

Transforming Assessment Webinar Series



4 March 2015: 07:00AM GMT

Enhancing student learning outcomes with simulation-based pedagogies

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Your Hosts

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ASSESSING ONLINE BUSINESS SIMULATIONS

www.bizsims.edu.au

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Today's Goals

- Contemplate the major challenges in developing business capabilities
- Explore some of the leading simulations in business
- Discuss how simulation-based pedagogies and assessment can be used to enhance business capabilities



Challenges in Business Education

- Large cohorts
- O How can students develop and practice business capabilities?
 - Reports and essays are limited
 - Business plans and case studies not dynamic / interactive
 - WIL experiences often focused on operational skills
 - Exams and MOOCs largely content-based
- Can we provide large cohorts with a learning experience where students sharpen their managerial skills through regular feedback?

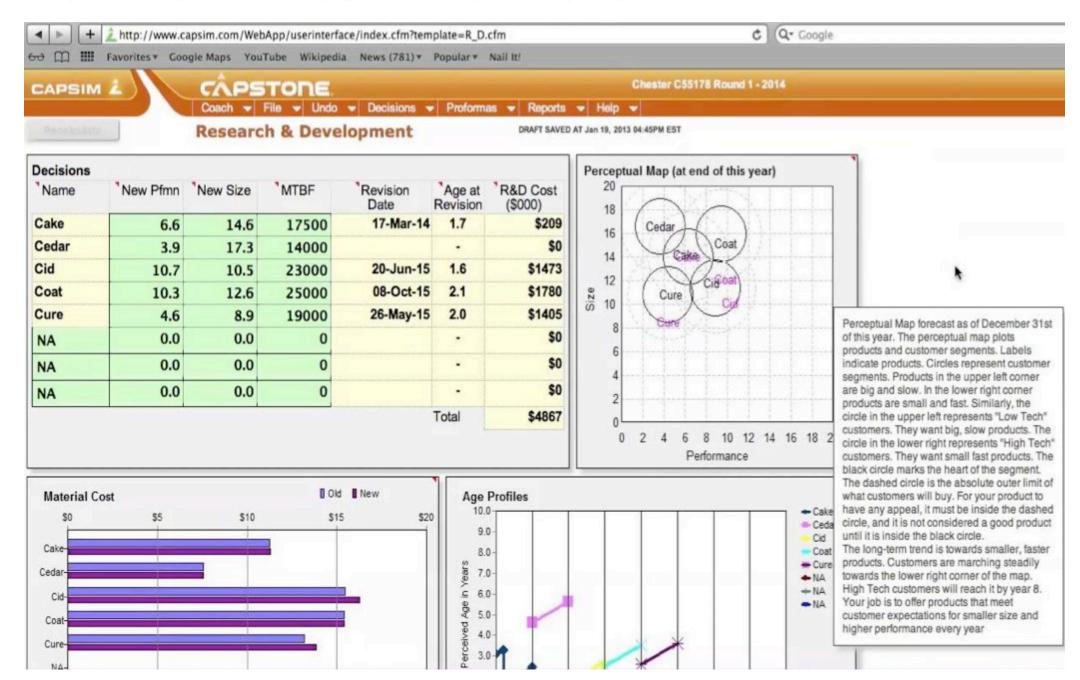


What are Online Business Simulations?

Complex simulations designed to teach strategy, competitive analysis, finance, marketing, HRM, cross-functional alignment, and the selection of tactics to build a successful business.



Online Business Simulations





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Home Report Newsletter Market Research Studies Analysis charts Analysis tools Interface

KEY CHARTS & GRAPHS

Company scorecard Company performance Brand contribution R & D projects Messages

Stock market Company KPI Brand characteristics Brand sales & shares

Benchmarking - Overall
Brand awareness
Brand purchase intentions
Market shares
Distribution coverage
Brand map
Perceptual map
Competitive advertising
Competitive sales forces
Market forecast

(check the menu for additional charts, graphs and tools)

RECENT

Est. ideal characteristics
Ideal value trend
Brand perceptions
Market shares
Shopping habits
Est. ideal characteristics
Semantic vs characteristics
Characteristic estimates

DECISION FORMS

R & D Brand portfolio Marketing mix Sales force Market research

DECISION TOOLS

Check your budget Review your decisions Marketing plan Check your decisions

ONLINE DOCS

Participant's Handbook Participants FAQ's

Close Session

Period:



