# ERPsim 10<sup>th</sup> ERPsim User Group Meeting

#### **Please Note**

This webcast is being recorded and will be made available on the ERPsim website. Please be aware that questions you ask 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) may be shared. If you do not wish to be recorded, please disconnect from the webcast at this time.

This presentation contain references to products of SAP SE, Dietmar-Hopp-Allee 16, 69190 Walldorf, Germany. The names of these products are registered and/or unregistered trademarks of SAP SE. SAP SE is neither the author nor the publisher of this presentation and is not responsible for its content.

10<sup>th</sup> ERPsim User Group Meeting Online | June 7, 2021



Serious games to learn enterprise systems and business analytics

### Pierre-Majorique Léger, Ph.D.



NSERC-Prompt Industrial Research Chair in User Experience

Director ERPsim Lab
Co-director Tech3Lab

pml@hec.ca

#### **GRADUATE STUDIES**



POST-DOCTORATE

HEC MONTREAL



#### **LABORATORIES**







#### **GUEST PROFESSOR**





#### FINANCIAL SUPPORT

HEC MONTRĒAL



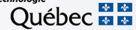
Conseil de recherches en sciences humaines du Canada Social Sciences and Humanities Research Council of Canada







Enseignement supérieur, Recherche, Science et Technologie

















### The ERPsim Team



Pierre-Majorique Léger, Ph.D. Director, Principal Inventor



Gilbert Babin, Ph.D. Co-Inventor



Jacques Robert, Ph.D. Co-Inventor



Jean-François Michon, M.Sc. Administrative / R&D Director





Felix G. Lafontaine, M.Sc. Forough Karimi-Alaghehband, Ph.D. Senior Business Analyst Pedagogical Development Manager



Karl-David Boutin, M.Sc. IT Project Manager



Sergio De La Cruz, M.Sc., MBA Business Development Manager

Undergraduate and Graduate students in support and development roles:

- Burak Öz
- Catherine Ip-Can
- David Aguirre-Monroy
- Joel Chrispin
- Mariko Dupuis
- Pierre-Olivier Brière
- Rosetta Chang

# Game-based Learning for ERP

#### **ACADEMIC**

16+ years in use 2 000+ faculty trained

In 2020, more than

6 000+ simulations

were played by

45 000+ students

across

280+ 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.



#### **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





# **Keynote Speakers**



Dr. Karina Montilla Edmonds

VP, Global Lead for Academies and University Alliances, SAP SE



Dr. Katharina Schäfer Global Head of University Alliances, SAP SE

### What is ERPsim?



ERPsim is like a flight simulator experience where you fly in a virtual sky, but you pilot a <u>real</u> plane!



