ERPsim
Sustainability Webinar

Please Note
This webcast is being recorded and will be made available on the ERPsim website. Please be aware that questions you ask or discussions you participate in will be recorded as a part of the presentation.
By attending this online event you are giving your permission to being recorded. Participant names / photos / video (if connected to event via webcam) may be shared. If you do not wish to be recorded, please disconnect from the webcast at this time.

Webinar
Online | October 17, 2023

ERPsimLab
HEC MONTRÉAL | Serious games to learn enterprise systems and business analytics

Agenda

1. **Carbon Reporting**
2. **Two Sustainability Scenarios:**
   ▶ **Logistics Sustainability (3 presets)**
   ▶ **Manufacturing Sustainability (3 presets)**
3. **ZCONTROL**
4. **Demo**
5. **FAQ**
6. **Final Slides/Other Questions**

Carbon Reporting

Measure and track Carbon emissions:

- Measuring in kilograms of carbon dioxide equivalent (CO_2e)

- Following the "Greenhouse Gas Protocol" (GHG Protocol)
    - joint initiative by World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD)

- Categorizing corporate-level emissions within 3 scopes for carbon reporting

For more information, refer to our carbon reporting guide: https://erpsim.hec.ca/en/node/419

Carbon Reporting: GHG Scopes

Scope (1)

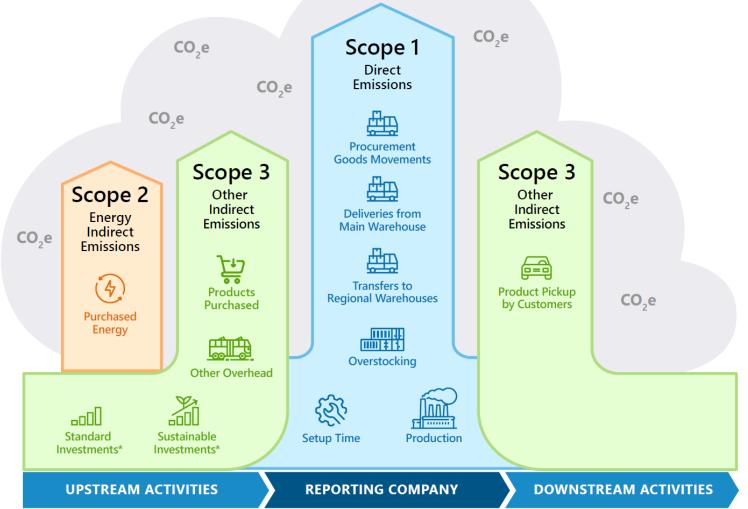– contains all direct CO_2e emissions from a company's owned or controlled sources

Scope (2)

– groups all indirect emissions from purchased energy (e.g., electricity, heat)
– consumed by the reporting company but generated by a utility company or other uncontrolled sources
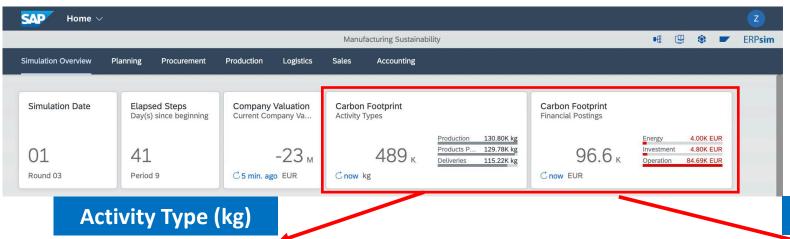
Scope (3)

– groups all other indirect upstream and down-stream emissions having an impact on your value chain
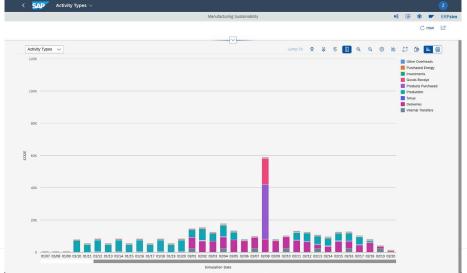– emissions are generally owned and reported as Scope 1 by another party

