ERPsim

Introduction to ERPsim

ERPsim Lab
Montréal, Canada | January 21, 2020
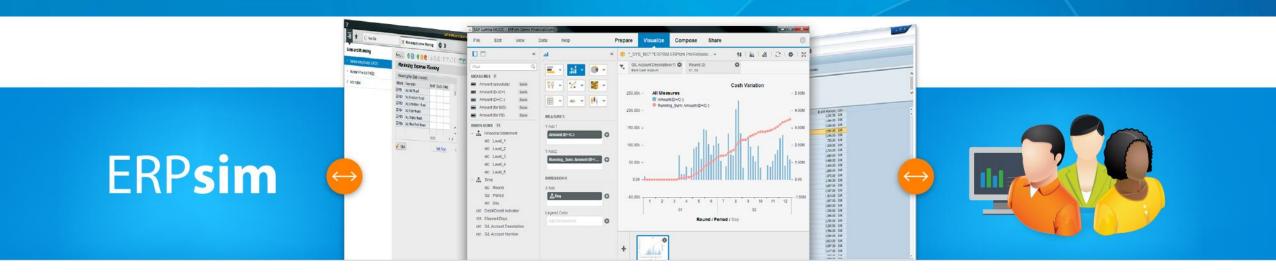
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Serious games to learn enterprise systems and business analytics

Contents

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- Preview ERPsim 2020 release

What is ERPsim?

Virtual System

1 Automation of administrative tasks

2 Simulation of a market

3 Simulation of the passing of time

ERP System

SAP®

Available for SAP S/4HANA

Participants

1 Business decisions

2 Business analytics

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Multiple Scenarios Available

MANUFACTURING

| INTRODUCTION | ADVANCED |
| EXTENDED |

LOGISTICS

| INTRODUCTION | PLATINUM |
| EXTENDED |

RETAIL

| INTRODUCTION | EXTENDED |

DISTRIBUTION

| STANDARD |

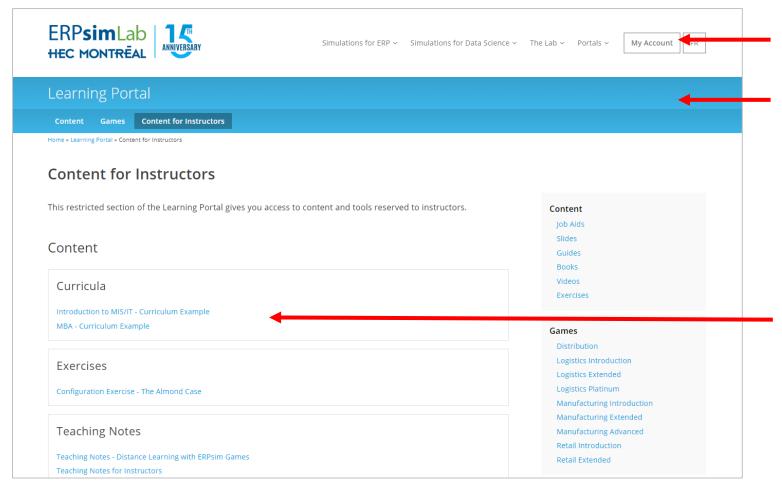| Game Features				
Real-time business decisions	✔	✔	✔	✔
Adaptable difficulty scenarios	✔	✔	✔	
Operational excellence	✔	✔		✔
Business analytics and data visualisation	✔	✔	✔	
SAP Fiori UI	✔	✔	✔	✔
ERP configuration & master data	✔			

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

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
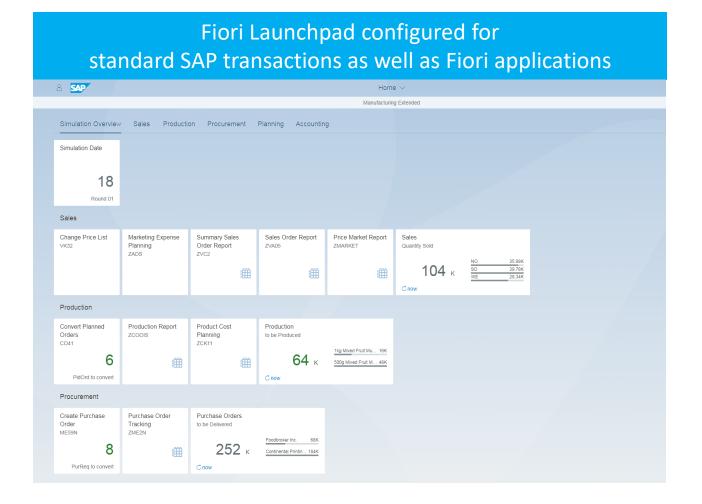
2

