ERPsim

Start of Term Webinar / 2023 Edition

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Webinar
Online | January 9, 2024

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

Agenda

1. Welcome
2. Highlights of 2022-2023
3. ERPsim licensing, training, certification
4. ERPsim 2023-2024
   - New Game(s)
   - New and improved features
   - New Class Management system
5. Q&A

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Highlights of 2022-2023

- ERPsim was used in more than 250 universities!
- Launch of the new Manufacturing Sustainability game
- Improvement to existing games
- New transactions to improve gameplay and game support
- New per-event licensing
- Revamp of the certification program
- Digital badging for certifications and competitions
- Launch of “SAP ERPsim Challenges”

Game-based Learning for ERP

ACADEMIC

19+ years in use
3 000+ faculty trained

Every year, more than
6 000+ simulations
are played by
25 000+ students
across
250+ universities
from around the world

COMMERCIAL

Many large organizations, such as Boeing, Coca-Cola, 3M, Kraft, Caterpillar, Pfizer and SAP, are using ERPsim to train their end-users on ERP systems.

BÅTON

RESEARCH

Several researchers have started using ERPsim to run experimental protocol in IS.

Visit
http://erpsim.hec.ca/research

WINNER OF THE

2013 Prix de l'innovation pédagogique Cidegef/FNEGE

2007 Majdi Najm Award

2006 HEC Montréal Award for teaching excellence for an assistant professor

2005 HEC Montréal Award for the use of technology in teaching

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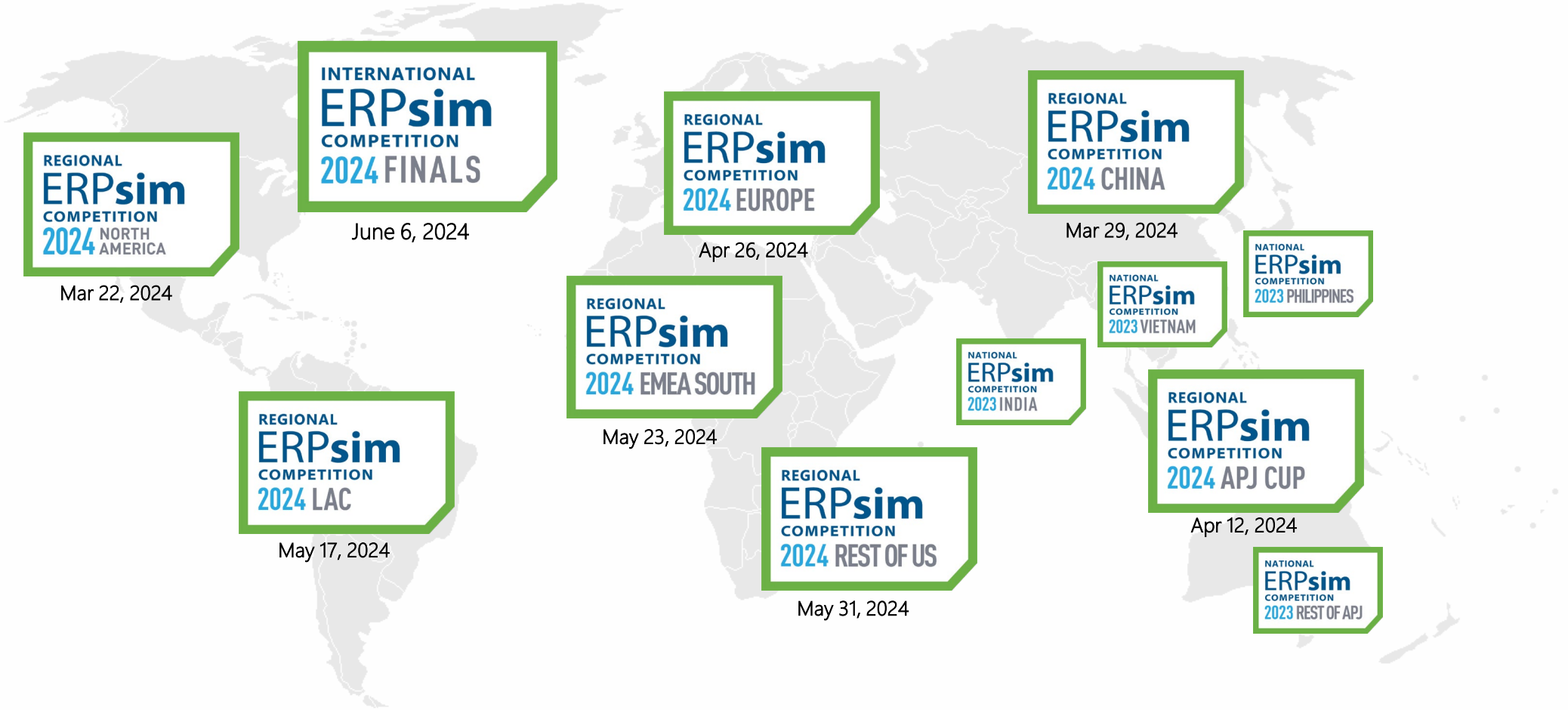
ERPsim Competitions 2024



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ERPsim Licensing Options

Does not include UCC hosting fees

Individual licenses

Purchased directly by students
Valid for one course, for the full semester

Bulk purchase

Pricing adjusted to UN Human Development Index
Inquire for a quote

Event-based pricing

For a short-term use (competitions, gameathons, open house days, recruitment days, intra-university games, intro courses)
Limited access to instructional assets

Free use for research

For qualified experimental research

Pricing and Support

Does not include UCC hosting fees

ERPsim License

$57 CAD per student, valid for one course (max. 6 months)

Effective price from August 1st 2023 to July 31st 2024.
May change at anytime.
Visit https://erpsim.hec.ca/buy for conditions.

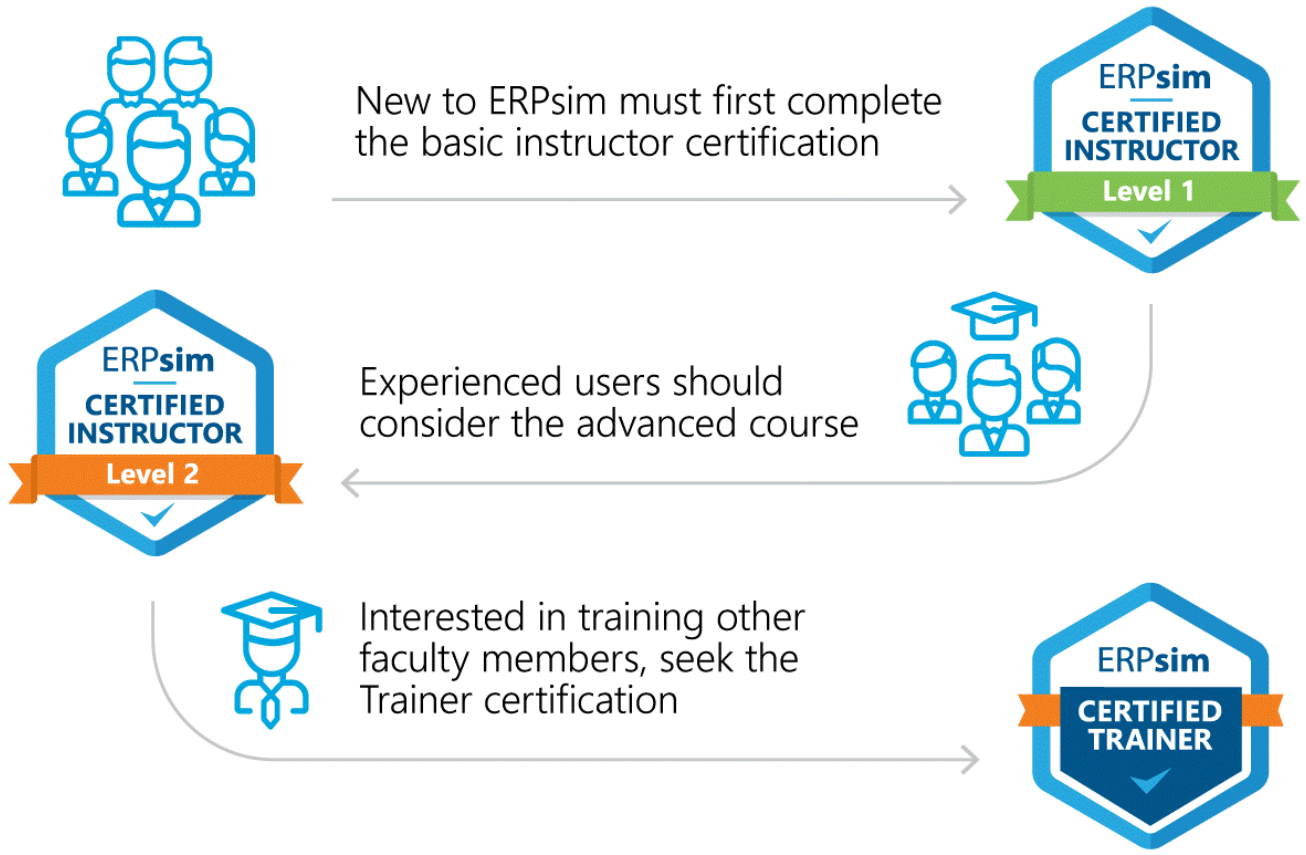
In the event of a disparity between the price presented on this slide and the one on https://erpsim.hec.ca/buy, the latter shall prevail.

