

Conference 2017





Marianne Schroeder Associate Director, Teaching & Learning Technologies, University of British Columbia



Maureen Wideman
Director of Teaching
& Learning, University
of the Fraser Valley



Clint Lalonde Manager, Education Technology, BCcampus

Next Generation Digital Learning Environments (NGDLE)

From Monolithic to Disaggregation











EDUCAUSE | LEARNING

The Next Generation Digital Learning Environment

A Report on Research

Malcolm Brown, EDUCAUSE Learning Initiative

Joanne Dehoney, EDUCAUSE

Nancy Millichap, Next Generation Learning Challenges

ELI Paper April 2015

Abstract

In partnership with the Bill & Melinda Gates Foundation, EDUCAUSE explored the gaps between current learning management tools and a digital learning environment that could meet the changing needs of higher education. Consultations with more than 70 community thought leaders brought into relief the contours of a next generation digital learning environment (NGDLE). Its principal functional domains are interoperability; personalization; analytics, advising, and learning assessment; collaboration; and accessibility and universal

"What is clear is that the LMS has been highly successful in enabling the administration of learning but less so in enabling learning itself."



https://net.educause.edu/ir/library/pdf/eli3035.pd

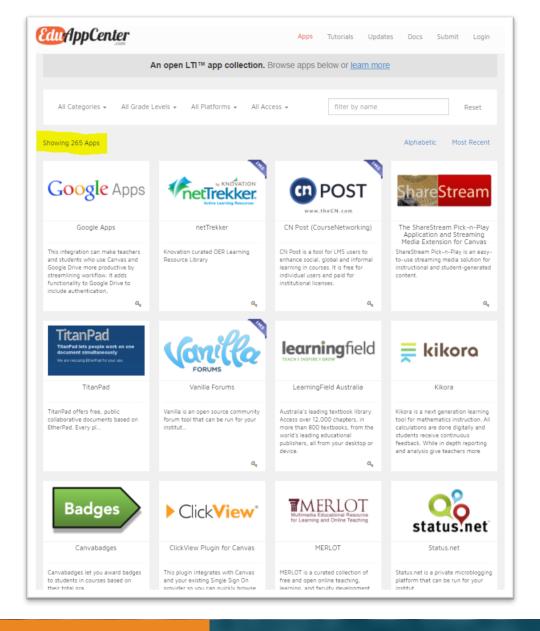


NGDLE is the idea that the next generation of learning tools isn't the single monolithic LMS, but rather a series of applications connected together using different sets of emerging and established learning tool standards.

NGDLE Core Functionality











About ~

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FEBRUARY 16, 2006 BY D'ARCY NORMAN

Clarification on EduGlu

It's awesome that people are talking about, and referencing, and critiquing EduGlu. Keep the conversations going! I do need to clarify a couple of things about it, though...

EduGlu is not mine. It wasn't my idea. It isn't my project. The concept is a
logical/natural extension of lots of other interesting projects in the area (and may be
better implemented directly in any one of those, rather than building something new).
 This incarnation of the concept(s) grew out of a series of great discussions over a few

Search ...



RECENT COMMENTS

D'Arcy Norman on Lessons learned: AV systems design in the Taylor Institute

Jon K. on Lessons learned:

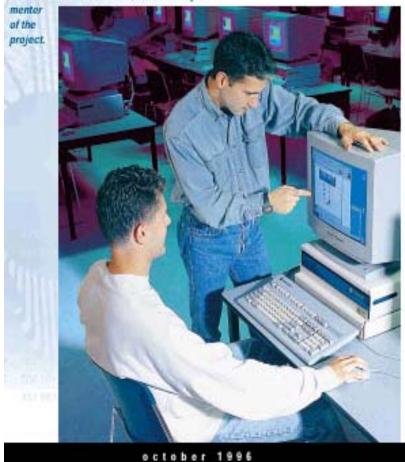
- Are you noticing this shift at your institution? If so, how does it manifest itself?
- How does this view of the LMS match the wider technology landscape?
- How do you support faculty requests for greater pedagogical flexibility?
- Is your current LMS meeting your needs? Will it meet your future needs?
- What challenges and opportunities do you see with this view of learning technologies?





