2004★2014
10th ANNIVERSARY

ERPsim

ERPsim 2014-2015 Instructor's Webinar
What is New with ERPsim?

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Co-director Tech3Lab
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erpsim.hec.ca

Montreal
August 20, 2014

ERPsim Lab HEC MONTRÉAL

Dr Pierre-Majorique Léger

Dr Pierre-Majorique Léger is a full professor in information technologies at HEC Montréal, director of the ERPsim Lab (erpsim.hec.ca) and co-directeur of Tech3Lab (tech3lab.hec.ca).

He holds a Ph.D. in industrial engineering from École Polytechnique de Montréal and has done post-doctoral studies in information technologies at HEC Montréal and NYU Stern. He is also Invited professor at Henry B.Tippie College of Business (University of Iowa) and Tuck School of Business (Dartmouth University).

He is a principal inventor of ERPsim, a simulation game to teach ERP concepts, which is now used in more than 150 universities worldwide and many Fortune 1000 organisations such as SAP, ABB, Conoco Philips and Deloitte.

His current research focuses on NeuroIS.

Follow PM Leger on ResearchGate
http://www.researchgate.net/profile/Pierre-Majorique_Leger

ERPsim Lab
HEC MONTRÉAL

Commercial version powered by BÅTON SIMULATIONS

Jean-François Michon

Jean-Francois currently holds the position of ERPsim Lab Operations Manager and is a lecturer at HEC Montréal. He is responsible for supporting faculty members using ERPsim, developing our internal processes and our external activities, manages the support team and contributes to product development.

Jean-Francois holds a Master's degree in Administration (E-Commerce) from Université de Sherbrooke and a Bachelor's Degree in Administration (Information Technology) from HEC Montréal.

ERPsim

A gamified approach
to learn ERP concepts and business analytics

1 What is ERPsim ?

2 What is new ?

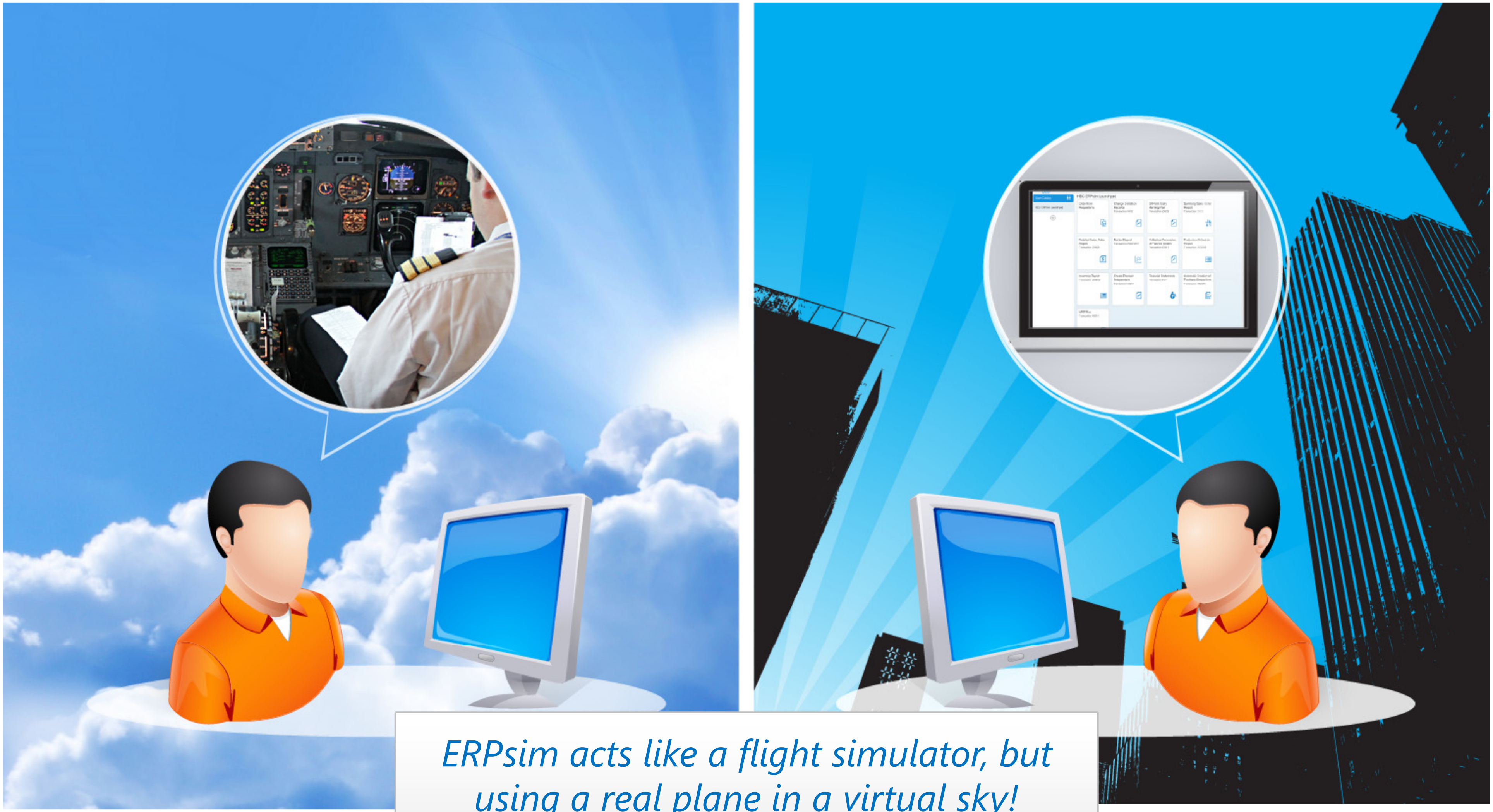
3 ERPsim on HANA

4 ERPsim International Competition

5 User Groups and Workshops

What is ERPsim ?

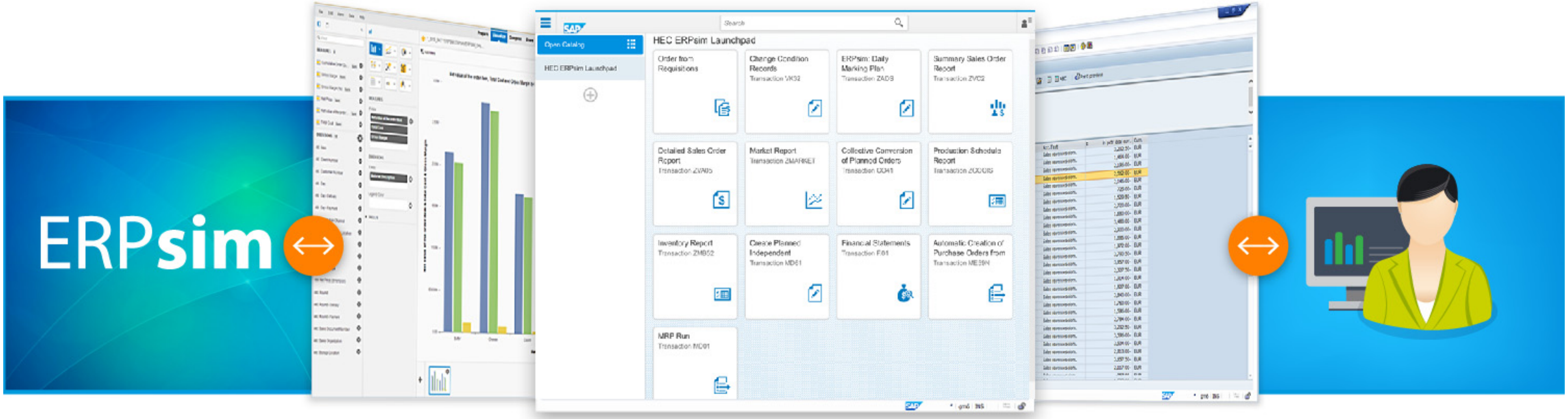
What is ERPsim ?



ERPsim acts like a flight simulator, but using a real plane in a virtual sky!

ERPsim

What ERPsim Does ?


ERPsim
↔
Open Catalog
HEC ERPsim Launchpad
Search
HEC ERPsim Launchpad
Order from Requisitions
Change Condition Records
Transaction VK32
ERPsim: Daily Marking Plan
Transaction ZADS
Summary Sales Order Report
Transaction ZVC2
Detailed Sales Order Report
Transaction ZVA05
Market Report
Transaction ZMARKET
Collective Conversion of Planned Orders
Transaction CO41
Production Schedule Report
Transaction ZCOOIS
Inventory Report
Transaction ZMB52
Create Planned Independent
Transaction MD61
Financial Statements
Transaction F.01
Automatic Creation of Purchase Orders from
Transaction ME59N
MRP Run
Transaction MD01
↔

VIRTUAL SYSTEM

1 Automation of administrative tasks

2 Simulation of a market

3 Simulation of passing of time

ERP SYSTEM

SAP®

PARTICIPANTS

1 Business analytics

2 Business decisions

Léger, P.-M., Robert, J., Babin, G., Pellerin, R. and Wagner, B. (2007), ERPsim, ERPsim Lab, HEC Montréal, Montréal, Qc.

Léger, P.-M. (2006), “Using a Simulation Game Approach to Teach Enterprise Resource Planning Concepts” Journal of Information Systems Education, Vol. 17, pp. 441-448

ERPsim Lab
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ERPsim Lab

Gamifying ERP Learning

ERPsim Mission :

Conduct research, development and transfer in the field of serious games in information technology.

ACADEMIC

Since 2009, more than

11000 simulations

in 190 universities around the world.

20 000 students

used ERPsim in 2013

900 faculty

trained on ERPsim worldwide

COMMERCIAL

Many large organizations such as SAP, GE, Boeing and GM are using ERPsim to train their end-users on ERP systems.

BÅTON
SIMULATIONS

RESEARCH

Several researchers have started using ERPsim to run experimental protocol in IS. Visit http://erpsim.hec.ca/en/cite

ERPsim Team

Research team

Prof. Pierre-Majorique LÉGER, Ph.D.,
Director ERPsim Lab (HEC Montréal)

Prof. Gilbert BABIN, Ph.D.
(HEC Montréal)

Prof. Jacques ROBERT, Ph.D.
(HEC Montréal)

Prof. Robert PELLERIN, Ph.D.
(École Polytechnique de Montréal)

Prof. Bret WAGNER, Ph.D.
(Western Michigan University)