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

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

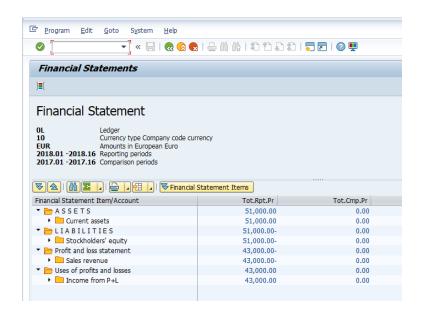ERPsim extensions for quick access to reference material and key features
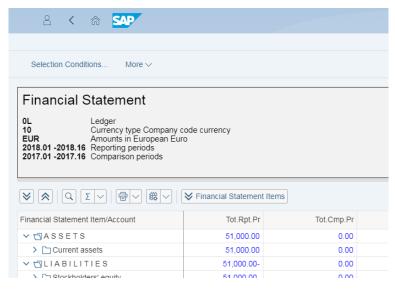
Adaptable to your pedagogical needs
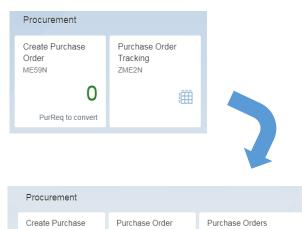
Round 1
SAP GUI
using standard transactions

Round 2
Fiori Launchpad
using standard transactions
and Fiori apps

Round 3
Fiori Launchpad
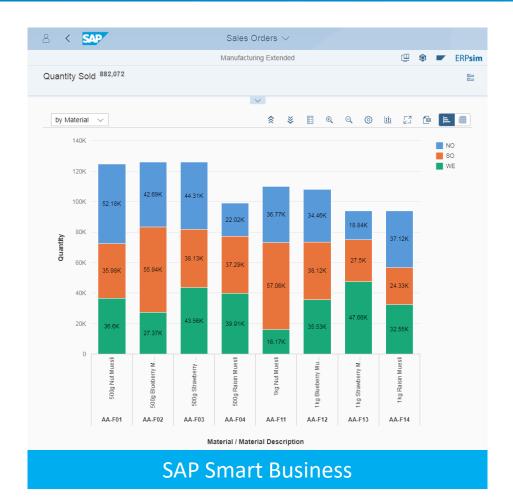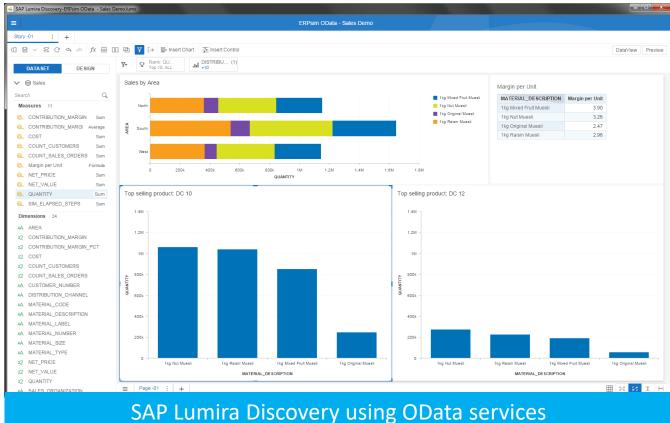with SAP Smart Business

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Flexible use of analytics

SAP Smart Business

SAP Lumira Discovery using OData services

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Live Demo

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Logistics Introduction Game

User:	$1 to $9
Initial password:	ERPSIM

Products

Milk ($$-T01)	Cream ($$-T02)	Yoghurt ($$-T03)	Cheese ($$-T04)	Butter ($$-T05)	Ice Cream ($$-T06)
Starting Inventory: 950 units	Starting Inventory: 300 units	Starting Inventory: 700 units	Starting Inventory: 350 units	Starting Inventory: 400 units	Starting Inventory: 300 units
Unit Cost: €22.95	Unit Cost: €72.07	Unit Cost: €25.85	Unit Cost: €82.68	Unit Cost: €59.88	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

North: 4 Stores
West: 4 Stores
South: 4 Stores

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 <u>2020</u> 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!

ERPsim Academic Edition 2019-2020

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Thank you for attending!

Questions & feedback

erpsim@hec.ca

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