Former la relève de demain avec SAP

Jean-François Michon, M.Sc.
Directeur des opérations, Laboratoire ERPsim

jfm@hec.ca
linkedin.com/in/jfmichon

29 septembre 2022

asug

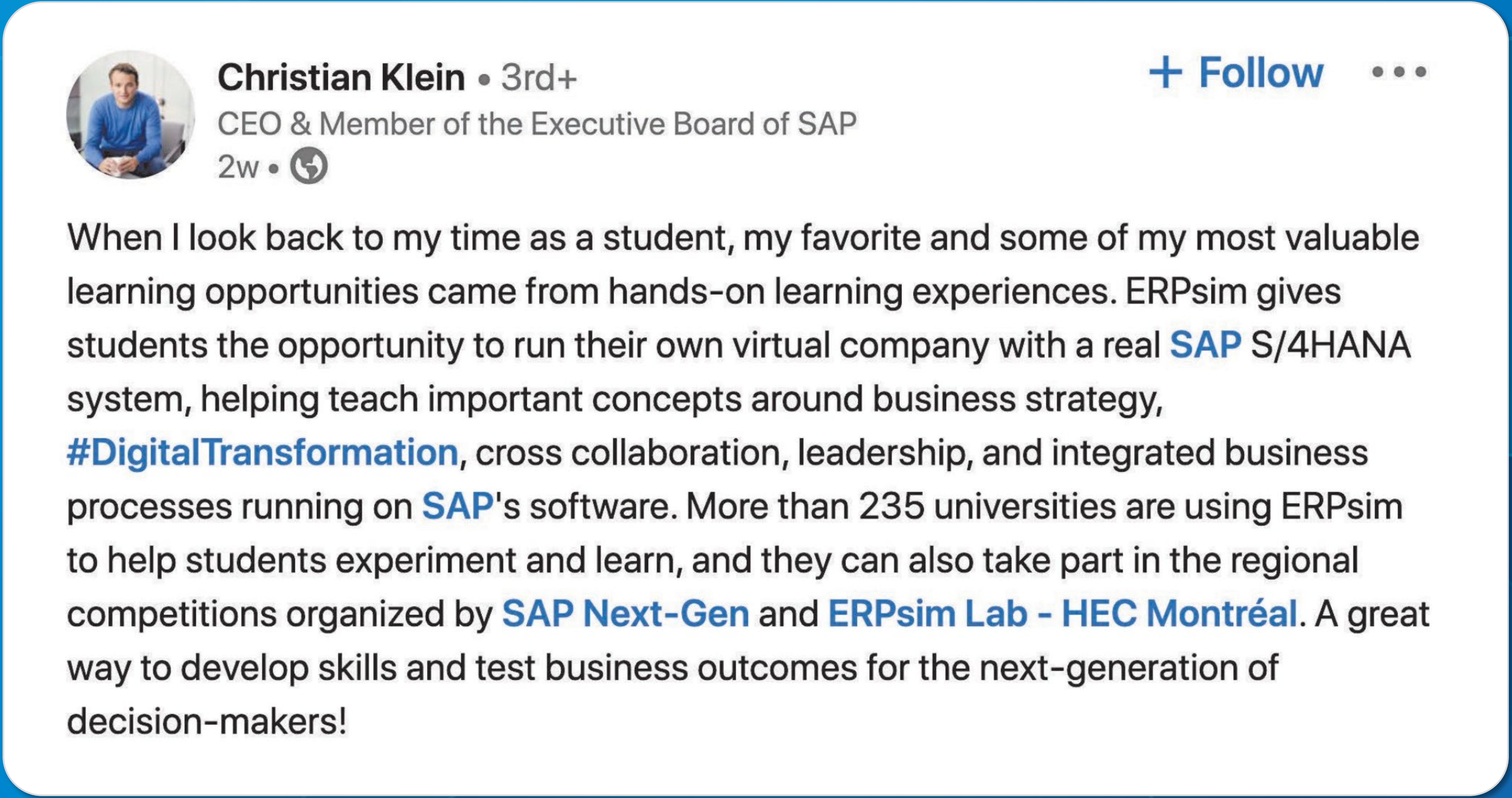
ERPsimLab
HEC MONTRÉAL

Jeux sérieux pour l'apprentissage des systèmes d'entreprise et l'analytique

Jean-François Michon
M.Sc.
Directeur des opérations
Laboratoire ERPsim HEC Montréal

Sergio De La Cruz
M.Sc., MBA
Chargé de développement des affaires
Laboratoire ERPsim HEC Montréal

Guy Couillard
PDG
Baton Simulations



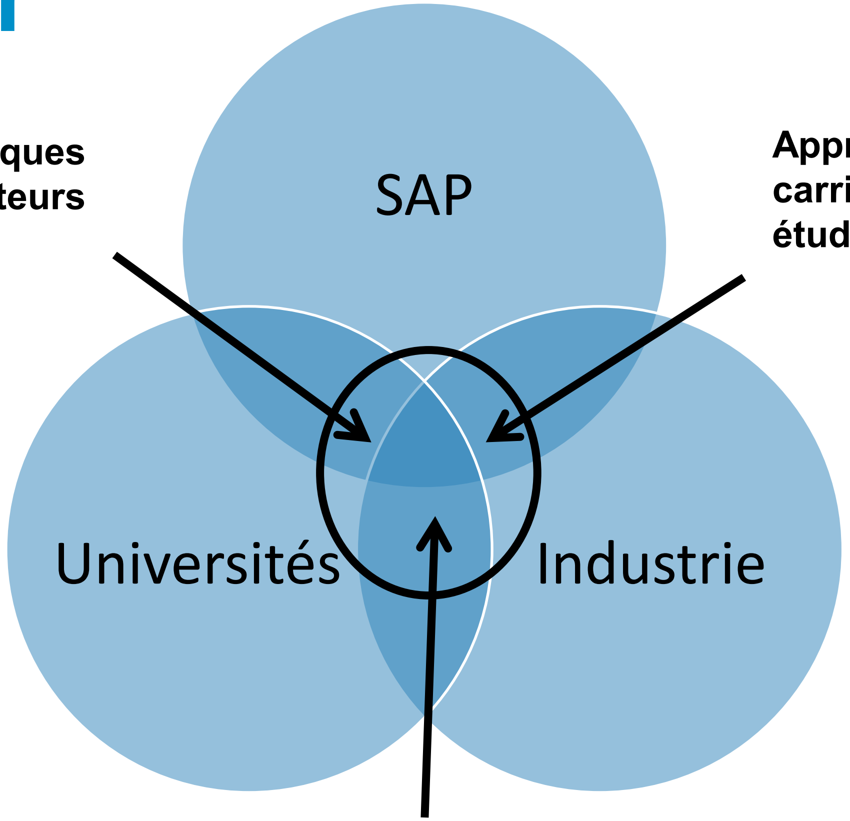
Christian Klein • 3rd+
CEO & Member of the Executive Board of SAP
2w •