Operations and development team

Jean-François MICHON, M.Sc.,
Operations Manager

Félix GAUDET-LAFONTAINE, B.Comm.,
Analyst and Test Lead

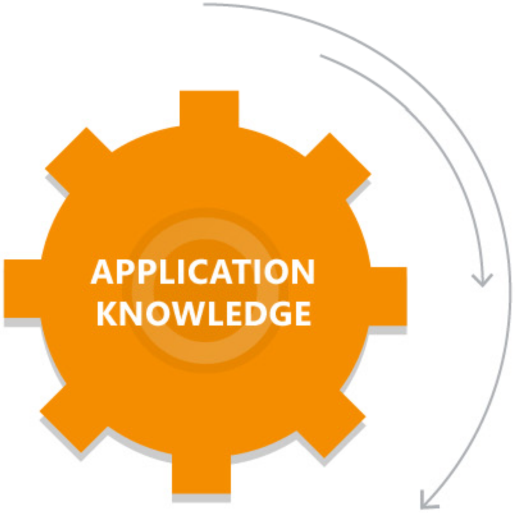
Samuel PLASSE, B.Comm,
Analyst

Hikmath-Yemissi EYITAYO,
Analyst

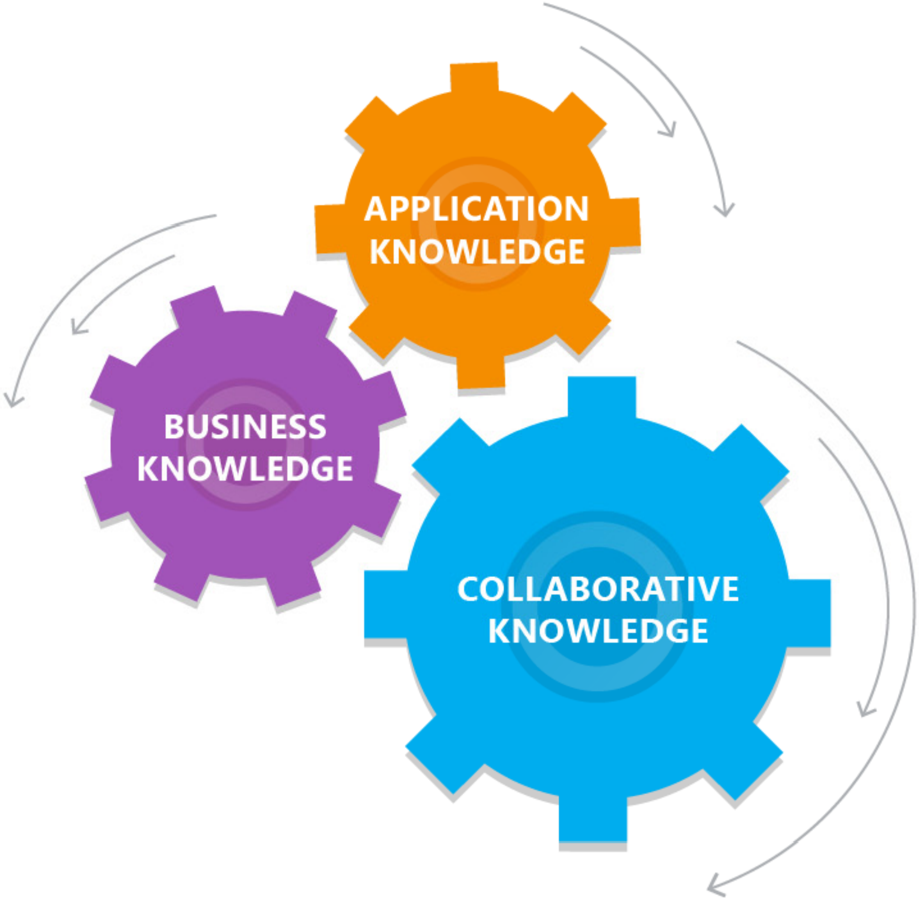
ERPsim

Moving Toward a Competency Approach

From a standard approach…


APPLICATION KNOWLEDGE

… to a competency approach

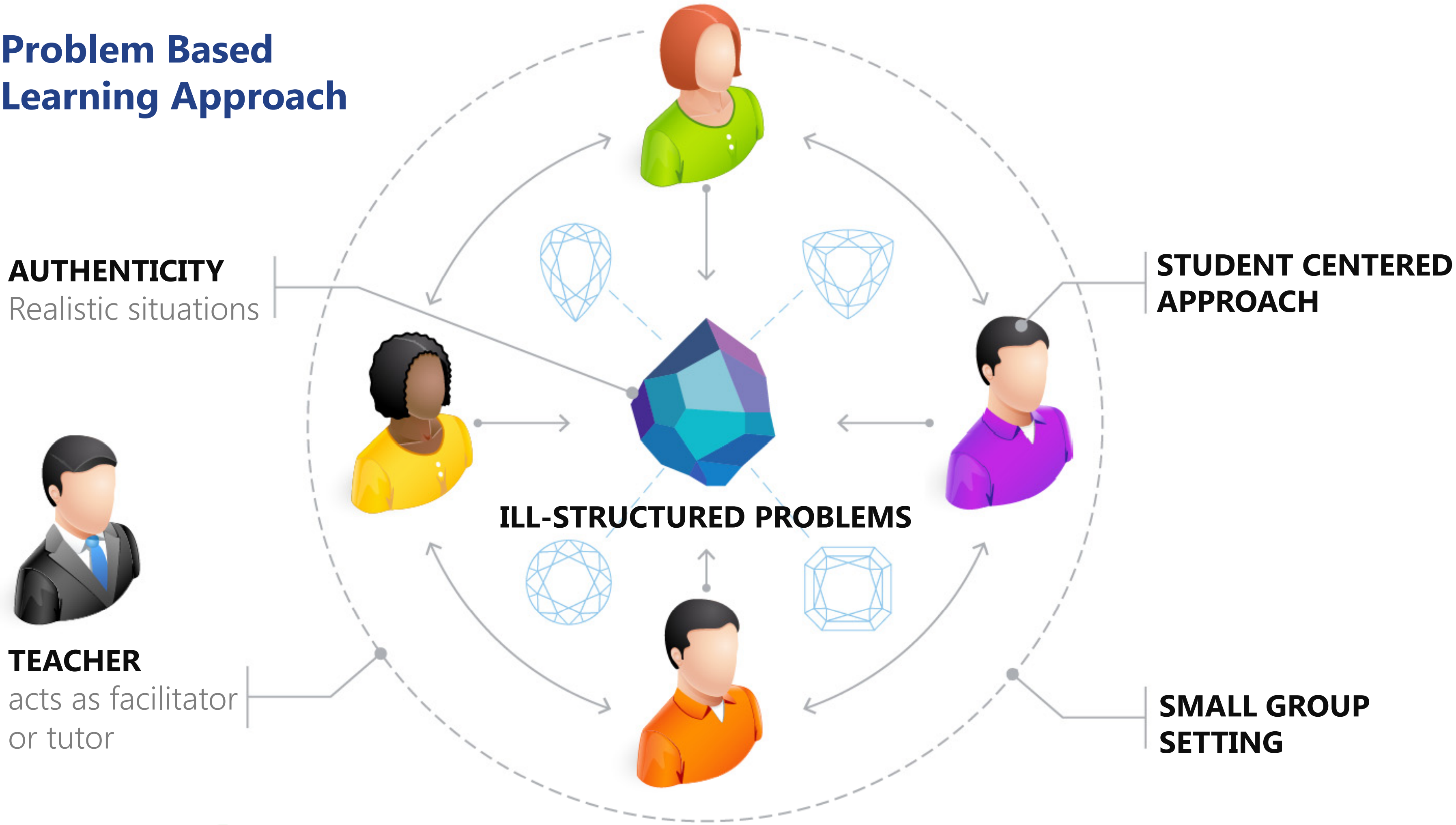

APPLICATION KNOWLEDGE
BUSINESS KNOWLEDGE
COLLABORATIVE KNOWLEDGE

Adapted from Kang and Santhanam, 2014

ERPsim

Active learning of ERP related concepts

Problem Based Learning Approach



AUTHENTICITY
Realistic situations

TEACHER
acts as facilitator
or tutor

ILL-STRUCTURED PROBLEMS

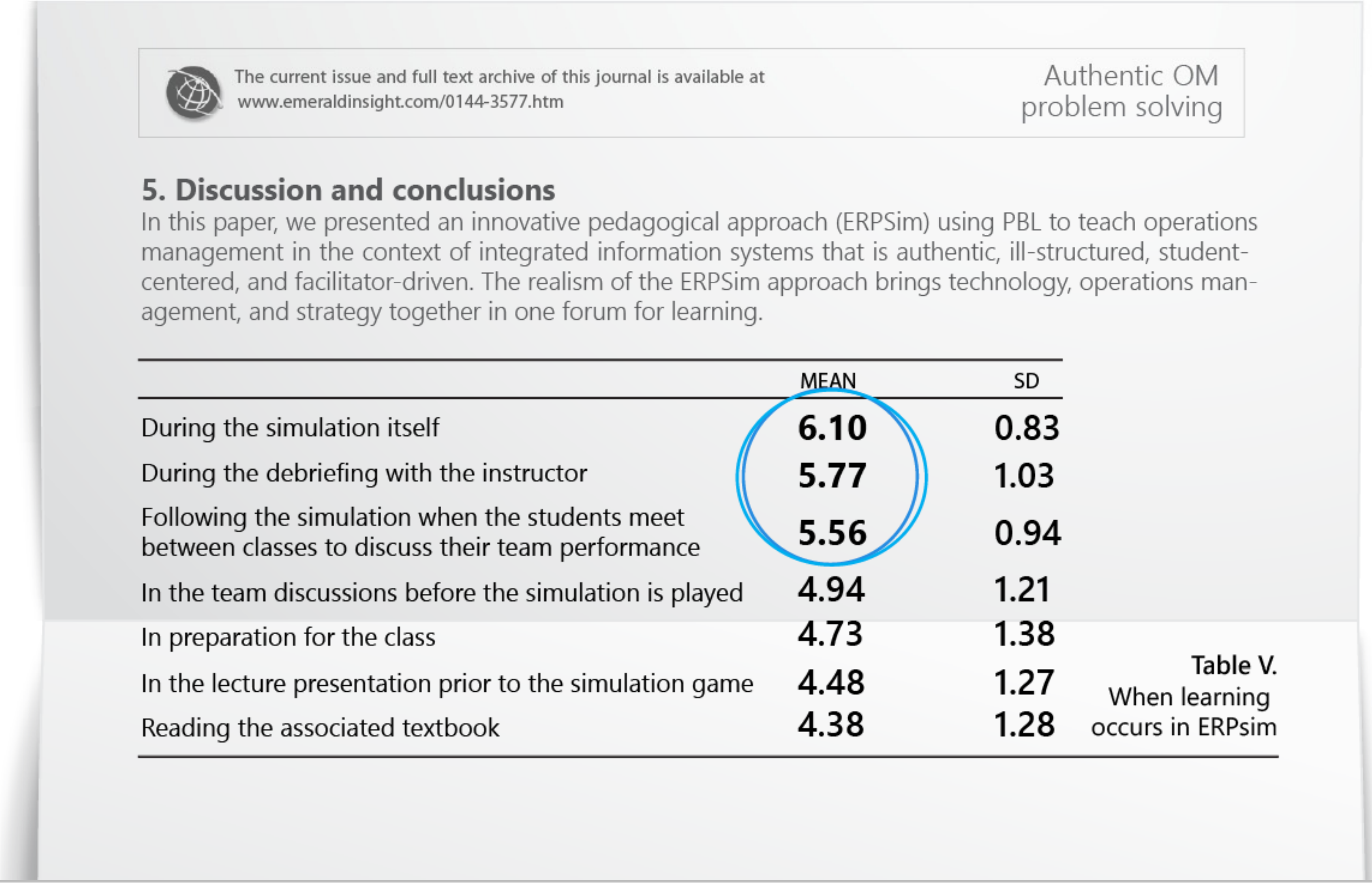
STUDENT CENTERED APPROACH

SMALL GROUP SETTING

Adapted from Walker and Leary (2009)

ERPsim

When learning occurs in ERPsim ?



The current issue and full text archive of this journal is available at www.emeraldinsight.com/0144-3577.htm

Authentic OM problem solving

5. Discussion and conclusions

In this paper, we presented an innovative pedagogical approach (ERPSim) using PBL to teach operations management in the context of integrated information systems that is authentic, ill-structured, student-centered, and facilitator-driven. The realism of the ERPSim approach brings technology, operations management, and strategy together in one forum for learning.

	MEAN	SD
During the simulation itself	6.10	0.83
During the debriefing with the instructor	5.77	1.03
Following the simulation when the students meet between classes to discuss their team performance	5.56	0.94
In the team discussions before the simulation is played	4.94	1.21
In preparation for the class	4.73	1.38
In the lecture presentation prior to the simulation game	4.48	1.27
Reading the associated textbook	4.38	1.28

Table V. When learning occurs in ERPsim

Source : Léger et al 2012

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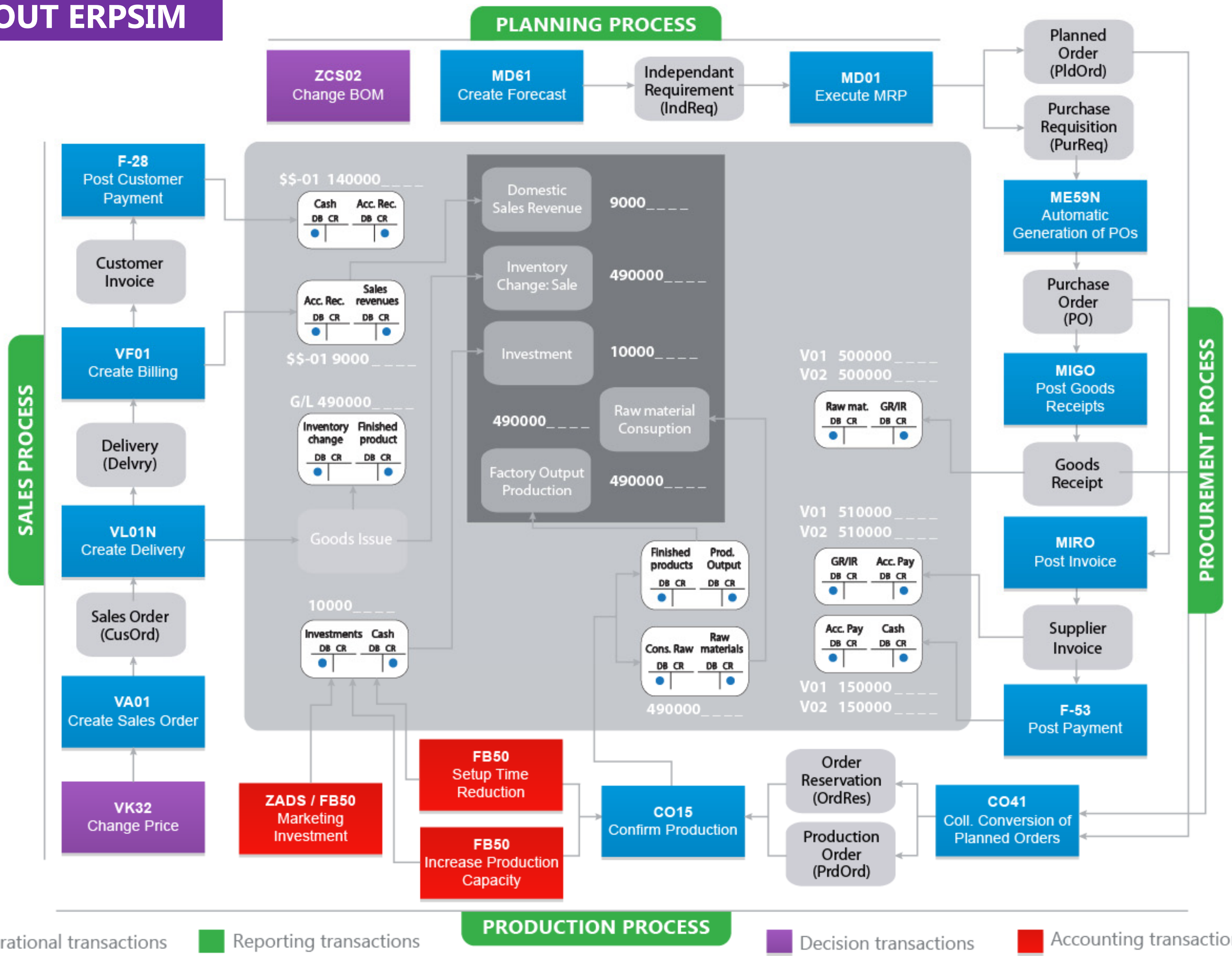
Integrated business processes

Transactions required to complete the full integrated process, including the financial impact.

HEC MONTRÉAL
ERP SIMULATION GAME
Manufacturing Game
powered by ERPsim

WITHOUT ERPSIM



PLANNING PROCESS

ZCS02 Change BOM

MD61 Create Forecast

Independant Requirement (IndReq)

MD01 Execute MRP

Planned Order (PldOrd)

Purchase Requisition (PurReq)

SALES PROCESS

F-28 Post Customer Payment

Customer Invoice

VF01 Create Billing

Delivery (Delvry)

VL01N Create Delivery

Sales Order (CusOrd)

VA01 Create Sales Order

VK32 Change Price

\$\$-01 140000____
Cash DB CR | Acc. Rec. DB CR

Acc. Rec. DB CR | Sales revenues DB CR
\$\$-01 9000____

G/L 490000____
Inventory change DB CR | Finished product DB CR

Goods Issue

10000____
Investments DB CR | Cash DB CR

Domestic Sales Revenue 9000____

Inventory Change: Sale 490000____

Investment 10000____

Raw material Consuption 490000____

Factory Output Production 490000____

Finished products DB CR | Prod. Output DB CR

Cons. Raw DB CR | Raw materials DB CR
490000____

V01 500000____
V02 500000____
Raw mat. DB CR | GR/IR DB CR

V01 510000____
V02 510000____
GR/IR DB CR | Acc. Pay DB CR

Acc. Pay DB CR | Cash DB CR
V01 150000____
V02 150000____

PROCUREMENT PROCESS

ME59N Automatic Generation of POs

Purchase Order (PO)

MIGO Post Goods Receipts

Goods Receipt

MIRO Post Invoice

Supplier Invoice

F-53 Post Payment

ZADS / FB50 Marketing Investment

FB50 Setup Time Reduction

FB50 Increase Production Capacity

CO15 Confirm Production

Order Reservation (OrdRes)

Production Order (PrdOrd)

CO41 Coll. Conversion of Planned Orders

PRODUCTION PROCESS

🟦 Operational transactions
🟩 Reporting transactions
🟪 Decision transactions
🟥 Accounting transactions

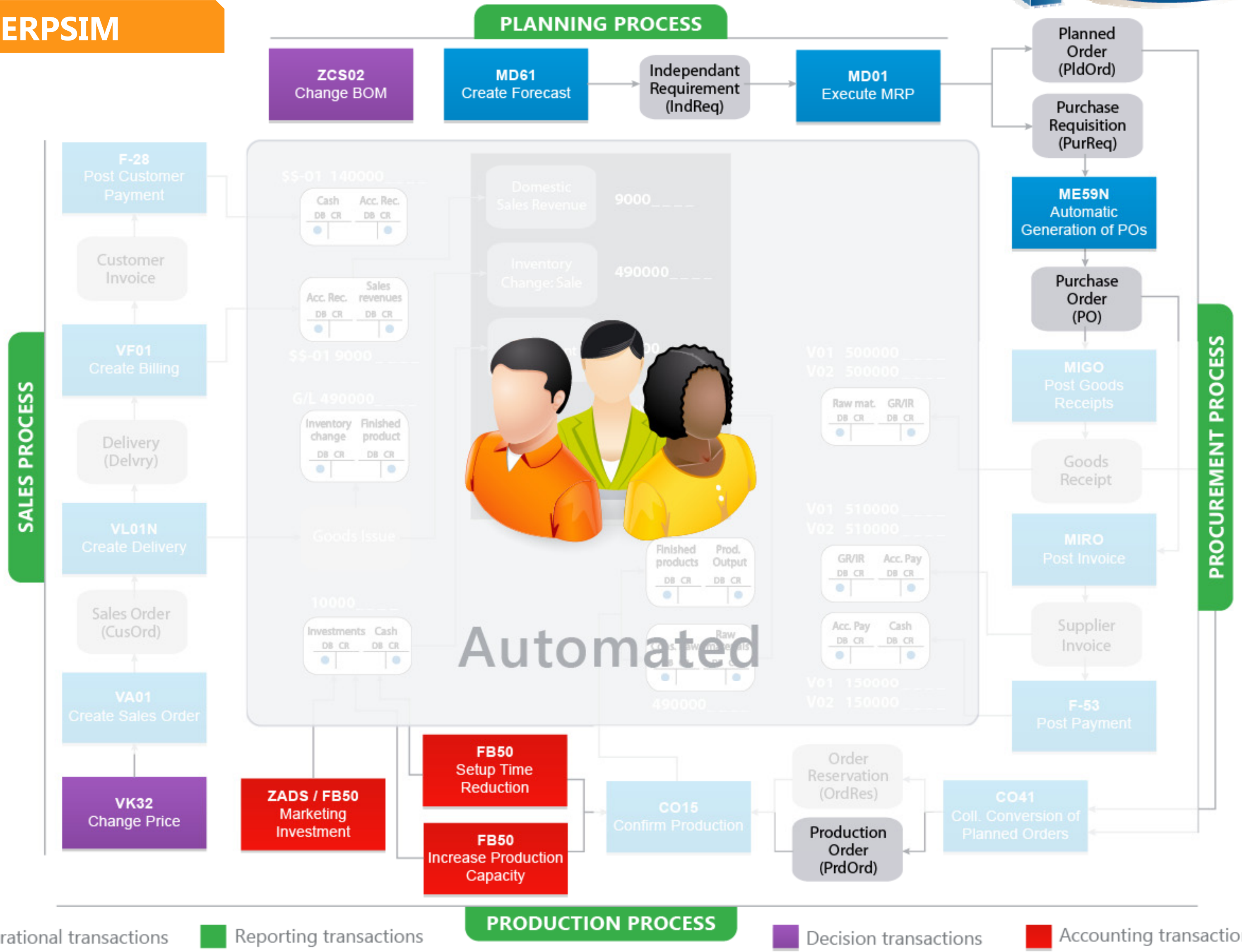
© 2014 Léger et al.

Integrated business processes

WITH ERPSIM

Transactions required to complete the full integrated process, including the financial impact.