### What ERPsim Does

120 Périod ASC Debit/Credit Indicat 123 Elapsed Days ASC GL Account Number



#### **Simulator**

- Automation of administrative tasks
- Simulation of a market

**ERPsim** 

Simulation of the passing of time

#### **ERP System**





- **Participants Business decisions**
- **Business analytics**



### Moving Toward an IT Competency Approach

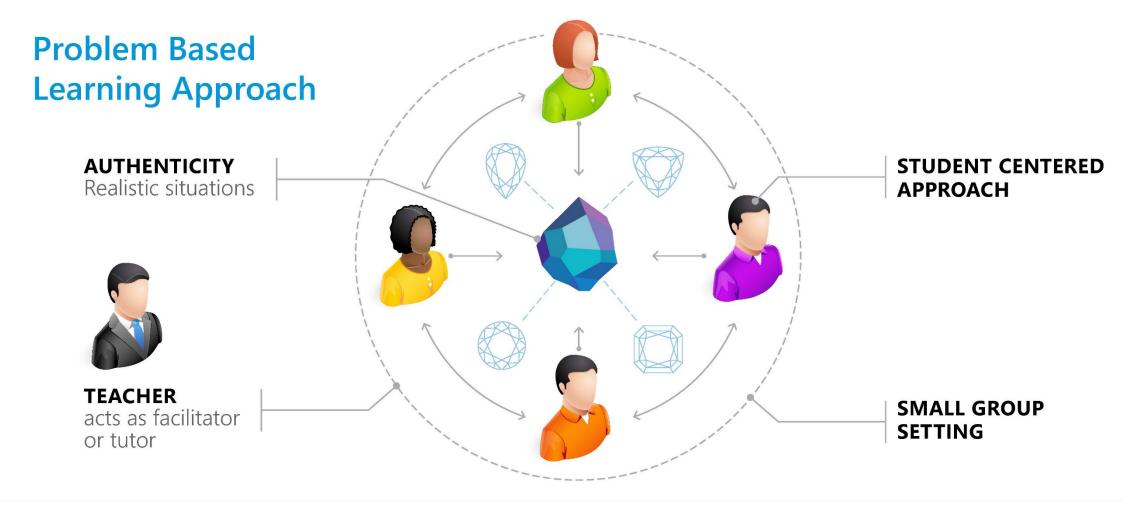
From a standard approach... ... to a competency approach





powered by

# **Active Learning of ERP Related Concepts**





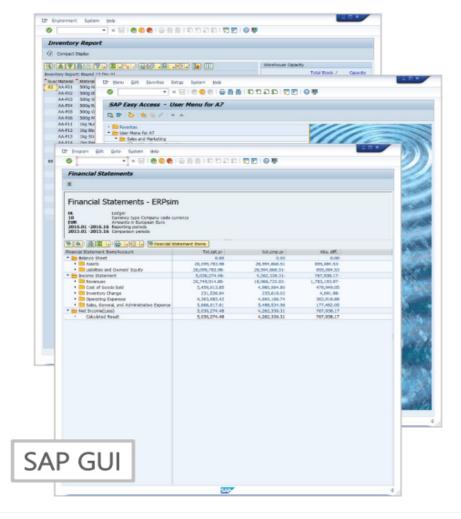
### Using ERPsim, students learn

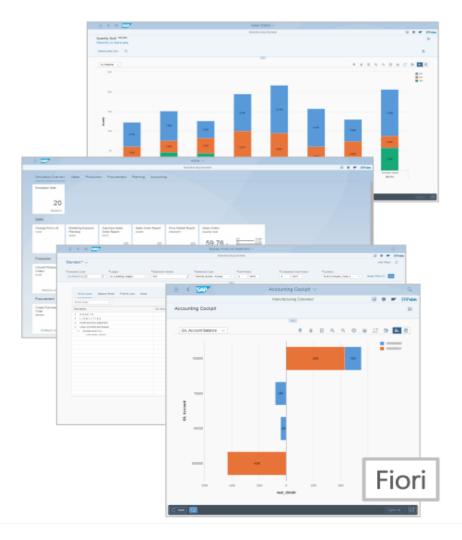
- How to manage a company in a competitive environment
- How to use IT and ERP system to increase their company's performance
- How does SAP and/or ERP systems work
- How to perform and excel in a team
- How to use analytics to stay ahead of competition
- How various third-party business-intelligence software works