1996

Murray Goldberg (standing) discusses Web-CT with Sasan Salari, the main imple-



WORLD WIDE WEB COURSE TOOLS
Шерст

WebCT is a tool that facilitates the creation of sophisticated World Wide Web-based educational environments by non-technical users. It can be used to create entire on-line courses, or to simply publish materials that supplement existing courses.





Try Out
WebCT Now!

Documentation





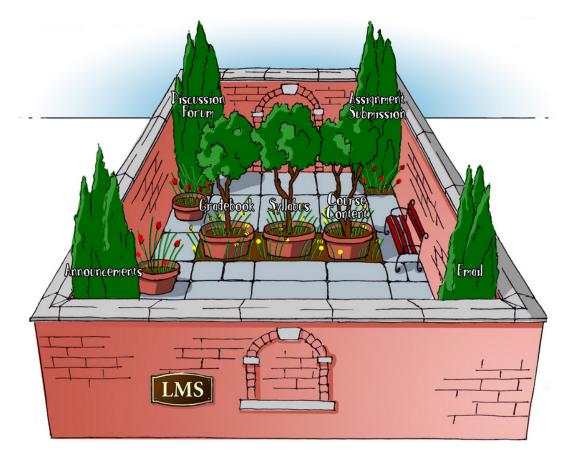






WebCT not only produces courses for the WWW, but also uses WWW browsers as the interface for the course-building environment. Aside from facilitating the organization of course material on the web, WebCT also provides a wide variety of tools and features that can be added to a course. Examples of tools include a conferencing system, on-line chat, student progress tracking, group project organization, student self-evaluation, grade maintenance and distribution, access control, navigation tools, auto-marked quizzes, electronic mail, automatic index generation, course calendar, student homepages, course content searches and much more.

WebCT is an easy-to-use environment for creating sophisticated WWW-based courses that are otherwise beyond the ability of the non computer programmer.







http://mfeldstein.com/opening-lms-walled-garden/

Fall 2013: Significant Performance issues



2014-15: ECAR Survey

& Consultation

What faculty said:

- 50% agree that they would be more effective if they were better skilled at integrating the LMS in their courses
- 80% use the LMS
- 44% believe it is critical to teaching
- 48% believe it enhances student learning

But...

18% satisfied overall

15% satisfied with ease of use

on par with Windows 1998 usability

the ham handed interface is like trying to eat dinner while wearing hockey goalie equipment.



Vision: Ecosystem

An Ecosystem that empowers faculty and students to achieve their teaching and learning goals by providing robust, dynamic and pedagogically sound tools and services that are time-efficient to learn and use.

Learning Ecosystem

Current use is widespread (about 200 million log-ins from September through April)

Top tools used in LMS:

- Content

- Discussions

- Announcements

Assessment

- Communication

Learning Technology Functional Map

CONTENT Content Authoring Content Delivery Publisher Simulations Adobe Creative Suite Arts File Share Google Cardboard MediaSite (*) SourceTree Collaborative Learning (*) Articulate Studio Microsoft Excel Kaltura (*) SugarSyn c Congage (Lrn [*] Layer Annotation System (CLAS) Connect (Content USC Blogs (WordPress) (*) Articulate Storyline 2 Microsoft PowerPoint LearnDash (WordPress) (*) Cengage (PIC) (*) Mannequin Simulations Management) (*) **Ubrary Online Course** Audacity Office Mix Document Cameras UBC (Tunes (*)) Macrollan (PIC) (*) Motion Control Reserves (LOCR) (*) Camtasia (*) One button Studio (*) McGraw-HII (PIC) (*) Drop Box UBC WILL (*) NepReality Modern Digital Image Final Cut Pro Drupal (*) UBC YouTube (*) Pearson (PIC) (*) Phot Simulations Panopto Database (MDID) Hot Potatoes Pregi Moodle (*) Sapling Learning [PIC) (*) Dispace Jing edX (*) Omeka Vitalsource Wiley (PIC) [*] Snagt Keynote Timeline & Entrada: Owncloud WebAssign VideoScribe (*) Evernote Wikipedia Perusali Zoomify Exam Prop Database (*) Piarza (*) **Portfolios** Workspace (*) Chalk and Wire Livescribe Explain Everything Plone Connect [ePortfolio] (*) **Podcasts** Zimbra Google Docs HTMLS Flash Cards Respondus Studymate (*) UBC Blogs (WordPress) (*)