The license includes

- For the student:
  i. Access to the simulation game
  ii. Access to the pedagogical material (job aids, participant's guide, slides, self-training videos, etc.)

- For the professor:
  i. Ability to start and manage any of the game scenarios, unlimited for the duration of the course
  ii. Access to technical and pedagogical support from HEC Montréal

ERPsim Training and Certification



Training available as a
self-paced online course
and
in-person

Get started at
erpsim.hec.ca/certification

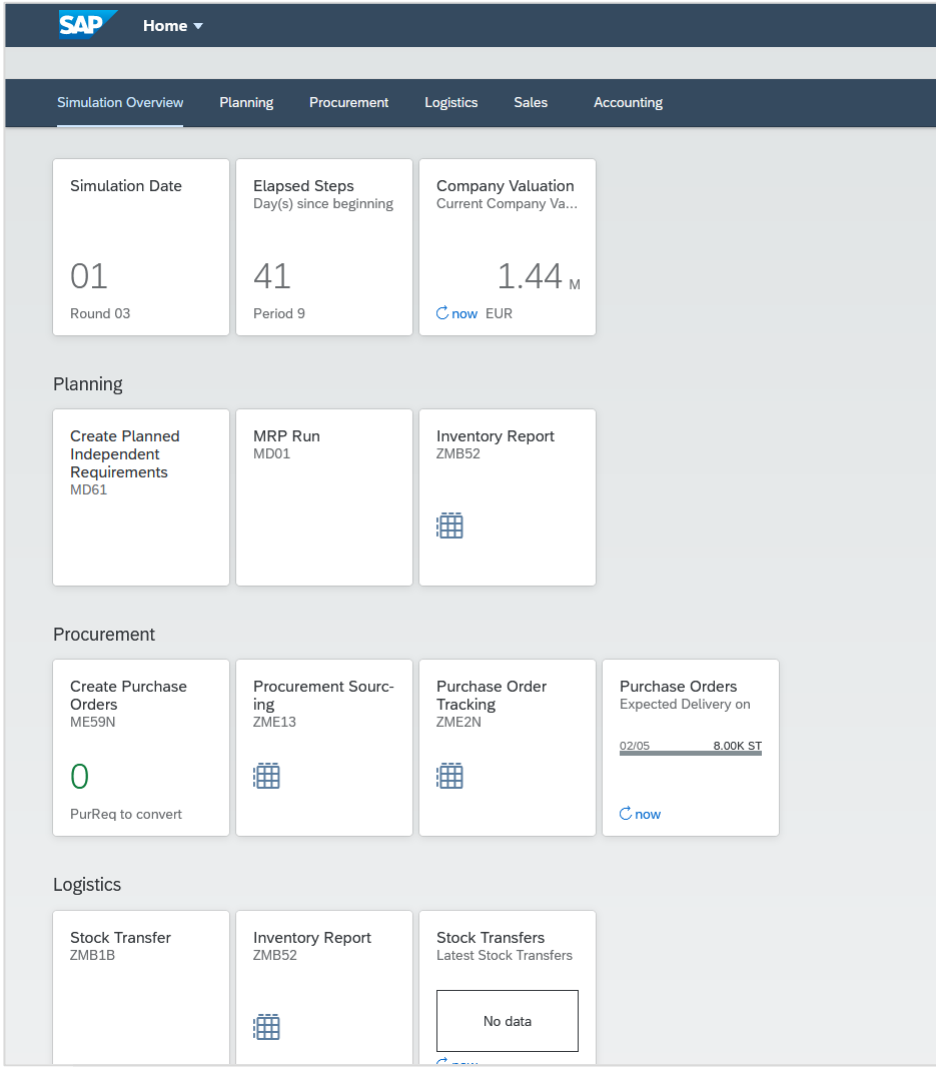
FACULTY HIGHLIGHT SERIES

- A series of interviews showcasing the work of faculty members
- Learn more about their experience, teaching best practices, research projects, and tips and tricks using ERPsim
- A new entry showcased every two weeks!

erpsim.hec.ca/faculty-highlight-series

SAP System

Version	SAP S/4HANA 2022
Supported UI	SAP Fiori and SAP GUI
Analytics	SAP standard reports Smart Business OData Service 2.0
Languages (BETA)	English, French, Spanish, German



SAP Fiori Launchpad configured for the Logistics Extended game

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New Game Scenario

Manufacturing Sustainability

- Maintain profitable operations while keeping carbon footprint low
- More variables in decision making
- Customize it to your liking

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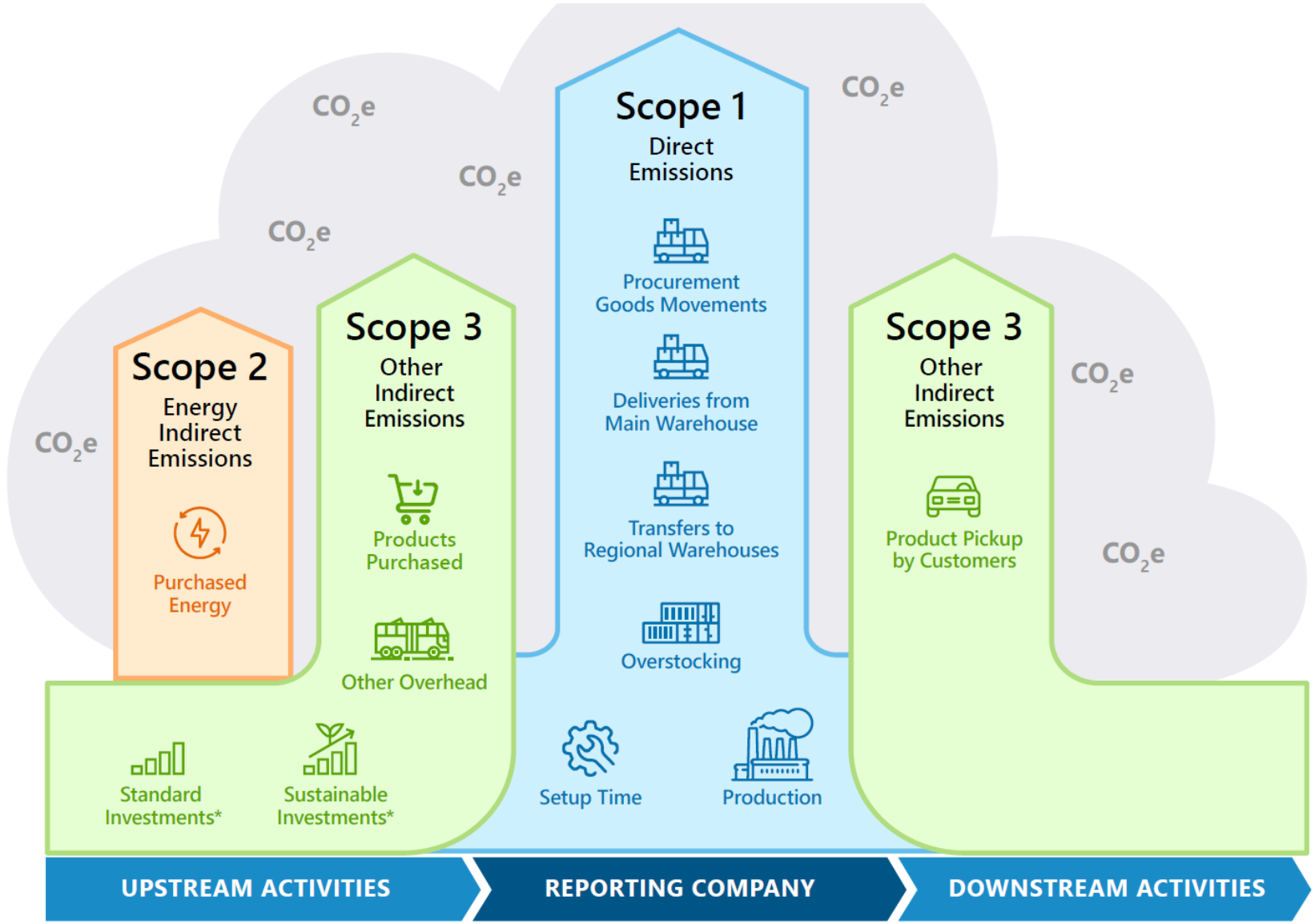

* Investments include capital goods purchases (e.g., solar panels, additional machinery or electric vehicles) and consultants business travels.

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Improvements for Sustainability Scenarios

For both Logistics and Manufacturing

- Carbon footprint has now an impact on company valuation

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New game in development

Retail game retired from the lineup

A new game is currently under development. Stay tuned!

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Launch a Simulation
Simulation Monitoring
Instructor Reports

End/20 2/12 Time per Step 00:00:03

Simulation Paused...