HEC MONTRÉAL ERP SIMULATION GAME *Manufacturing Game* powered by ERPsim



PLANNING PROCESS

ZCS02 Change BOM

MD61 Create Forecast

Independant Requirement (IndReq)

MD01 Execute MRP

Planned Order (PldOrd)

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PROCUREMENT PROCESS

ME59N Automatic Generation of POs

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MIGO Post Goods Receipts

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Cash DB CR
Acc. Rec. DB CR
Acc. Rec. DB CR
Sales revenues DB CR
$$-01 9000
G/L 490000
Inventory change DB CR
Finished product DB CR
Goods Issue
10000
Investments DB CR
Cash DB CR
Domestic Sales Revenue
9000
Inventory Change: Sale
490000
Finished products DB CR
Prod. Output DB CR
Raw materials
490000
V01 500000
V02 500000
Raw mat. DB CR
GR/IR DB CR
V01 510000
V02 510000
GR/IR DB CR
Acc. Pay DB CR
Acc. Pay DB CR
Cash DB CR
V01 150000
V02 150000
Automated

🟦 Operational transactions 🟩 Reporting transactions 🟪 Decision transactions 🟥 Accounting transactions

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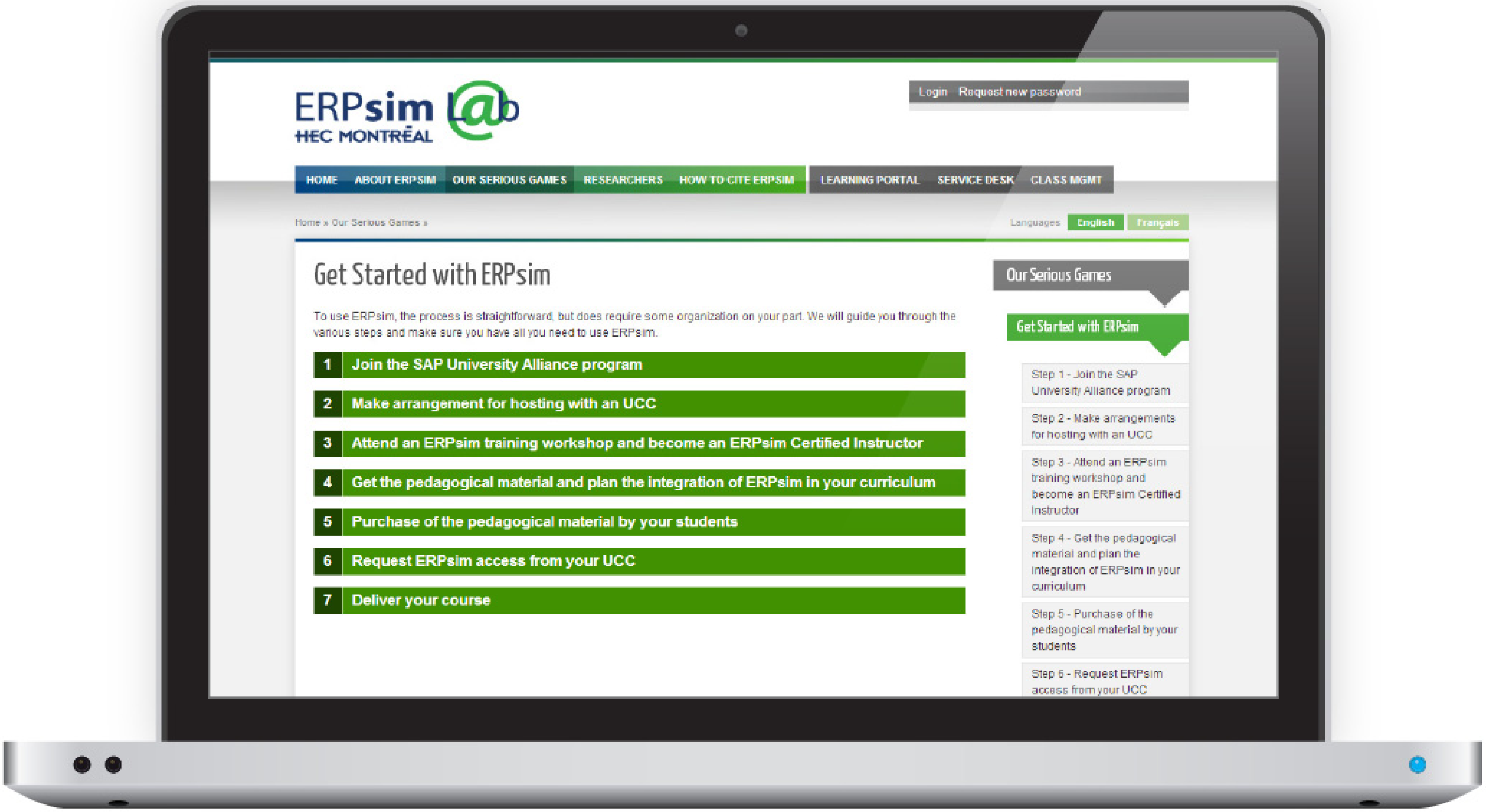
ERPsim

How to get started ?



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RESEARCHERS
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LEARNING PORTAL
SERVICE DESK
CLASS MGMT
Home » Our Serious Games »
Languages
English
Français

Get Started with ERPsim

To use ERPsim, the process is straightforward, but does require some organization on your part. We will guide you through the various steps and make sure you have all you need to use ERPsim.

1. Join the SAP University Alliance program
2. Make arrangement for hosting with an UCC
3. Attend an ERPsim training workshop and become an ERPsim Certified Instructor
4. Get the pedagogical material and plan the integration of ERPsim in your curriculum
5. Purchase of the pedagogical material by your students
6. Request ERPsim access from your UCC
7. Deliver your course

Our Serious Games

Get Started with ERPsim

- Step 1 - Join the SAP University Alliance program
- Step 2 - Make arrangements for hosting with an UCC
- Step 3 - Attend an ERPsim training workshop and become an ERPsim Certified Instructor
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- Step 6 - Request ERPsim access from your UCC

Visit
http://erpsim.hec.ca/en/start
for more information.

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The ERPsim

Academic Community

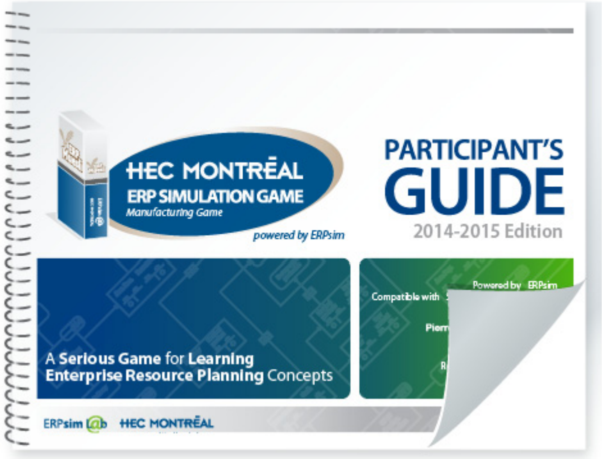
1 The access to ERPsim and the pedagogical material (eBook, slides, videos) are the main source of ERPsim R&D funding.

2 All contributors of the ERPsim Lab have transferred their copyrights to the Lab's.

3 ERPsim Lab's mission is to ensure the continued development and support of this simulation software.

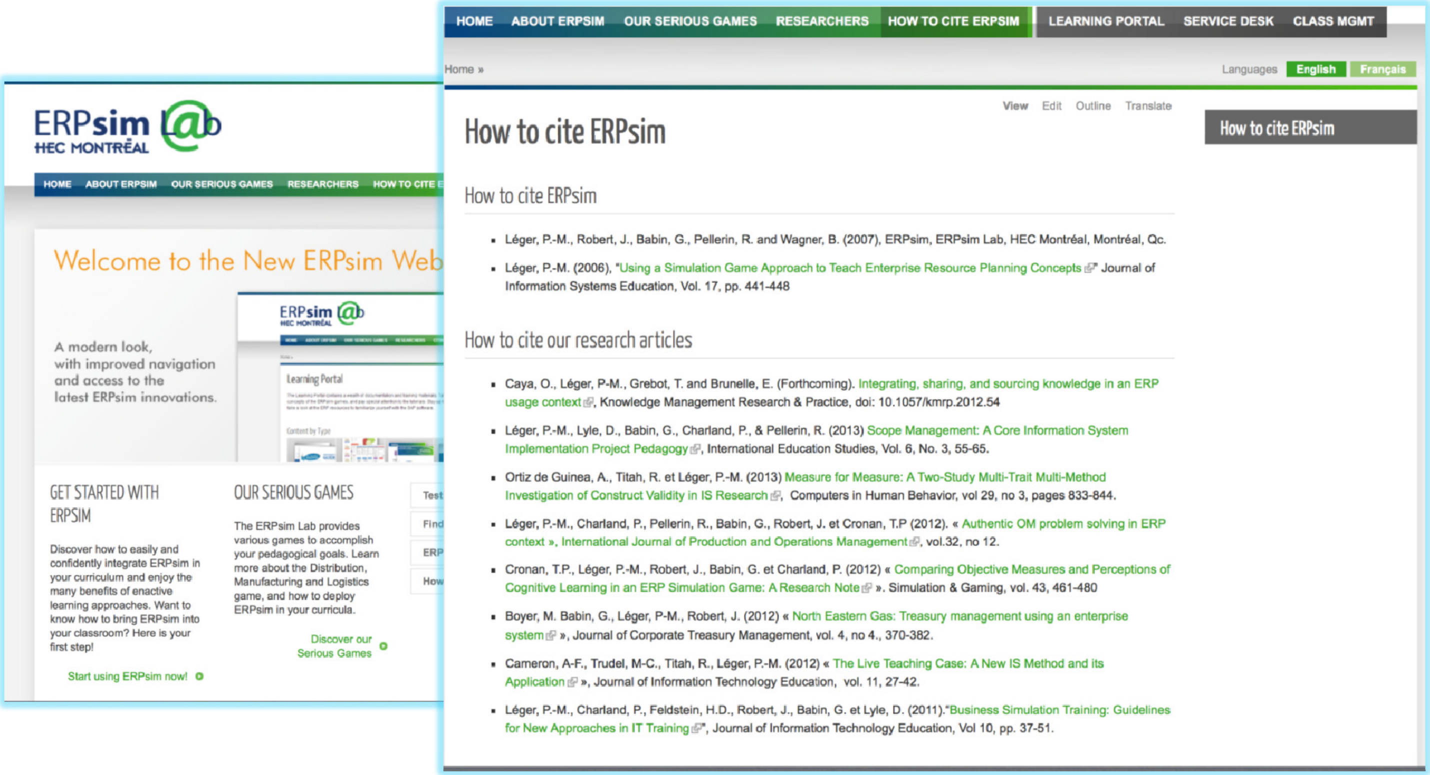
4 All proceeds from the sales are used to fund the continuous development of ERPsim, the faculty service desk and the personnel behind it.

5 HEC Montréal grants a free educational ERP Simulation Game license to members of the SAP University Alliance (client request subject to a fee from the UCC).


HEC MONTRÉAL
ERP SIMULATION GAME
Manufacturing Game
powered by ERPsim
PARTICIPANT'S
GUIDE
2014-2015 Edition
A Serious Game for Learning Enterprise Resource Planning Concepts
ERPsim Lab HEC MONTRÉAL

ERPsim

How to cite our pedagogical material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OUR SERIOUS GAMES
RESEARCHERS
HOW TO CITE E
Learning Portal
Content by Type
Test
Find
ERP
How
HOME
ABOUT ERPSIM
OUR SERIOUS GAMES
RESEARCHERS
HOW TO CITE ERPSIM
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Outline
Translate
How to cite ERPsim

Welcome to the New ERPsim Web

A modern look,
with improved navigation
and access to the
latest ERPsim innovations.

GET STARTED WITH ERPSIM

Discover how to easily and confidently integrate ERPsim in your curriculum and enjoy the many benefits of enactive learning approaches. Want to know how to bring ERPsim into your classroom? Here is your first step!

Start using ERPsim now!

OUR SERIOUS GAMES

The ERPsim Lab provides various games to accomplish your pedagogical goals. Learn more about the Distribution, Manufacturing and Logistics game, and how to deploy ERPsim in your curricula.

Discover our Serious Games

How to cite ERPsim

How to cite ERPsim

- Léger, P.-M., Robert, J., Babin, G., Pellerin, R. and Wagner, B. (2007), ERPsim, ERPsim Lab, HEC Montréal, Montréal, Qc.
- Léger, P.-M. (2006), "Using a Simulation Game Approach to Teach Enterprise Resource Planning Concepts" Journal of Information Systems Education, Vol. 17, pp. 441-448

How to cite our research articles

- Caya, O., Léger, P-M., Grebot, T. and Brunelle, E. (Forthcoming). Integrating, sharing, and sourcing knowledge in an ERP usage context, Knowledge Management Research & Practice, doi: 10.1057/kmrp.2012.54
- Léger, P.-M., Lyle, D., Babin, G., Charland, P., & Pellerin, R. (2013) Scope Management: A Core Information System Implementation Project Pedagogy, International Education Studies, Vol. 6, No. 3, 55-65.
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- Boyer, M. Babin, G., Léger, P-M., Robert, J. (2012) « North Eastern Gas: Treasury management using an enterprise system », Journal of Corporate Treasury Management, vol. 4, no 4., 370-382.
- Cameron, A-F., Trudel, M-C., Titah, R., Léger, P.-M. (2012) « The Live Teaching Case: A New IS Method and its Application », Journal of Information Technology Education, vol. 11, 27-42.
- Léger, P.-M., Charland, P., Feldstein, H.D., Robert, J., Babin, G. et Lyle, D. (2011)."Business Simulation Training: Guidelines for New Approaches in IT Training", Journal of Information Technology Education, Vol 10, pp. 37-51.

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Léger, P.-M. (2006),Using a Simulation Game Approach to Teach Enterprise Resource Planning Concepts" Journal of Information Systems Education, Vol. 17, pp. 441-448

ERPsim Games

ERPsim

7 Different Games Available

HEC MONTRÉAL
ERP SIMULATION GAME
powered by ERPsim

ERP Water
Natural
HEC MONTRÉAL
ERP SIMULATION GAME
Distribution Game
powered by ERPsim

DISTRIBUTION GAME

- Standard

ERP Muesli
HEC MONTRÉAL
ERP SIMULATION GAME
Manufacturing Game
powered by ERPsim

Now available on HANA

MANUFACTURING GAME

- Introduction
- Extended
- Advanced

HEC MONTRÉAL
ERP SIMULATION GAME
Logistics Game
powered by ERPsim

Now available on HANA

LOGISTICS GAME

- Introduction
- Extended
- Platinum

ERPsim L@b
HEC MONTRÉAL

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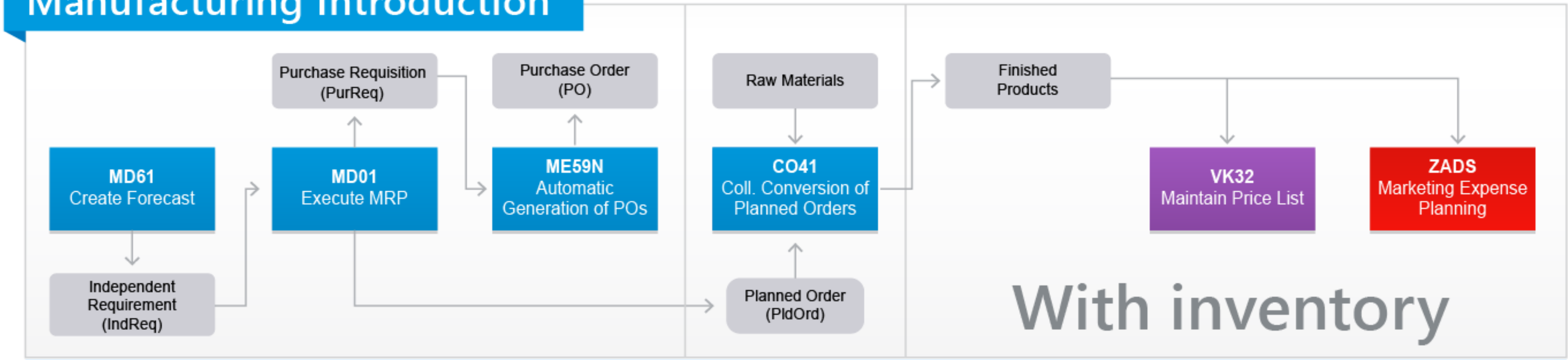
ERP SIMULATION GAME

Manufacturing game

HEC MONTRÉAL
ERP SIMULATION GAME
Manufacturing Game
powered by ERPsim

Manufacturing Introduction



MD61
Create Forecast
Independent Requirement (IndReq)
Purchase Requisition (PurReq)
MD01
Execute MRP
Purchase Order (PO)
ME59N
Automatic Generation of POs
Raw Materials
CO41
Coll. Conversion of Planned Orders
Planned Order (PldOrd)
Finished Products
VK32
Maintain Price List
ZADS
Marketing Expense Planning