When I look back to my time as a student, my favorite and some of my most valuable learning opportunities came from hands-on learning experiences. ERPsim gives students the opportunity to run their own virtual company with a real SAP S/4HANA system, helping teach important concepts around business strategy, #DigitalTransformation, cross collaboration, leadership, and integrated business processes running on SAP's software. More than 235 universities are using ERPsim to help students experiment and learn, and they can also take part in the regional competitions organized by SAP Next-Gen and ERPsim Lab - HEC Montréal. A great way to develop skills and test business outcomes for the next-generation of decision-makers!

“Education Meet Industry” à SAP Sapphire 2022

Design IT.
Create Knowledge.
HPI
Hasso

La collaboration industrie-université à son meilleur



Opportunités pédagogiques innovantes pour les éducateurs

Apprentissage et préparation de carrière incroyables pour les étudiants

L'industrie et SAP préparent les diplômés à l'emploi avec des compétences SAP et un esprit d'innovation

Le Laboratoire ERPsim

ACADEMIQUE

En plus de 17 ans

Plus de 2 900 professeurs formés

En 2021, plus de

5 000 simulations

jouées par

25 000+ étudiants

dans

300 universités

à travers le monde (38 pays!)

RECHERCHE

ERPsim est évidemment disponible pour la recherche et a été cité et employé comme outil de collecte dans plusieurs ouvrages.

Voir
erpsim.hec.ca/research
pour plus de détails

COMMERCIAL

Issu de la valorisation, Baton offre ERPsim à plusieurs grandes organisations, telles Boeing, Coca-Cola, 3M, Kraft, Caterpillar, Pfizer et SAP, afin de les supporter dans leurs initiatives de formation.

BATON

PRIX ET DISTINCTIONS

2013
Prix de l'innovation pédagogique
Cidegef/FNEGE

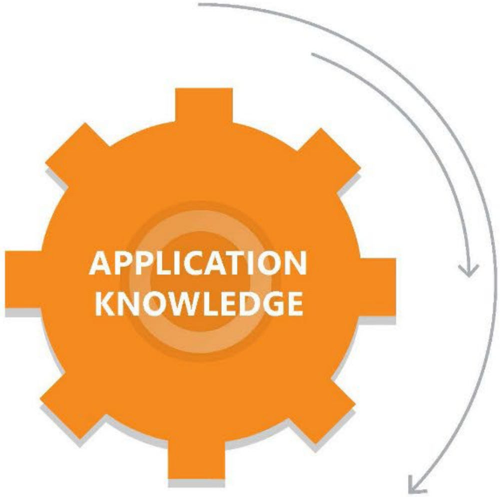
2007
Majdi Najm Award (SAP)

2006
Prix de l'excellence dans l'enseignement pour un professeur adjoint
(HEC Montréal)

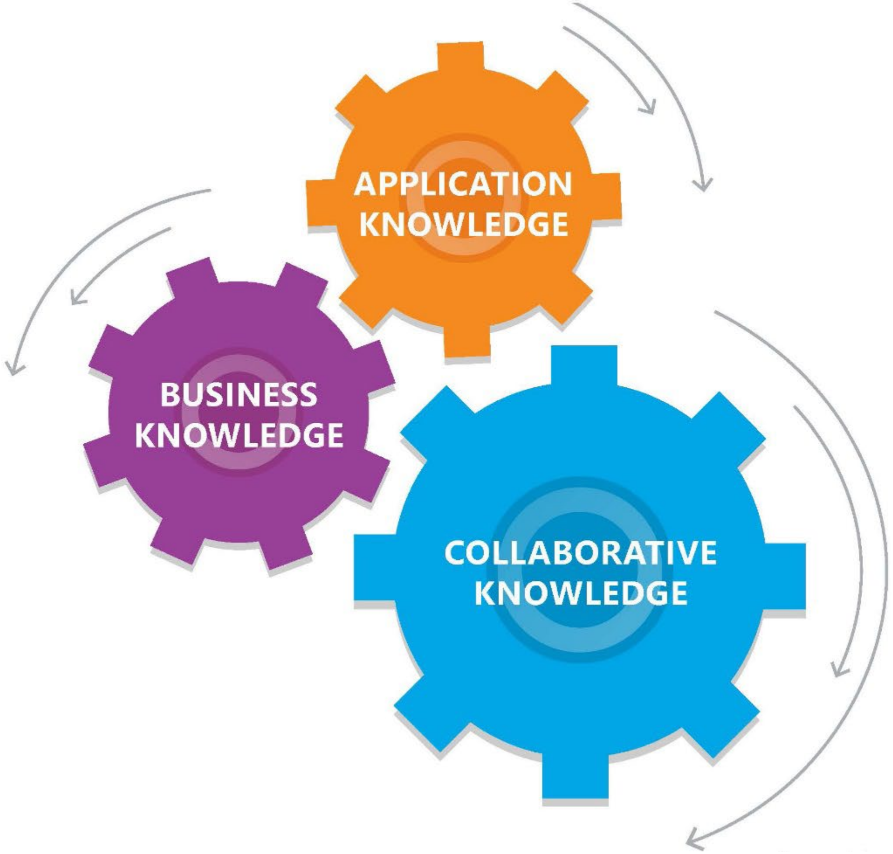
2005
Prix de l'innovation pédagogique pour l'utilisation de la technologie en enseignement (HEC Montréal)