SERVER: Ross · CLIENT: 304 · USER: erpsim | ERPsimWS_2023R05_1

Simulation Monitoring / Manufacturing In

You can navigate between rounds to display past results

Info Viewer Leaderboard

Results for Round: « 1 2 »

Financial Statements - R2

Team	Credit ratings	Interest Rate (%)	Rank	Company valuation	Cumulative Net Income	Total sales	Gross Margin (%)	Net Margin (%)	ROE (%)	ROA (%)	D/E (%)	Mktg/S (%)	Round Net Income	Round Productivity	Round Sales per Team
A	AAA+	6.000	1	52,596,126.00	876,602.10	2,155,394.76	67.440	40.670	4.199	4.199	0.000	0.000	446,135.42	80.000	1,085,294.76
B	AAA+	6.000	2	31,520,481.60	525,341.36	1,635,700.00	67.382	32.117	2.559	2.559	0.000	0.000	94,874.68	40.000	565,600.00
C	AAA+	6.000	3	8,528,001.60	142,133.36	1,070,100.00	67.171	13.282	0.706	0.706	0.000	0.000	(288,333.32)	0.000	0.00

Cumulative Net Income

Team	
Team A	876,602.10
Team B	525,341.36
Team C	142,133.36

Company valuation

Team	
Team A	52,596,126.00
Team B	31,520,481.60
Team C	8,528,001.60

Total sales

Team	
Team A	2,155,394.76
Team B	1,635,700.00
Team C	1,070,100.00

Both leaderboard and comparator features are now on the same screen

ERPsimLab HEC MONTRÉAL BÂTON

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ERPsim Client Setup
ZSTART

Control Panel
ZCONTROL

User Management
ZUSER
0
Account(s) locked

External Links
ZLINK

Scrap Inventory
ZSCRAP

Loan Repayment
ZLOAN

Troubleshooting

Process Goods Movements Errors
COGI
0
Error(s) found

Predefined Confirmation Processes
CO1P

Rejected Production Orders
ZREJECTED
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

New transactions

ZLINK

- Provides interface to give links to students at specific rounds

ZRPA

- AI-based forecast transaction for the Digital Transformation curriculum

ZFB50

- Makes investment decisions easy
- Only available in MNF Sustainability for now

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New transactions (admin only)

ZREJECTED

- Allows modifying and releasing production order with “release rejected” status

ZSCRAP

- Allows scrapping inventory of select companies and add financial impact accordingly

ZLOAN

- Allows reimbursing any team’s bank loan in one click, using available cash from said team

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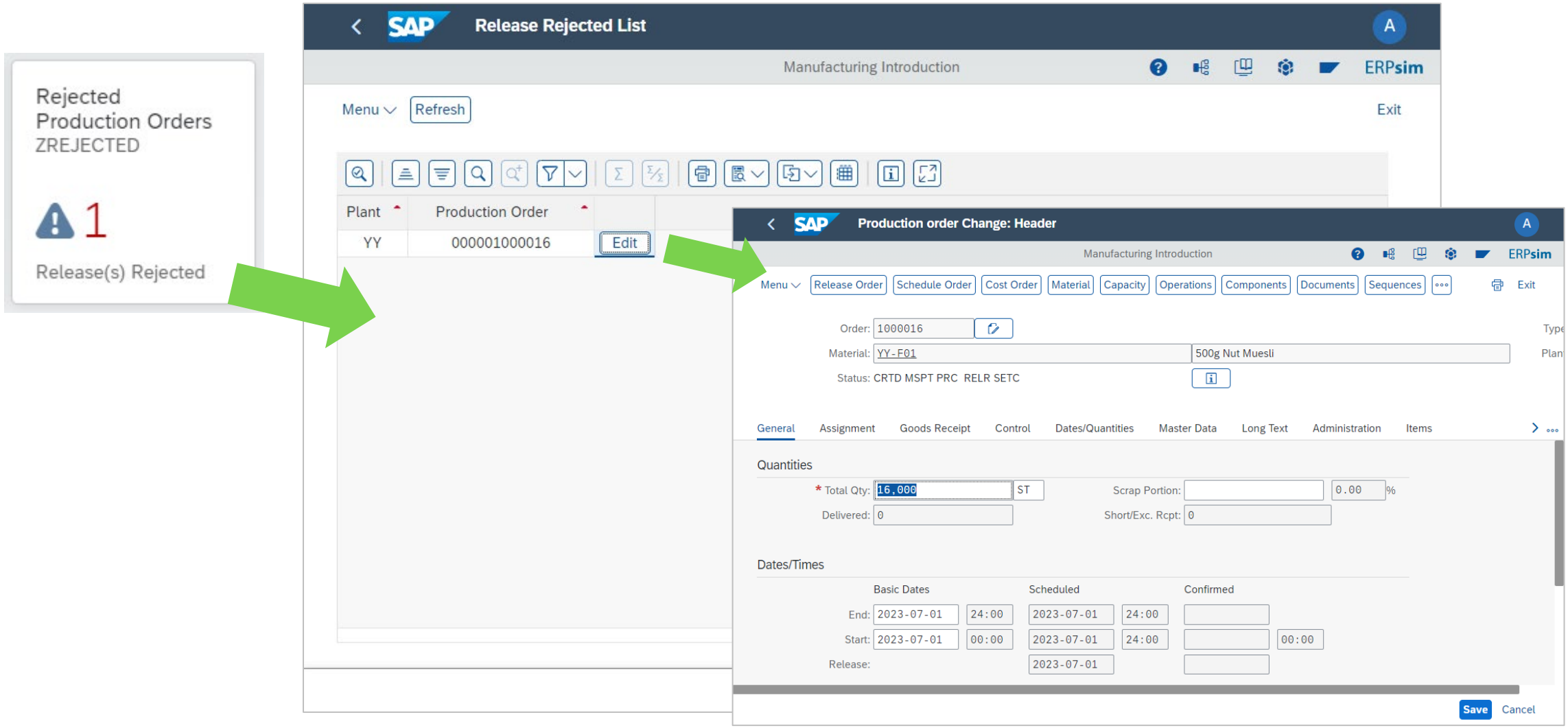
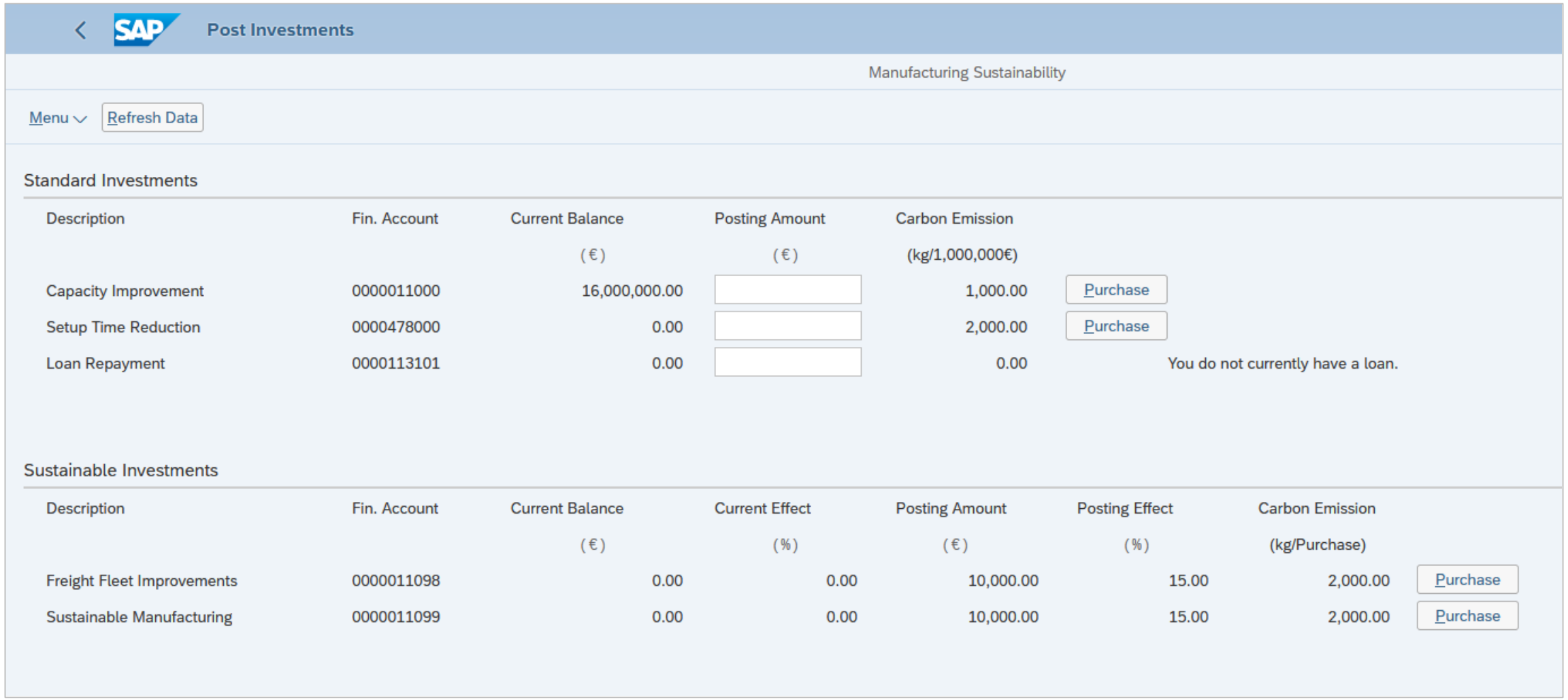
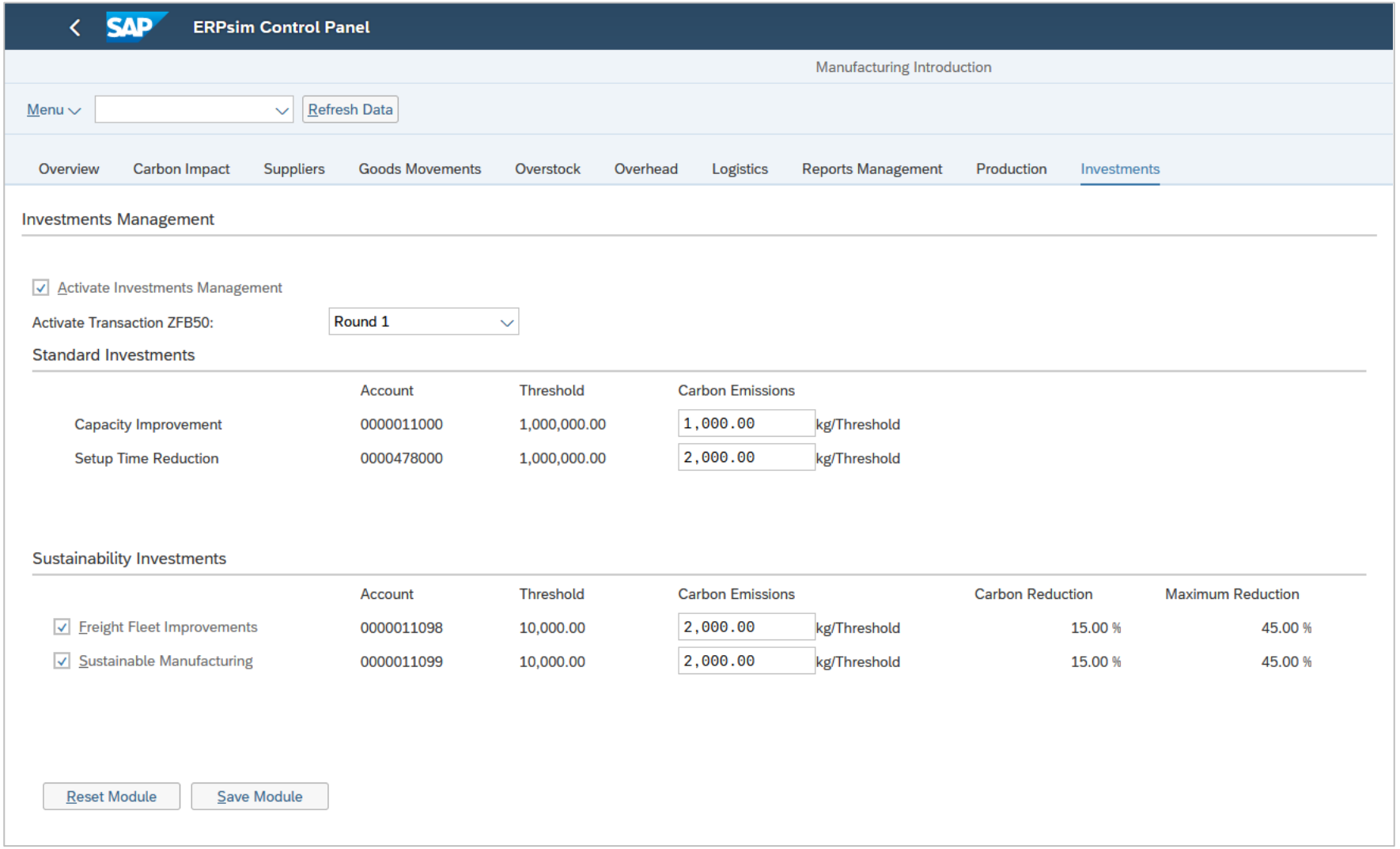
ZREJECTED – Fix Rejected Prod. Orders



