

# ERPsim

## Logistics Sustainability w/Disruptors Student Friendly Challenge – Round 1&2

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ERPsim Challenge Logistics Sustainability with Disruptors 2025  
HyFlex | Sep 26, 2025

ERPsimLab  
HEC MONTRÉAL



Serious games to learn enterprise  
systems and business analytics

# Teams

- A - Yonam Institute of Technology, South Korea
- B - Georgia College & State University, United States
- C - Centria UAS, Finland
- D - ITESM, México
- E - Universidad del Rosario, Colombia
- F - Seneca Polytechnic, Canada
- G - Universidad ICESI, Colombia
- H - Asia Pacific College, Philippines
- I - Doon Business School, India
- J - SBH, Germany

## Meet our team



Adam Zaghloul



Rukshan Perera



Kanchana Rathnayaka



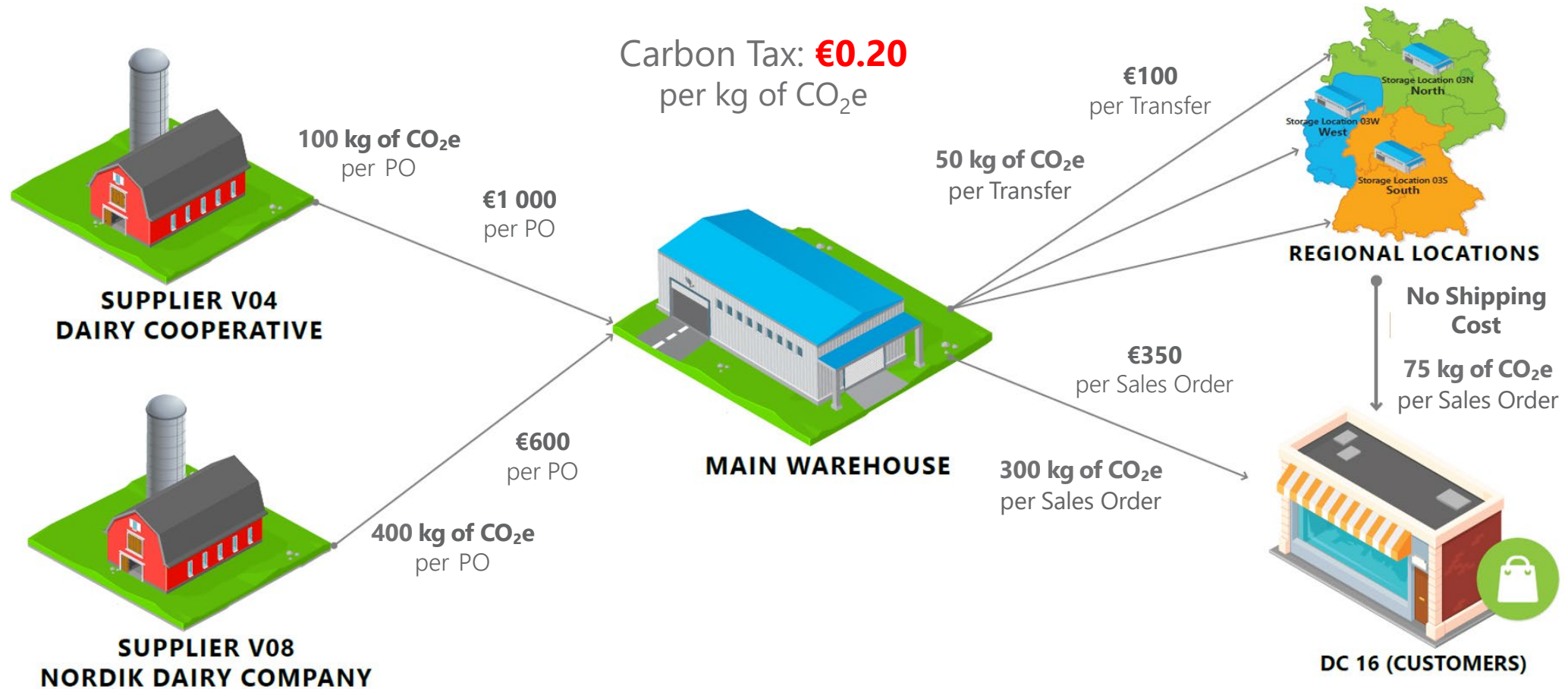
Coach- Hannu Kari



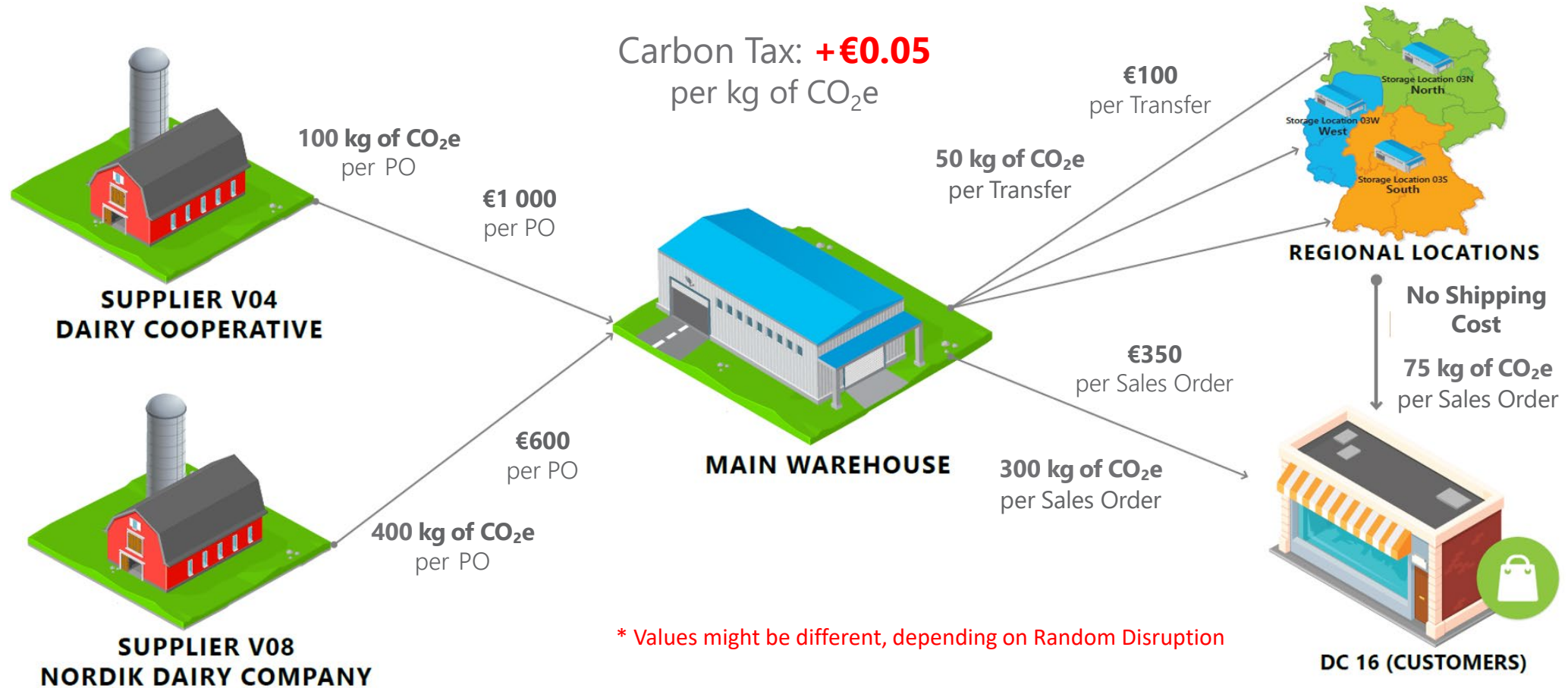






# Round 1 Scenario



# Round 2+ Scenario



# Random Disruptions

1)		<b>Cold Spell</b>	<ul style="list-style-type: none"> <li>Higher carbon emissions per unit purchased</li> <li>Reduced energy footprint and less energy-intensive additional storage</li> </ul>
2)		<b>Carbon Decree</b>	<ul style="list-style-type: none"> <li>Higher carbon tax</li> <li>Lower energy footprint</li> </ul>
3)		<b>Supplier Disruption</b>	<ul style="list-style-type: none"> <li>Increased emissions from less-optimal routing</li> <li>Higher carbon emissions for all products purchased</li> </ul>
4)		<b>Hub Gridlock</b>	<ul style="list-style-type: none"> <li>Higher carbon emissions from direct sales</li> <li>Increased emissions from procurement and internal transfers</li> </ul>
5)		<b>System Glitch</b>	<ul style="list-style-type: none"> <li>Certain reports unavailable</li> <li>Requires consultant support or alternative data sources for decision-making</li> </ul>
6)		<b>Data Breach</b>	<ul style="list-style-type: none"> <li>Team data exposed to competitors</li> <li>Can access competitors' data and compare strategies</li> </ul>
7)		<b>Flash Flood</b>	<ul style="list-style-type: none"> <li>Entire warehouse inventory lost</li> <li>Recovery efforts needed to reduce financial impact</li> </ul>
8)		<b>AI Innovation</b>	<ul style="list-style-type: none"> <li>New AI tool developed by IT</li> <li>Use it to enhance planning decisions</li> </ul>