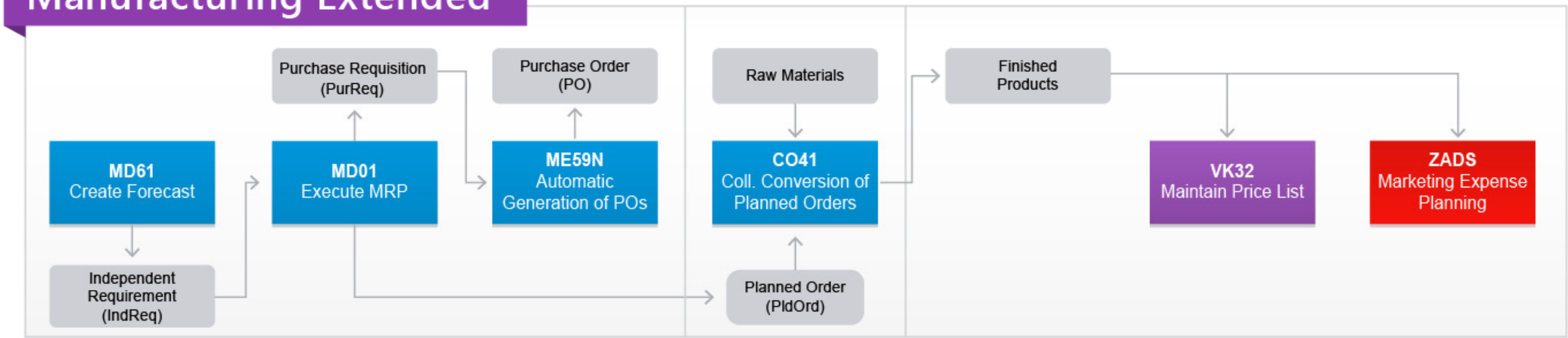
With inventory

Planning, Purchasing, Production, and Sales and Distribution **ROUND 3**

Production, Sales and Distribution **ROUND 2**

Sales and Distribution Only **ROUND 1**

Manufacturing Extended



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ERPsim L@b
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ERP SIMULATION GAME

Manufacturing game

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ERP SIMULATION GAME
Manufacturing Game
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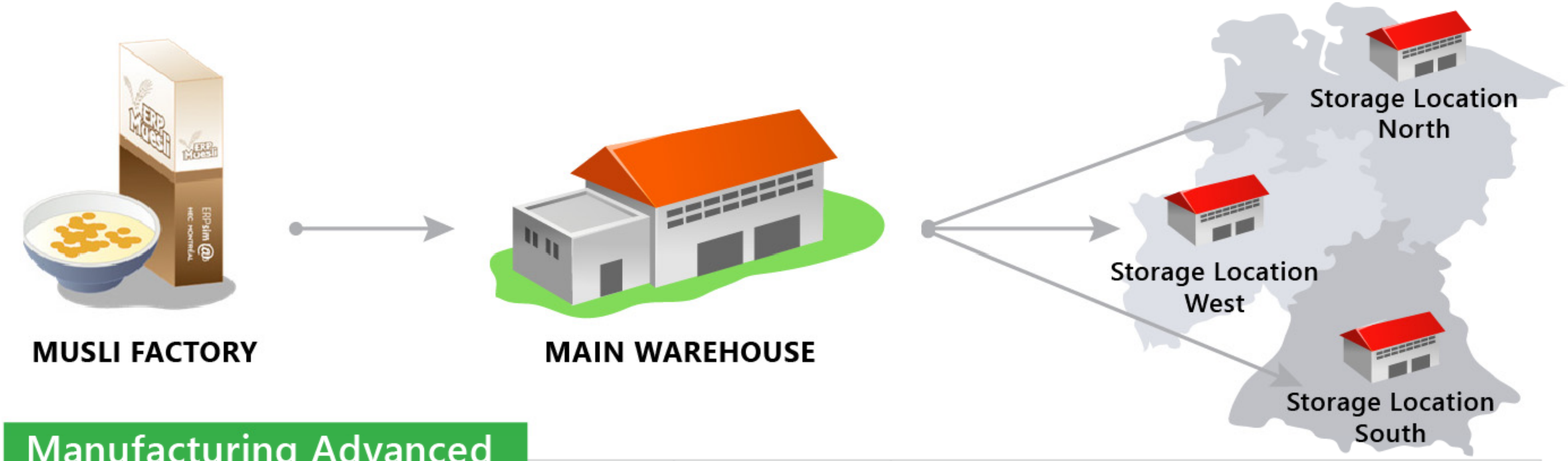
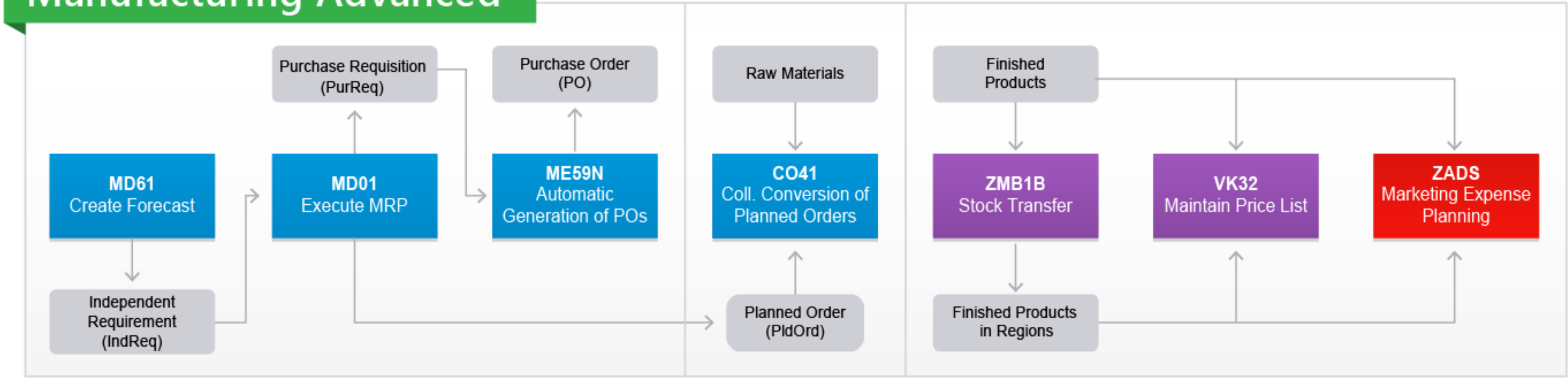

MUSLI FACTORY
MAIN WAREHOUSE
Storage Location North
Storage Location West
Storage Location South

Manufacturing Advanced


MD61
Create Forecast

Independent Requirement (IndReq)

MD01
Execute MRP

Purchase Requisition (PurReq)

ME59N
Automatic Generation of POs

Purchase Order (PO)

Raw Materials

CO41
Coll. Conversion of Planned Orders

Planned Order (PldOrd)

Finished Products

ZMB1B
Stock Transfer

Finished Products in Regions

VK32
Maintain Price List

ZADS
Marketing Expense Planning

ERPsim L@b
HEC MONTRÉAL

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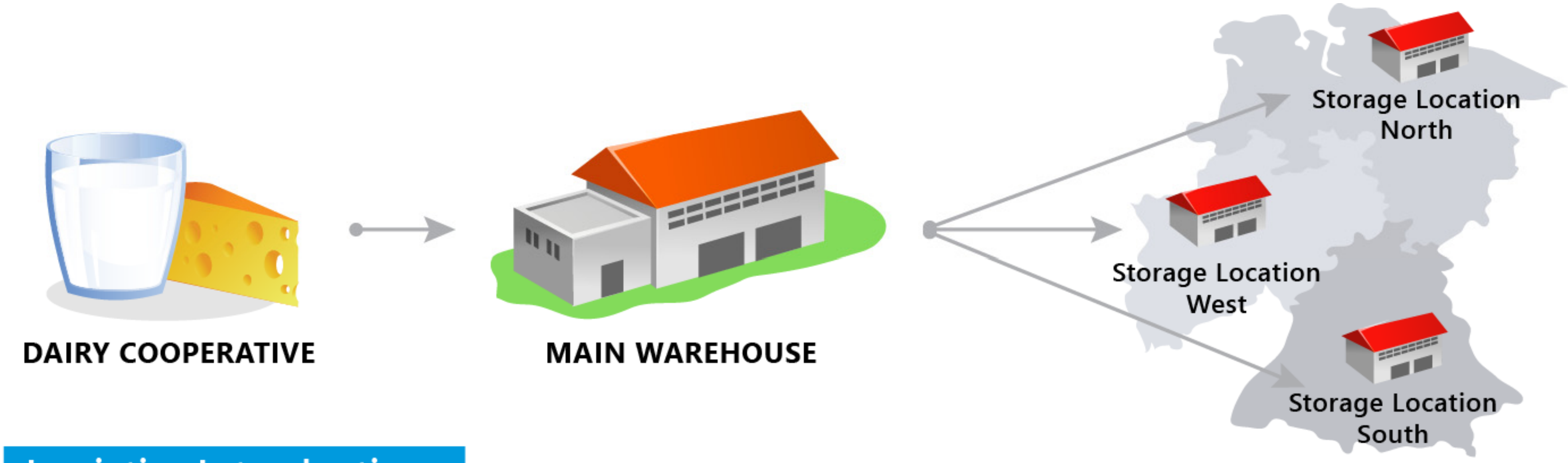
ERP SIMULATION GAME
Logistics game



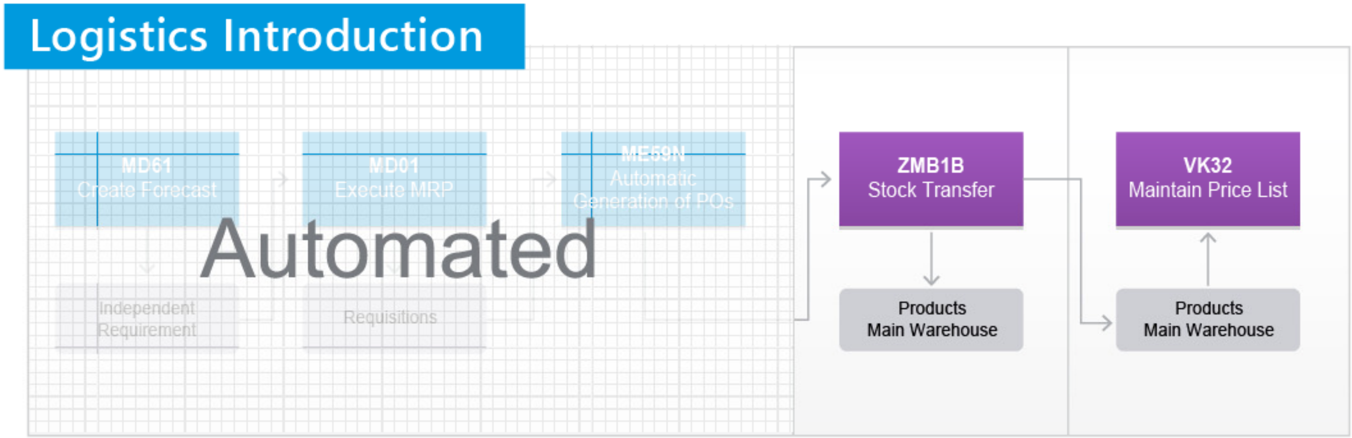
DAIRY COOPERATIVE

MAIN WAREHOUSE

Storage Location North

Storage Location West

Storage Location South



Logistics Introduction

MD61
Create Forecast

Independent Requirement

MD01
Execute MRP

Requisitions

ME59N
Automatic Generation of POs

Automated

ZMB1B
Stock Transfer

Products
Main Warehouse

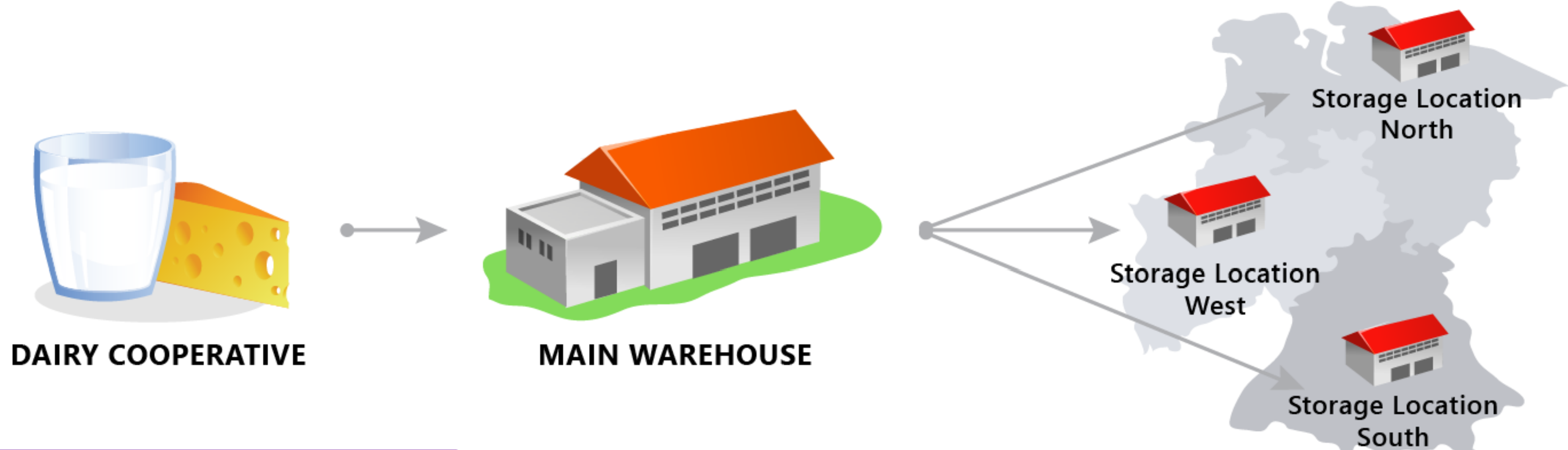
VK32
Maintain Price List

Products
Main Warehouse

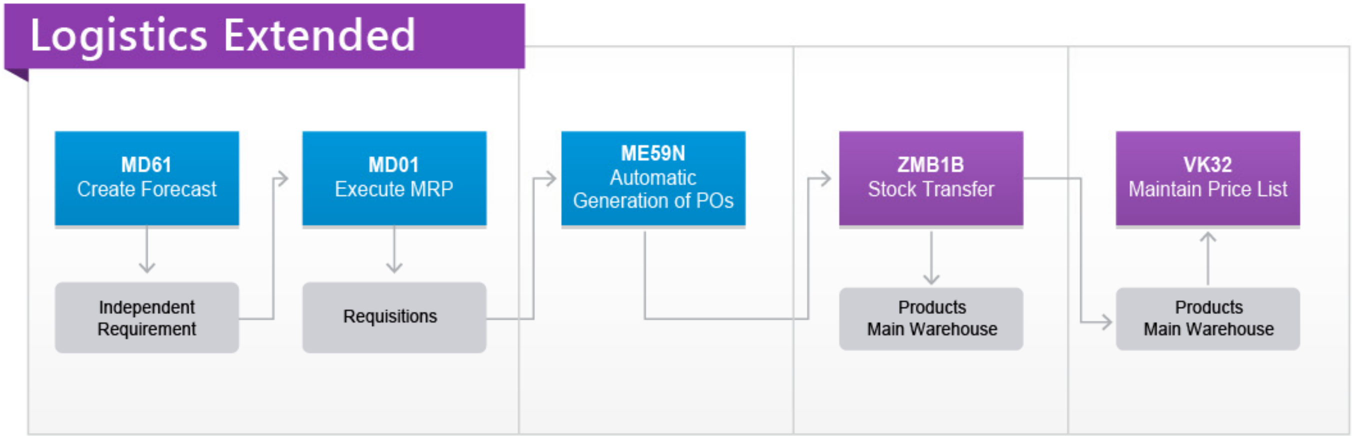
ERP SIMULATION GAME

Logistics game

HEC MONTRÉAL
ERP SIMULATION GAME
Logistics Game
powered by ERPsim


DAIRY COOPERATIVE
MAIN WAREHOUSE
Storage Location North
Storage Location West
Storage Location South