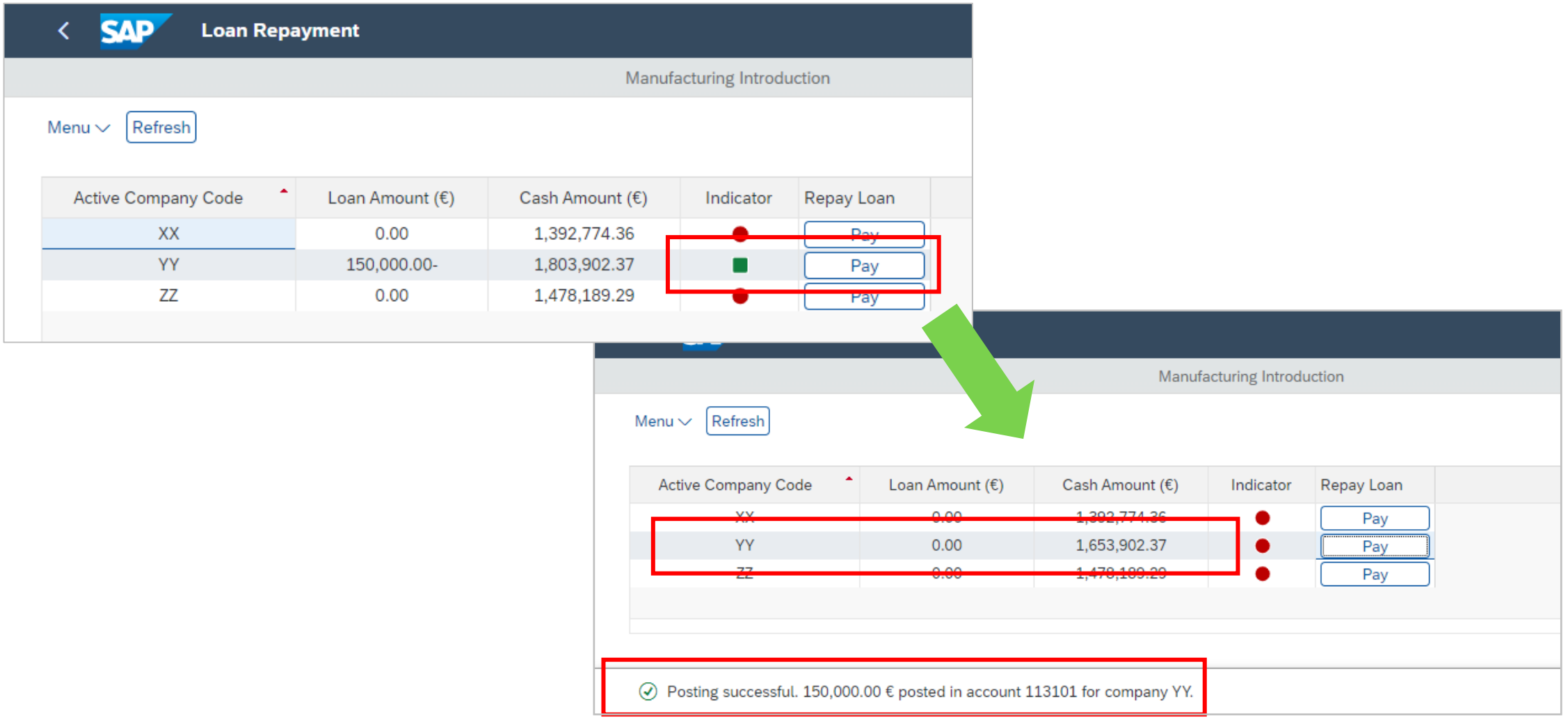
ZFB50 – Investments



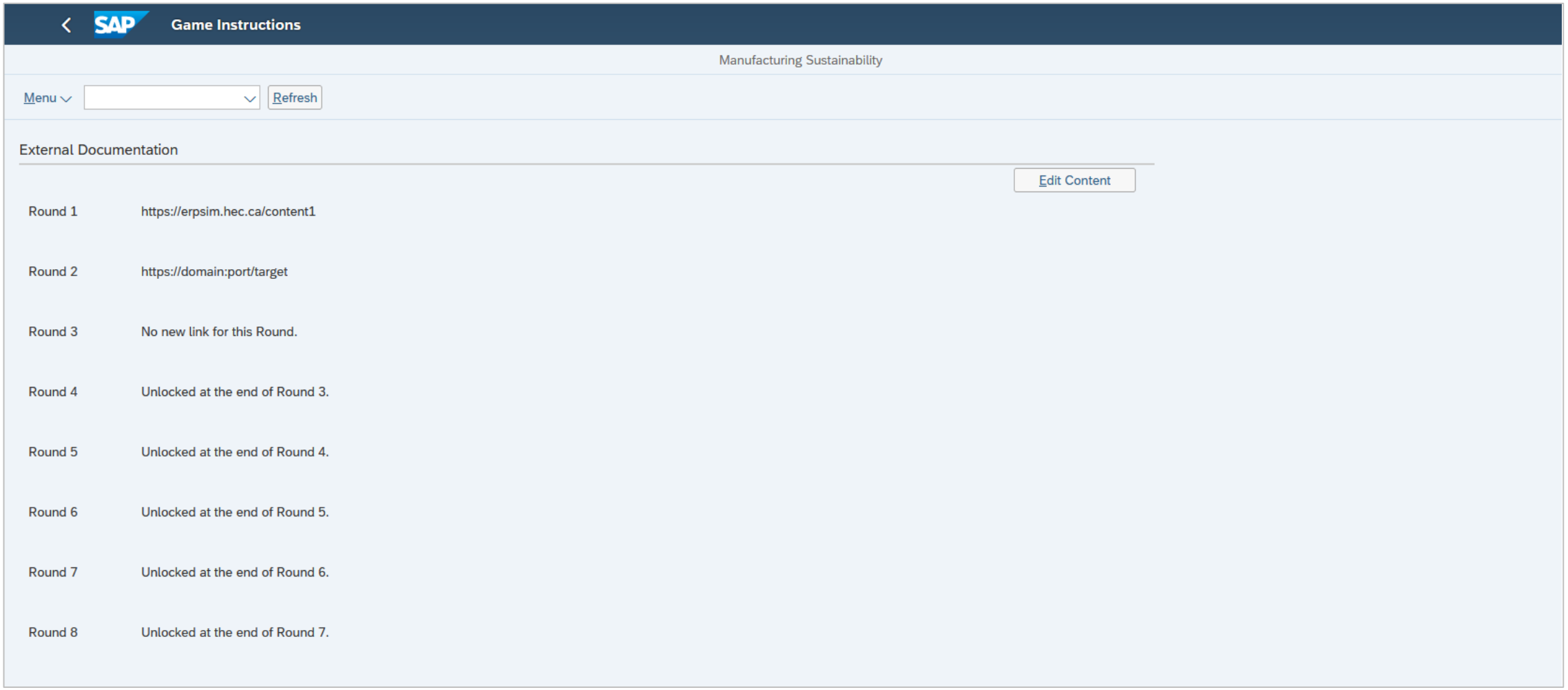
ZFB50 – Investments



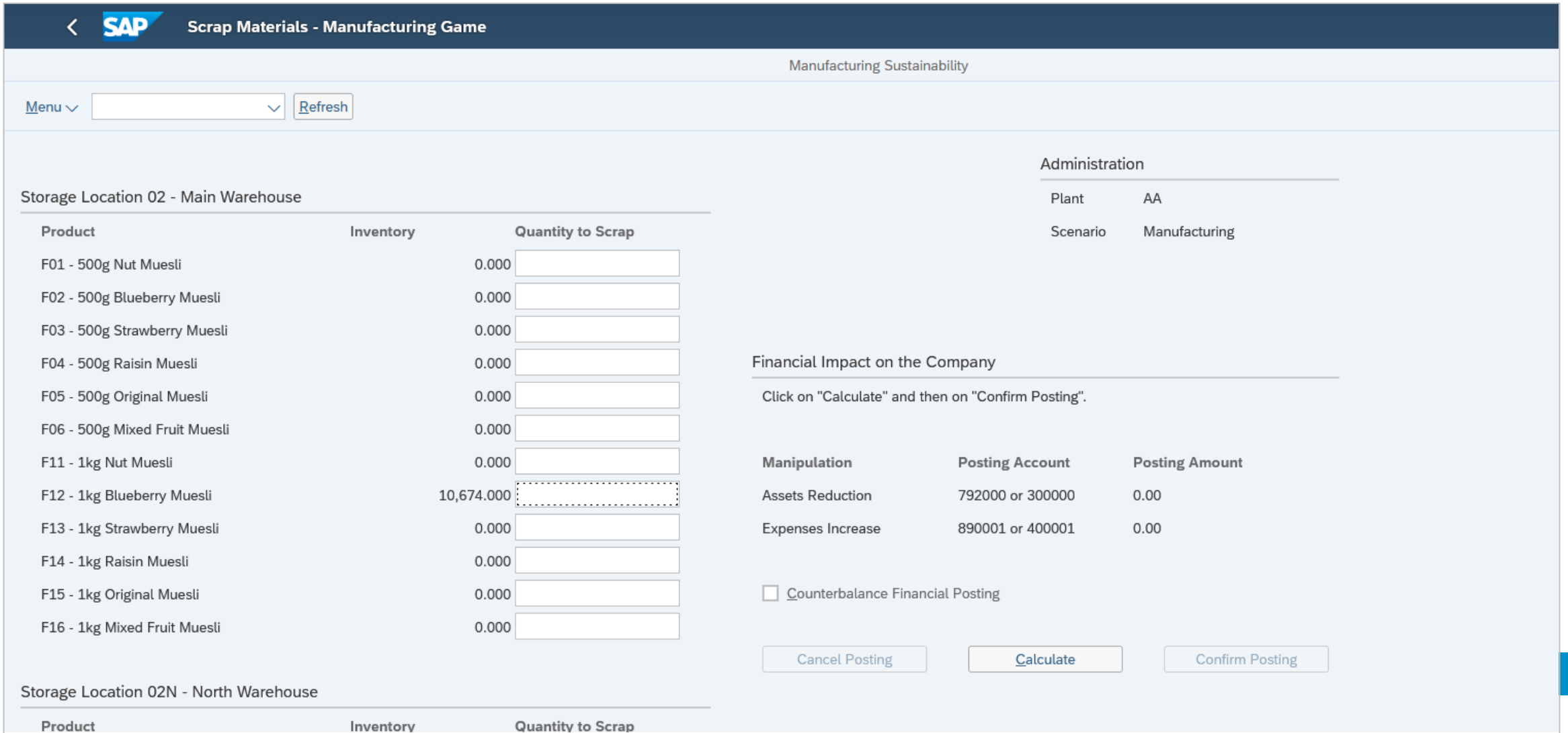
ZLOAN – One-click Bank Load Repayment



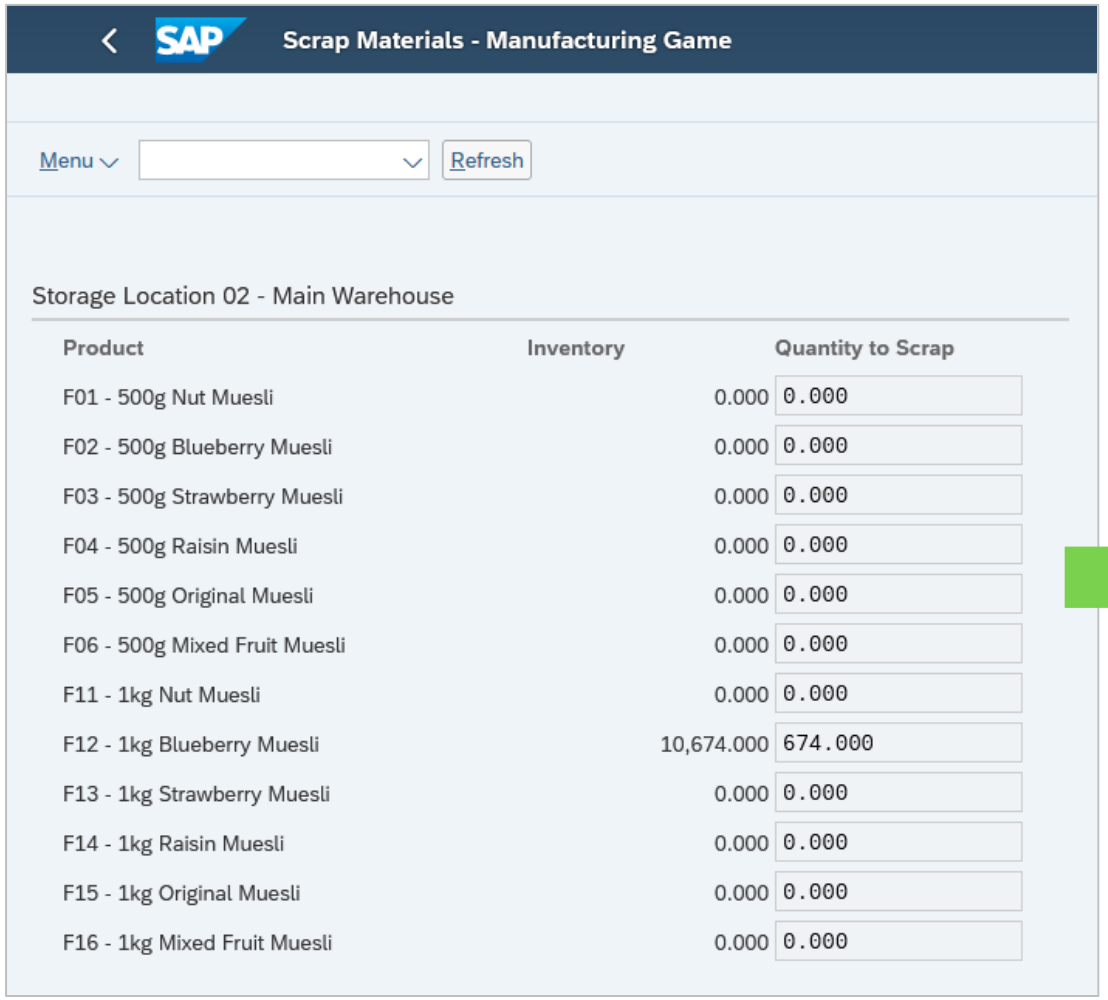
ZLINK

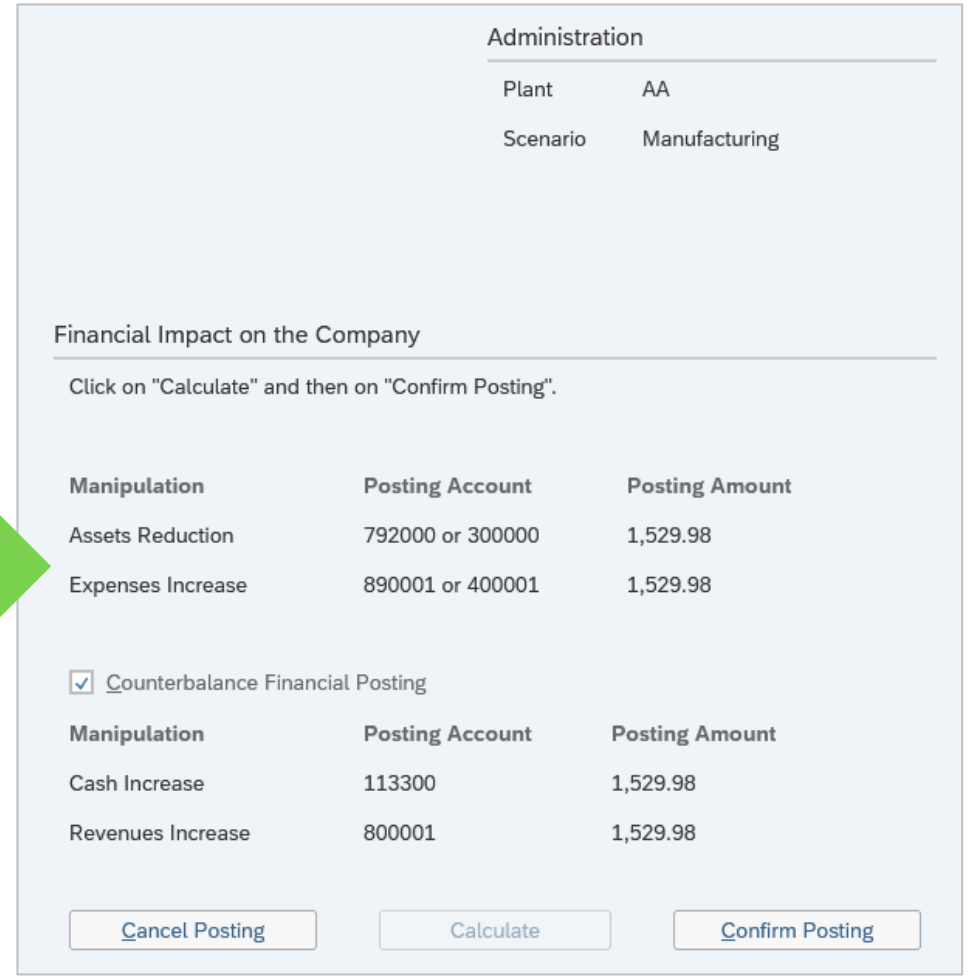

Game Instructions
Manufacturing Sustainability
Menu
Refresh
External Documentation
Edit Content
Round 1 https://erpsim.hec.ca/content1
Round 2 https://domain:port/target
Round 3 No new link for this Round.
Round 4 Unlocked at the end of Round 3.
Round 5 Unlocked at the end of Round 4.
Round 6 Unlocked at the end of Round 5.
Round 7 Unlocked at the end of Round 6.
Round 8 Unlocked at the end of Round 7.

