

ERPsim Lab

ERPsim use in MIS / MBA courses

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SAP UA NAAC Month of Learning - Workshop
Online | June 26, 2025

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Serious games to learn enterprise
systems and business analytics

Agenda



1. **Professor's Experience Sharing**
 - ▶ William Cantor, Penn State York
 - ▶ Joy Godin, Georgia College & State University
2. **Faculty Q&A**
3. **Course Examples**
4. **Q&A**

William Cantor



William Cantor

Assistant Teaching Professor of Project
and Supply Chain Management
Penn State York



MIS 404

ERPSim

William Cantor, Assistant Teaching Professor, PSCM & IT
June 26, 2025



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Agenda

- MIS 404 Description
- Objectives
- ERPSim Progression
- Signavio
- Analytics
- VR
- Summary



MIS 404 - Introduction to ERP and Business Processes

- A problem-based, interdisciplinary course on Enterprise Resource Planning (ERP) concepts and business processes. MIS 404 **Introduction to ERP and Business Processes** (3) Enterprise Resource Planning (ERP) a group of integrated software modules used to run virtually all business processes in an organization. The course explains and demonstrates how business processes such as sales logistics, production/material management, procurement, and human resources are supported in an ERP software package.



MIS 404 – Students from various programs

- Business
 - BS & Minor
- BS Information Technology
- BS Project and Supply Chain Management
- Enterprise Resource Planning with SAP, Certificate



MIS 404 Select Objectives

- Be able to discuss what a business process is and the importance of business processes to the success of any organization
- Be able to define and describe the key business processes in an organization
- Be able to diagram a complex business process with BPMN
- Be able to create usable dashboards with the ERPSIM data that will maximize key performance indicators



ERPSim Progression

- Transaction Exercises
 - Integrated Business Processes (Cash-to-Cash) - Manufacturing (Muesli Company)
 - BPMN & Signavio Introduction
- Maple Introduction
- Manufacturing Introduction
 - Introduction of Excel/Odata (Optionally Tableau)
- Manufacturing Extended
- Manufacturing Sustainability (prepare for NA competition)
 - Participate in NA competition



BPMN & Signavio

- Create BPMNs for exercises
- BPMNs for ERPSim processes
- BPMNs for ERPSim team activities
 - Focus on Roles
 - Student rotate roles