Logistics Extended



MD61 Create Forecast → Independent Requirement

MD01 Execute MRP → Requisitions

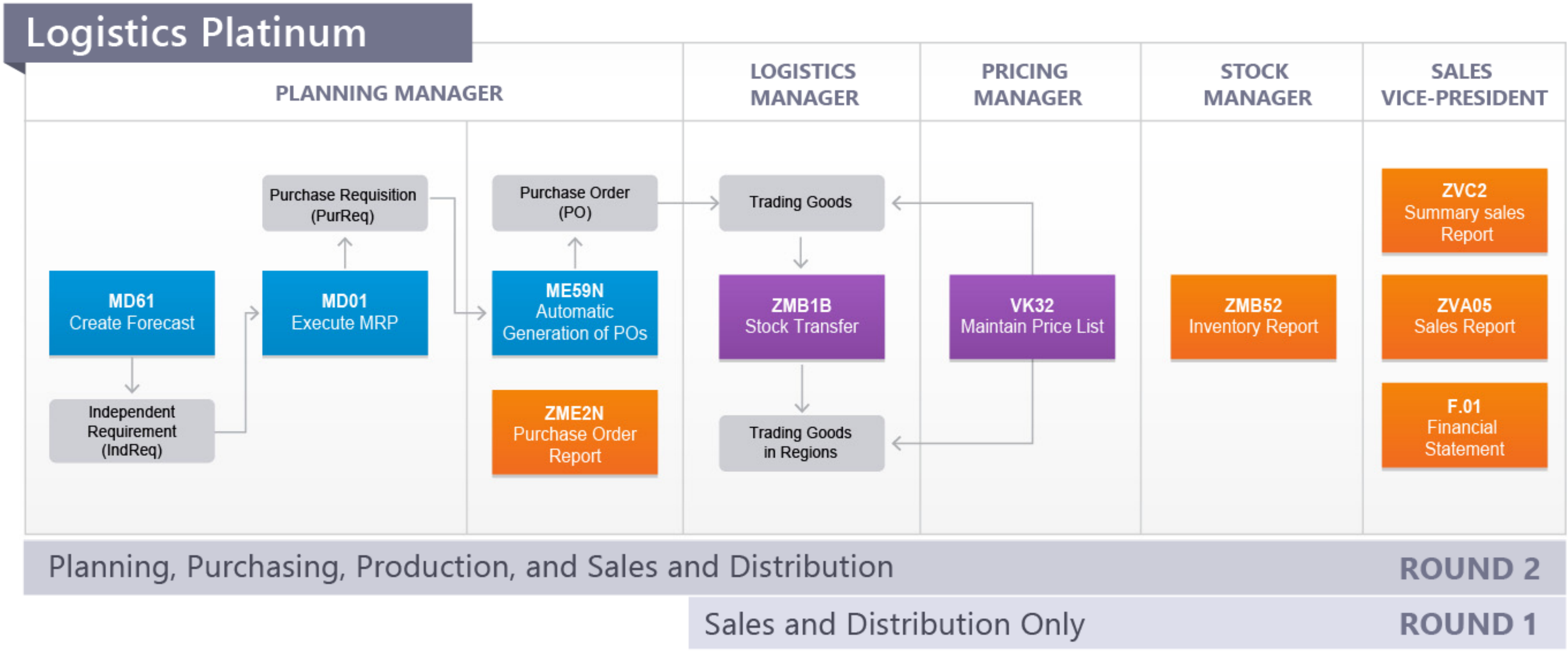
ME59N Automatic Generation of POs

ZMB1B Stock Transfer → Products Main Warehouse

VK32 Maintain Price List ← Products Main Warehouse

ERP SIMULATION GAME

Logistics game



Logistics Platinum

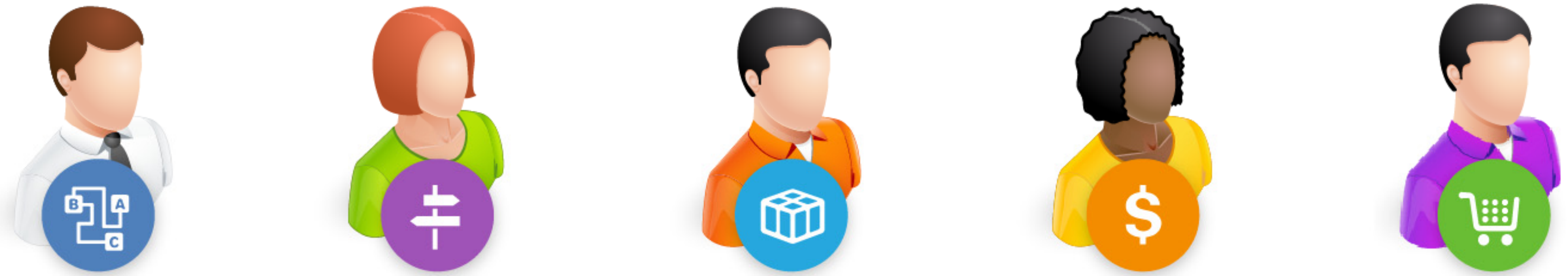
PLANNING MANAGER
LOGISTICS MANAGER
PRICING MANAGER
STOCK MANAGER
SALES VICE-PRESIDENT
MD61 Create Forecast
Independent Requirement (IndReq)
MD01 Execute MRP
Purchase Requisition (PurReq)
ME59N Automatic Generation of POs
Purchase Order (PO)
ZME2N Purchase Order Report
Trading Goods
ZMB1B Stock Transfer
Trading Goods in Regions
VK32 Maintain Price List
ZMB52 Inventory Report
ZVC2 Summary sales Report
ZVA05 Sales Report
F.01 Financial Statement

Planning, Purchasing, Production, and Sales and Distribution — ROUND 2

Sales and Distribution Only — ROUND 1

ERP SIMULATION GAME

Logistics game (Platinum)



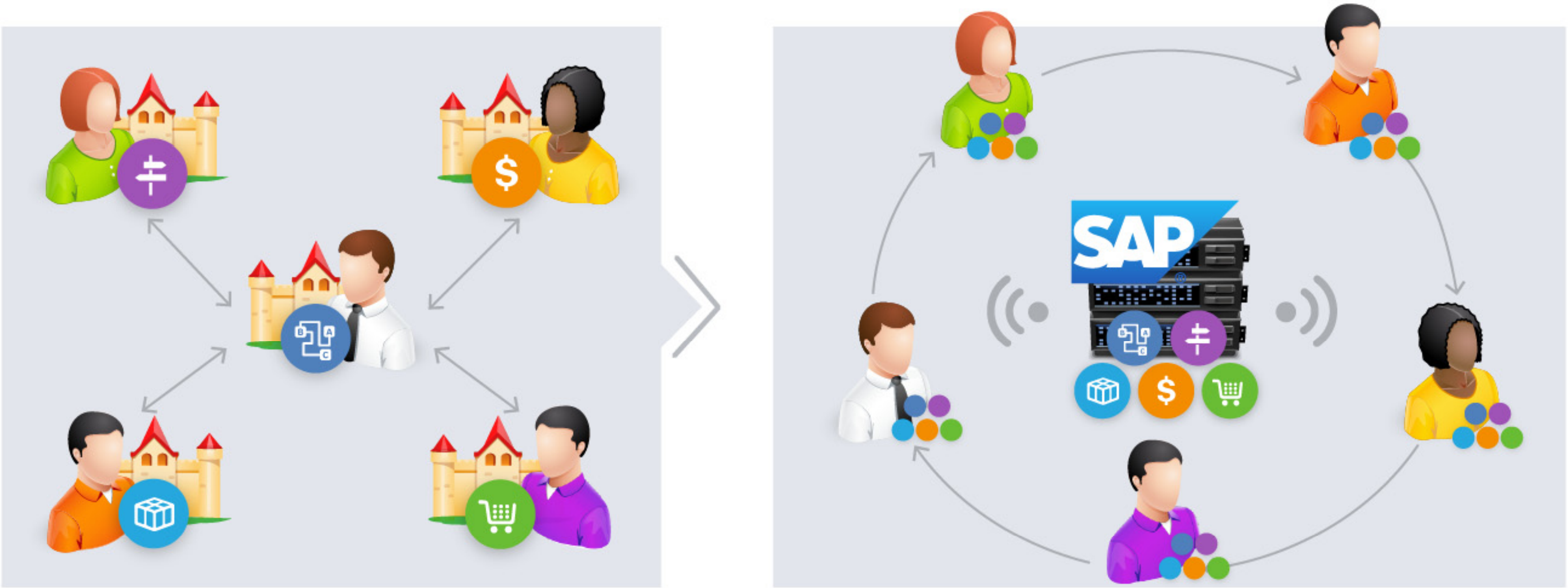
PLANNING MANAGER

LOGISTICS MANAGER

STOCK MANAGER

PRICING MANAGER

SALES VICE-PRESIDENT



ERPsim Lab HEC MONTRÉAL

Commercial version powered by BATON SIMULATIONS

ERPsim Related Pedagogical Material

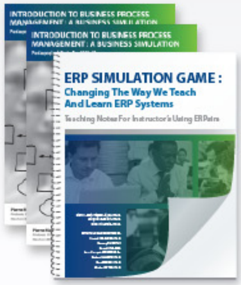
ERP SIM LAB

ERPsim Ecosystem (Academic)

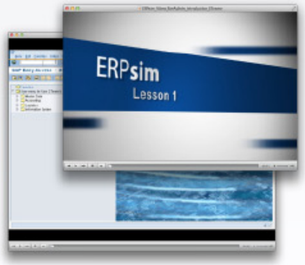
ALL MATERIALS AVAILABLE ON ERPsim WEBSITE and LEARNING PORTAL

INSTRUCTORS

TEACHING NOTES


ERP SIMULATION GAME: Changing The Way We Teach And Learn ERP Systems
Teaching Notes For Instructor's Using ERPsim

VIDEOS


ERPsim
Lesson 1

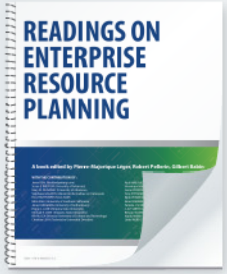
SCENARIOS
(Configuration files)

INSTRUCTORS TRAINING

ERPsim
Level 1
Instructor
ERPsim
Level 2
Trainer

RESEARCH PAPERS

PARTICIPANTS


READINGS ON ENTERPRISE RESOURCE PLANNING

HEC MONTRÉAL
ERP SIMULATION GAME
Distribution Game
powered by ERPsim

HEC MONTRÉAL
ERP SIMULATION GAME
Logistics Game
powered by ERPsim

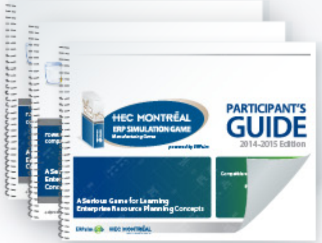
HEC MONTRÉAL
ERP SIMULATION GAME
Manufacturing Game
powered by ERPsim

All games include *All games include*

JOB AIDS

Manufacturing game
Part 1 - Chapter 1
Introduction

SLIDES

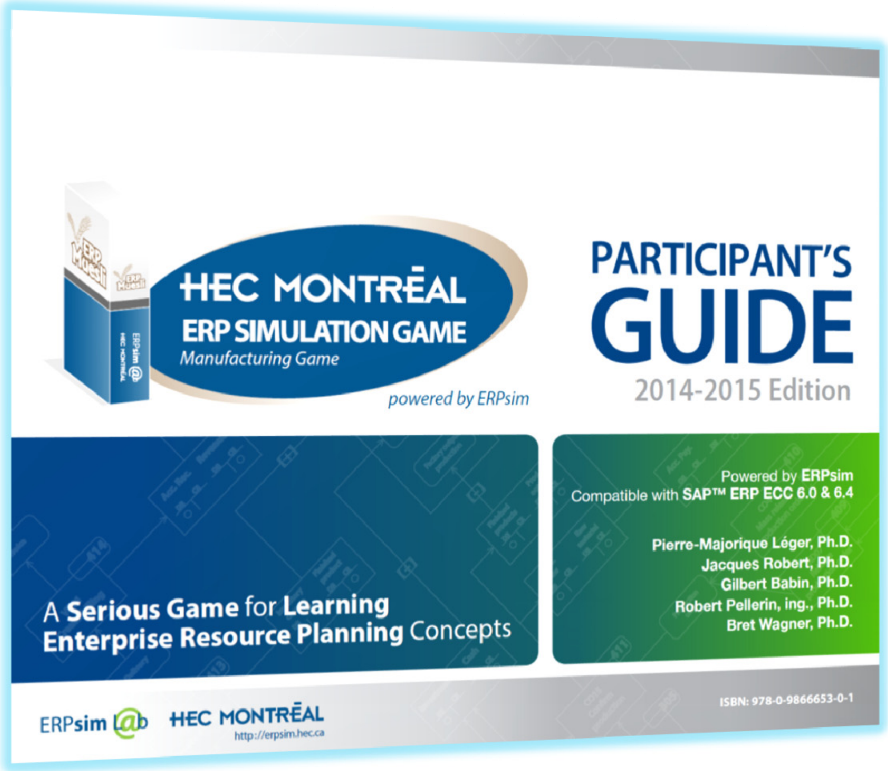

PARTICIPANT'S GUIDE
2014-2015 Edition

PARTICIPANT'S GUIDE
(for Logistics and Manufacturing only)

Commercial version powered by BATON SIMULATIONS

LÉGER ET AL (2013) :

Manufacturing Participants Guide



HEC MONTRÉAL
ERP SIMULATION GAME
Manufacturing Game
powered by ERPsim

PARTICIPANT'S
GUIDE
2014-2015 Edition

A **Serious Game** for **Learning**
Enterprise Resource Planning Concepts

Powered by **ERPsim**
Compatible with **SAP™ ERP ECC 6.0 & 6.4**

Pierre-Majorique Léger, Ph.D.
Jacques Robert, Ph.D.
Gilbert Babin, Ph.D.
Robert Pellerin, ing., Ph.D.
Bret Wagner, Ph.D.

ERPsim Lab HEC MONTRÉAL
http://erpsim.hec.ca

ISBN: 978-0-9866653-0-1

Part 1
Welcome to your New Job

Part 2
Extended Game

Part 3
SAP Implementation at Muesli AG

Part 4
SAP Business One®
Implementation at Muesli America

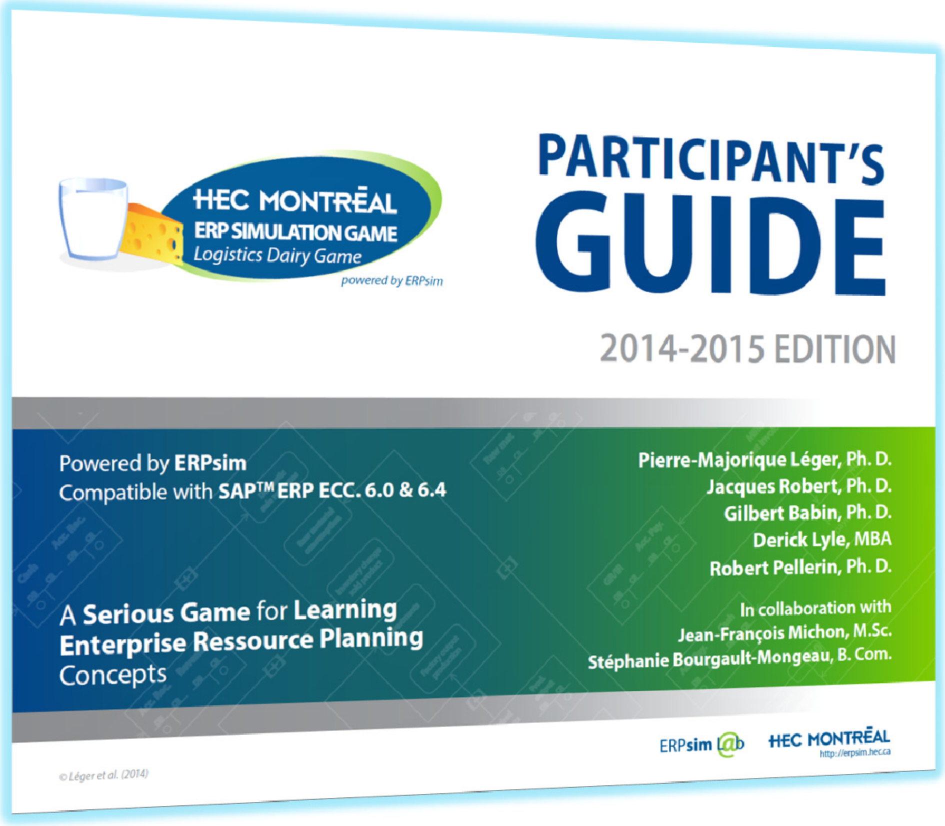
Part 5
Special Topics

Available at http://erpsim.hec.ca/en/node/291

CLICK HERE
FOR MORE INFO

LÉGER ET AL (2012) :

Logistics Participants Guide



HEC MONTRÉAL
ERP SIMULATION GAME
Logistics Dairy Game
powered by ERPsim

PARTICIPANT'S
GUIDE

2014-2015 EDITION

Powered by **ERPsim**
Compatible with **SAP™ ERP ECC. 6.0 & 6.4**

A **Serious Game** for **Learning Enterprise Ressource Planning** Concepts

Pierre-Majorique Léger, Ph. D.
Jacques Robert, Ph. D.
Gilbert Babin, Ph. D.
Derick Lyle, MBA
Robert Pellerin, Ph. D.

In collaboration with
Jean-François Michon, M.Sc.
Stéphanie Bourgault-Mongeau, B. Com.