ZSCRAP – Eliminate Excess Inventory

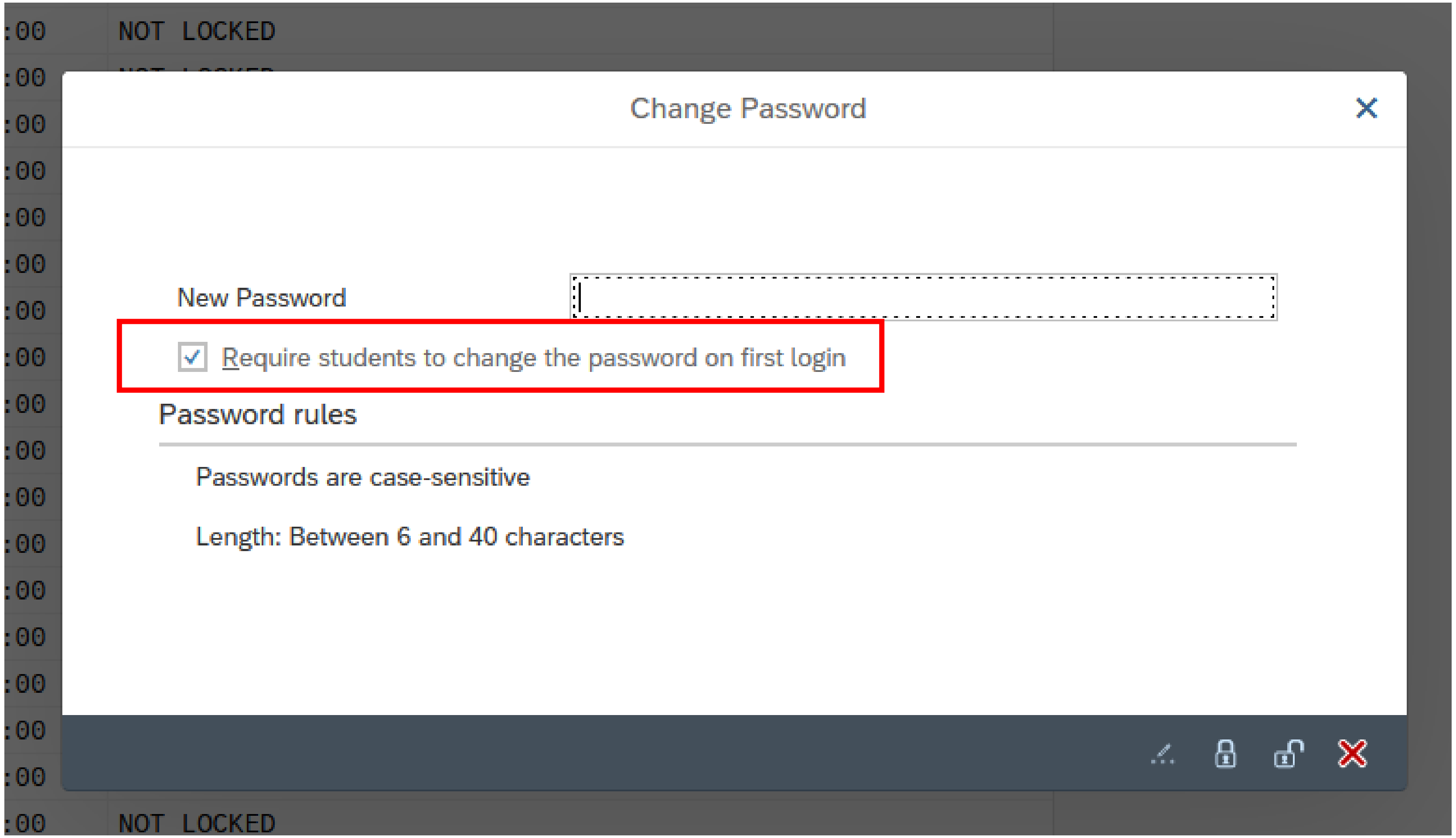


ZSCRAP – Eliminate Excess Inventory

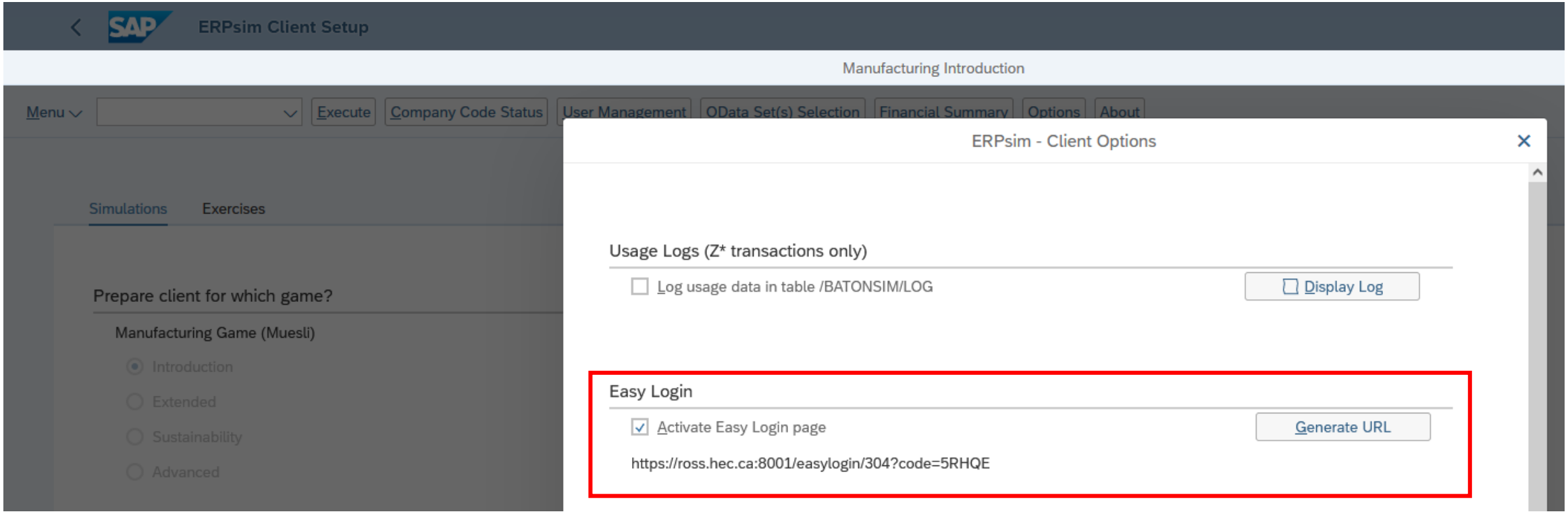




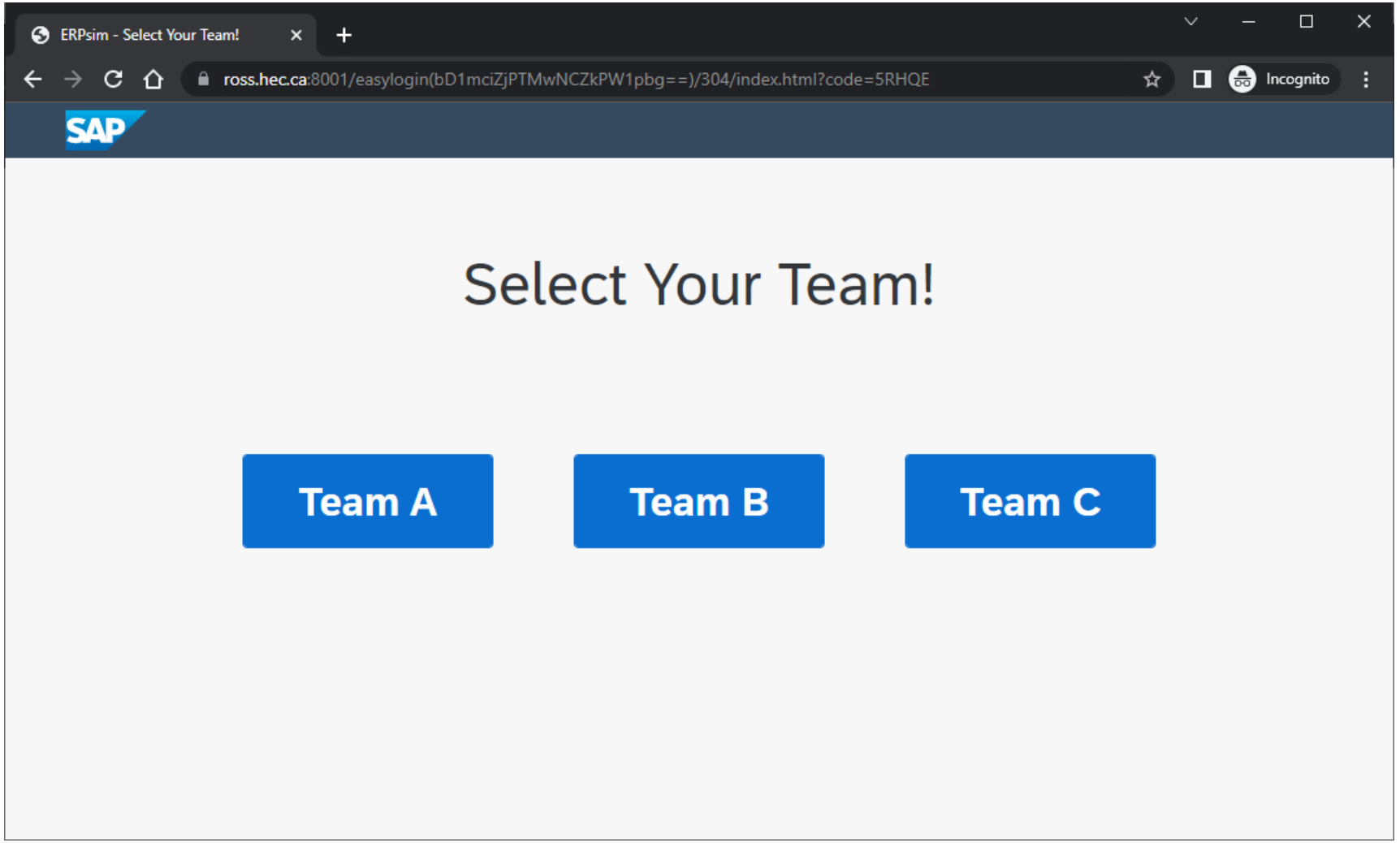
ZUSER


NOT LOCKED
Change Password
New Password
Require students to change the password on first login
Password rules
Passwords are case-sensitive
Length: Between 6 and 40 characters
NOT LOCKED

Easy Login


ERPsim Client Setup
Manufacturing Introduction
Menu
Execute
Company Code Status
User Management
OData Set(s) Selection
Financial Summary
Options
About
Simulations
Exercises
Prepare client for which game?
Manufacturing Game (Muesli)
Introduction
Extended
Sustainability
Advanced
ERPsim - Client Options
Usage Logs (Z* transactions only)
Log usage data in table /BATONSIM/LOG
Display Log
Easy Login
Activate Easy Login page
Generate URL
https://ross.hec.ca:8001/easylogin/304?code=5RHQE

Easy Login


ERPsim - Select Your Team!
ross.hec.ca:8001/easylogin(bD1mciZjPTMwNCZkPW1pbg==)/304/index.html?code=5RHQE
Incognito
SAP
Select Your Team!
Team A
Team B
Team C

Demo of the new Class Management system

ERPsim Academic Edition 2023

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Job Aids, Slides, Guides, Videos

- All job-aids, slides and guides updated for academic year 2023-2024
- Available in English and French
- For videos, available with French, English, and Spanish subtitles

HEC MONTRÉAL ERP SIMULATION GAME Manufacturing Game
powered by ERPsim

Manufacturing Introduction Game

User: $_1 to $_9
Initial password: ERPSIM

Adapted for Fiori and for SAP GUI with Fiori Visual Theme Activated
© ERPsim Lab, HEC Montréal
Last Update: July 12, 2021

Nut	Blueberry	Strawberry	Raisin	Original	Mixed
$$-F01 / $$-F11	$$-F02 / $$-F12	$$-F03 / $$-F13	$$-F04 / $$-F14	$$-F05 / $$-F15	$$-F06 / $$-F16
500g 1kg	500g 1kg	500g 1kg	500g 1kg	500g 1kg	500g 1kg
