

ERPsim

Introduction to ERPsim

Please Note:

This webcast is being recorded and will be shared on the ERPsim website where it will be accessible to other ERPsim certified faculty. Please be aware that questions you ask via phone line 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) will not intentionally be shared. If you do not wish to be recorded, please disconnect from the webcast at this time.

ERPsim Lab
Montréal, Canada | January 21, 2020

ERPsimLab
HEC MONTRÉAL

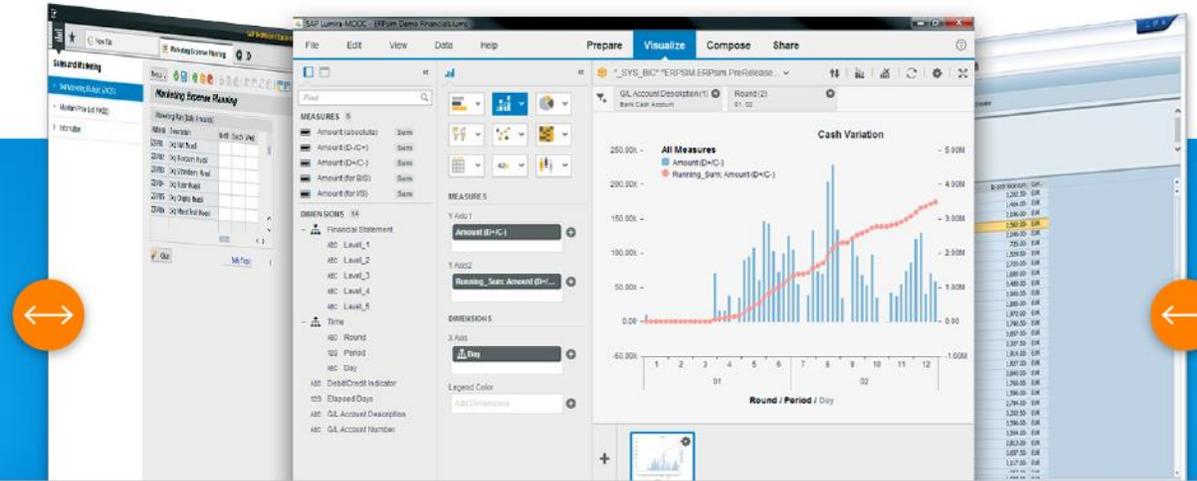
Serious games to learn enterprise
systems and business analytics

Contents

- What is ERPsim?
 - Scenarios available
 - Curriculum examples
- Highlights of the 2019-20 edition
- Special features of ERPsim
- Live Demo
- Benefits of using ERPsim
 - Student perspective
 - Professor perspective
- Preview ERPsim 2020 release

What is ERPsim?

ERPsim



Virtual System

- 1 Automation of administrative tasks
- 2 Simulation of a market
- 3 Simulation of the passing of time

ERP System



Available for SAP S/4HANA

Participants

- 1 Business decisions
- 2 Business analytics

Multiple Scenarios Available



MANUFACTURING



LOGISTICS



RETAIL



DISTRIBUTION



Game Features



Real-time business decisions	✓	✓	✓	✓
Adaptable difficulty scenarios	✓	✓	✓	
Operational excellence	✓	✓		✓
Business analytics and data visualisation	✓	✓	✓	
SAP Fiori UI	✓	✓	✓	✓
ERP configuration & master data	✓			

Curriculum Examples

- Management Information Systems
- MBA
- Focused on 3 high-level goals
 - Enterprise Systems
 - Business Processes
 - Analytics
- Blocks linked with other resources that are available

	Sessions	Activities (Resources)
	Intro – general session	Brief overview and introduction of the game’s scenario (Participants Guide)
Goals 1&2: Enterprise Systems & Business Processes Integration	Session 1: Integration of business processes in an ERP	More in-depth explanation of the game’s scenario Playing ERPsim Manufacturing Introduction game (job-aid, slides)
	Session 2: Operational and accounting integration within an ERP	Explanation of the game’s scenario: Extended version Playing ERPsim Manufacturing Extended game (job-aid, slides)
Goal 3: Analytics and Business Intelligence	Session 3: Business Intelligence: use of analytical tools for improved decision-making within an ERP	Using the game data for each team to build visualizations and eventually a dashboard for improved decision making during the game (ERPsim for SAP HANA OR OData Services on Knowledge Base) ¹
Final Game Day	Session 4 (morning and afternoon): final game and assessment of teams based on their simulation performance and reflective presentation	Morning: Playing ERPsim Manufacturing Extended game using developed dashboard for each team Afternoon: Team presentation

Curriculum Examples

ERPsimLab
HEC MONTRÉAL | 15TH ANNIVERSARY

Simulations for ERP ▾ Simulations for Data Science ▾ The Lab ▾ Portals ▾ My Account ▾

Learning Portal

Content Games **Content for Instructors**

Home » Learning Portal » Content for Instructors

Content for Instructors

This restricted section of the Learning Portal gives you access to content and tools reserved to instructors.