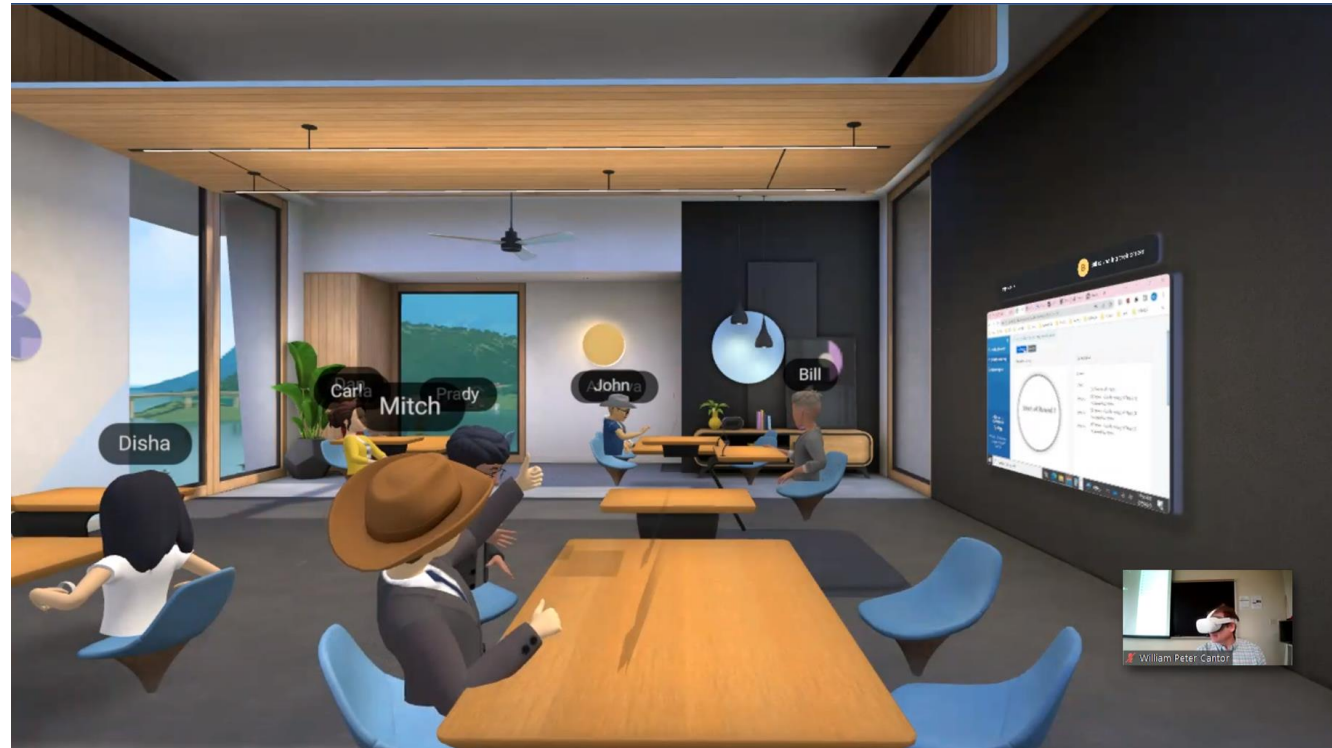
Analytics

- Students/teams must develop dashboards
 - Tied to key decisions (e.g., pricing, advertising)
- Differentiator for the best teams



Virtual Reality Teams

- Hybrid Classes
 - Zoom and in-person



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Summary

- ERPSim is a great tool for...
 - Learning Business Processes
 - And transactions
 - SAP/ERP hands-on Experience
 - Student Engagement
 - Analytics
- Pairs well with Signavio





Thank you.

Bill Cantor

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PennState

Joy Godin



Joy Godin
Professor of
Management Information Systems
Georgia College & State University
J. Whitney Bunting College of Business



ERPsim in Classes, Community Service, and Research

Dr. Joy Godin, Professor of Information Systems

GEORGIA COLLEGE & STATE UNIVERSITY

Topics we will cover...

- GCSU Courses incorporating ERPsim
- ERPsim Games used and how they are used
- ERPsim in Online Classes
- Young Thinker ERPsim Competition
- Virtual Teams and ERPsim
- Pedagogical research including ERPsim



Courses using ERPsim

- Undergraduate Courses
 - Principles of Information Systems
 - Enterprise Resource Planning
 - Enterprise Performance Management
- Graduate Course (Online)
 - Enterprise Resource Planning



Principles of Information Systems

- Card Game
- Business Builder



Available Scenarios



Supply Chain Resilience

Assume the role of Vice President where your mission is to ensure the timely delivery of products to retailers nationwide.



International Expansion

Delve into survey data to evaluate the potential of a company's flagship product to identify promising markets for a new product variant.



Sustainability Portfolio

You must evaluate some investment portfolio in order to find discrepancies between the companies composing the portfolio and the portfolio ESG vision and requirements.



The Agent

Immerses students in the role of a data analysts intern, where they complete a series of data analysis and visualization tasks that mirror the day-to-day activities of an international sports agency.



The Maple Heir

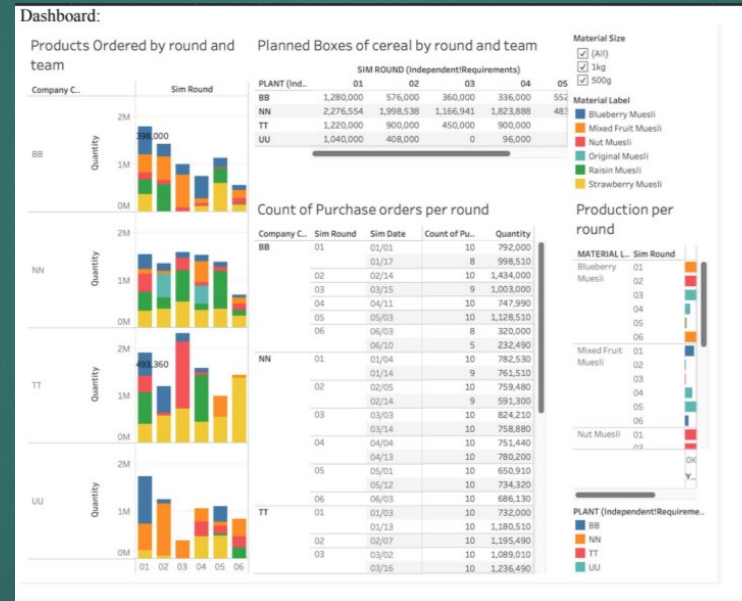
Places students in the role of a new business owner who has inherited a long-standing maple syrup farm in Quebec. With no prior experience, they must quickly familiarize themselves with all key aspects of the business, including operations, sales, and finance.

