

ERPsim

Leap Year Challenge

Round 1 → Round 2

Please Note

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ERPsim Leap Year (Logistics Sustainability) Challenge
Asynchronous | February 1, 2024

ERPsimLab
HEC MONTRÉAL

Serious games to learn enterprise
systems and business analytics

בְּרוּךְ הַבָּא
välkommen 欢迎 willkommen
chào mừng ようこそ hoşgeldiniz merħba
خوش آمدید
benvenuto willkommen 환영
witamy selamat datang
أهلاً بك Welcome bienvenu
fáilte welkom bine ati venit bienvenido
добро пожаловать स्वागत vitéjte
bem-vindo tervetuloa خوش آمدی
wamukelekile wëllkomm καλώς ήρθες

Schedule (Montréal Time)

Thursday, Feb 1, 2024

- 12:00 – Welcome
- 12:05 - Round 1 Review
- 12:10 - Round 1 Run
- 12:20 - Round 1 Results
- 12:30 – Round 2 Information
- 12:40 – Q&A

Teams

- AA** - Tecnológico de Monterrey
- BB** - University of Nottingham
- CC** - Conestoga College
- DD** - Durham College
- EE** - The University of Texas at Dallas
- FF** - Neusoft Institute Guangdong
- GG** - International School of Business (UEH-ISB)
- HH** - Central Michigan University
- II** - Penn State University
- JJ** - Beijing Jiaotong University
- KK** - JAMK - Jyväskylä University of Applied Sciences
- LL** - St Michael Learning Academy
- MM** - Missouri University of Science & Technology
- NN** – SENATI
- PP** - Purdue University
- QQ** - Seneca Polytechnic
- RR** - Metro State University
- A2** - The University of Melbourne
- B2** - University of the Cordilleras
- C2** - Doon Business School, India
- D2** - Duy Tan University
- E2** - Excelsior Community College
- F2** - Universidad Catolica Andres Bello
- G2** - Purdue University Global
- H2** - Hebei University of Science and Technology
- I2** - Laval University
- J2** - Xi'an Jiaotong-Liverpool University
- K2** - East Carolina University
- L2** - UCLL
- M2** - Morgan State University
- N2** - Niagara College
- P2** - Université de Sherbrooke
- Q2** - SIIT Thammasat University
- R2** - California State University, Chico

Login Information (students)

Student IDs: **A_1 to A_5 ... Z_1 to Z_5**

Student Password: **ERPSIM** (please change the password on all the 5 users accounts)