Vers une approche axée sur les compétences

D'une approche standard…

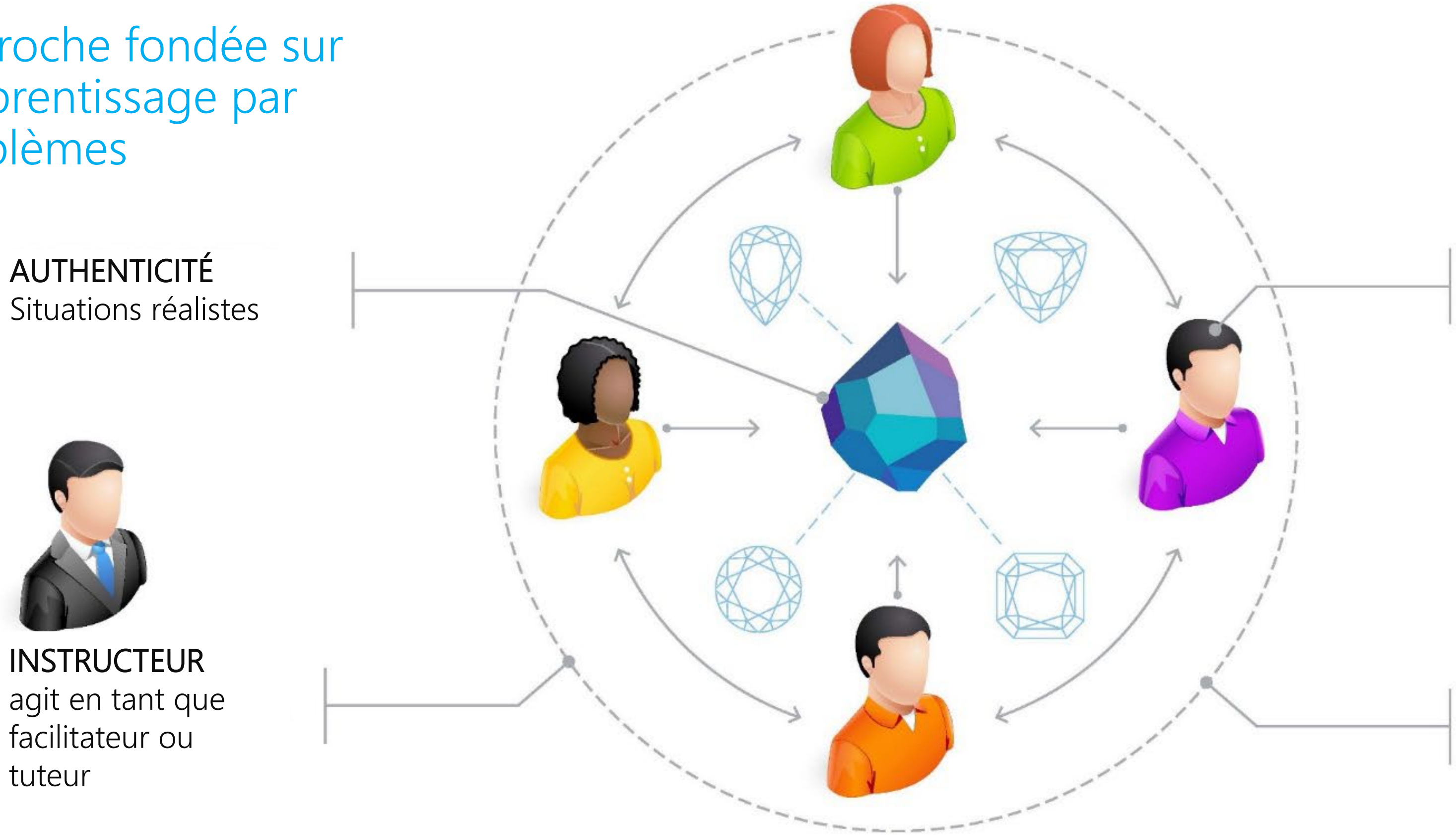

APPLICATION
KNOWLEDGE

… à une approche axée sur les compétences


APPLICATION
KNOWLEDGE
BUSINESS
KNOWLEDGE
COLLABORATIVE
KNOWLEDGE

Approche pédagogique

Approche fondée sur l'apprentissage par problèmes



AUTHENTICITÉ
Situations réalistes

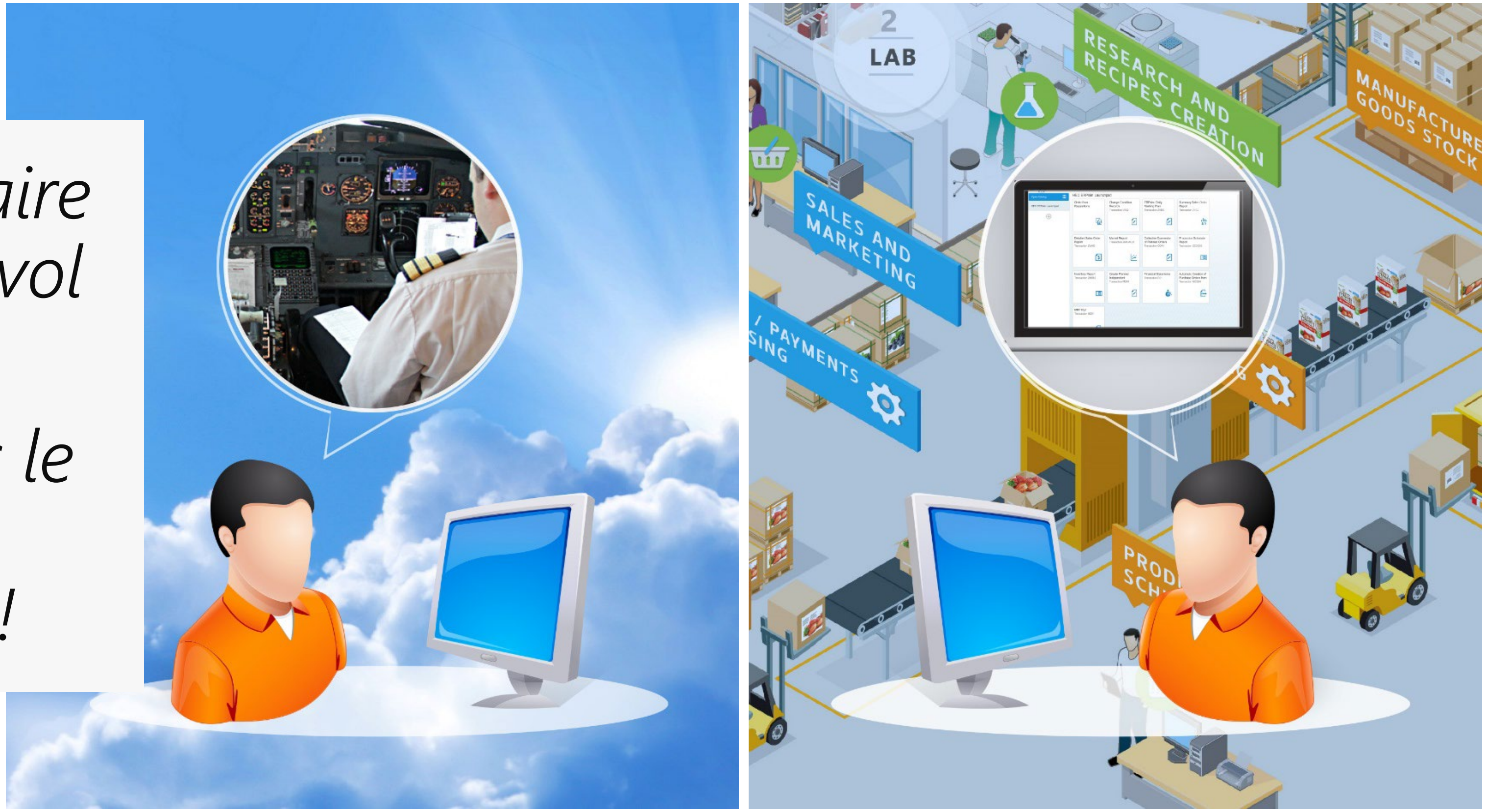
APPROCHE CENTRÉE SUR L'ÉTUDIANT

INSTRUCTEUR
agit en tant que facilitateur ou tuteur

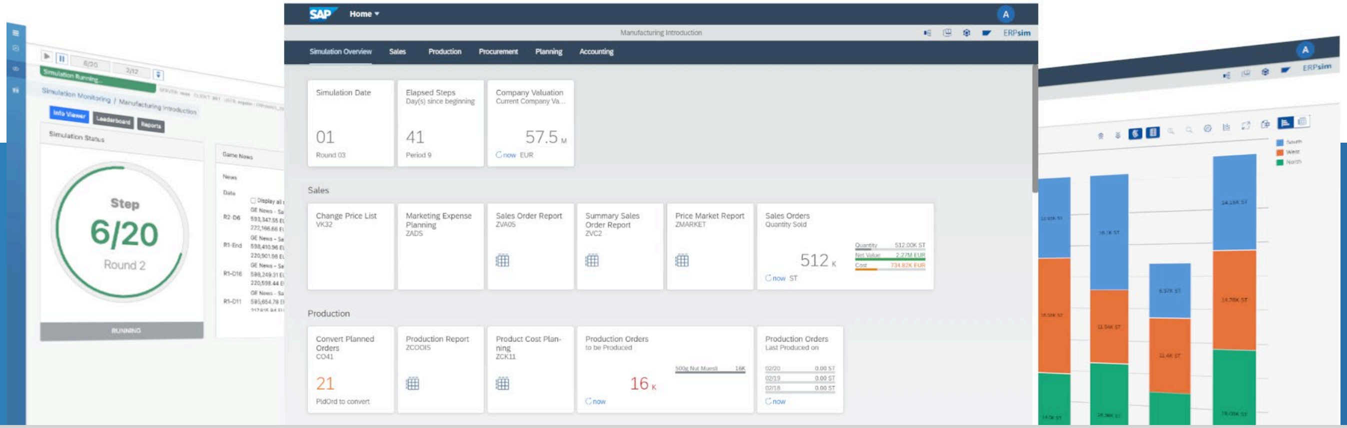
FORMAT EN PETIT GROUPES

ERPsim est au gestionnaire ce qu'un simulateur de vol est pour un pilote:

l'interaction se fait avec le vrai matériel,
mais le ciel est virtuel!


2
LAB
RESEARCH AND
RECIPES CREATION
MANUFACTURE
GOODS STOCK
SALES AND
MARKETING
/ PAYMENTS
SING
PROD
SCH

ERPsim


SAP
Home
Manufacturing Introduction
ERPsim
Simulation Overview
Sales
Production
Procurement
Planning
Accounting
Simulation Date
01
Round 03
Elapsed Steps
41
Period 9
Company Valuation
57.5 M
Sales
Change Price List
Marketing Expense Planning
Sales Order Report
Summary Sales Order Report
Price Market Report
Sales Orders
512 K
Production
Convert Planned Orders
21
Production Report
Product Cost Planning
Production Orders
16 K
Production Orders
Step
6/20
Round 2
RUNNING
Simulation Running
Info Viewer
Leaderboard
Reports
Simulation Status
Game News