Starting Inventory: 30 000 units each	Starting Inventory: 30 000 units each	Starting Inventory: 30 000 units each	Starting Inventory: 30 000 units each	Starting Inventory: None	Starting Inventory: None
35% wheat 35% oat 30% nut 1 box / 1 bag	35% wheat 35% oat 30% blueberry 1 box / 1 bag	35% wheat 35% oat 30% strawberry 1 box / 1 bag	35% wheat 35% oat 30% raisins 1 box / 1 bag	50% wheat 50% oat 1 box / 1 bag	30% wheat 30% oat 40% fruits & nuts 1 box / 1 bag

CUSTOMERS

DC12

DC 12: Grocery Chains
Payment Time: 10-20 days

Approximate Market Size
€360 000 per team per week

SUPPLIERS

Lead time (days)	1-5
Payment time (days)	20

PRODUCTION CONSTRAINTS

Capacity (units/day)	16 000
Setup time (hours)	8
Minimum/Maximum Lot Size	16 000/16 000

STORAGE CAPACITY AND COSTS

Product type	Current space	Cost per additional 50 000 units*
Finished products	250 000 boxes	€500/day
Raw materials	250 000 kg	€1 000/day
Packaging (bags and boxes)	750 000 units	€100/day

FIXED COSTS (€ paid each 5 days)*

Labor	10 000
Manufacturing overhead	7 500
S, G & A	20 000
Depreciation (Building)	1 250
Depreciation (Equipment)	33 333

*Billed automatically

2/2

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Curriculum Objectives

1. Simulate and experience a Digital Transformation journey
2. Not to learn SAP or ERP systems
3. Have a conversation with students and create discussion
4. Understand that technology is necessary but not sufficient to guarantee the success of digital transformation initiatives and that effective change management is equally important;
5. Learn to critically reflect on prior experiences with digital transformation initiatives and on why these initiatives did or did not deliver value to the organization;

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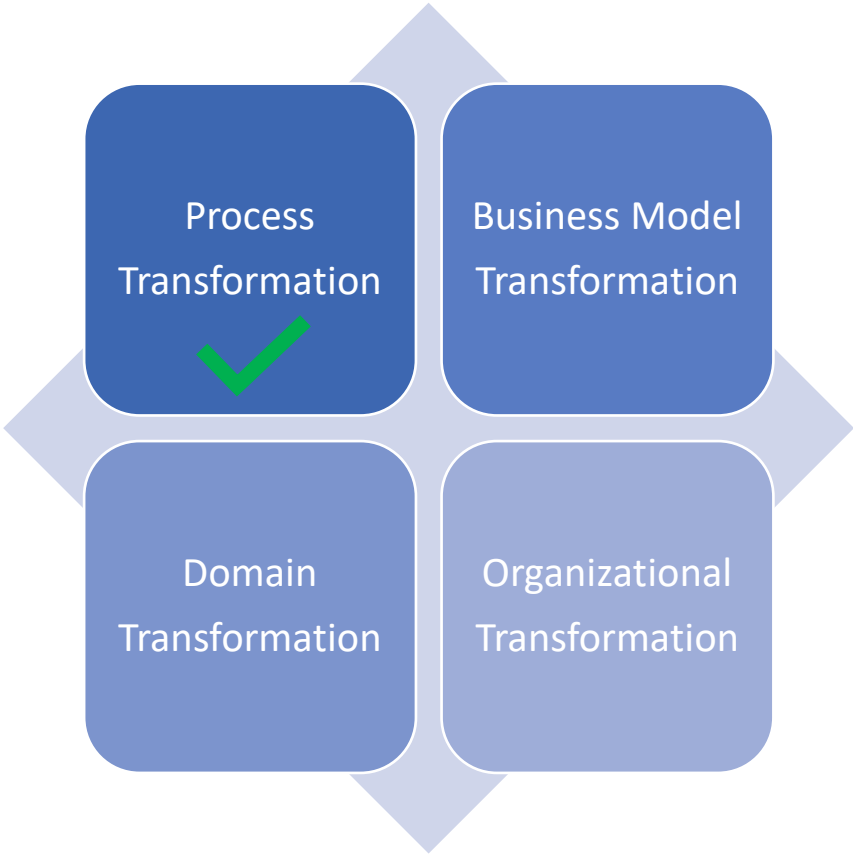
Types of Digital Transformation