Market: Sonite





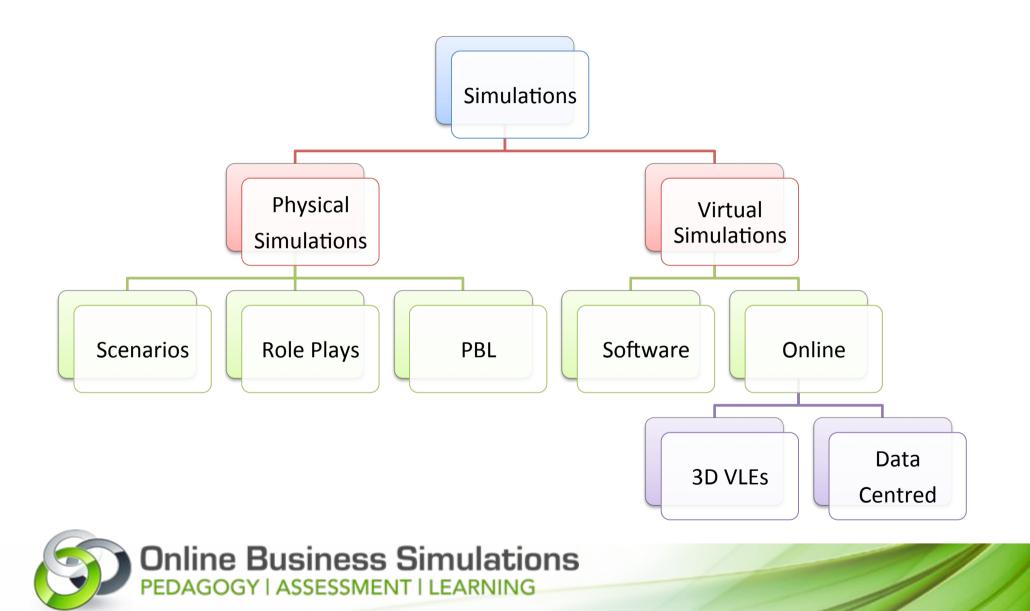
Firm	Brand		Volume	sold	Retail sales				
		Period 6	Period 7	Change	Share	Period 6	Period 7	Change	Share
		U	U	%	%U	K\$	K\$	%	%\$
A	SALT	102,554	120,000	+17.0%	6.2%	55,465	66,536	+20.0%	11.0%
	SAH3	104,088	134,211	+28.9%	7.0%	50,360	64,476	+28.0%	10.7%
	SASI	177,600	264,000	+48.6%	13.7%	50,501	74,947	+48.4%	12.4%
	SATO	102,051	192,000	+88.1%	10.0%	24,369	43,847	+79.9%	7.3%
E	SELF	66,874	21,206	-68.3%	1.1%	35,492	11,448	-67.7%	1.9%
	SEXY	103,200	32,788	-68.2%	1.7%	36,153	11,467	-68.3%	1.9%
I	SIBI	50,119	41,482	-17.2%	2.2%	26,891	22,218	-17.4%	3.7%
	SIFU	300,000	315,527	+5.2%	16.4%	68,463	72,091	+5.3%	12.0%
	SIPS	0	192,000		10.0%	0	47,025	-	7.8%
0	SONO	84,603	91,045	+7.6%	4.7%	44,535	50,106	+12.5%	8.3%
	SOLE	197,342	50,704	-74.3%	2.6%	52,497	13,399	-74.5%	2.2%
	SODA	167,436	264,000	+57.7%	13.7%	39,192	61,336	+56.5%	10.2%
	SOFA	0	40,800	7.0	2.1%	0	19,968	-	3.3%
U	SUSI	60,000	120,000	+100.0%	6.2%	18,762	29,356	+56.5%	4.9%
	SULI	30,000	26,730	-10.9%	1.4%	15,354	9,468	-38.3%	1.6%
	SUKO	35,860	14,442	-59.7%	0.8%	17,356	4,807	-72.3%	0.8%
Total So	onite market	1,684,703	1,920,934	+14.0%	100.0%	563,018	602,495	+7.0%	100.0%

		Discount for 3+ Nights		Discount for no breakfast		Discount for non-cancellable			
Weekday Rooms	\$ 140.00	3	%	5	96	8	%		
Weekend Rooms	\$ 120.00	3	%	5	%	8	%		
		Weekend Discount		Rooms		Revenue Split Food		Conf Rooms.	
Conferences (per person per 24 h)	\$ 99.00	15	96	25	%	25	%	50	%
Groups	\$ 60.00			40	%	60	%		
Events	\$ 45.00	0	%			50	%	50	%





What are Online Simulations?