Simulateur

1 Simulation du passage du temps

2 Simulation du marché

3 Automatisation des tâches administratives

↔

Système intégré

SAP®

↔

Participants

1 Prise de décisions et opérationnalisation de la stratégie

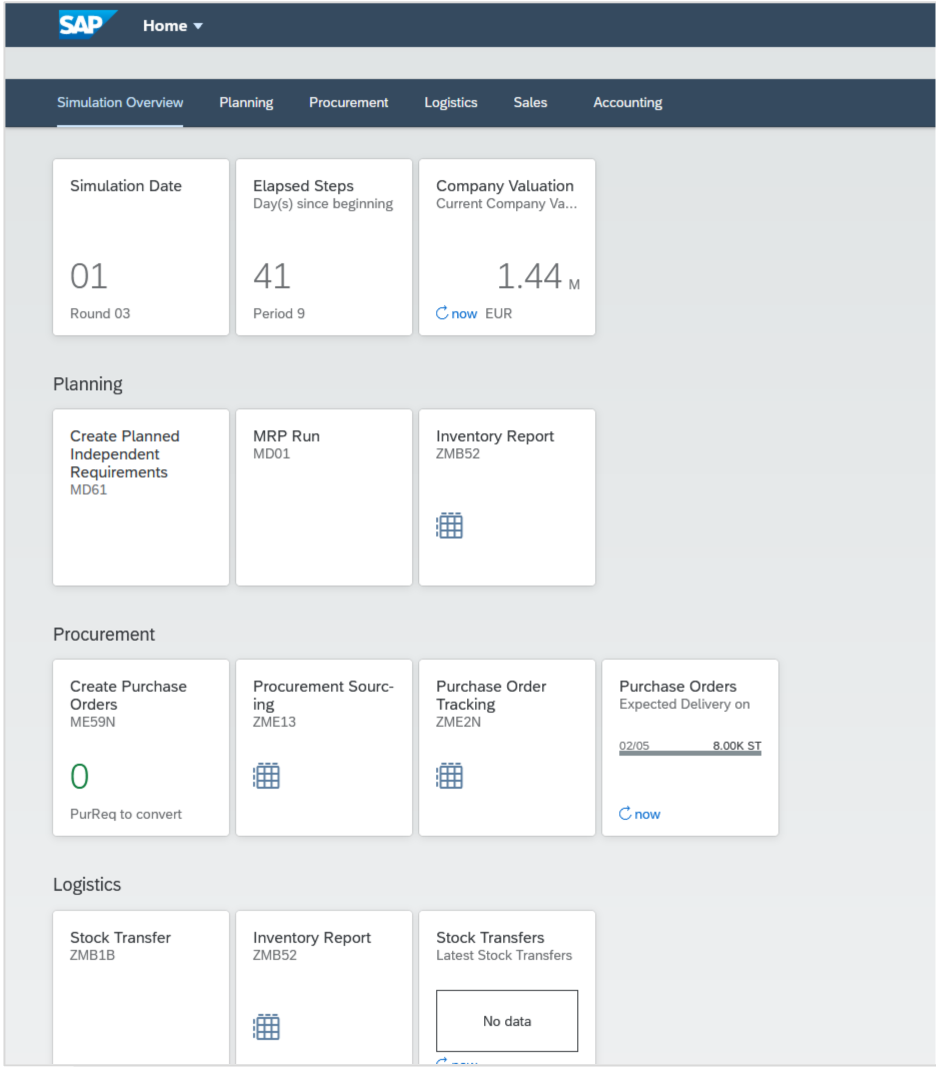
2 Analyse de données

ERPsimLab
HEC MONTRÉAL

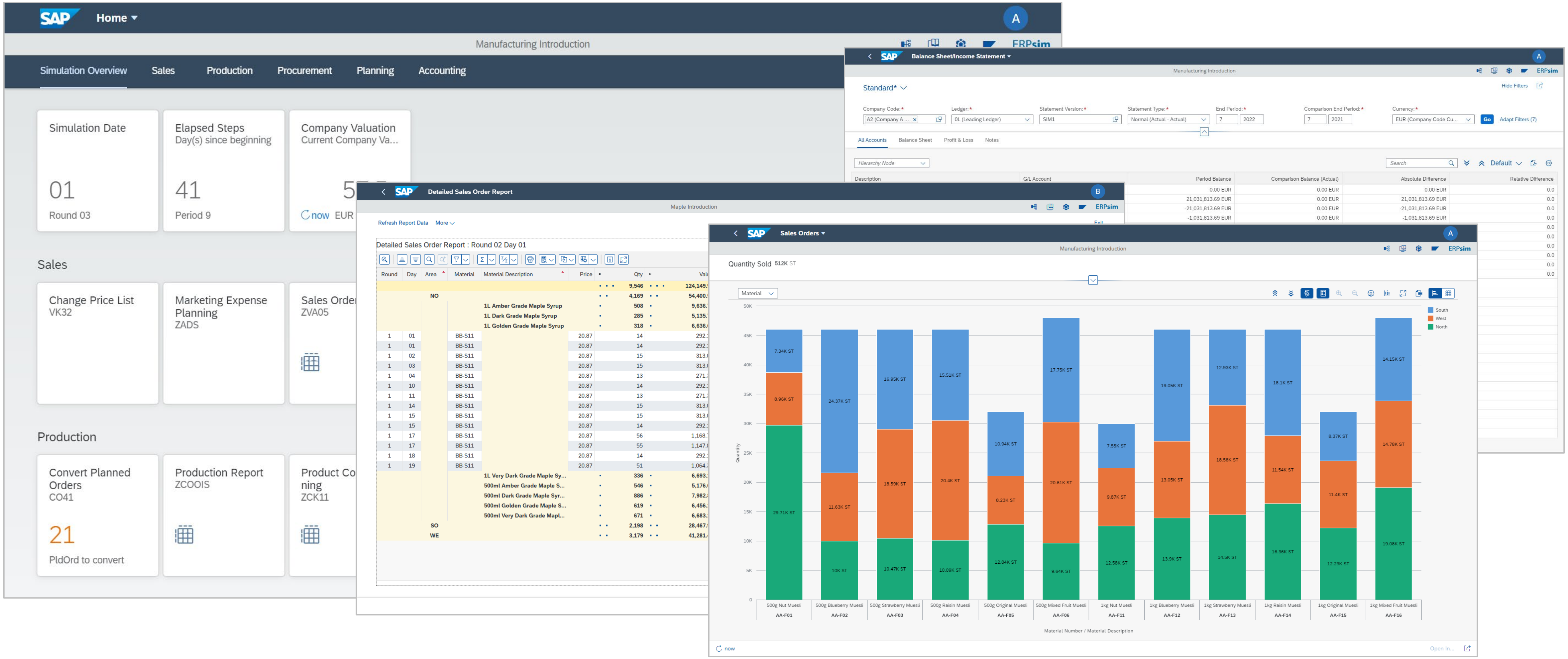
Version commerciale par BÅTON

Véritables systèmes

Version	SAP S/4HANA 2021 On-premise
UI	SAP Fiori et SAP GUI
Analytique	Rapports standard SAP Smart Business Services OData
Langues	Anglais, Français, Espagnol, Allemand


SAP
Home ▾
Simulation Overview
Planning
Procurement
Logistics
Sales
Accounting
Simulation Date
01
Round 03
Elapsed Steps
Day(s) since beginning
41
Period 9
Company Valuation
Current Company Va...
1.44 M
now EUR
Planning
Create Planned Independent Requirements
MD61
MRP Run
MD01
Inventory Report
ZMB52
Procurement
Create Purchase Orders
ME59N
0
PurReq to convert
Procurement Sourcing
ZME13
Purchase Order Tracking
ZME2N
Purchase Orders
Expected Delivery on
02/05
8.00K ST
now
Logistics
Stock Transfer
ZMB1B
Inventory Report
ZMB52
Stock Transfers
Latest Stock Transfers
No data

SAP Fiori Launchpad configuré pour le jeu Logistics Extended



SAP
Home
A
Manufacturing Introduction
ERPsim
Simulation Overview
Sales
Production
Procurement
Planning
Accounting

Simulation Date
01
Round 03

Elapsed Steps
Day(s) since beginning
41
Period 9

Company Valuation
Current Company Va...
now EUR

Sales

Change Price List
VK32

Marketing Expense Planning
ZADS

Sales Orde
ZVA05

Production

Convert Planned Orders
CO41
21
PldOrd to convert

Production Report
ZCOOIS

Product Co ning
ZCK11

Balance Sheet/Income Statement

Manufacturing Introduction

Standard*

Hide Filters

Company Code:* A2 (Company A ...
Ledger:* 0L (Leading Ledger)
Statement Version:* SIM1
Statement Type:* Normal (Actual - Actual)
End Period:* 7 2022
Comparison End Period:* 7 2021
Currency:* EUR (Company Code Cu...

Go
Adapt Filters (7)
All Accounts
Balance Sheet
Profit & Loss
Notes
Hierarchy Node
Search
Default

Description	G/L Account	Period Balance	Comparison Balance (Actual)	Absolute Difference	Relative Difference