Content

Curricula

- Introduction to MIS/IT - Curriculum Example
- MBA - Curriculum Example

Exercises

- Configuration Exercise - The Almond Case

Teaching Notes

- Teaching Notes - Distance Learning with ERPsim Games
- Teaching Notes for Instructors

Content

- Job Aids
- Slides
- Guides
- Books
- Videos
- Exercises

Games

- Distribution
- Logistics Introduction
- Logistics Extended
- Logistics Platinum
- Manufacturing Introduction
- Manufacturing Extended
- Manufacturing Advanced
- Retail Introduction
- Retail Extended

1. Log into your account

2. Go to
Portals → Learning Portal
and then "Content for Instructors"

3. Examples available

Email: erpsim@hec.ca

URL: <https://erpsim.hec.ca/en/learning/instructors#content-curricula>

Highlights of the 2019-2020 edition

1

Running on the **latest version of SAP S/4HANA**

2

Support the **Fiori Launchpad** and **SAP GUI**

3

SAP Smart Business enabled (in-browser self-service BI)*
Analyse data in real time using OData

4

Major overhaul of instructional assets

* Feature available only for the Manufacturing, Logistics and Retail games

Continuity and evolution

Fiori Launchpad configured for standard SAP transactions as well as Fiori applications

The screenshot shows the SAP Fiori Launchpad interface. At the top, there's a navigation bar with 'SAP' logo and 'Home' dropdown. Below it, the 'Manufacturing Extended' context is shown. The main area has a navigation menu with 'Simulation Overview', 'Sales', 'Production', 'Procurement', 'Planning', and 'Accounting'. The 'Simulation Overview' is selected, showing a 'Simulation Date' of '18 Round 01'. Below this, there are several dashboards categorized by 'Sales', 'Production', and 'Procurement'. The 'Sales' section includes 'Change Price List', 'Marketing Expense Planning', 'Summary Sales Order Report', 'Sales Order Report', 'Price Market Report', and 'Sales Quantity Sold' (104 K). The 'Production' section includes 'Convert Planned Orders', 'Production Report', 'Product Cost Planning', and 'Production to be Produced' (64 K). The 'Procurement' section includes 'Create Purchase Order', 'Purchase Order Tracking', and 'Purchase Orders to be Delivered' (252 K).

KPIs provides cues on possible issues, providing better visibility on operations

This close-up shows the 'Procurement' KPI dashboard. It features three main cards: 'Create Purchase Order' (ME59N) with a value of 8 and a 'PurReq to convert' link; 'Purchase Order Tracking' (ZME2N) with a calendar icon; and 'Purchase Orders to be Delivered' (252 K) with a 'now' link. To the right, there are two data points: 'Foodbroker Inc. 68K' and 'Continental Printin... 184K'.

ERPsim extensions for quick access to reference material and key features

This screenshot shows the ERPsim extensions interface. It features a navigation bar with three icons: a book icon, a gear icon, and a flag icon. Below the icons, the text 'ERPsim' is displayed in a large, bold font.

Adaptable to your pedagogical needs

Round 1

SAP GUI
using standard transactions

The screenshot shows the SAP GUI interface for a Financial Statement report. The report is titled "Financial Statement" and displays the following data:

Financial Statement Item/Account	Tot.Rpt.Pr	Tot.Cmp.Pr
ASSETS	51,000.00	0.00
Current assets	51,000.00	0.00
LIABILITIES	51,000.00-	0.00
Stockholders' equity	51,000.00-	0.00
Profit and loss statement	43,000.00-	0.00
Sales revenue	43,000.00-	0.00
Uses of profits and losses	43,000.00	0.00
Income from P+L	43,000.00	0.00

Round 2

Fiori Launchpad
using standard transactions
and Fiori apps

The screenshot shows the SAP Fiori Launchpad interface for a Financial Statement report. The report is titled "Financial Statement" and displays the following data:

Financial Statement Item/Account	Tot.Rpt.Pr	Tot.Cmp.Pr
ASSETS	51,000.00	0.00
Current assets	51,000.00	0.00
LIABILITIES	51,000.00-	0.00
Stockholders' equity	51,000.00-	0.00