ERPsim Lab HEC MONTRÉAL
http://erpsim.hec.ca

© Léger et al. (2014)

Introduction to the ERPsim Dairy Logistic Game

Part 1
Description of Our New Company

Part 2
Description of the Marketplace

Part 3
Decisions Areas

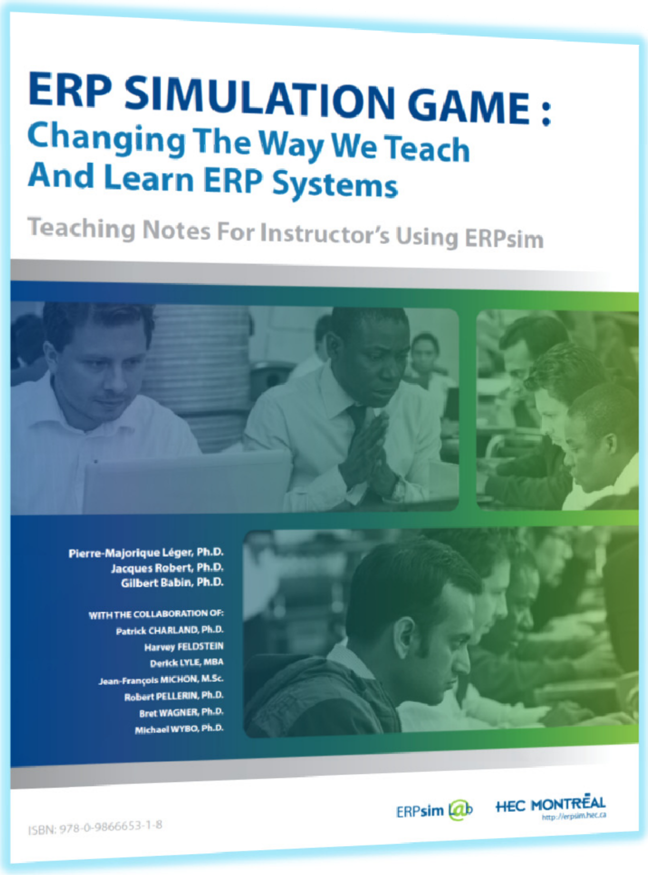
Part 4
Other Important Rules

Available at http://erpsim.hec.ca/en/node/274

CLICK HERE
FOR MORE INFO

Commercial version powered by BÅTON SIMULATIONS

LÉGER ET AL (2013) :
Teaching Notes for Instructors



ERP SIMULATION GAME :
Changing The Way We Teach
And Learn ERP Systems

Teaching Notes For Instructor's Using ERPsim

Pierre-Majorique Léger, Ph.D.
Jacques Robert, Ph.D.
Gilbert Babin, Ph.D.

WITH THE COLLABORATION OF:
Patrick CHARLAND, Ph.D.
Harvey FELDSTEIN
Derick LYLE, MBA
Jean-François MICHON, M.Sc.
Robert PELLERIN, Ph.D.
Bret WAGNER, Ph.D.
Michael WYBO, Ph.D.

ISBN: 978-0-9866653-1-8

Why, what, where and how for all ERPsim games and versions

Part 1
Introduction to ERPsim

Part 2
Using ERPsim

Part 3
Teaching with ERPsim

Part 4
Instructor's Checklist

Available at http://erpsim.hec.ca/en/node/314

CLICK HERE
FOR MORE INFO

Léger, P.-M., Robert, J. et Babin, G. (2013). ERP Simulation Game: Changing the Way We Teach and Learn ERP Systems, 2nd Edition, ERPsim Lab, HEC Montréal, 179 pages (ISBN: 978-0-9866653-1-8).

ROBERT ET AL (2013)

Business Analytics for Simulation Games in SAP

A **Serious Game** for **Learning**
Enterprise Resource Planning Concepts

HEC MONTRĒAL
ERP SIMULATION GAME
powered by ERPsim

Business Analytics for
Simulation Games in **SAP**

Using ERPsim BI to create dashboards, mine data, and win using business intelligence

Jacques Robert
Gilbert Babin
Pierre-Majorique Léger
Jean-Francois Michon

Includes :
How to design an
SAP Crystal Dashboard
to compete in
ERPsim

ERPsim L@b HEC MONTRĒAL
http://erpsim.hec.ca

Chapter 1 :
Introduction to ERPsim

Chapter 2 :
ERP Dairy Company Data Model (Logistics Game)

Chapter 3 :
Info-Cubes for the ERPsim Dairy Company (Logistics Game)

Chapter 4:
Data Model of the ERP Muesli Company (Manufacturing Game)

Chapter 5:
Info-Cubes for the ERPsim Muesli Company

Chapter 6:
Constructing a Dashboard for the ERPsim Games

Available at http://erpsim.hec.ca/en/node/340

CLICK HERE FOR MORE INFO

Robert, J., Babin, G., Léger, P.-M. and Michon, J.-F. (2013). Business Analytics for Simulation Games in SAP, ERPsim Lab, HEC Montréal, 114 pages (ISBN: 978-0-9866653-X-X).

ROBERT ET AL (2013)

Information technologies in Organizations

INFORMATION TECHNOLOGIES IN ORGANIZATIONS

Powered by ERPsim

HEC MONTRÉAL
ERP SIMULATION GAME
Logistics Dairy Game
powered by ERPsim
ERP Dairy

Jacques Robert (HEC Montréal)
Gilbert Babin (HEC Montréal)
Ana Ortiz de Guinea (HEC Montréal)
Derick Lyle (HEC Montréal)
Pierre-Majorique Léger (HEC Montréal)

HEC MONTRÉAL
http://erpsim.hec.ca

Part 1
Objectives of the book

Part 2
Content of the book

Part 3
Serious Games and Exercises in Class

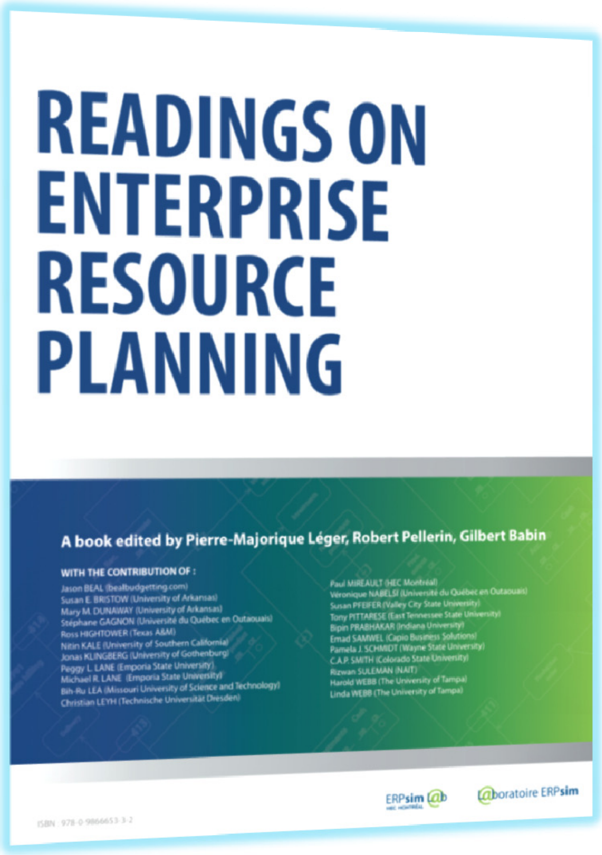
Part 4
How to use this book

Available at http://erpsim.hec.ca/en/node/313

CLICK HERE FOR MORE INFO

LÉGER ET AL (2011)

Readings on Enterprise Resource Planning



READINGS ON ENTERPRISE RESOURCE PLANNING

A book edited by Pierre-Majorique Léger, Robert Pellerin, Gilbert Babin

WITH THE CONTRIBUTION OF :

Jason BEAL (bealbudgetting.com)
Susan E. BRISTOW (University of Arkansas)
Mary M. DUNAWAY (University of Arkansas)
Stéphane GAGNON (Université du Québec en Outaouais)
Ross HIGHTOWER (Texas A&M)
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Pamela J. SCHMIDT (Wayne State University)
C.A.P. SMITH (Colorado State University)
Rizwan SULEMAN (NAIT)
Harold WEBB (The University of Tampa)
Linda WEBB (The University of Tampa)

ERPsim L@b HEC MONTRÉAL
L@boratoire ERPsim

ISBN : 978-0-9866653-3-2

Part 1:
Introduction to ERP

Part 2:
ERP System Implementation

Part 3:
ERP System and Enterprise Architecture

Part 4:
ERP System and Organizational Issues

Part 5:
ERP System and Business Analytics

Part 6:
Advanced Topics

Available at http://erpsim.hec.ca/en/node/279

CLICK HERE FOR MORE INFO

Léger, P.-M., Pellerin, R. et Babin, G. (2011). Readings on Enterprise Resource Planning, ERPsim Lab, HEC Montréal, 328 pages (ISBN: 978-0-9866653-3-2).

LÉGER (2010)

ERPsim Paper Game

INTRODUCTION TO BUSINESS PROCESS MANAGEMENT : A BUSINESS SIMULATION

Pedagogical Note No 2011-01

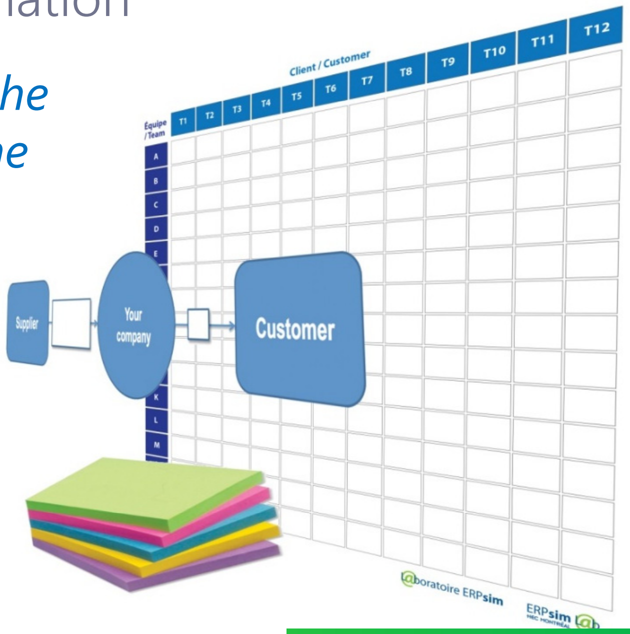
Pierre-Majorique Léger, Ph.D.
Professor, IT Faculty, HEC Montréal
Director, ERPsim Lab

ERPsim Lab

ISBN : 978-0-9866653-4-9

A 60 minutes introduction to business processes and the flow of information

Send feedback on the ERPsim Paper Game at pml@hec.ca


Client / Customer
T1
T2
T3
T4
T5
T6
T7
T8
T9
T10
T11
T12
Équipe / Team
A
B
C
D
E
K
L
M
Supplier
Your company
Customer
Laboratoire ERPsim
ERPsim Lab HEC MONTRÉAL

Available at http://erpsim.hec.ca/en/node/281

CLICK HERE FOR MORE INFO

What is new with ERPsim 2014-2015

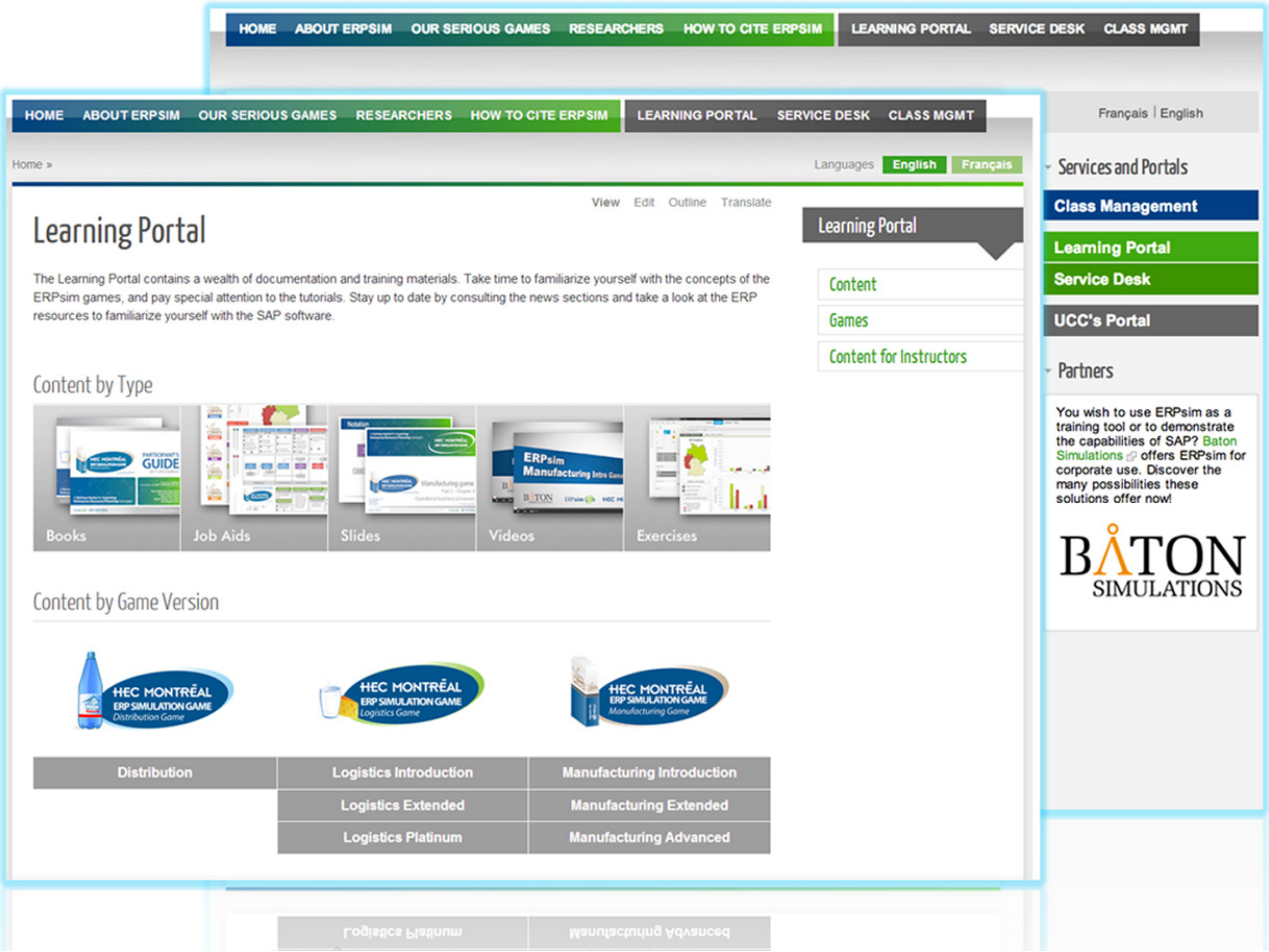
ERPSIM WEBSITE :

Enhanced Navigation and Learning Portal

One of the key changes is the navigation.

All nodes now have a menu, and are either linked to one of the four main sections, or the Learning Portal.

The navigation within the Learning Portal has also been improved, where the content can either be accessed by content type or by game.