ERPsim Activities: Scopes

Scope 1 — Direct Emissions
- Procurement Goods Movements
- Deliveries from Main Warehouse
- Transfers to Regional Warehouses
- Overstocking
- Setup Time
- Production

Scope 2 — Energy Indirect Emissions
- Purchased Energy

Scope 3 — Other Indirect Emissions
- Products Purchased
- Other Overhead
- Standard Investments*
- Sustainable Investments*

Scope 3 — Other Indirect Emissions
- Product Pickup by Customers

CO_2e

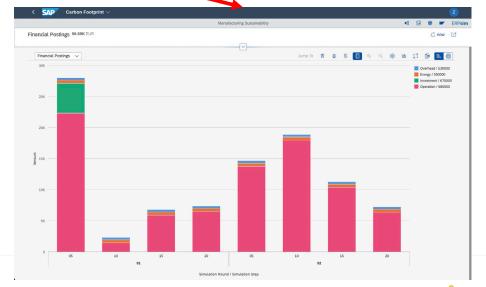**UPSTREAM ACTIVITIES** — **REPORTING COMPANY** — **DOWNSTREAM ACTIVITIES**

* Investments include capital goods purchases (e.g., solar panels, additional machinery or electric vehicles) and consultants business travels.

ERPsim Carbon Activities and Postings

Activity Type (kg)

Financial Postings (Euros)

Logistics Sustainability

- Comparable the other Logistics game scenarios (Intro and Extended)

- Carbon emissions generated and tracked from different sources such as transportation, warehousing, and overhead

- Carbon is taxed and deducted from the revenues

- **Students' role:** Maintain profitable operations while keeping carbon footprint low

Presets

Preset 1: Simple

Light introduction to sustainability concepts with only a few carbon-related parameters

Preset 2: Storyline

Build scaffolding: each round offers more layers of complexity and decision points

Preset 3: Exhaustive

Complete version offering all the parameters and decision points from the start of the game

Manufacturing Sustainability

- Comparable the other Manufacturing game scenarios (Intro, Ext, Adv)

- Carbon emissions generated and tracked from different sources such as production, transportation, warehousing, and overhead

- Carbon is taxed and deducted from the revenues

- Possible to invest in sustainability and reduce carbon footprint

- **Students' role:** Maintain profitable operations while keeping carbon footprint low

Presets

Preset 1: Simple

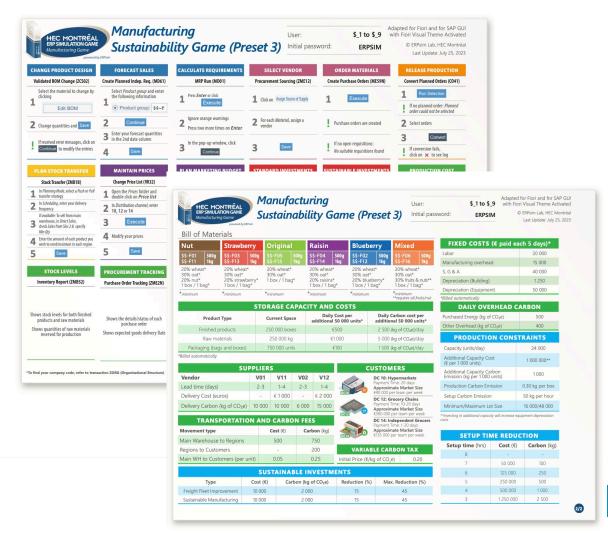Comparable to Manuf. Extended game with addition of some carbon-related parameters and decision points

Preset 2: Storyline

Build scaffolding: each round offers more layers of complexity and decision points

Preset 3: Exhaustive

Comparable to Manuf. Advanced game with many decision points and all carbon-related parameters from the start of the game

Commercial version powered by BĀTON

Manufacturing Sustainability
Presets Comparison

	Preset 1	Preset 2	Preset 3
Gradual Complexity	No	**Yes**	No
Tax Rate	Fixed	Fixed	Variable
Impact on credit rating	No	**Yes**	**Yes**
Investments	Capacity and setup time	Capacity and setup time **Added at round 2:** Sustainable investments	Capacity and setup time Sustainable investments
Logistics	Sales from main warehouse	Sales from main warehouse **Added at round 3:** Sales from region	Sales from main warehouse Sales from region
Vendors	V01 and V02	V01, V02 **Added at round 4:** V11, V12	V01, V02 V11, V12

How to teach with the new scenarios?