# Random Disruption – Round 2



1) Cold Spell



2) Carbon Decree



3) Supplier Disruption



4) Hub Gridlock



5) System Glitch



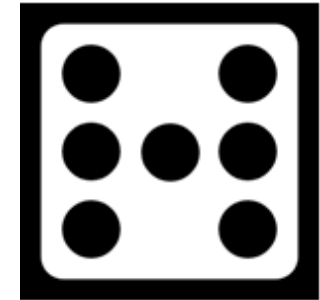
6) Data Breach



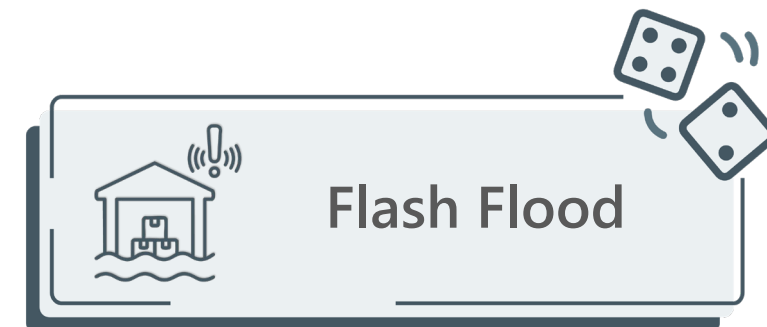
7) Flash Flood



8) AI Innovation



Reset



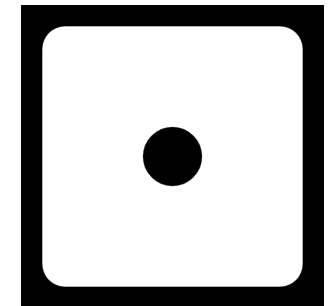
A flash flood at one of your warehouses has forced the disposal of its entire inventory. You will need to optimize your recovery efforts to minimize the financial impact on your business.

# Disruption 7 – Flash Flood

Main Impact	Impact 2	Impact 3	Impact on students' strategies
Scrap all existing inventory in a random warehouse			Students must optimize their recovery while minimizing the additional costs and carbon emissions caused by a new procurement cycle and the required internal transfers.

Impact	Default values	New values
Inventory of the impacted regional warehouse	Current inventory	All inventory has been lost

Event	Warehouse Impacted
1	Central (03)
2	North (03N)
3	South (03S)
4	West (03W)



Reset

# Random Disruption – Round 3



1) Cold Spell



2) Carbon Decree



3) Supplier Disruption



4) Hub Gridlock



5) System Glitch



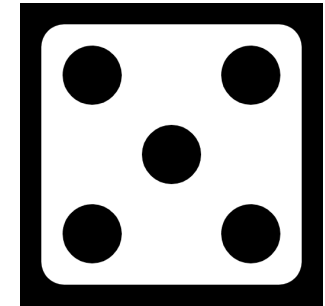
6) Data Breach



7) Flash Flood

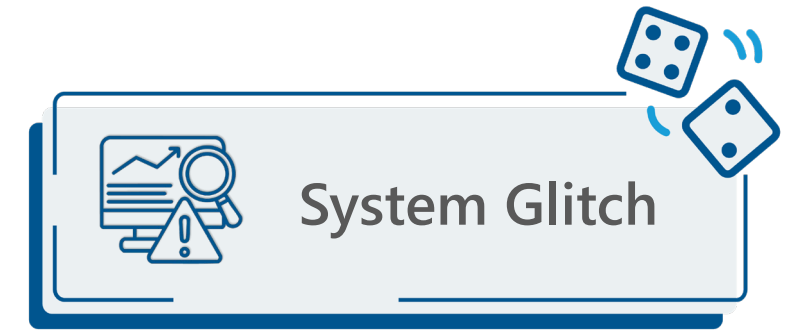


8) AI Innovation



Reset





An issue with your ERP system has caused certain reports to become unavailable.

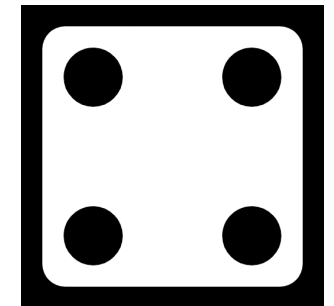
To restore access, you will need to engage consultants to resolve the problem. Alternatively, rely on other information sources to support your decision-making and monitor your operations.

# Disruption 5 – System Glitch

Main Impact	Impact 2	Impact 3	Impact on students' strategies
Some reports are broken and require an investment to restore functionality.			Students must decide whether to hire a consultant to fix the reports or manage their business using alternative sources of information.

Impact	Default values	New values
Cost to unlock each report	Available for free	5 000 €/report

Event	Reports Impacted
1	Inventory ZMB52 and SSB Stock Transfers
2	Sales ZVA05, ZVC2, and SSB Sales Orders
3	Procurement ZME2N and SSB Purchase Orders
4	Inventory and Sales
5	Inventory and Procurement
6	Sales and Procurement



# Thank you!

Learn more about ERPsim

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