dagitive Comparative idjessment [ACI] (*) Mechanical TA Calibrated Peer Review (CPR) (*) Modile (*) Crossdmart Perguse Rins (*) Dien Badges UBC (*) PeerScholar PeerScholar PeerWise (*) Scantoon Scantoon Turnitio (*) Webwerk (*) Webwerk (*) Webwerk (*)	Assessment		Peer Based
engage ILra (*) Open Badges UBC (*) PeerScholar PeerScholar PeerScholar PeerScholar PeerWise *) Scartison Scartison Turnitin (*) WebAnign WebAnign		MechanicalTA	
primect (Basta) (*) Pearson MyTest PeerScholar primect (Assignments) (*) Scarston Scarston Turnitin (*) sarsDash (WordPress) (*) WishAssign	uto Multigle Choice (AMC)	Moodle (*)	Cross dreserk
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comSoft Scaniton Turnitin (*) manDash (WordPress) (*) WebAssign	primect (Texts) (*)	Pearson MyTest	PeerScholar
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Webwork (*)	sarnDash (WordPress) (*)	WebAssign	
		Webwork (*)	

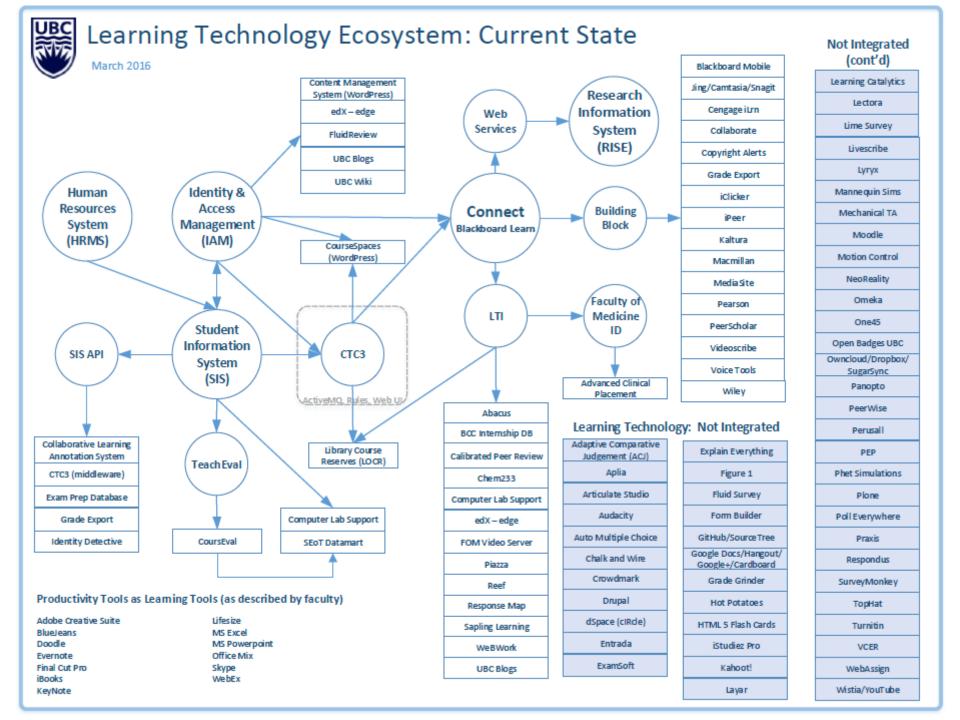
INTERACTIONS

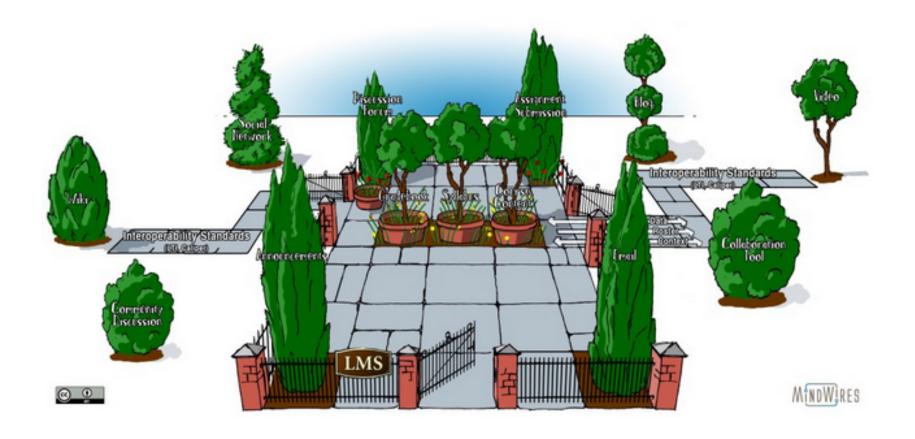
Discussion	Survey Tool	Social Media	Video Conference
86 Collaborate Voice Tools (*)	Connect (Enterprise Surveys) (*)	Facebook	Adobe Connect
Connect (Discussions) (*)	Connect (Surveys) (*)	Figure 1	8b Collaborate Web Conf. (*)
Pizzza (*)	RuidSurveys (*)	Google+	Blueleurs *
Pulse Press (*)	Gravity Forms (WordPress)	Linkedin	Google Hangouts
Stack	LimeSurvey	Tuitter	Uterine
UBC Blogs (WordPress) (*)	Qualitics.	Response System	Skype
	Survey Monkey	(Clicker (*)	Claco TelePresence [MedIT]
		Kahooti.	WebEs
		Learning Catalytics	
		Poll Everywhere	
Bold = Integrated Tool		REEF polling (*)	