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Enterprise Performance Management

- Business Builder
- Advanced Manufacturing Game
- Manufacturing Sustainability Game



ERPsim in Online Courses

- ▶ Graduate MMIS (online) Enterprise Resource Planning
- ▶ Undergraduate Enterprise Resource Planning

asynchronous
vs.
synchronous

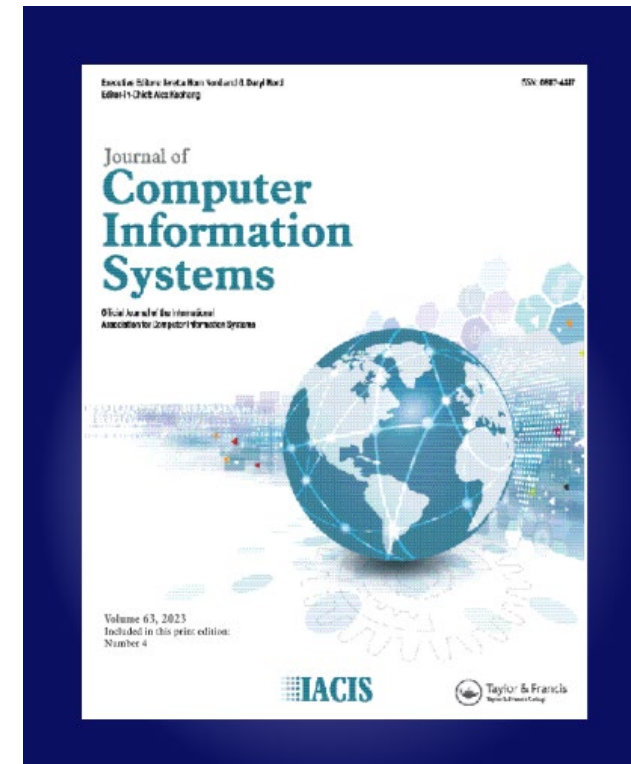
zoom
BREAKOUT ROOMS

Young Thinker EventCommunity Outreach



Publications

Pridmore, J., & Godin, J. (2018).
Investigation of virtual teams and serious
games. *Journal of Computer Information
Systems*, 60(2), 194–200.
<https://doi.org/10.1080/08874417.2018.1443293>



Questions

► Do you have any questions?



Q&A

Experience Sharing

Course Examples

Introduction to Information Technologies

Available at
erpsim.hec.ca/node/165

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

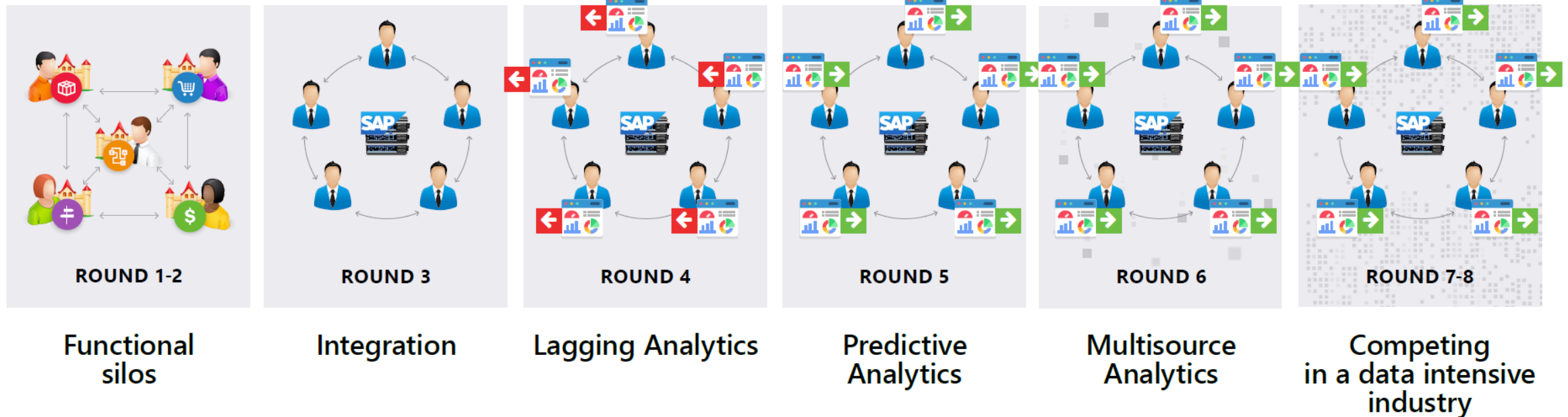
12. Integration - Final Game using the dashboard – ERPsim (4)

Integration

Digital Transformation

Available at
erpsim.hec.ca/node/238

A simulation to experience the leadership challenges faced by managers when digitally transforming an organization



Q&A Toolset

ERPsim Lab User Group Meeting 2025

August 11-13

Hélène-Desmarais Building
HEC Montréal, Canada

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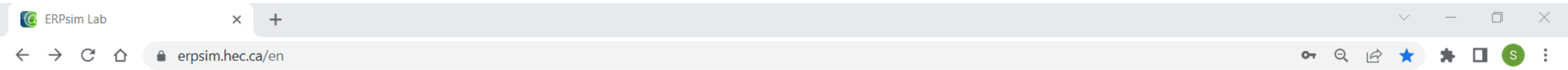
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Leader in serious games solutions to teach and learn enterprise systems and business analytics

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The ERPsim Lab develops **innovative teaching solutions**
by transforming **business software** into **dynamic learning platforms**

Let us help you create memorable classroom experiences.



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Technical support

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