Authenticity Matrix

(Herrington, Reeves and Oliver, 2010)

Decontextualised

Academic Tasks in Academic Tasks in Real **Academic Settings Settings Academic Setting** Exams | Essays | MOOCs Field Trips | Worksheets **Real Tasks in Academic Real Tasks in Real Settings Settings** Scenarios | PBL | Placements | Service **Simulations** Learning

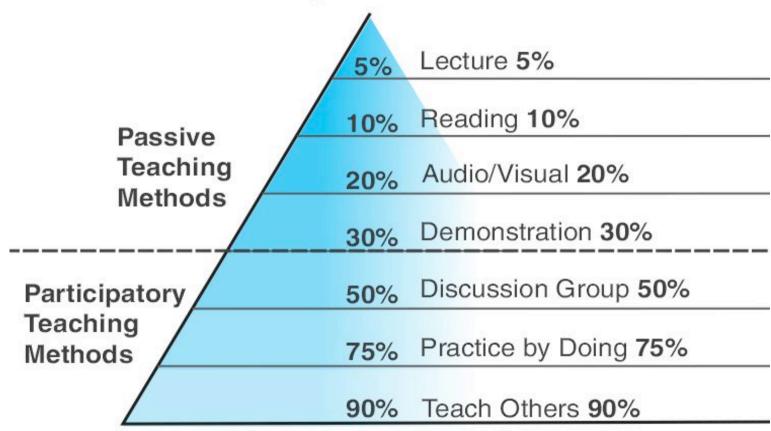
Authentic



Real Setting

Why simulation-based learning?





Adapted from National Training Laboratories. Bethel, Maine



Why simulation-based learning?

(Biggs, 1999; Feinstein, Mann, & Corsun, 2002; Fripp, 1997)



- Applied to many different disciplines
- A technique (not a technology) to amplify real experiences
- Developing skills in a safe and riskfree environment
- Make errors that do not have real repercussions
- Encourage collaborative learning



Why business simulations?



- Integrate the various elements of running a business
- Experiential/active learning environments that mirror real world problems
- Opportunity for manageable large class capstone learning experience
- Authentic and dynamic teambased learning experiences
- Develop employability skills



Why online business simulations?

(Adobor & Daneshfar, 2006; Bowness, 2004)



- Apply critical thinking and decision making in a non-linear environment
- Decisions/actions lead to complex and unexpected outcomes
- Develop graduate capabilities and strategic decision making skills
- Continuous feedback to help students understand the outcomes of decisions
- Technology enabled learning available any time, any where



What do students say about bizsims?



- The best aspects of using simulation is that it is close to a real life scenario, but at the same time it allows us to make mistakes
- I think it's definitely better than any other course at the uni, because it's practical and you really make something happen and it's not only about theory
- Sometimes we had arguments but in the end we used the data to prove which decision was better



What do students say about bizsims?



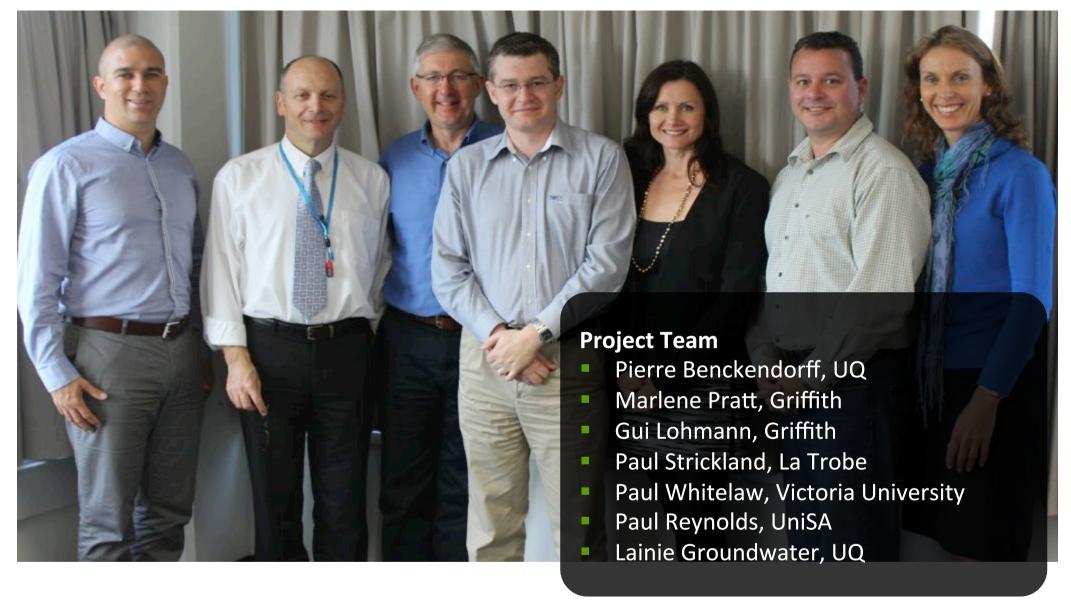
- We really had to work closely together because every decision made by each group member could affect our performance
- Due to the fast pace of the simulation we really develop problem solving skills that help us to make decisions quickly