# Using ERPsim, you get

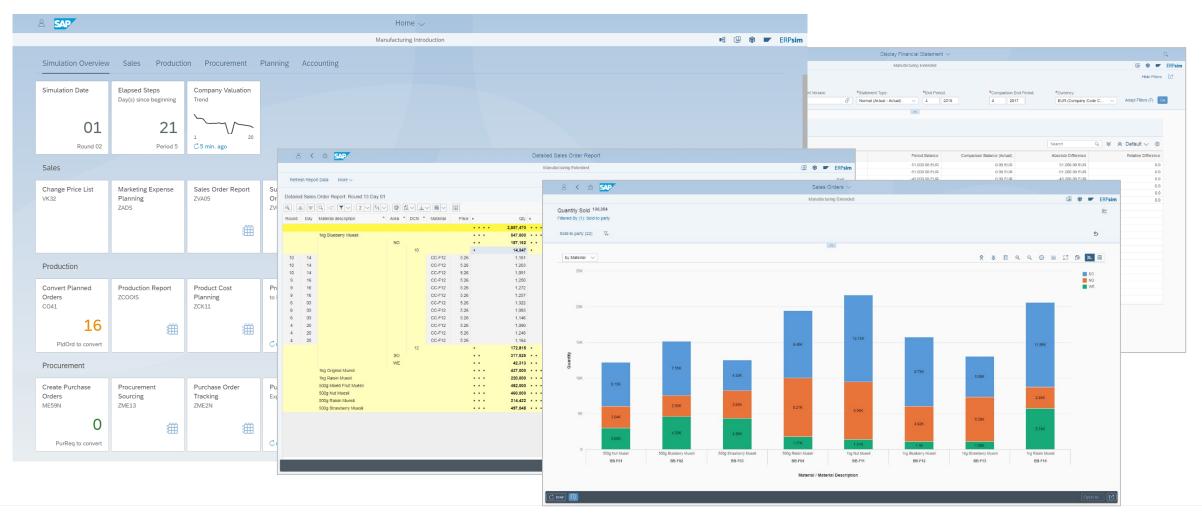
- Increased motivation amongst students to learn concepts at play (ERP, business management, and more!)
- Better engagement in the form of participation and discussions
- Higher satisfaction and changed attitude towards the topic
- Better feedback from students

