Supervision	817,685	25,735,000
Expansion of the South Pier passenger terminal and renovation of the existing terminal of the "Marco Polo" Airport in Venice - Italy	SAVE S.p.A.	04/2018	11/2020	Works Supervision	793,025	18,577,918
Construction supervision for the expansion of the terminal (lot 4A) of Orio al Serio airport - Italy	SACBO S.p.A.	01/2019	05/2020	Works Supervision, MEP testing and commissioning	555,024	17,736,223
Expansion of the passenger terminal of Djibouti Airport, detailed design and construction supervision - Djibouti	Ministry of Transports - Djibouti	10/2015	02/2016 (Design) (Waiting for Constr. to start)	Preliminary and Detailed Design, Works Supervision	820,000 (450,000 Design; 370,000 Superv.)	11,500,000

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
Expansion of the passenger terminal of Djibouti Airport, concept and preliminary design - Djibouti	Ministry of Transports - Djibouti	03/2015	05/2015	Concept and Preliminary Design	30,000	11,500,000
Malpensa T2 Link-Up - New Railway Station at Terminal 2 (Lot 1) and Railway Link T1-T2 (Lot 2) - Malpensa Airport	S.E.A. S.p.A.	04/2012	07/2013	Final Design	336,300	92,442,700
3 rd phase of development interventions (buildings and air/land-side pavements) of the Otopeni international airport of Bucharest - Romania	ROMAIRPORT S.r.l.	06/2008	12/2011	Preliminary, Final and Detailed Design	945,000	93,460,000
Hardened armoured decompression Chambers to baggages and goods control for Milan Malpensa Airport - Italy	S.E.A. S.p.A.	11/2003	11/2006	Feasibility Study Preliminary Design, Final and Detailed Design	30,500	338,400
New parking and service road for Milan Malpensa International Airport - Italy	S.E.A. S.p.A.	11/2004	05/2005	Preliminary, Final and Detailed Design	95,000	4,150,000
16 Hardened Shelters for third generation aircraft for NATO Military Airbase of Poznam - Poland	C.C.A. Cimolai S.p.A.	09/2004	03/2005	Final and Detailed Design	45,000	22,000,000
Control Tower of the Otopeni international airport of Bucharest (2 nd phase of development) - Romania	Romairport S.r.l.	04/2004	07/2004	Preliminary and Final Design	16,000	2,000,000
Passenger Terminal of Bergamo - Orio al Serio - Italy	S.A.C.B.O. S.p.A.	11/2003	12/2003	Preliminary Design	17,000	10,000,000

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
Passengers Terminal building of international airport of Bari Palese - Italy	S.E.A. S.p.A.	10/2000	02/2003	Preliminary, Final and Detailed Design	107,900	2,300,000
2 nd phase of development interventions (buildings and air-side pavements) of Bucharest Otopeni Airport – Romania	S.E.A. S.p.A.	12/1999	05/2002	Preliminary and Final Design	77,480	80,000,000
Passengers Terminal of Zwartnots International Airport (Yerevan) – Armenia	Aeropuertos Argentinos 2000 S.A. / Armenia International Airports – CJSC	12/2000	02/2001	Concept Design	n.a.	25,700,000
Airbase of Istrana: Aircraft Recovery and Maintenance Hangar - Italy	Aeronautica Militare - 1° Reparto operativo infrastrutture Milano	06/2000	09/2000	Detailed Design	39,200	2,000,000
Terminal area Master Plan and Passengers Terminal of Aeroparque international airport of Buenos Aires – Argentina	S.E.A. S.p.A.	11/1998	03/1999	Master Plan layout, Feasibility Study	n.a.	22,300,000 (civil works only)
New passenger terminal building, BHS system, access roads / parkings & sewerage system for international airport of Bari Palese – Italy	Italairport S.p.A.	08/1997	06/1998	Detailed Design	258,200	13,200,000
1 st phase of development interventions (buildings and air-side pavements) of Bucharest Otopeni Airport – Romania	S.E.A. S.p.A.	09/1994	02/1997	Preliminary and Final Design	311,000	147,700,000

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
Structural and Civil Shop Drawings for New Terminal Building of International Airport of Milan Malpensa – Italy	S.E.A. S.p.A.	11/1995	12/1996	Detailed Design	51,600	2,500,000
Airbases of Piacenza and Ghedi: Electronic Laboratory with EMP protection - Italy	Ministero della Difesa – Direzione Demanio della 1a Regione Aerea	04/1991	12/1996	Technical Assistance to Works Supervision	88,800	n.a.
New passenger terminal building, and access roads for the international airport of Bari Palese – Italy	S.E.A. S.p.A.	10/1996	11/1996	Preliminary Design	6,200	n.a.
Passengers Terminal of Tirana Rinas international airport – Albania	S.E.A. S.p.A.	05/1996	07/1996	Preliminary and Detailed Design	20,700	2,000,000
Railway station at Terminal 1 in Milan Malpensa Airport - Italy	S.E.A. S.p.A.	12/1994	12/1995	Design Verification	8,200	n.a.
Master Plan, Buisness Plan and Passenger Terminal of Raduzhnyj airport - Russia	Salfra S.A. Financing Agency: Raduzhny OIL Company	11/1993	05/1994	Feasibility Study, Business Plan, Master Plan, Preliminary Design	12,900	59,600,000
New Passenger Terminal at Milan Malpensa Airport - Italy	Italairport S.p.A.	10/1992	11/1992	Detailed Design	21,400	n.a.
Buildings architectural surveys at Milan Malpensa Airport - Italy	Italairport S.p.A.	09/1992	10/1992	Airport buildings relief	7,000	n.a.
Passengers Terminal, Control Tower, aircraft Apron and Access roads of Alma-Ata international airport – Kazakhstan	Italstrade S.p.A.	07/1992	09/1992	Preliminary Design	135,200	83,000,000