		0.00 EUR	0.00 EUR	0.00 EUR	0.0
		21,031,813.69 EUR	0.00 EUR	21,031,813.69 EUR	0.0
		-21,031,813.69 EUR	0.00 EUR	-21,031,813.69 EUR	0.0
		-1,031,813.69 EUR	0.00 EUR	-1,031,813.69 EUR	0.0

Detailed Sales Order Report

Maple Introduction

B
Refresh Report Data
More
Exit

Detailed Sales Order Report : Round 02 Day 01

Round	Day	Area	Material	Material Description	Price	Qty	Valu
						9,546	124,149.
		NO				4,169	54,400.
				1L Amber Grade Maple Syrup		508	9,636.
				1L Dark Grade Maple Syrup		285	5,135.
				1L Golden Grade Maple Syrup		318	6,636.
1	01		BB-S11		20.87	14	292.
1	01		BB-S11		20.87	14	292.
1	02		BB-S11		20.87	15	313.
1	03		BB-S11		20.87	15	313.
1	04		BB-S11		20.87	13	271.
1	10		BB-S11		20.87	14	292.
1	11		BB-S11		20.87	13	271.
1	14		BB-S11		20.87	15	313.
1	15		BB-S11		20.87	15	313.
1	15		BB-S11		20.87	14	292.
1	17		BB-S11		20.87	56	1,168.
1	17		BB-S11		20.87	55	1,147.
1	18		BB-S11		20.87	14	292.
1	19		BB-S11		20.87	51	1,064.
				1L Very Dark Grade Maple Sy...		336	6,693.
				500ml Amber Grade Maple S...		546	5,176.
				500ml Dark Grade Maple Syr...		886	7,982.
				500ml Golden Grade Maple S...		619	6,456.
				500ml Very Dark Grade Mapl...		671	6,683.
		SO				2,198	28,467.
		WE				3,179	41,281.

Sales Orders

Manufacturing Introduction

Quantity Sold 512K ST

Material
South
West
North
50K
45K
40K
35K
30K
25K
20K
15K
10K
5K
0
Quantity
7.34K ST
8.96K ST
29.71K ST
24.37K ST
11.63K ST
10K ST
16.95K ST
18.59K ST
10.47K ST
15.51K ST
20.4K ST
10.09K ST
10.94K ST
8.23K ST
12.84K ST
17.75K ST
20.61K ST
9.64K ST
7.55K ST
9.87K ST
12.58K ST
19.05K ST
13.05K ST
13.9K ST
12.93K ST
18.58K ST
14.5K ST
18.1K ST
11.54K ST
16.36K ST
8.37K ST
11.4K ST
12.23K ST
14.15K ST
14.78K ST
19.08K ST
500g Nut Muesli AA-F01
500g Blueberry Muesli AA-F02
500g Strawberry Muesli AA-F03
500g Raisin Muesli AA-F04
500g Original Muesli AA-F05
500g Mixed Fruit Muesli AA-F06
1kg Nut Muesli AA-F11
1kg Blueberry Muesli AA-F12
1kg Strawberry Muesli AA-F13
1kg Raisin Muesli AA-F14
1kg Original Muesli AA-F15
1kg Mixed Fruit Muesli AA-F16
Material Number / Material Description
now
Open In...