Project Aims



- Map the features of online simulations.
- Evaluate the contribution of simulation-based pedagogies to student learning outcomes.
- Identify and promote innovative pedagogies and resources for using online simulations as learning tools.
- Assess the challenges associated with the integration of simulations into sustainable teaching practice.







Project Resources



- Simulations Audit
- Simulation Learning Barometer
- Case Studies
- Good Practice Guide
- O Website www.bizsims.edu.au
- National Workshops















Home Cases Simulations Learning Barometer Resources About

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Home

AIRLINE Online Business Simulation

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Key Features

- Simulator: AIRLINE Online Simulation
- · Students: Postgraduate coursework, internal and external students
- Class Size: 20-40
- Assessment: Business proposal, annual report, reflective blog, business performance (see percentages for each institution below)
- Pedagogy: UQ Flipped classroom (40 x 10-20 minute video lectures, 13 x 2 hour workshops);
 GU Intensive delivery of lectures followed by simulation (7 x 3-hour workshops, 50 hours of simulation work).

Background

This case covers the use of the AIRLINE Online simulation using a similar pedagogic approach and assessment regime across two Queensland universities. At the University of Queensland the simulation has been used since 2011 in a masters unit. The simulation is also being used by a postgraduate unit at Griffith University, however most of the case relates to Dr. Lohmann's use of the simulation with undergraduate students at Southern Cross University. Owned by a company called Simulate, AIRLINE Online:





Resources

- Unit Syllabus (UQ)
- Unit Syllabus (GU)
- Business Proposal Guidelines
- Business Proposal Rubric
- Annual Report Guidelines
- Annual Report Rubric
- Reflective Blog Guidelines

Do you use simulations at your institution?

Why? Why not?



Tips for using Simulation Pedagogies

- Map out expectations (time, team roles, instructor as a 'guide on the side')
- Give students time to learn from trial and error, trials or practice rounds
- Provide support (e.g. videos, demos, manuals, flow charts)
- Encourage collaboration (e.g. facebook, skype, wikis)
- Align learning outcomes
- Use complementary pedagogies (e.g. field trips, industry speakers, mentors, cases)
- Link curriculum to events in the simulation, use class time for debriefs
- Assess learning (not time or effort spent on the simulation)
- Aim for authentic learning and assessment (Herrington et al. 2010)



Authentic online learning environments

(Herrington, Reeves and Oliver, 2010)

- 1. Authentic context
- 2. Authentic tasks and activities
- 3. Expert performances
- 4. Multiple roles and perspectives
- 5. Collaborative construction of knowledge
- 6. Reflection
- 7. Articulation and presentation
- 8. Coaching and scaffolding
- 9. Authentic assessment



Design an authentic assessment task to complement an online simulation



Assessment

Assessment aligned with learning outcomes and simulation tasks

- Team interaction (e.g. peer evaluation, PBL/case, wikis)
- Reports and presentations
 - Proposals or plans
 - Company performance
 - Competitor analysis
- Reflective assessment
- Performance metrics?





Some challenges...

For Educators

- Commercial packages require additional funding
- Steep initial learning curve

For Students

- Time is compressed
- Some variables cannot be simulated
- Students become too engaged
- Not a solution for all team work problems









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Session Feedback Survey

With thanks from your hosts

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Dr Mathew Hillier, Institute Teaching and Learning Innovation, University of Queensland mathew.hillier[at]uq.edu.au

Recording available

http://transformingassessment.com