As the instructor, you have TWO options:

1. Keep the default presets as explained in the games' documentation (job-aids, slides, videos)

2. Customize the experience:

   o Tailored experience for your learning objectives

   o Adjust the game to your time constraints

   o Build your own storyline

   o Make the games easier or harder

Customize your game via ZCONTROL

You can customize the following:

- **Carbon Impact:** Carbon tax and the impact on credit rating

- **Vendors:** additional vendors & their time of entry into the game

- **Goods movement:** procurement, internal transfers, sales

- Overstocking, Overhead, Logistics (sales from MW/Regions)

- Production

- Investments (standard, sustainable)

Administration | Troubleshooting | Administrator Reports

ERPsim Client Setup ZSTART	Control Panel ZCONTROL	User Management ZUSER	External Links ZLINK	Scrap Inventory ZSCRAP	Loan Repayment ZLOAN
		0 Account(s) locked			

Troubleshooting

Process Goods Movements Errors COGI	Predefined Confirmation Processes CO1P	Rejected Production Orders ZREJECTED
0 Error(s) found		⚠ 1 Release(s) Rejected

Administrator Reports

Inventory Report ZMB52	Purchase Order Tracking ZME2N	Production Report ZCOOIS	Sales Order Report ZVA05	Summary Sales Order Report ZVC2	Display Price List VK33	Financial Statements Fiori	Company Valuation Report ZVAL
▦	▦	▦	▦	▦	▦	▦	▦

Demo

FAQ - Students' perspective

- Can students play the Logistics Sustainability game without having played the Logistics Intro or Logistics Extended games?

- Can students play the Manufacturing Sustainability game without having played the Manufacturing Intro, Extended, or Advanced games before?

- Who are the main target audience for these sustainability scenarios?

- Are there any documentation for students to learn the sustainability scenarios?

FAQ – Instructors' perspective

- Are there any documentation/resources for instructors to learn the sustainability scenarios?

  - Teaching Notes on the Leaning Portal: https://erpsim.hec.ca/en/learning/instructors#content-teaching-notes
  - Level 2 certification course on eduZone Platform (contact us for enrollment)

- As an instructor, how much time do I need to invest to learn these sustainability scenarios?

- Do I need to get recertified to be able to use these new scenarios?

- I am newly certified (Level 1). Can I use these new scenarios?

FAQ – Other questions!

- Do I need to order a different ERPsim SAP client from my UCC?

- Can we do analytics with the new carbon data? Where can I find resources?

  - **OData View:** Carbon_Emissions
  - Analytics Reference Guide & Sustainability Carbon Reporting documents: https://erpsim.hec.ca/en/node/419

- How many rounds should be played (for each game) to fully comprehend the sustainability impact?

- Can I change the presets or customize the game mid-game?

ERPsim Sustainability Curriculum Award

ERPsim activities 2023

ERPsim Events
Live Session Webinar

Register now!

October 31, 2023 • Online • 1 pm Montréal Time

ERPsim Challenge
Manufacturing Sustainability
Student Friendly Competition

Register now!

November 10, 2023 • Online • 10 am Montréal Time

ERPsim Digital Transformation
Live Session Webinar

Register now!

November 14, 2023 • Online • 1 pm Montréal Time

ERPsim Challenge
Maple Game
Student Friendly Competition

Register now!