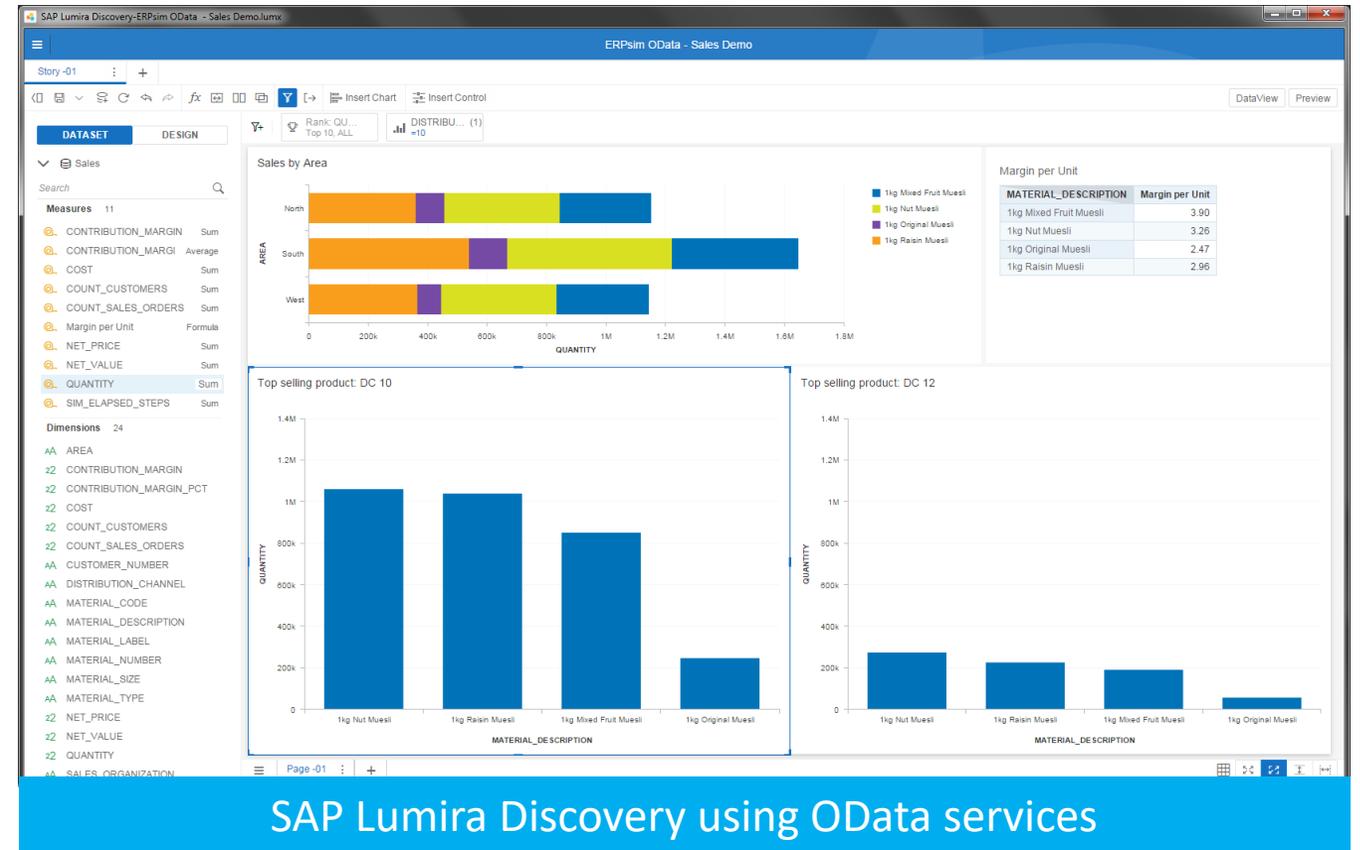
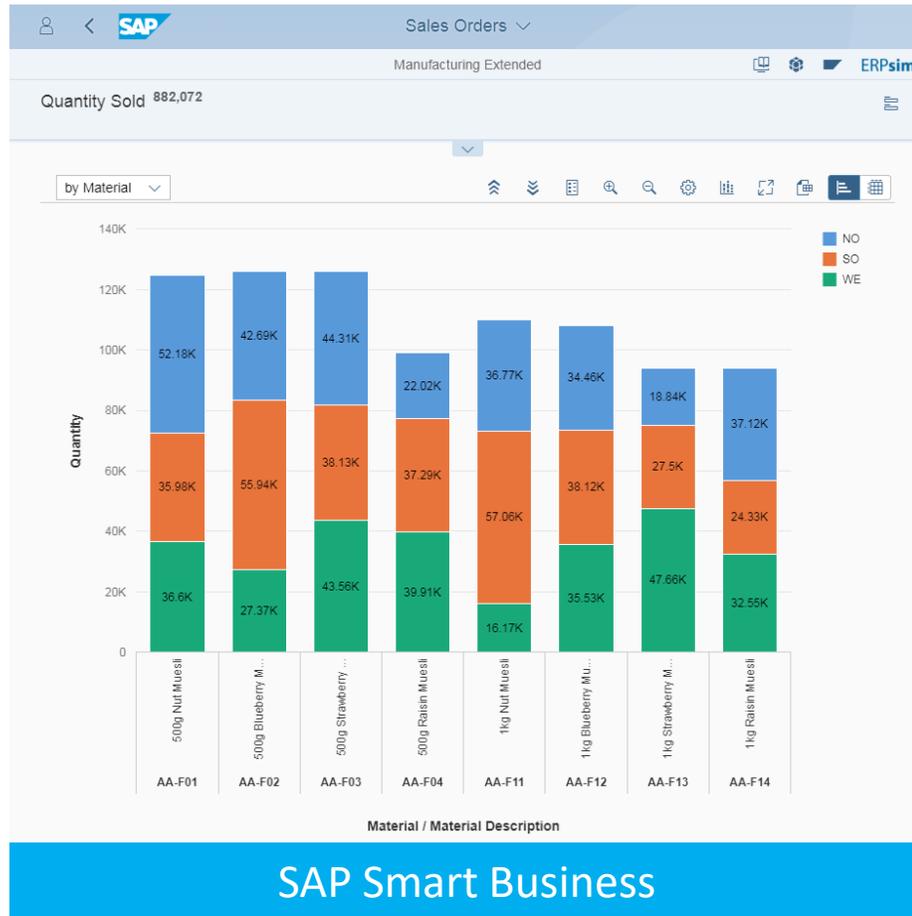
Round 3