### **Game Environment**





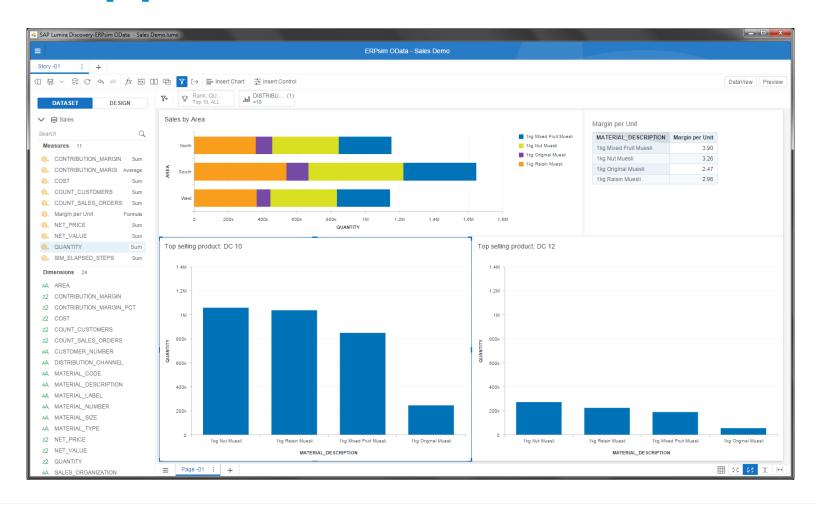
# ERPsim for S/4HANA 1809







### Support for self-service BI tools



**Dynamic Environment Relevant Data** 

**OData Compatible with BI tools** 

SAP® Analytics Cloud





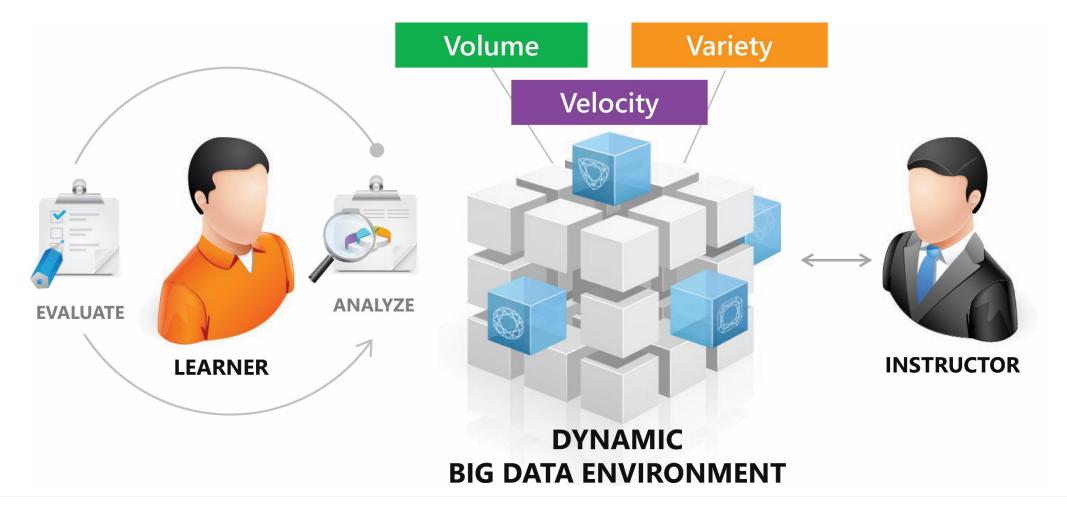






14

# **Analytics in a Dynamic Environment**



# **A Complete Solution**

### Simulator

Four distinct scenarios, with a focus on operational excellence and business intelligence, that allow for use at all university levels.

### Instructional Assets

Ensures that students have a quick start and minimizes the preparation time required by the professor.

### Support

We accompany you by providing technical and pedagogical support for a seamless journey!

### Where to use ERPsim?

### **Target Audience**

- Graduate program: EMBA, MBA, MSc, MAIS, MIS
- Undergraduate programs: BBA, BSCM, BID, BAcc, BCom
- Entrepreneurship programs
- Students preparing for TS410 Certification

#### **Courses**

- Management Information Systems
- Supply Chain Management
- Accounting and Finance
- ERP Integration and Configuration
- Business Analytics
- Entrepreneurship Management