Teams **AA to ZZ**

Fiori Launchpad: <https://sapvm2.hec.ca:8001/erp?sap-client=502>

OData service: <https://sapvm2.hec.ca:8001/odata/502>

Teams **A2 to Z2**

Fiori Launchpad: <https://sapvm2.hec.ca:8001/erp?sap-client=503>

OData service: <https://sapvm2.hec.ca:8001/odata/503>

Game Rules

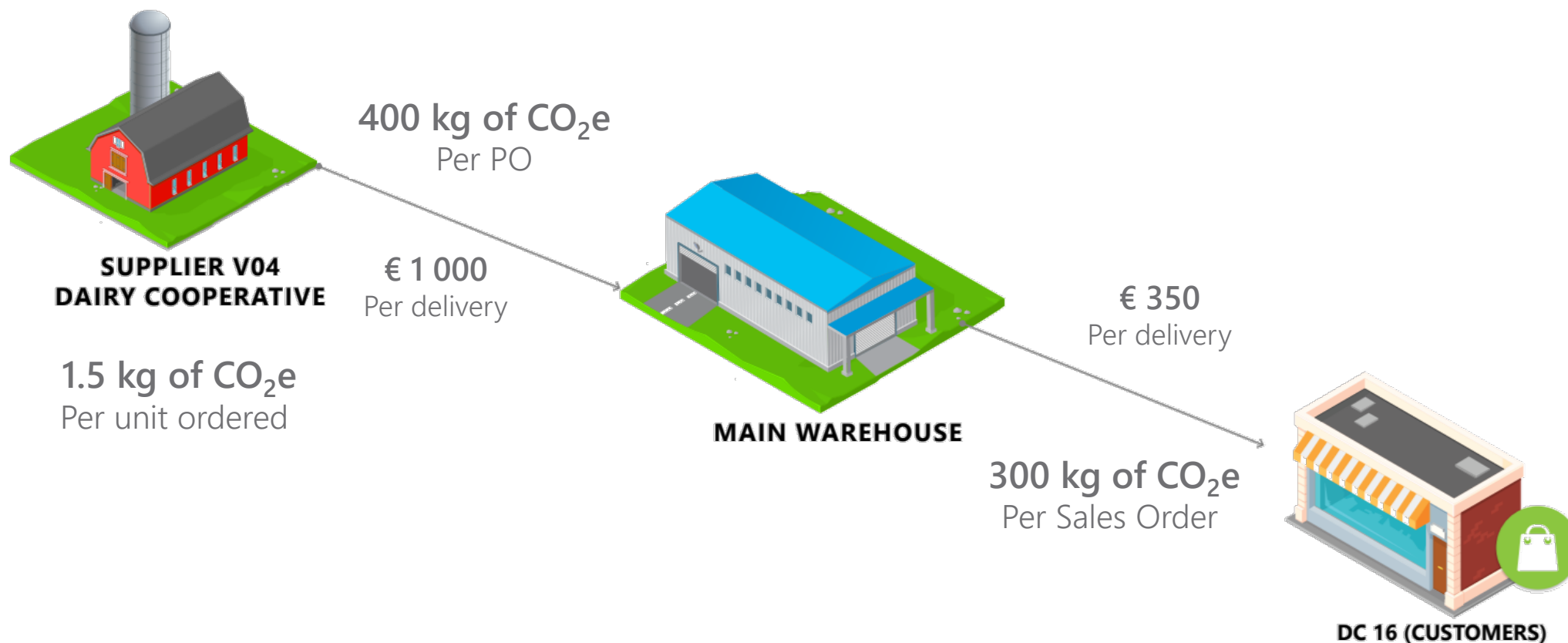
- Each team has a **minimum of 3 students** and maximum of 5 students and a faculty coach.
- The **faculty coach** is the **main point of contact** for all event logistics and communications.
- Teams will play the **ERPsim Logistics Sustainability Game** (Preset 2 & 3) scenario.
- The game will be played **asynchronously** over 5-week (5-rounds) with new brainteasers revealed every week.
- **Access** to the ERPsim SAP S/4HANA Fiori system will be available **throughout the week**. Students can login at any time to input their decisions. Only the last saved changes will be considered for the next-round playing.
- **Coaches** can login, but they are not allowed to input transactions.
- The **non-transactional rounds** will be played on Thursdays at 12 p.m., Montreal Time.
- Teams must always **behave ethically** and responsibly.
- Teams are **only allowed** to perform **transactions** described on the **Job Aids**.
- Teams have **access to OData**. Teams are free to use any data visualization tool they wish to follow the evolution of their company's performance.
- Customer **buying preferences do not change** during the game.
- Teams will be **ranked** based on their **company valuation**.

Round 1 Review

Round 1 - Brainteasers

- Carbon Tax Value: **0.20 €/kg** of CO₂e
- Only **one supplier** (V04)
 - CO₂e per unit for V04 at **1.50 kg**
 - CO₂e per delivery from V04 at **400 kg**
- All companies have **starting inventory**.
- **Procurement is enabled**.
- **Stock transfer is disabled**.
- Check your **pricing!!!**
- Some **reports** are available for a fee.
- **OData** (self) is **enabled**.
- Due to **month-end close**, you won't be able to login:
 - Between 6:00 p.m. on Jan 31st and
 - 9:00 a.m. on Feb 1st, 2024 (Montreal Time)

Round 1



Round 1 - Food for Thought

- Are the initial suggested prices too high, too low, OK?
- Shall we invest in the reports right now? What are the alternatives?
- Should I engage in procurement? What should I order? How much?
- What can I do to try and reduce my carbon footprint?