ERPsimLab
HEC MONTRÉAL

Version commerciale par BÅTON

Universités au Québec

POLYTECHNIQUE MONTRÉAL
UNIVERSITÉ D'INGÉNIERIE

HEC MONTRÉAL

UNIVERSITÉ BISHOP'S UNIVERSITY

UNIVERSITÉ DE SHERBROOKE

UNIVERSITÉ LAVAL

ÉTS
Le génie pour l'industrie

UNIVERSITÉ Concordia UNIVERSITY

UQO
UNIVERSITÉ DU QUÉBEC EN OUTAOUAIS

Programmes typique utilisant ERPsim

Audiences cibles

- Programme d’étude supérieure: MBA, EMBA, M.Sc.
- Programme de premier cycle: BBA, BSCM, BID, BAcc, BCom
- Programmes d’entrepreneuriat
- Étudiants préparant la certification TS410

Domaines

- Systèmes de gestion d'information
- Gestion de la chaîne logistique
- Comptabilité et finance
- Intégration et configuration ERP
- Analyse d’affaires
- Gestion de l'entrepreneuriat

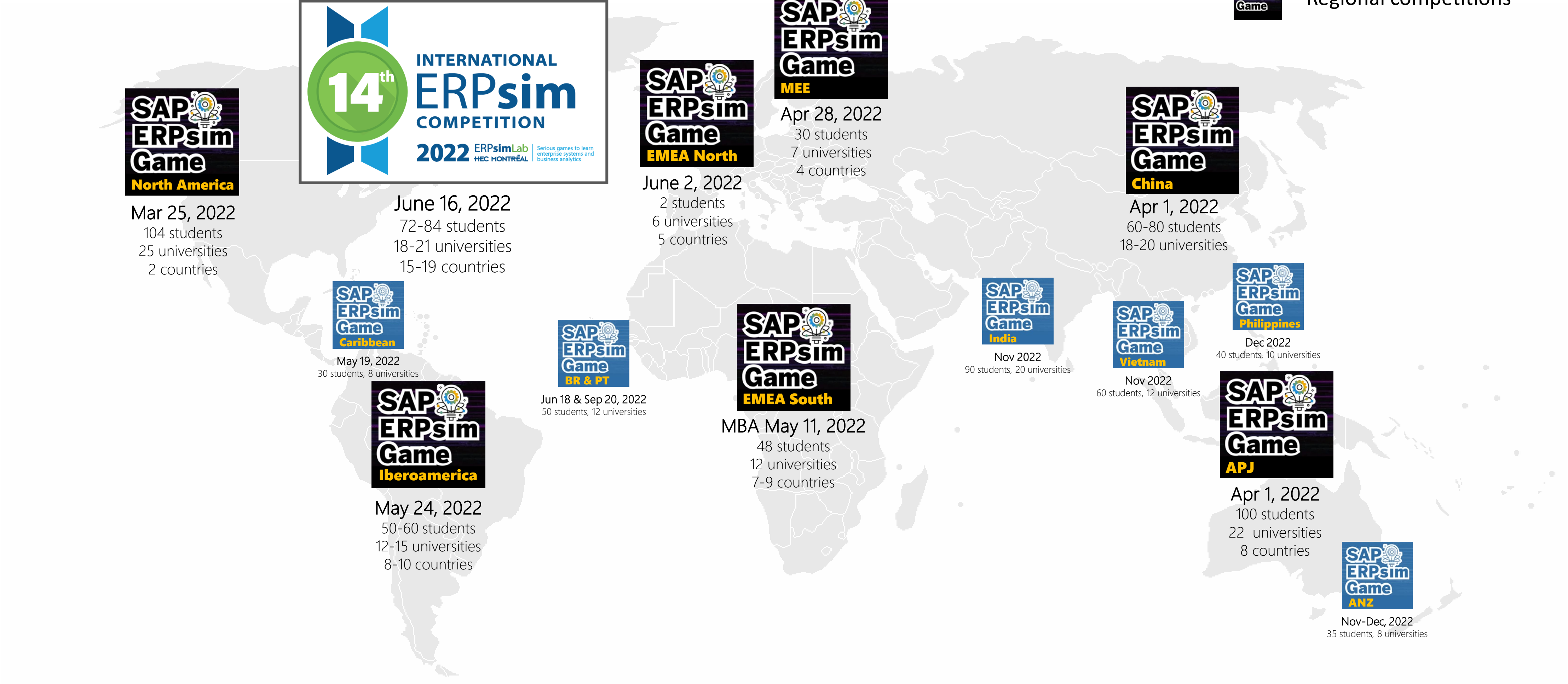
Exemple de cours d’introduction (HEC Montréal)

Goals 1 & 2 Enterprise Systems, & Business Processes	1. Introduction to IT in organizations 2. IT and business processes – ERPsim (1) 3. IT-based business process innovation (part I) 4. IT-based business process innovation (part II) 5. IT enabling enterprise integration – ERPsim (2)	**Improving business processes with IT**
	6. IT acquisition (the “development” approach) 7. IT acquisition (the “buy” approach)	**Acquisition of IT solutions**
Goal 3 Analytics	8. Intro to business analytics – dashboard development 9. Analysis of transactional data (basic) 10. Analysis of transactional data (advanced) 11. Business Analytics - test dashboard - ERPsim (3)	**Improving decision making with IT**
Goals 1, 2, & 3	12. Integration - Final Game using the dashboard – ERPsim (4)	**Integration**

ERPsim competitions 2022

SAP ERPsim Game: National competitions

SAP ERPsim Game: Regional competitions



SAP ERPsim Game North America
Mar 25, 2022
104 students
25 universities
2 countries

14th INTERNATIONAL ERPsim COMPETITION 2022
ERPsimLab HEC MONTRÉAL
Serious games to learn enterprise systems and business analytics
June 16, 2022
72-84 students
18-21 universities
15-19 countries