# Multiple Scenarios Available



#### **MANUFACTURING**



ADVANCED





#### **RETAIL**



**EXTENDED** 



#### LOGISTICS

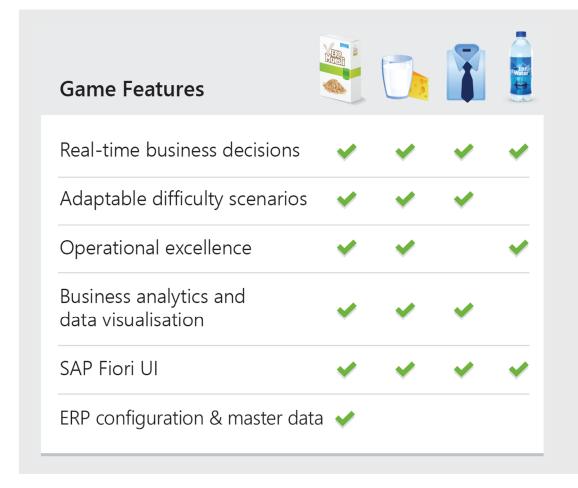






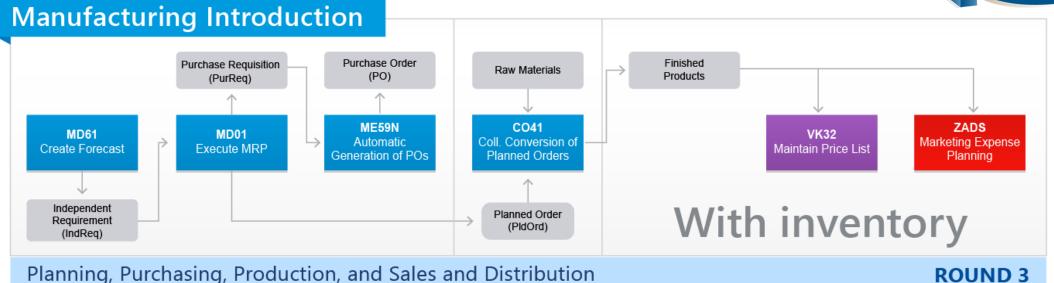
#### **DISTRIBUTION**





### Manufacturing Introduction and Extended



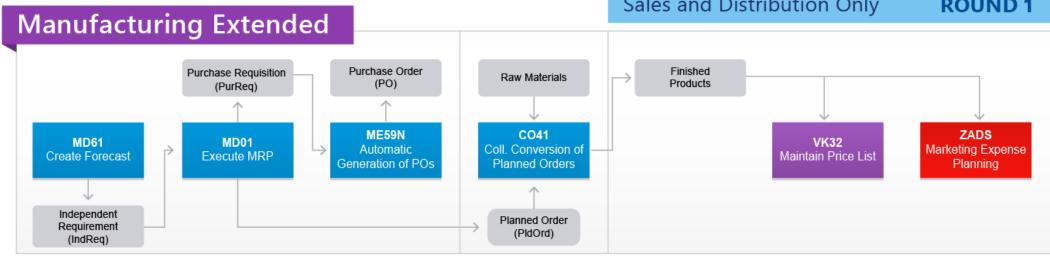


Production, Sales and Distribution

**ROUND 2** 

Sales and Distribution Only

**ROUND 1** 



### **Manufacturing Game Job-Aid**



# 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: May 11, 2020















Nut	
\$\$-F01 \$\$-F11	500g 1kg
Starting	30 000

Inventory units each 35% wheat 35% oat 30% nut

1 box / 1 bag

Blueberry	/
\$\$-F02 \$\$-F12	500g 1kg
Starting	30.000

Inventory units each 35% wheat 35% oat 30% blueberry 1 box / 1 bag

Strawberry	
\$\$-F03 \$\$-F13	500g 1kg
Starting	30.000

Inventory units each 35% wheat 35% oat 30% strawberry 1 box / 1 bag

Raisin	
\$\$-F04 \$\$-F14	500g 1kg
Starting	30 000

Inventory

35% wheat

30% raisins

1 box / 1 bag

35% oat

units each

Original	
\$-F05 \$-F15	500g 1kg
Starting	ING

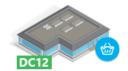
Starting Inventory 50% wheat 50% oat 1 box / 1 bag

Mixed	
\$\$-F06 \$\$-F16	500g 1kg
Starting	None

None

Inventory 30% wheat 30% oat 40% fruits & nuts 1 box / 1 bag

#### **CUSTOMERS**



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

Approximate Market Size €220 000 per team per week

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

PRODUCTION	CONSTRAINTS
Capacity (units/day)	16 000
Setup time (hours)	8

STORAGE	CAPACITY A	IND 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
FIVED COSTS /6 maid analy [ days)*		

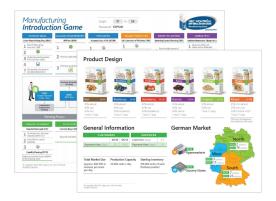
STOPAGE CARACITY AND COSTS

FIXED COSTS (€	paid each 5 days)*
Direct labor	10 000
Manufacturing overhead	7 500
S, G & A	20 000
Depreciation (Building)	1250
Depreciation (Equipment)	33 333

\*Billed automatically

Schlawig Holstain Macklanbourg Westam North
North Rhine-Wostphalia  North Rhine-Wostphalia  Thuringa  Saxony
DC12 17 Stores South
DC12 23 Stores