Round 1 Run

Round 1 Results

Round 1 – Results Top 10

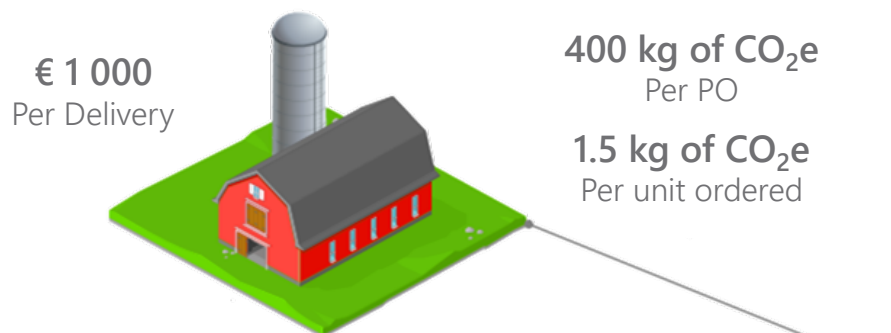
Rank	Company Code	Financial Metrics							Sustainability Metrics		
		Company Valuation (EUR)	Credit Rating	Cumulative Net Income (EUR)	Round Net Income (EUR)	Total Sales (EUR)	Gross Margin	Net Margin	Total CO2e	CO2e per Unit Sold (kg/unit)	CO2e per Sales (kg/euro)
1	P2	975,791.27	AA	13,417.13	13,417.13	163,204.29	15.574%	8.221%	20,550.00	6.15	0.13
2	QQ	751,772.00	AAA+	9,397.15	9,397.15	228,373.03	11.712%	4.115%	29,550.00	5.37	0.13
3	BB	661,152.00	AA	7,340.84	7,340.84	113,697.60	15.340%	6.456%	15,700.00	6.18	0.14
4	AA	642,639.27	AA	8,836.29	8,836.29	179,191.67	11.712%	4.931%	21,600.00	6.58	0.12
5	DD	620,500.80	AAA+	7,756.26	7,756.26	242,388.17	10.461%	3.200%	29,285.00	4.72	0.12
6	Q2	389,491.20	AA-	3,727.22	3,727.22	63,407.54	19.047%	5.878%	12,000.00	8.23	0.19
7	K2	385,056.71	AA-	4,102.36	4,102.36	117,979.08	14.708%	3.477%	20,200.00	7.25	0.17
8	MM	316,425.24	AA-	4,449.73	4,449.73	90,390.56	16.207%	4.923%	15,300.00	7.21	0.17
9	GG	233,614.40	AAA+	2,045.18	2,045.18	205,200.50	7.478%	0.997%	19,300.00	4.60	0.09
10	R2	184,840.00	AAA+	2,310.50	2,310.50	140,244.00	6.924%	1.647%	12,900.00	4.30	0.09

Round 2 Information

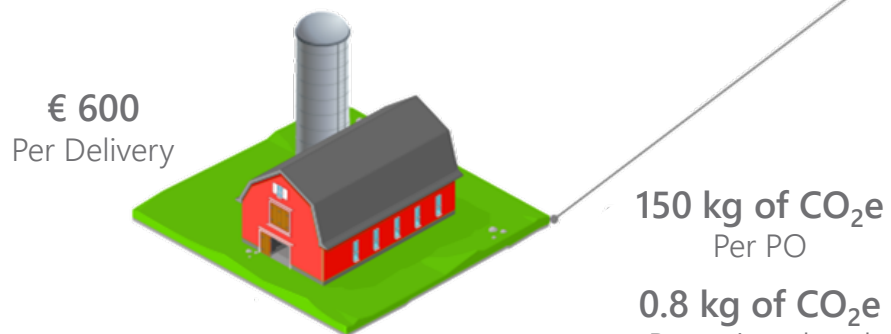
Round 2 – Facts and Brainteasers

- Carbon Tax Value: 0.25 €/kg of CO₂e
- Two suppliers (V04 & V08)
 - V04: 1.50 kg CO₂e per unit
 - V04: 400 kg CO₂e per delivery
 - V04: € 1 000 per delivery
 - V08: 0.80 kg CO₂e per unit
 - V08: 150 kg CO₂e per delivery
 - V08: € 600 per delivery
- Procurement is enabled.
- Stock transfer is disabled.
- Choose your supplier!
- Check your pricing!
- Check your inventory!
- Some reports are available for a fee.
- OData (self) is enabled.

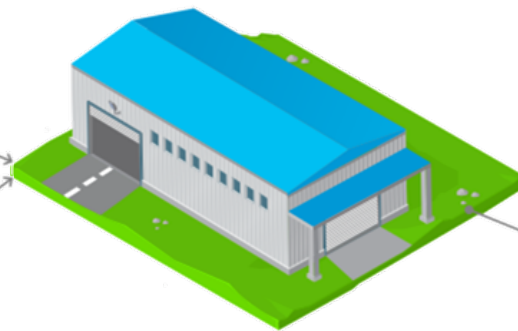
Round 2 - Scenario



**SUPPLIER V04
DAIRY COOPERATIVE**



**SUPPLIER V08
NORDIK DAIRY COMPANY**



MAIN WAREHOUSE

300 kg of CO₂e
Per Sales Order

€ 350
Per Delivery



DC 16 (CUSTOMERS)



\$\$-T01



\$\$-T02



\$\$-T03



\$\$-T04



\$\$-T05



\$\$-T06

V04

€ 22.95

€ 72.07

€ 25.85

€ 82.68

€ 59.88

€ 43.15

V08

€ 23.52

€ 73.87

€ 26.50

€ 84.75

€ 61.38

€ 44.23

Round 2 - To Ponder

- Are our prices too high, too low, OK?
- What can we do to try and reduce our carbon footprint? How is our bottom line affected?
- What and how much to order? From which supplier?
- Shall we invest in the reports? What are the alternatives?

Thank you!

Learn more about ERPsim

erpsim.hec.ca erpsim@hec.ca