(*) = Supported by LT Hub		Top Hat	

COURSE MANAGEMENT & EVALUATION

Analytics	Course Evaluation	Course Admin	Other
Arts Datamart	8b Outcomes Assessment (*)	Connect (Grade Center) (*)	3D printing
8b Outcomes Assessment (*)	Countival (*)	Doodle	Entrada
Connect (Performance Center) (*)	SEpT Datamart (*)	Google Calendar	Google Earth
Google Analytics	TeachEval (*)	Grade Grinder	Studies Pro
IDM SPSS		LeurnDash (WordPress) (*)	OSCAR
JMP		Moodle (*)	SCORM (*)
Microsoft Excel		OnedS	
SEOT Datament (*)		Berrurk	
Stata		Turnitin (*)	
Tableou		UBC Blogs (WordPress) (*)	
sAPI / Learning Record Store (LRS)		WebAssign	
			April 5, 201

ADDEDDD SENIT





http://mfeldstein.com/opening-lms-walled-garden/

Future state: core functionality

Includes:

- Ability to store and provision access to content
- Tools for communication within a course, between instructor and students and between students
- Tools for assessment and grade management
- Framework for integrating 3rd party tools

How do we ensure that the LTE is agile, supportive of teaching innovation and still ensure students have a cohesive experience?





Technology changes how we do things

For many faculty, they have to change how they teach to fit the technology

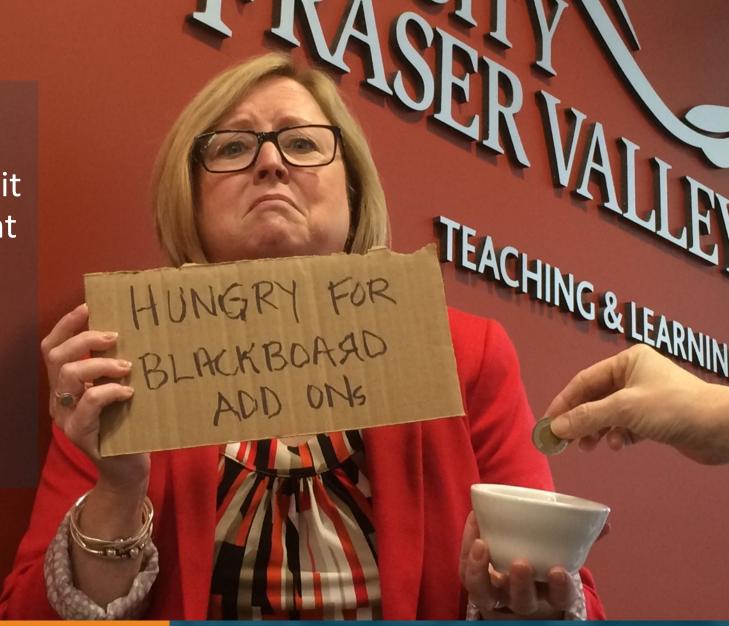




BCKT Conference 2017

When Blackboard is not available, it is inconvenient

Add-ons are addictive and expensive











The "internet of things" should apply to the LMS Systems across the university should talk to each other - develop a "Fitbit for learning"

BCNET Conference 2017

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