The ERPsim Digital Transformation Game focuses on Process Transformation

- Evaluating and improving processes
- Rethinking current strategies
- Change management due to introduction of new technology



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ERPsim Digital Transformation Experience

Target Audiences

- Non-IT executives such as MBA or Executive MBA students
- Graduate programs in MIS
- Courses with focus on digital transformation
- Courses with focus on change management

Format

- In-person, remote, or hybrid
- 6 to 8 hours of class time
- Full-day events or multiple sessions

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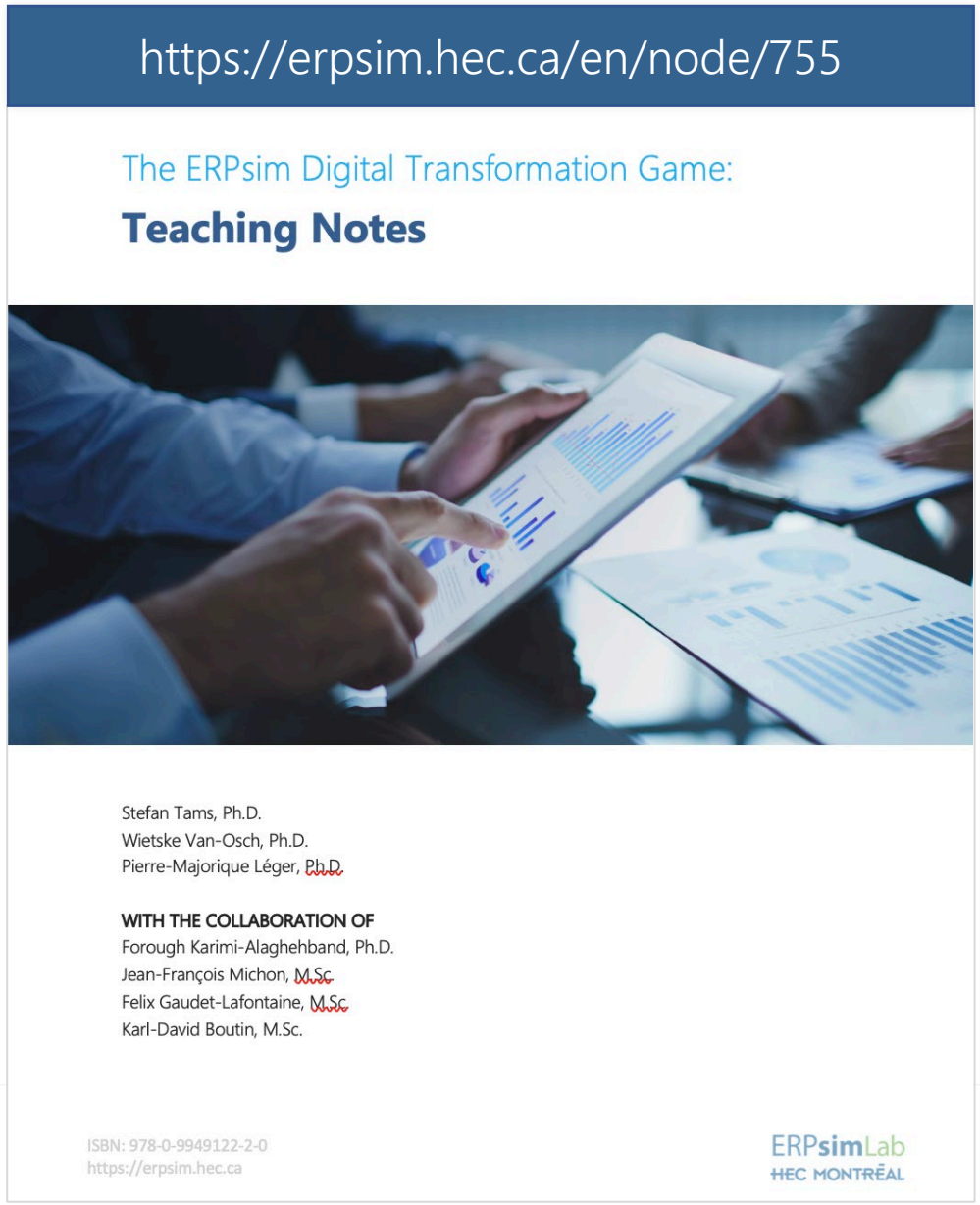
Teaching Notes

- Outlines the most comprehensive game design:
  - Flexible and customizable
  - Presents alternative endings
- Provides discussion and debrief points for every round
- Provides detailed prep steps for students and instructors: before/during/after each round

https://erpsim.hec.ca/en/node/755



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Questions

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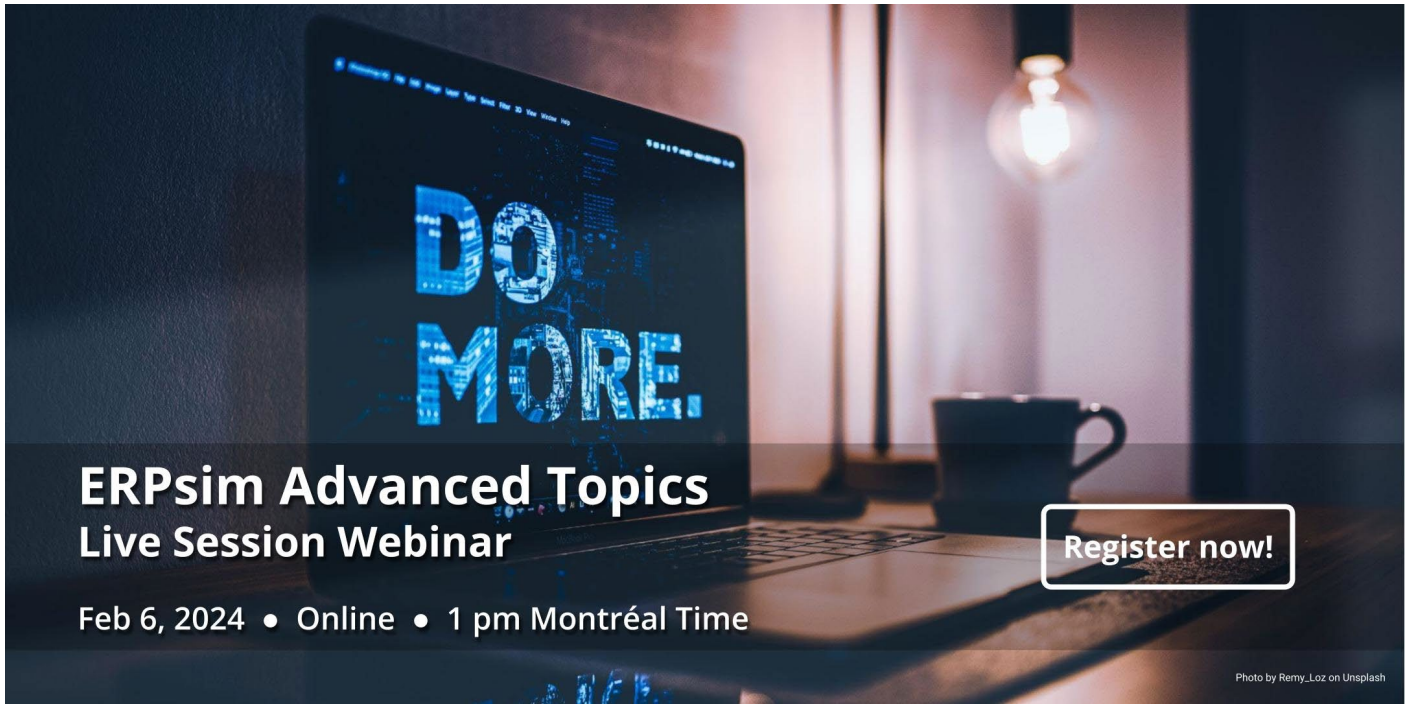
Leap Year Sustainability Challenge

- Month-long competition
- Logistics Sustainability
- Asynchronous
- Weekly brainteasers
- SAP UA Full Members
- One team per University

Advanced Topics

- Run ERPsim unattended
- Activate “Easy Login”
- Maximize Company Sets use
- Reuse market preferences
- Recover from playing mistakes
- Bring twists during gameplay
- ….



SAP NAAC 2024 & ERPsim UGM

Save the Date

Jun 17-20, 2024

ERPsim Lab 20th Anniversary Celebration

Montréal, Canada

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Thank You!

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