# ERPsim Leap Year Challenge

#### Round 2 $\rightarrow$ Round 3

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ERPsim Leap Year (Logistics Sustainability) Challenge Asynchronous | February 8, 2024



Serious games to learn enterprise systems and business analytics

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#### Schedule (Montréal Time)

#### Thursday, Feb 8, 2024

- 12:00 Welcome
- 12:05 Round 2 Review
- 12:10 Round 2 Run
- 12:20 Round 2 Results
- 12:25 Round 3 Information
- 12:30 Q&A



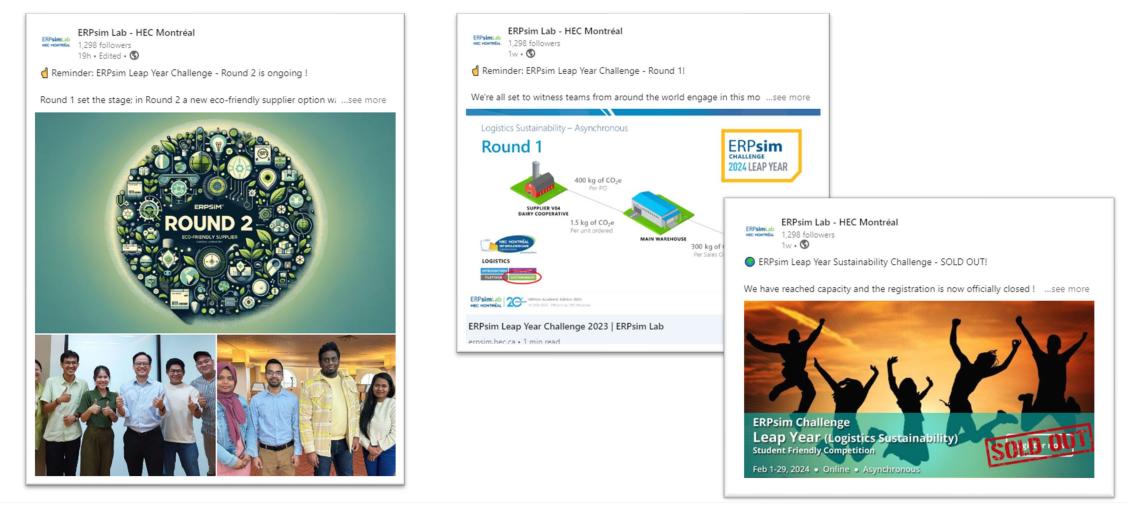
#### Teams

- 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
- **12** 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



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#### Round 2 Review

#### **Round 2 – Facts and Brainteasers**

- Carbon Tax Value: 0.25 €/kg of CO<sub>2</sub>e
- Two suppliers (V04 & V08)
  - V04: 1.50 kg CO<sub>2</sub>e per unit
  - V04: 400 kg CO<sub>2</sub>e per delivery
  - V04: € 1 000 per delivery
  - V08: 0.80 kg CO<sub>2</sub>e per unit
  - V08: 150 kg CO<sub>2</sub>e 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.



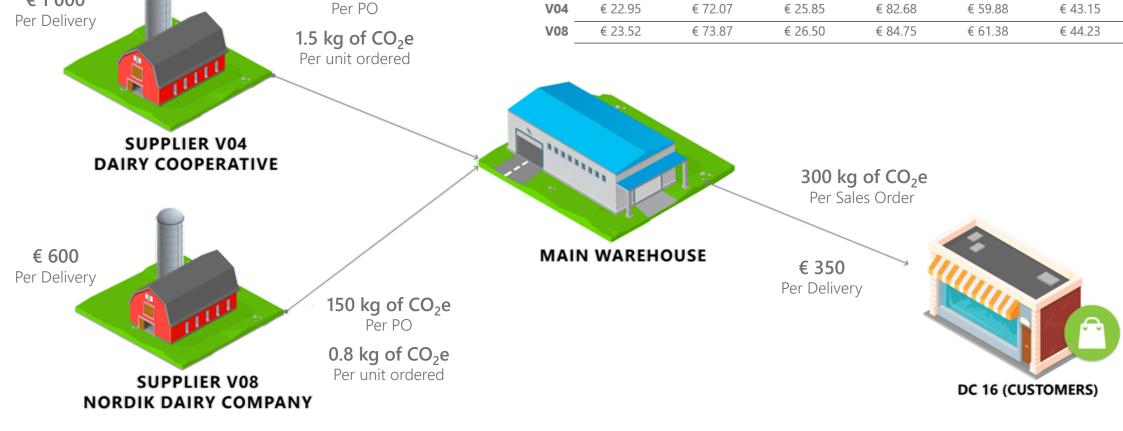


#### Round 2 - Scenario

€1000

400 kg of CO<sub>2</sub>e







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#### 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?