HOME
ABOUT ERPSIM
OUR SERIOUS GAMES
RESEARCHERS
HOW TO CITE ERPSIM
LEARNING PORTAL
SERVICE DESK
CLASS MGMT
Home »
Languages
English
Français
View
Edit
Outline
Translate
Learning Portal
Content by Type
Books
Job Aids
Slides
Videos
Exercises
Content by Game Version
HEC MONTRÉAL ERP SIMULATION GAME Distribution Game
HEC MONTRÉAL ERP SIMULATION GAME Logistics Game
HEC MONTRÉAL ERP SIMULATION GAME Manufacturing Game
Distribution
Logistics Introduction
Logistics Extended
Logistics Platinum
Manufacturing Introduction
Manufacturing Extended
Manufacturing Advanced
Learning Portal
Content
Games
Content for Instructors
Français | English
Services and Portals
Class Management
Learning Portal
Service Desk
UCC's Portal
Partners
BATON SIMULATIONS

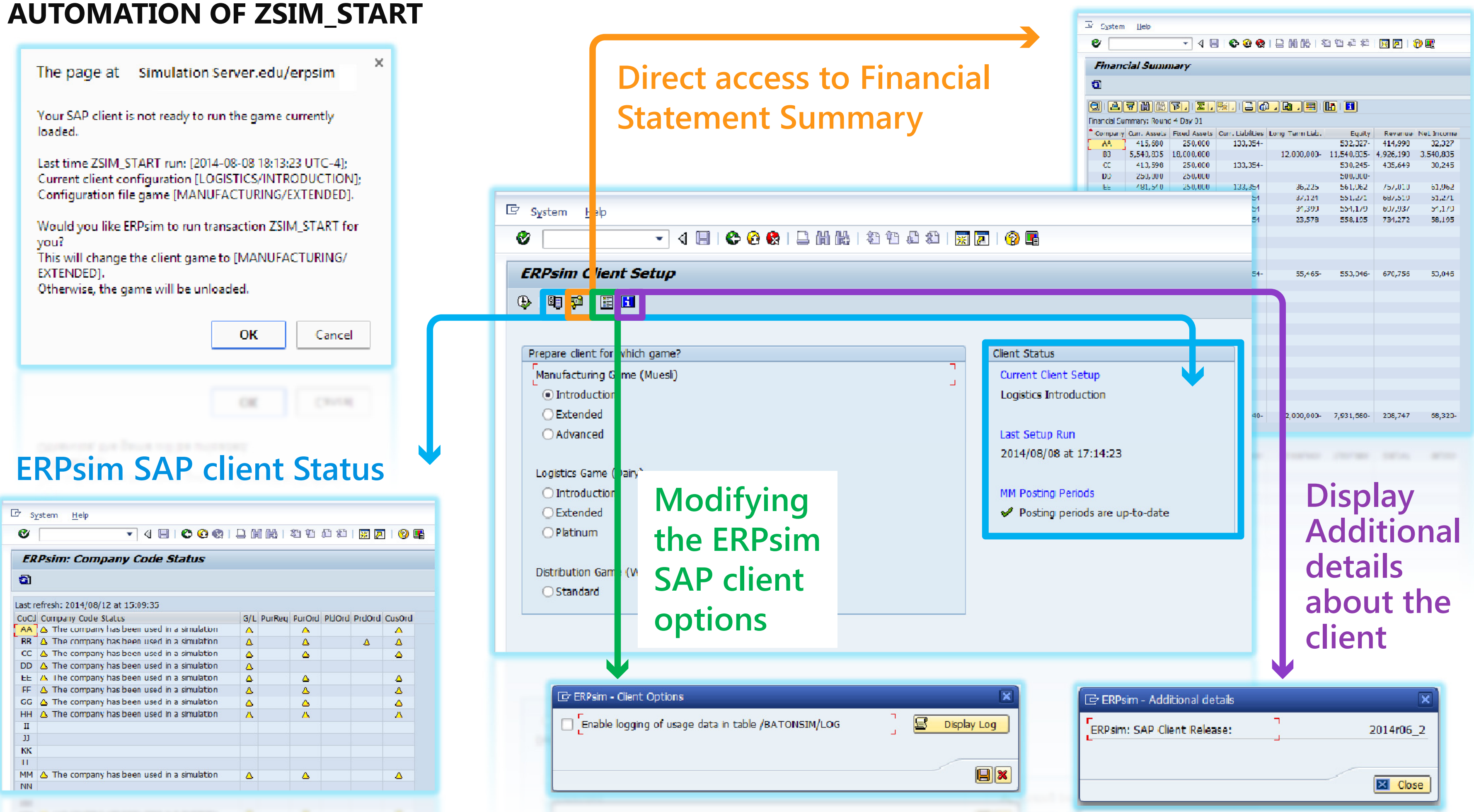
The Learning Portal contains a wealth of documentation and training materials. Take time to familiarize yourself with the concepts of the ERPsim games, and pay special attention to the tutorials. Stay up to date by consulting the news sections and take a look at the ERP resources to familiarize yourself with the SAP software.

You wish to use ERPsim as a training tool or to demonstrate the capabilities of SAP? Baton Simulations offers ERPsim for corporate use. Discover the many possibilities these solutions offer now!

SAP CLIENT SETUP AND MONITORING TOOLS :

Revamp & Automation of ZSIM_START

AUTOMATION OF ZSIM_START



The page at Simulation Server.edu/erpsim

Your SAP client is not ready to run the game currently loaded.

Last time ZSIM_START run: [2014-08-08 18:13:23 UTC-4];
Current client configuration [LOGISTICS/INTRODUCTION];
Configuration file game [MANUFACTURING/EXTENDED].

Would you like ERPsim to run transaction ZSIM_START for you?
This will change the client game to [MANUFACTURING/EXTENDED].
Otherwise, the game will be unloaded.

Direct access to Financial Statement Summary

Financial Summary

Financial Summary: Round 4 Day 01

Company	Curr. Assets	Fixed Assets	Curr. Liabilities	Long Term Liab.	Equity	Revenue	Net Income
AA	415,680	250,000	133,354-		532,327-	414,990	32,327
BB	5,540,835	18,000,000		12,000,000-	11,540,835-	4,926,190	3,540,835
CC	413,598	250,000	133,354-		530,245-	435,649	30,245
DD	250,000	250,000			500,000-		
EE	781,570	250,000	133,354	36,225	561,062	757,010	61,962
				37,124	551,271	687,519	51,271
				34,399	554,179	607,937	54,179
				23,578	558,195	734,272	58,195
				55,465-	553,046-	670,756	53,046
				2,000,000-	7,931,680-	208,747	68,320-

ERPsim Client Setup

Prepare client for which game?

Manufacturing Game (Muesli)
○ Introduction
○ Extended
○ Advanced

Logistics Game (Dairy)
○ Introduction
○ Extended
○ Platinum

Distribution Game (W
○ Standard

Client Status

Current Client Setup
Logistics Introduction

Last Setup Run
2014/08/08 at 17:14:23

MM Posting Periods
✓ Posting periods are up-to-date

ERPsim SAP client Status

ERPsim: Company Code Status

Last refresh: 2014/08/12 at 15:09:35

CoCd	Company Code Status	G/L	PurReq	PurOrd	PldOrd	PrdOrd	CusOrd
AA	⚠ The company has been used in a simulation	⚠		⚠			⚠
BB	⚠ The company has been used in a simulation	⚠		⚠		⚠	⚠
CC	⚠ The company has been used in a simulation	⚠		⚠			⚠
DD	⚠ The company has been used in a simulation	⚠					
EE	⚠ The company has been used in a simulation	⚠		⚠			⚠
FF	⚠ The company has been used in a simulation	⚠		⚠			⚠
GG	⚠ The company has been used in a simulation	⚠		⚠			⚠
HH	⚠ The company has been used in a simulation	⚠		⚠			⚠
II							
JJ							
KK							
LL							
MM	⚠ The company has been used in a simulation	⚠		⚠			⚠
NN							

Modifying the ERPsim SAP client options

ERPsim - Client Options

☐ Enable logging of usage data in table /BATONSIM/LOG

Display Additional details about the client

ERPsim - Additional details

ERPsim: SAP Client Release: 2014r06_2

Commercial version powered by

ERPsim on HANA

ERPsim on HANA *beta*

2004 • 2014
10th ANNIVERSARY

A gamified approach
to learn business analytics

erpsim.hec.ca

ERPsim L@b HEC MONTRĒAL

Big Data:
Shortage in analytical skills

The United States alone
faces a shortage of

190,000

people with analytical expertise

and

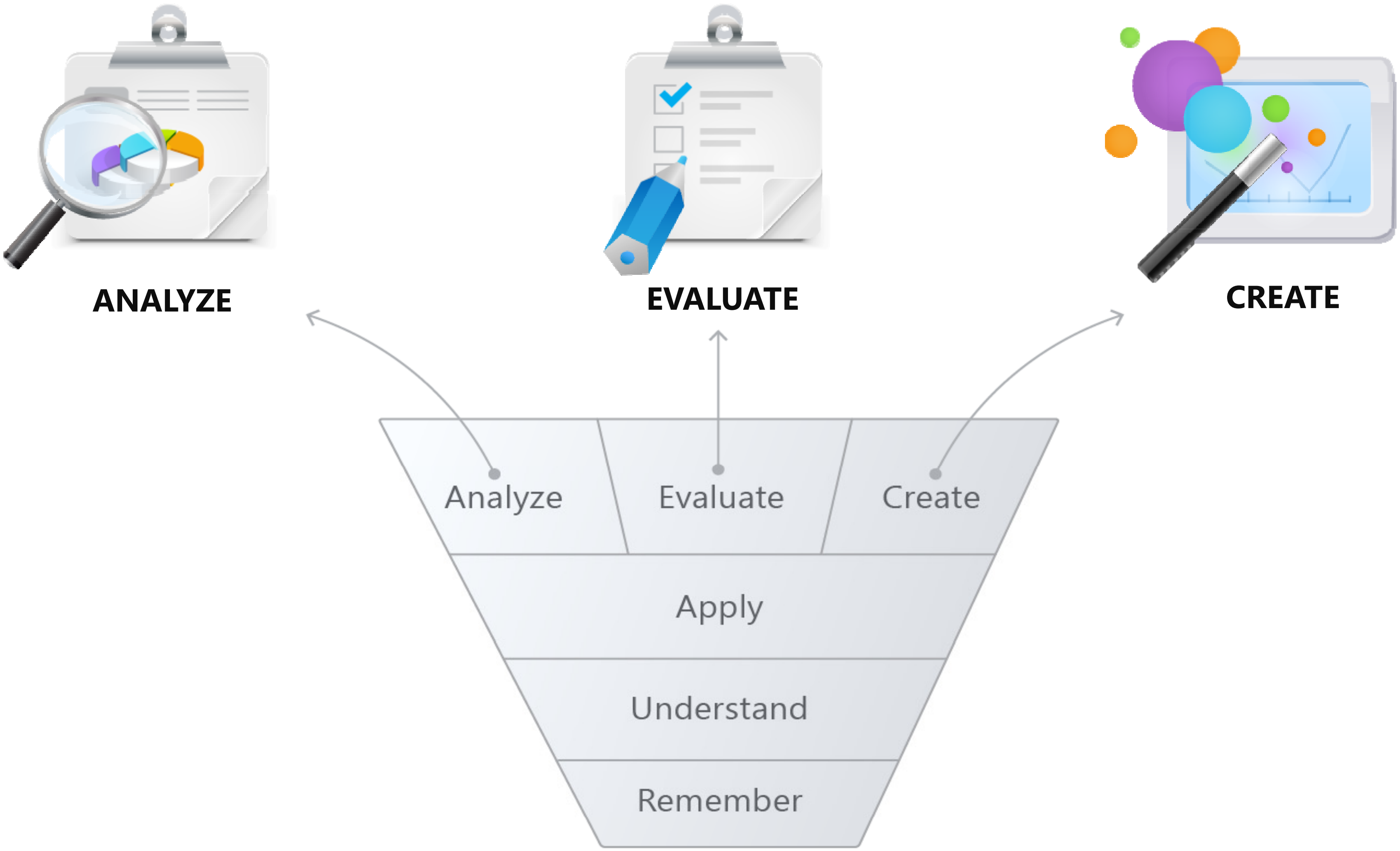
1.5 million

managers and analysts
with the skills to understand and make decisions based on the analysis of big data

Source : McKinsey, 2011

Big Data:

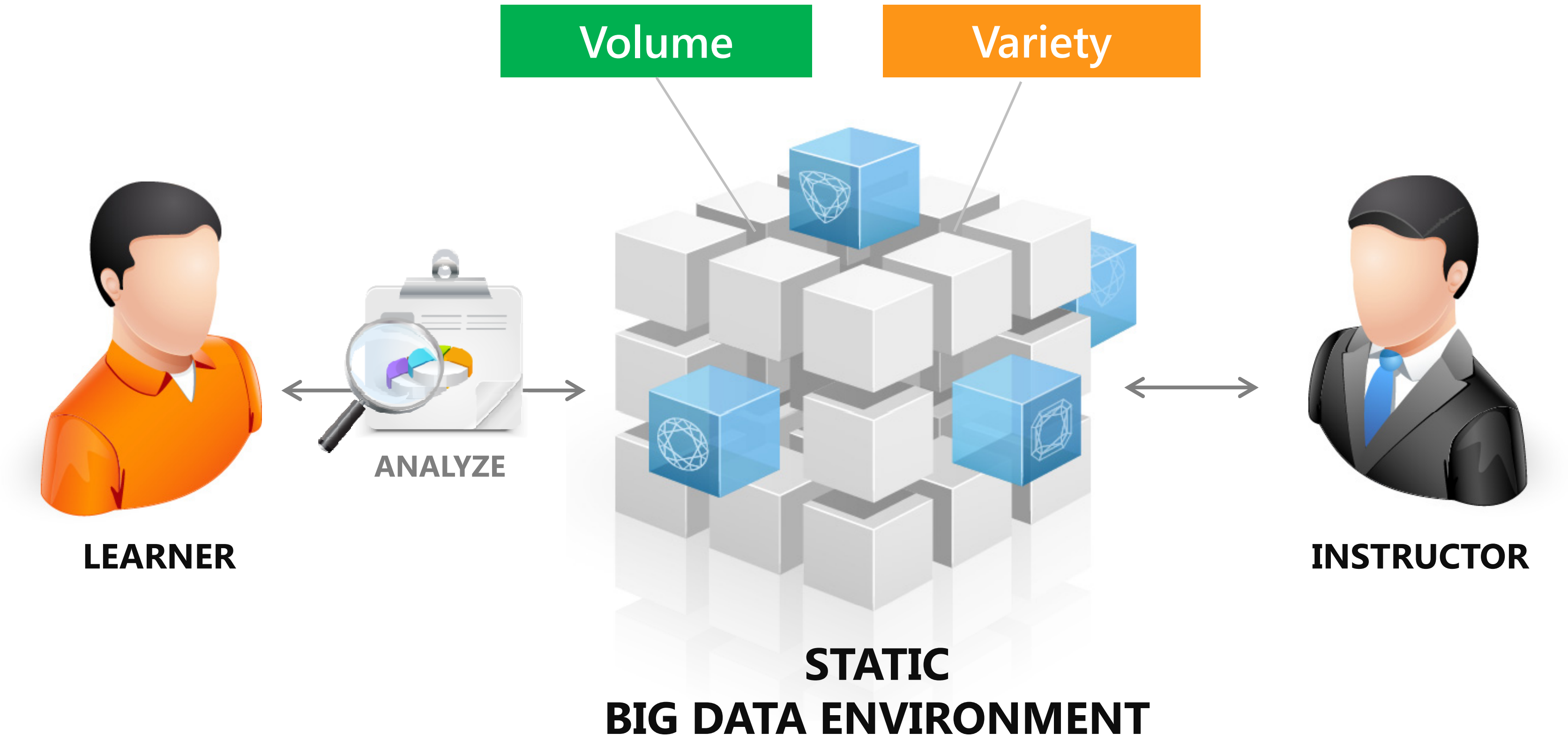
Cognitive processes involved in business analytics



ANALYZE
EVALUATE
CREATE
Analyze
Evaluate
Create
Apply
Understand
Remember

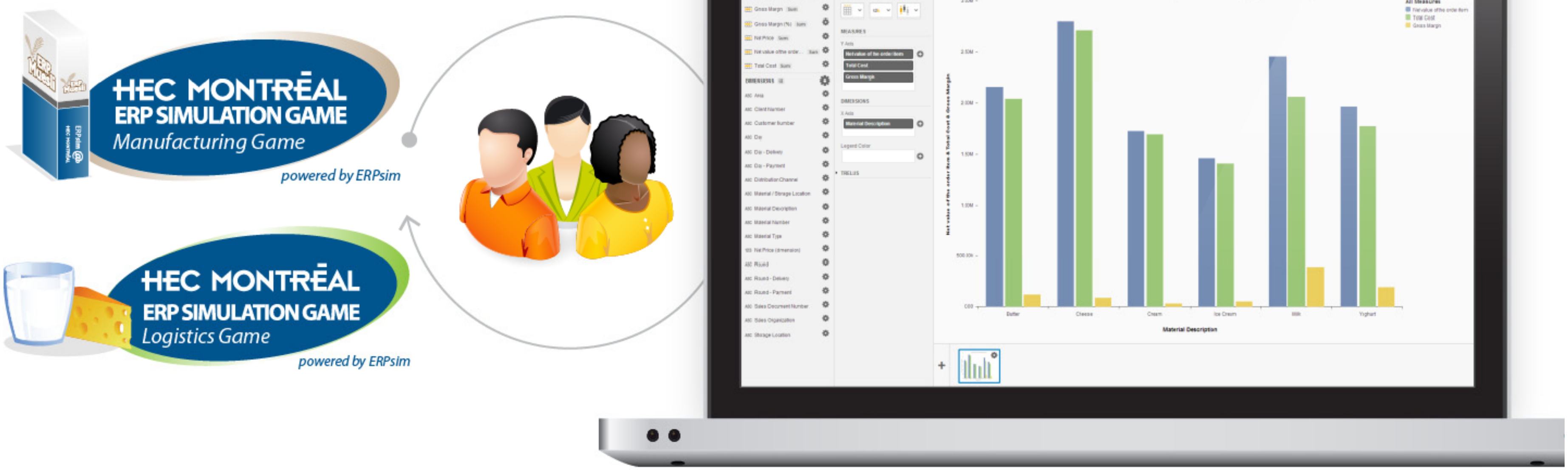
Source: Anderson et al (2000); Revised Bloom Learning Taxonomy

Big Data:
Traditional Analytics Training


Volume
Variety
LEARNER
ANALYZE
INSTRUCTOR
STATIC
BIG DATA ENVIRONMENT

Big Data:
ERPsim on HANA

ERPsim on SAP HANA


HEC MONTRÉAL
ERP SIMULATION GAME
Manufacturing Game
powered by ERPsim
HEC MONTRÉAL
ERP SIMULATION GAME
Logistics Game
powered by ERPsim
Prepare
Visualize
Compose
Share
Net value of the orderitem, Total Cost and Gross Margin by Material Description
All Measures
Net value of the order item
Total Cost
Gross Margin
3.00M
2.50M
2.00M
1.50M
1.00M
500.00k
0.00
Net value of the order item & Total Cost & Gross Margin
Butter
Cheese
Cream
Ice Cream
Milk
Yoghurt
Material Description

