

Minnesota eLearning Summit

2016

Jul 27th, 9:00 AM - Jul 26th, 10:00 AM

Higher Education in the New Digital Ecosystem

Randy Bass Georgetown University

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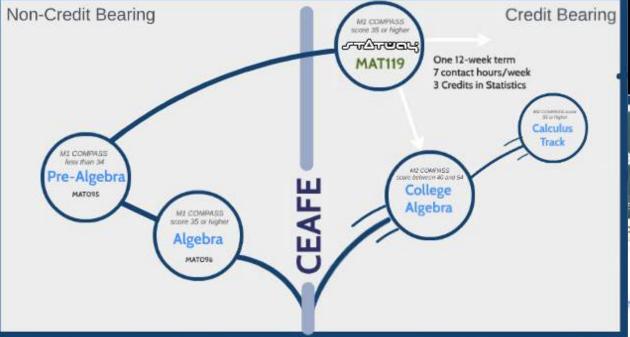


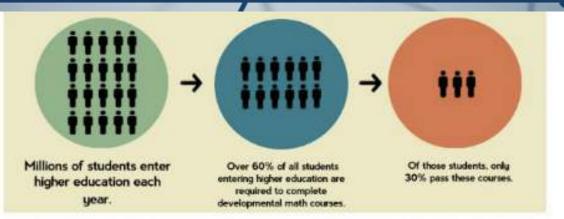
2030

"The future is already here — it's just not evenly distributed."

William Gibson

MAT 119: ✓▼△▼ບດບ; @ LaGuardia





Over 60 percent of all students entering community colleges in the United States are required to complete developmental courses and a staggering 70 percent of these students never complete the required mathematics courses, blocking their way to higher education credentials and with them, a wide array of technical and related careers. Traditionally, only 5 percent of students earn college math credit within a year of continuous enrollment. In its first two years, over 50% students enrolled Carnegie's Pathways have achieved college math credit within a year.



Developmental Math

- Instructional System
- Contact Information
- Pathways Resources

Reports & Findings



Year 2 Results

Community College Pathways: 2012-2013 Descriptive Report December, 2013

Spotligh

The Carnegie Foundation and NERCHE Announce National Advisory Panel Membership

Carnegie Workshops: Tools to Tackle Tough Problems in Education

View Spotlight Archive



StatWay implemented at LaGuardia CC

Dev. Math + College-level Stats (complex problems, such as Food Justice and Climate Change)

MAT119 - 27 ATCOMES

Spring 2014

8h/w (6 lecture hours + Complete Math Requ

Revised their institutionwide core competencies:

"We are giving them a bridge to successfully finish their degree through contextualized math content and exposure to psychological interventions that improve their attitudes towards math and learning."

- Inquiry
- Global Learning
- Integration

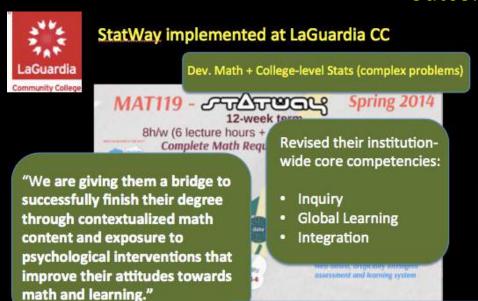
Web-based, artificially intelligent assessment and learning system

Milena Cuellar, **Statway in one term**National Forum Pathways Program. Carnegie Foundation. SF 2014

What is this case a case of?

Data analytics > adaptive learning

Alignment with ambitious larger outcomes



Focused on inquiry and integration, not merely skills and completion

Milena Cuellar, Statway in one te National Forum Pathways Program

As much about

the affective as

cognitive

"REBUNDLING"

Three ways to reframe the conversation

Shift from digital tools to learning ecosystem.

Shift from unbundling to rebundling.

In a rebundled higher education, the concept of the <u>whole person</u> is key.

Open and Integrative Designing Liberal Education for the New Digital Ecosystem BY RANDY BASS AND BRET EYNON

With Bret Eynon, LaGuardia Community College



The Design Question

If we were designing higher education for this moment in history what would it look like?

From Disruption to Design

If we were designing higher education for this moment in history what would it look like?

Design for the big things first.





Crisis in public funding

Skyrocketing Tuition and Student Debt

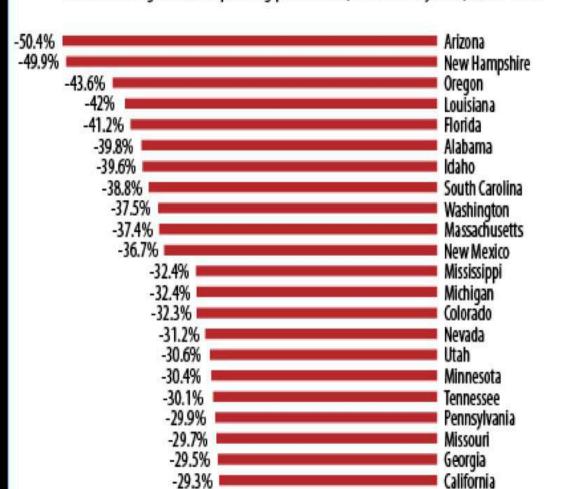
New Narrative:
Higher Ed is
"Broken"

A Truly Devastating Graph on State Higher Education Spending

Some states have slashed per-student spending by as much as half.