November 24, 2023 • Online • 10 am Montréal Time

ERPsim competitions 2024

National competitions

Regional competitions

SAP ERPsim Game — NORTH AMERICA
Mar 22, 2024

INTERNATIONAL ERPsim COMPETITION 2024 — ERPsimLab HEC MONTRÉAL
June 6, 2024

SAP ERPsim Game — EUROPE
Apr 26, 2024

SAP ERPsim Game — CHINA
Mar 29, 2024

SAP ERPsim Game — IBEROAMERICA
May 17, 2024

SAP ERPsim Game — EMEA SOUTH
May 23, 2024

SAP ERPsim Game — India
Nov 10, 2023

SAP ERPsim Game — Vietnam
Nov 17, 2023

SAP ERPsim Game — Philippines
Nov 17, 2024

SAP ERPsim Game — APJ CUP
Apr 12, 2024

SAP ERPsim Game — REST OF US
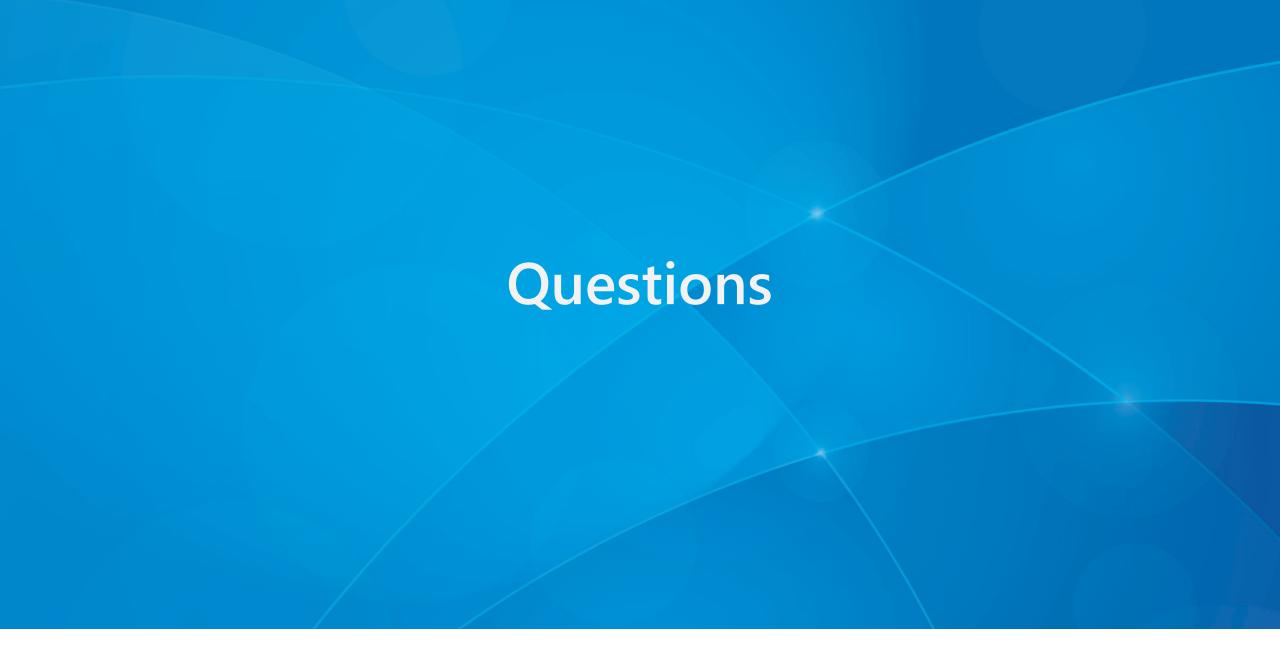May 31, 2024

SAP ERPsim Game — Rest of APJ
Oct 20, 2023

SAP NAAC 2024 & ERPsim UGM

Save the Date

Jun 17-20, 2024

ERPsim Lab 20th Anniversary Celebration

Questions

ERPsimLab
HEC MONTRÉAL

ERPsim Academic Edition 2023
© 2004-2023, ERPsim Lab, HEC Montréal.

Commercial version
powered by
BATON

23

Thank You!

Website: erpsim.hec.ca
Email: erpsim@hec.ca