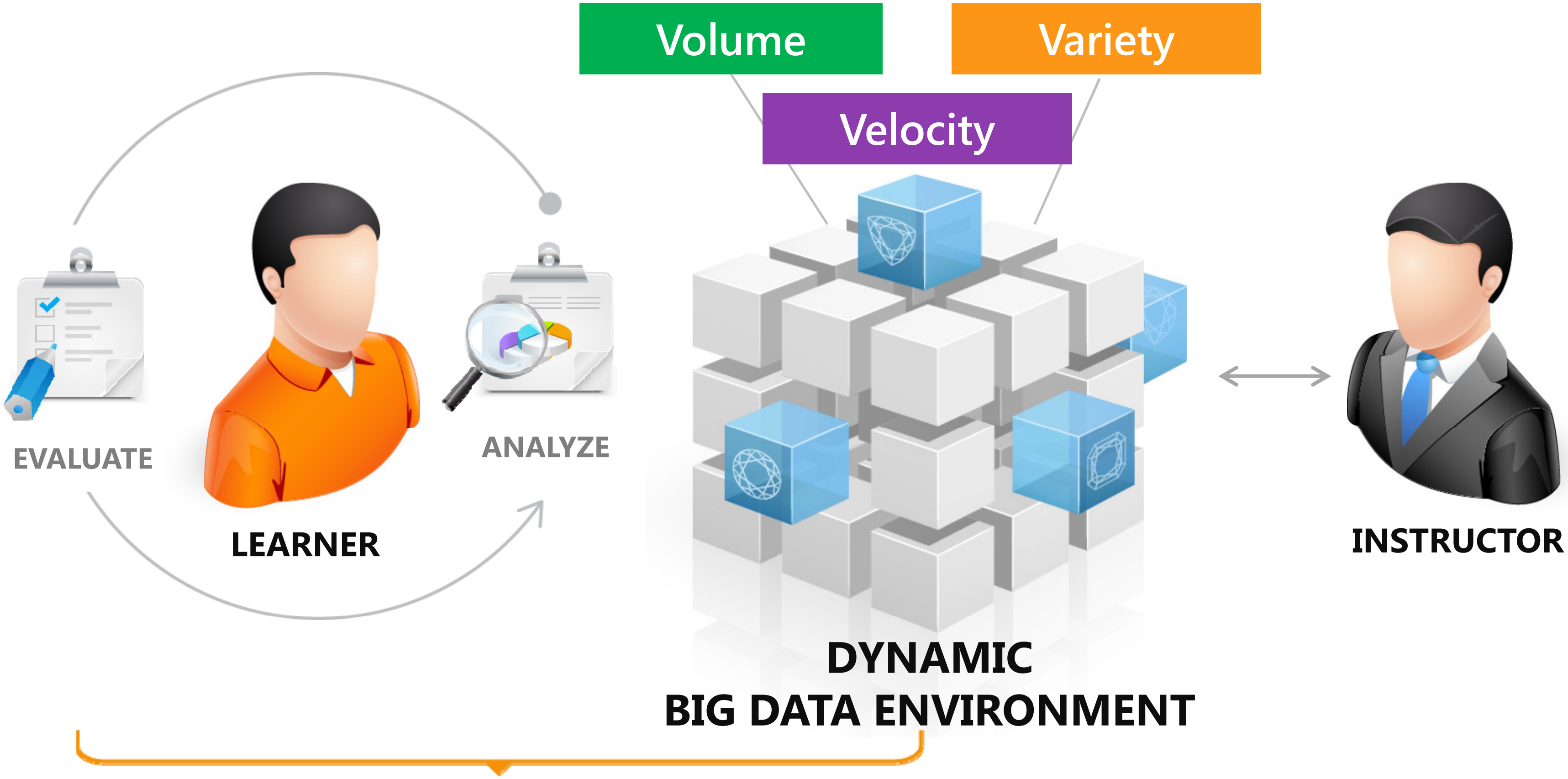
SAP Lumira,
SAP Predictive Analysis
and more!

ERPsim L@b
HEC MONTRÉAL

Commercial version powered by BATON SIMULATIONS

ERPsim on HANA *beta*

Dynamic Big Data Environnement



Volume

Variety

Velocity

EVALUATE

LEARNER

ANALYZE

DYNAMIC BIG DATA ENVIRONMENT

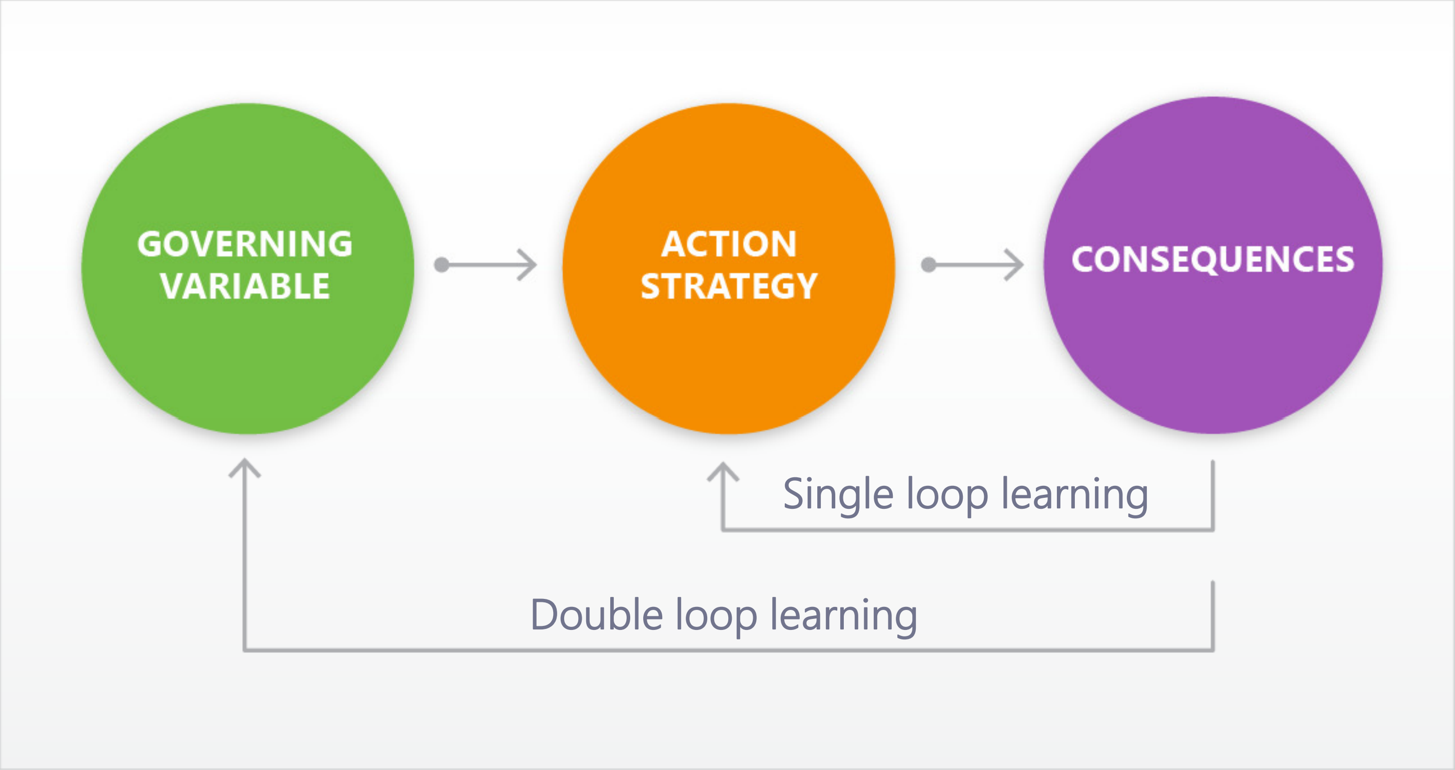
INSTRUCTOR

Single loop learning

Commercial version powered by

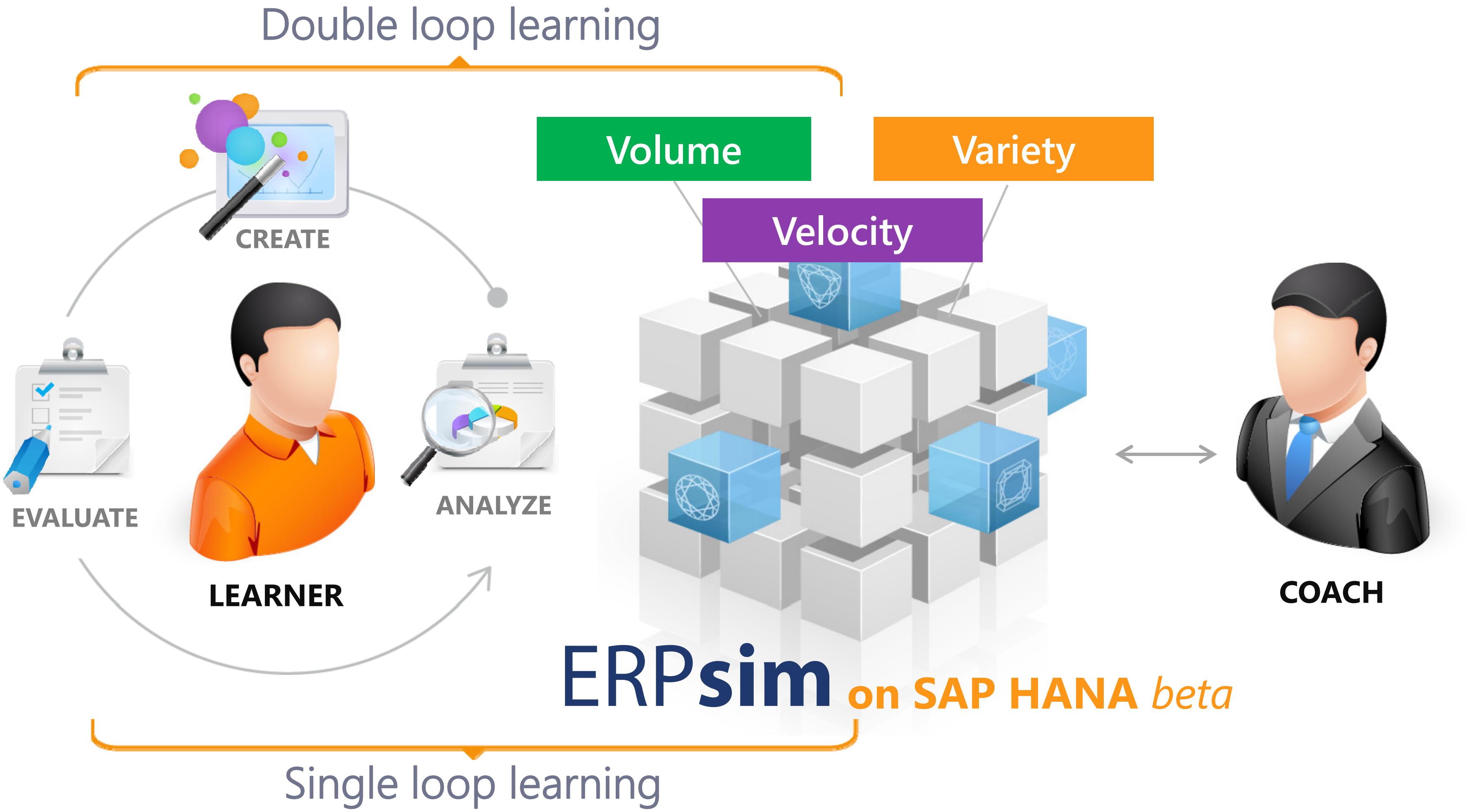
ERPsim on HANA *beta*

Double loop learning


GOVERNING VARIABLE
ACTION STRATEGY
CONSEQUENCES
Single loop learning
Double loop learning

Source: Anderson et al (2000)

ERPsim on HANA *beta*
Double loop learning in a Big Data context


Double loop learning
CREATE
EVALUATE
ANALYZE
LEARNER
Volume
Variety
Velocity
COACH
ERPsim on SAP HANA beta
Single loop learning

ERPsim L@b HEC MONTRÉAL

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ERPsim on HANA *beta*

Beta trial Fall 2014

East Tennessee State University

Miami University

Dalhousie University

Abilene Christian University

University of Houston

University of Tampa

UWM

Michigan State University

University of Arkansas

Indiana University

Emporia State University

HEC Montréal

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ERPsim
International Competition

ERPsim L@b

ERPSIM A GAMIFIED APPROACH TO LEARN BUSINESS ANALYTICS

ERPSIM INTERNATIONAL COMPETITION :
Winners

HEC
Lausanne

HEC LAUSANNE

6th International ERPsim Competition 2014 | ERPsim Lab HEC MONTRÉAL

Central
Michigan
University

CMU CENTRAL MICHIGAN UNIVERSITY

5th International ERPsim Competition 2013 | ERPsim Lab HEC MONTRÉAL

Universitas
Islam
Indonesia

ISLAM UNIVERSITAS INDONESIA

4th International ERPsim Competition 2012 | ERPsim Lab HEC MONTRÉAL

ERPSIM INTERNATIONAL COMPETITION :
7th Edition

This year,
the competition
will be played
on SAP HANA!

7th
International
ERPsim
Competition
2015 | ERPsim L@b
HEC MONTRÉAL

User Groups and Workshops

ERPSIM A GAMIFIED APPROACH TO LEARN BUSINESS ANALYTICS

User Groups and Workshops

4th ERPsim User Group Meeting

The ERPsim Lab is pleased to invite you and your colleagues
to the **4th ERPsim User Group Meeting**.

The meeting will be held at HEC Montréal (Montréal, Québec, Canada)
*from **June 15th to June 18th 2015**.*

Also, do not miss one of the two breakout sessions that will be held
at the **SAP Academic Conference EMEA in Berlin** on September 9-10 2014.

We will also be present at the SAP Academic Conference Americas in 2015.

Level 1: ERPsim Instructor

OBJECTIVES

- Learn how to use ERPsim effectively and become confident in using the solution
- Understand how to implement ERPsim and SAP in a curriculum

COVERAGE

Before the workshop

- Distribution game (pre-workshop game)

During the workshop

- Manufacturing Introduction
- Manufacturing Extended
- ERPsim Console administration
- Simulation game and enactive learning pedagogical approaches

User Groups and Workshops

Level 2: ERPsim Trainer

ERPsim
Level
2
Trainer

Level 1 training required

OBJECTIVES

- Learn advanced ERPsim functionalities
- Obtain the Level 2 certification to become a “train-the-trainer”

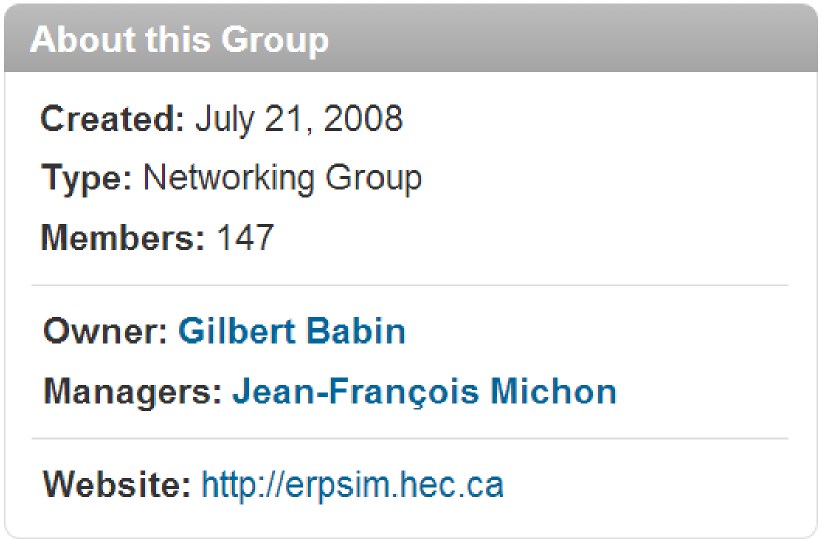
COVERAGE

- Logistics game
- New: ERPsim on HANA
- ERPsim BI and SAP BusinessObjects
- Advanced pedagogical approaches and troubleshooting

Level 2 Certification Exam

ERPsim Community

Join the ERPsim LinkedIn Community



About this Group

Created: July 21, 2008

Type: Networking Group

Members: 147

Owner: Gilbert Babin

Managers: Jean-François Michon

Website: http://erpsim.hec.ca

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Click the button
to join our Community

ERPsim

2004★2014
10th ANNIVERSARY

ERPsim 2014-2015 Instructor's Webinar
What is New with ERPsim?

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