Fiori Launchpad
with SAP Smart Business

The screenshot shows the SAP Fiori Launchpad interface with SAP Smart Business. The Procurement section displays the following tiles:

- Create Purchase Order ME59N: 0 PurReq to convert
- Purchase Order Tracking ZME2N
- Purchase Orders to be Delivered: 252 K (Foodbroker Inc. 68K, Continental Printin... 184K)

Flexible use of analytics



Live Demo

ERPsim Academic Edition 2019-2020

© Léger et al. 2004-2019. ERPsim is a proprietary technology developed by researchers at HEC Montréal, École Polytechnique de Montréal and Western Michigan Univ. Visit ersim.hec.ca for more information.

ERPsimLab
HEC MONTRÉAL



Logistics Introduction Game

User: **\$1 to \$9**
 Initial password: **ERPSIM**

Adapted for Belize-themed SAP GUI
 with Fiori features activated

Last Update: January 14, 2020



Milk (\$\$-T01)	
Starting Inventory	950 units
Unit Cost	€22.95



Cream (\$\$-T02)	
Starting Inventory	300 units
Unit Cost	€72.07



Yoghurt (\$\$-T03)	
Starting Inventory	700 units
Unit Cost	€25.85



Cheese (\$\$-T04)	
Starting Inventory	350 units
Unit Cost	€82.68



Butter (\$\$-T05)	
Starting Inventory	400 units
Unit Cost	€59.88



Ice Cream (\$\$-T06)	
Starting Inventory	300 units
Unit Cost	€43.15

CUSTOMERS

DC 16: Retail Stores	
Payment Time	4 days
Approximate Market Size	€12 000 per team/day

SUPPLIERS

Payment Time	5 days
--------------	--------

TRANSPORTATION FEES

Purchasing Cost (from supplier to main warehouse)	€1 000
Main Warehouse to Regional Storage Locations	€100

AUTOMATED INVENTORY REPLENISHMENT

PRODUCT CODE	DESCRIPTION	UNITS (every 5 days)
\$\$-T01	Milk	950
\$\$-T02	Cream	300
\$\$-T03	Yoghurt	700
\$\$-T04	Cheese	350
\$\$-T05	Butter	400
\$\$-T06	Ice Cream	300

WAREHOUSING COSTS

Current Space (Units) (maximum capacity without additional fees)	4 000
Daily Cost per Additional 1 000 Units	€50



Benefits: Students Perspective

- How to **manage a company** in a competitive environment?
- How to **use IT and ERP system** to increase their company's performance?
- How does the **analytics software** work (MS Excel, Tableau, etc.)?
- How to use analytics to stay ahead of **competition**?
- How to **work in a team**?

Benefits: Professors Perspective

- Increased **motivation** amongst students from a competitive environment
- Better **engagement** amongst all students
- Higher **satisfaction** and changed **attitude** towards the course
- Opportunity to grade students based on the **outcomes** from the simulation

PREVIEW: Summer 2020 release

Nine sets of 26 companies (234 total)
to fully support a class for a semester

200 companies
dedicated to exercises
(e.g. cash-to-cash, configuration)

Single account for
ERP and OData services

Richer and more varied datasets
available in real-time

Customizable Fiori Launchpad
and improved Fiori experience

Improvements to some transactions

Mark your calendar!

ERPsim Lab User Group Meeting 2020

June 15th-18th 2020

Registrations open end of January!



Thank you for attending!

Questions & feedback
ersim@hec.ca