# **Instructional Assets and Support**



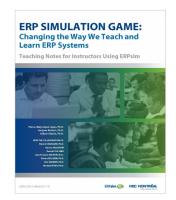
**Job Aids** 



**Instructional Videos** 



Slide Decks



**Material for Instructors** 



Participant's Guide



**Technical and Pedagogical** Support

### Course and Curricula Example

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

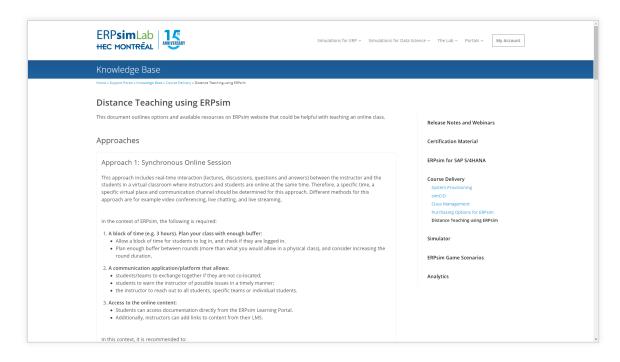


# **Distance Teaching**

A collection of tips and tricks on how to run ERPsim in a distance teaching context:

- Synchronous and Asynchronous approaches
- Efficient communications with participants
- Technical considerations
- A list of available resources

Teaching notes, resources, tips and trips https://erpsim.hec.ca/en/node/606





# **Pricing and Support**

#### **ERPsim License**

\$55 CAD per student, valid for one course (max. 6 months)

Effective price from August 1st 2021 to August 1st 2022.

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:
  - 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.











BATON





### **Become a Certified ERPsim User**

#### For New ERPsim Users

This certification provides you all the necessary knowledge to run an ERPsim simulation game in a classroom setting, and is required to be able to use any of the simulation games provided by the Lab.

Learn more at erpsim.hec.ca/certification

#### **Online Course**

Complete the Online Course in self-study mode



#### Session with our team

Register for a one-on-one session with our team. We'll answer all your questions!





Receive your simCID and start using ERPsim immediately!

### **Advanced ERPsim and Certified Trainer**

#### For Experienced Users Available July 2021

For experienced users who are interested in becoming ERPsim trainers and certify other faculty members

Learn more at erpsim.hec.ca/certification

# Online Course: Advanced topics

Complete the Online Course in self-study mode



# For TTT: Write a short exam

This is a short essay where you explain your plan and objectives for training other faculty!





You will be able to train other faculty and certify them as Level 1 instructors

# **Experience ERPsim!**

- Demo and hands-on experience:
  - Tuesday Morning
  - Tuesday Afternoon

 Join via the same Zoom link that you have received





LOGISTICS

powered by

### **Features**

Learn more about the 2021 edition on Wed

June 9<sup>th</sup>

**SAP System** 

SAP S/4HANA 2020

UI

SAP Fiori

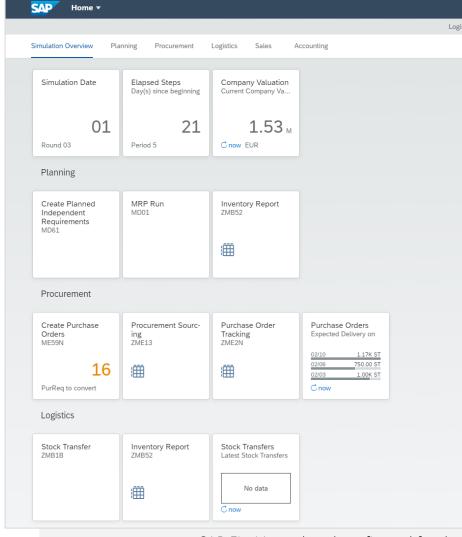
SAP GUI

**Analytics** 

SAP GUI reports

**Smart Business\*** 

OData Service 2.0\*



SAP Fiori Launchpad configured for the Logistics Extended game





<sup>\*</sup> Logistics, Manufacturing and Retail games only

# Thank you!

erpsim.hec.ca erpsim@hec.ca