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
New U.S.A.F. Airbase of Crotone: Aircraft Maintenance Facilities - Italy	Airsystem S.r.l.	07/1990	09/1992	Preliminary Design	312,000	n.a.
Airbase of Cervia: Aircraft maintenance Hangar – Italy	A.I.A. Costruzioni S.p.A.	10/1991	01/1992	Detailed Design	60,000	n.a.
Airbase of Villafranca: semi-hardened S.P.B.F. (Squadron Pilot Briefing Facility) – Italy	Cormio Engineering S.r.l.	05/1991	09/1992	Detailed Design	15,500	n.a.
Airbase of Piacenza: Mess Hall - Italy	Costruzioni Perregrini S.r.l.	09/1990	01/1992	Detailed Design	12,000	n.a.
Airbase of Piacenza: semi-hardened S.P.B.F. (Squadron Pilot Briefing Facility) – Italy	L.I.E.S. S.r.l. and S.E.C. S.r.l.	03/1991	09/1991	Detailed Design	77,500	n.a.
Airbase of Rivolto: semi-hardened S.P.B.F. (Squadron Pilot Briefing Facility) – Italy	Impresa Presotto S.p.A.	02/1991	09/1991	Detailed Design	16,500	n.a.
Airbase of Aviano: 2 Runways and 3 Aircraft Apron - Italy	Travanut Strade S.p.A.	10/1990	09/1991	Assistance during Construction	18,600	n.a.
Airbase of Ghedi: Ammunition Igloo Depot – Italy	Gelfi Costruzioni S.p.A.	02/1991	05/1991	Detailed Design	25,800	n.a.
Airbase of Cervia: semi-hardened S.P.B.F. (Squadron Pilot Briefing Facility) – Italy	A.I.A. Costruzioni S.p.A.	10/1990	01/1991	Detailed Design	16,500	n.a.
Cargo Terminal of the Milan Malpensa Airport - Italy	Italaairport S.p.A.	10/1990	12/1990	Detailed Design	35,600	n.a.
Airbase of Ghedi: ASM, MEF programs physical protection works -Italy	Ministero della Difesa – Direzione del Genio – 5qa divisione	05/1989	11/1990	Preliminary and Detailed Design, Tender Documents	182,600	n.a.

PROJECT	CLIENT	PERIOD		ACTIVITIES	COST OF SERVICES €	COST OF WORKS €
		FROM	TO			
Kuwait Airbase: Master Plan and Hardened aircraft Shelters - Kuwait	Italairport S.p.A.	11/1989	09/1990	Master Plan, Preliminary Design	41,800	n.a.
Passenger Terminal of Airport of S. Martin - Antilles	Italairport S.p.A.	12/1989	08/1990	Preliminary and Final Design	15,000	n.a.
Railway station at Terminal 1 and building expansions in Milano Malpensa Airport - Italy	Italairport S.p.A.	07/1989	07/1990	Detailed Design	53,700	n.a.
Airbase of Poggio Ballone: hardened operative building with E.M.P. protection - Italy	Italairport S.p.A. and Airsystem S.r.l.	06/1989	01/1990	Preliminary and Detailed Design	28,400	n.a.
Airbase of Aviano: Electronic Laboratory with EMP protection - Italy	Italairport S.p.A.	07/1988	12/1989	Preliminary and Detailed Design	55,500	n.a.
Passenger Terminal of Trento airport - Italy	Italairport S.p.A.	01/1989	12/1989	Detailed Design	n.a.	n.a.
Airbase of Piacenza: Electronic Laboratory with EMP protection - Italy	Italairport S.p.A.	10/1988	10/1989	Detailed Design	8,200	n.a.
Airbase of Ramstein: 12 Aircraft Shelters - Germany	Costruzioni Cimolai Armando S.r.l.	02/1989	09/1989	Detailed Design	20,700	n.a.
Airbases of Ghedi and Gioia del Colle: n.2 Electronic Laboratory with EMP protection - Italy	Italairport S.p.A.	11/1988	09/1989	Technical Assistance, Detailed Design	4,100	n.a.
Airbase of St. Mawgan: 9 Aircraft Shelters - U.K.	Costruzioni Cimolai Armando S.r.l.	10/1988	07/1989	Detailed Design	38,700	n.a.
Airbase of Cameri: Engine Workshop - Italy	Ministry of Defence - Direzione Demanio della 1a Regione Aerea	11/1988	02/1989	Design Review	16,500	n.a.



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