### Round 2 Run

#### Round 2 Results

#### Round 2 – Results Top 10

		Financial Metrics							Sustainability Metrics		
Rank	Company Code	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	618,441.82	AA	17,007.15	3,590.02	260,043.68	14.981%	6.540%	32,876.00	6.25	0.13
2	К2	522,500.73	AA	12,118.77	9,516.41	269,047.98	15.144%	4.504%	38,106.00	6.72	0.14
3	QQ	511,354.40	AAA+	12,783.86	3,386.71	365,012.36	12.297%	3.502%	48,840.00	5.46	0.13
4	BB	500,817.82	AA	11,822.49	5,081.65	201,709.04	15.752%	5.861%	29,560.00	6.75	0.15
5	AA	427,132.09	AA-	12,013.09	3,176.80	230,160.67	13.735%	5.219%	32,163.60	7.39	0.14
6	Q2	381,265.78	AA-	9,223.10	5,495.88	161,812.66	17.874%	5.700%	27,345.60	7.35	0.17
7	MM	272,283.38	AA-	7,657.97	3,208.24	181,884.05	15.289%	4.210%	30,270.00	7.10	0.17
8	DD	269,751.81	AA+	7,249.58	-506.68	392,779.66	11.049%	1.846%	57,770.60	5.84	0.15
9	GG	235,037.82	AA	5,713.54	3,668.36	240,925.80	10.019%	2.371%	31,800.00	6.12	0.13
10	РР	154,943.63	AA+	2,439.11	4,031.60	285,741.00	9.200%	0.854%	33,584.50	5.59	0.12







#### Round 3 Information

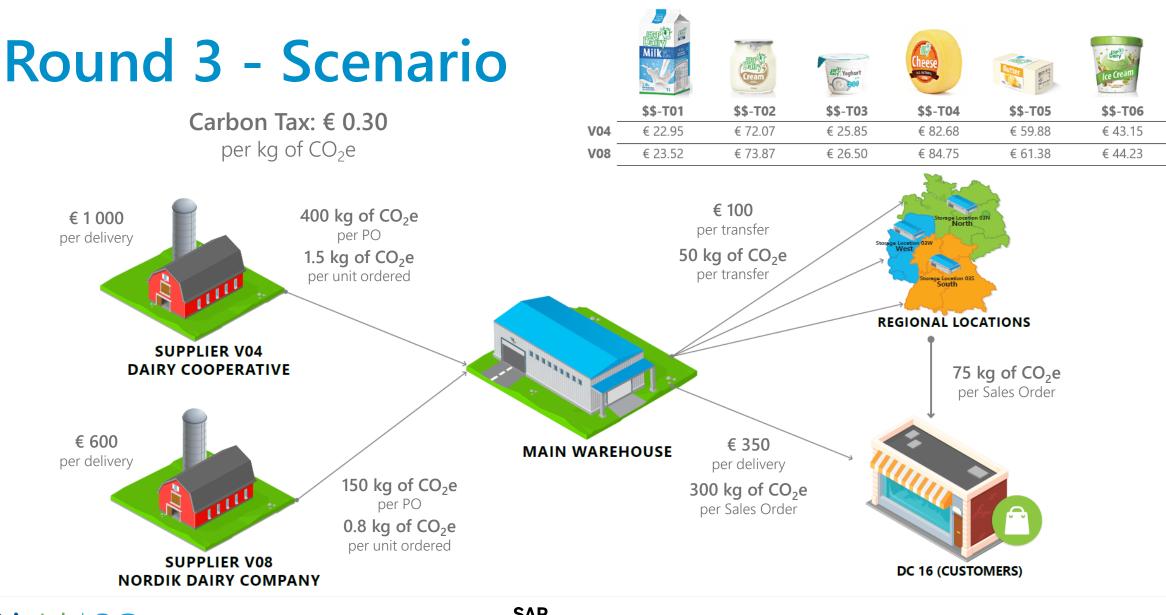
#### **Round 3 - Facts and Brainteasers**

- Carbon Tax Value: € 0.30/kg of CO<sub>2</sub>e
- Two suppliers (V04 & V08)
- Procurement is enabled.
- Stock transfer is enabled
  - Establish a plan to sell from regions
  - Check to continue selling from central

- Sell from central, regions or both!
- Choose your **supplier**!
- Check your pricing!
- Replenish your **inventory**!
- Some **reports** are available **for a fee**.
- OData (all) is enabled.







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#### Round 3 - Think About It

- Should we sell from regions? Push or Pull? How often? Just continue selling from central? Perhaps both?
- Are our prices too high, too low, OK?
- What can we do to try and reduce our carbon footprint?
- What and how much to order to replenish? From which supplier?
- Shall we invest in the reports? What are the alternatives?
- What are my competitors doing?





## Thank you!

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