SAP ERPsim Game EMEA North
June 2, 2022
2 students
6 universities
5 countries

SAP ERPsim Game MEE
Apr 28, 2022
30 students
7 universities
4 countries

SAP ERPsim Game China
Apr 1, 2022
60-80 students
18-20 universities

SAP ERPsim Game Caribbean
May 19, 2022
30 students, 8 universities

SAP ERPsim Game BR & PT
Jun 18 & Sep 20, 2022
50 students, 12 universities

SAP ERPsim Game Iberoamerica
May 24, 2022
50-60 students
12-15 universities
8-10 countries

SAP ERPsim Game EMEA South
MBA May 11, 2022
48 students
12 universities
7-9 countries

SAP ERPsim Game India
Nov 2022
90 students, 20 universities

SAP ERPsim Game Vietnam
Nov 2022
60 students, 12 universities

SAP ERPsim Game Philippines
Dec 2022
40 students, 10 universities

SAP ERPsim Game APJ
Apr 1, 2022
100 students
22 universities
8 countries

SAP ERPsim Game ANZ
Nov-Dec, 2022
35 students, 8 universities

Compétition Internationale ERPsim 2022

1

Universitas Islam Indonesia

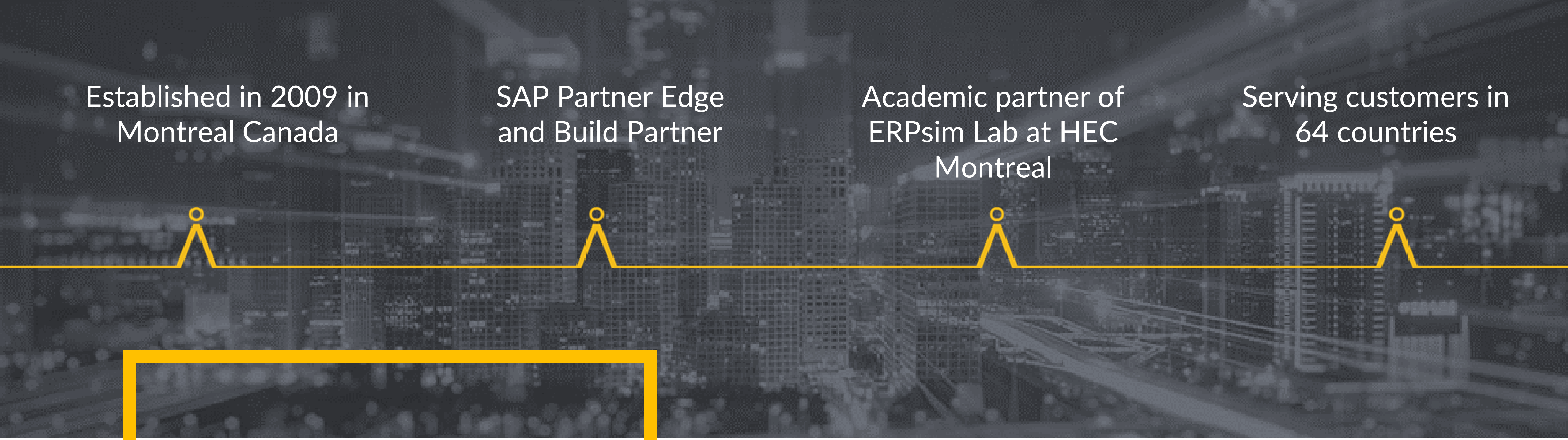
2

Beijing Institute of Technology

3

Université de Sherbrooke

ENCGT
جامعة عبد المالك السعدي
Université Abdelmalek Essaadi
JUNIA Grande école d'ingénieurs
HEI · ISEN · ISA
UNIVERSIDAD DE LIMA
中央财经大学
Central University of Finance and Economics
upna
Universidad Pública de Navarra
Nafarroako Unibertsitate Publikoa
Governors State University
UEL
Universidad de los Andes
Colombia
FH | JOANNEUM
University of Applied Sciences
18 BGE 57
Budapest Business School
UNIVERSITY OF APPLIED SCIENCES
4
University of Brighton
5
San Diego State University
Université Ibn Tofail
ENSA KENITRA
NITIE
Nottingham University Business School
UK | CHINA | MALAYSIA
NICOLAUS COPERNICUS UNIVERSITY IN TORUŃ
Faculty of Economic Sciences and Management



Established in 2009 in Montreal Canada

SAP Partner Edge and Build Partner

Academic partner of ERPsim Lab at HEC Montreal

Serving customers in 64 countries

THE COMPANY

WE ARE BATON

We help people embrace new technology by delivering experiences that inspire and inform. Our solutions empower and engage users accelerating, the digital transformation journey.

Putting people at the heart of digital transformation

THE POWER OF ERPsim

Endorsed by SAP MOVE GPO and SAP Education

Offered in
5
Languages

Present in
+65
countries

+500
certified instructors
From SAP & Partners

Used in
+300
universities

+3000
events in the last 5 years

Broad business and industry coverage

ERPsim offers a range of simulations to suit your business and industry. Whether manufacturing, distribution or logistics, or even public sector, engaging simulations pose real-world business problems.

Distribution

A simple, dynamic introduction to a real-life ERP system.

Duration: 1.5h-3h.

Manufacturing

A realistic manufacturing scenario.

Duration: 3h-1 day.

Public Sector

Showcasing the latest in S/4HANA for Public Sector.

Duration: 3h-1 day.

Logistics

Use real-time analytics to optimize stock movements.

Duration: 3h-1 day.

Sustainability

Showcasing the SAP Product Footprint Management Reports.

Duration: 2.5h-3h.

Enterprise Asset Management

Showcasing SAP EAM capabilities, from corrective to planned and predictive(IAM) maintenance

Duration: 3h-1 day.

Defense & Security

Introduces concepts of Flexible Material Planning Objects, Force Elements deployed in different locations, location-based demand, and asset availability.

Duration: 3h-4h.

ERPsim™

● Upcoming

Merci!

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