States Have Cut Higher Education Funding Deeplyin Recent Years

Percent change in state spending per student, inflation adjusted, FY08 - FY13



Public Accountability

Keeping Score: New Iteration and Limitations of the College Scorecard

Posted: 10/07/2015 10:46 am EDT Updated: 10/07/2015 10:59 am EDT



Return on Investment

Completion

Employability

Learning?

Competing Visions & Definitions of the Purpose of Higher Education

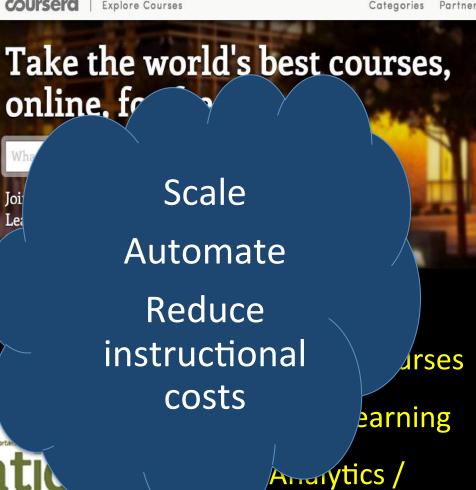
Changing Student Demographics: An Emerging New Majority





The Onrushing Digital Revolution

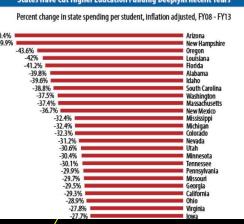








ptive Learning



Public Funding

External Forces of Potential Disruption

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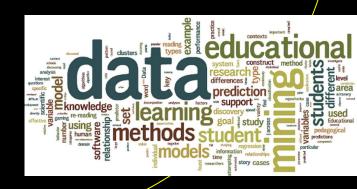
online, for free.

Learn from 374 courses, from our 70 partners.



Skill-based Learning Open Online Courses

Data Analytics / **Adaptive Learning**



Keeping Score: New Iteration and Limitations of the College Scorecard



Accountability



Expanded access



AMERICAN

HIGHER EDU IN CRISI!

WHAT EVERYONE NEED

GOLDIE BLUMEN

COLLEGE DISRUPTED

The End o College

Internation (Section)

Creating the Futu and the University

KEVIN

"Collage (California is a most read for exception interested in higher cities are no and have to book pay will provide to the the coming terror. ACRECION THEIR Sender of Marke

COLLEGE

(IIN) ROUND

UCATION TUDENTS



"Unbundling = Equity"

THE GREAT UNBUNDLING HIGHER EDUCATION

RYAN CRAIG

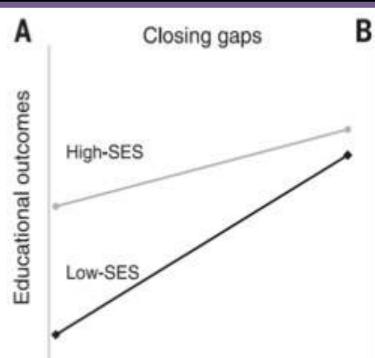


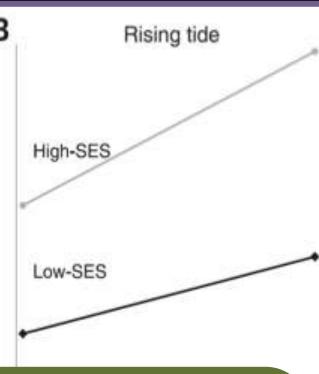
JEFFREY J. SELINGO

Educe at Large, Chronicle of Higher Education

Technology, Integration, Learning & Success







CUNY's ASAP program

The power of "high touch" guided pathways for new majority students

Gallup-Purdue

Vital role of mentorship, signature work, high impact practices in life-long engagement and thriving.

Purdue-Gallop Poll on Engaged Work and Flourishing



Two most important predictors of success:

1) Adult mentor who

cared about you

Life in College Matters for Life After College

New Gallup-Purdue study looks at links among college, work, and well-being

by Julie Ray and Stephanie Kafka







2) Sustained project

WASHINGTON, D.C. -- When it comes to being engaged at work and experiencing high well-being after graduation, a new Gallup-Purdue University study of college graduates shows that the type of institution they attended matters less than what they experienced there. Yet, just 3% of all the graduates studied had the types of experiences in college that Gallup finds strongly relate to great jobs and great lives afterward.

Purdue-Gallop Poll on Engaged Work and Flourishing



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64% I had a professor who made me excited about learning.

27% Professor cared about me as a person.

22% A mentor who encouraged my goals and dreams.

14% had all three

Purdue-Gallop Poll on Engaged Work and Flourishing



Life in College Matters for Life After College

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%6 of all graduates

32% A long term project that took a semester or more to complete.

30% Internship or job where applied learning.

20% Extremely involved in extracurricular activities or organizations.

Three ways to reframe the conversation

Shift from digital tools to learning ecosystem.

Shift from unbundling to rebundling.

In a rebundled higher education, the concept of the <u>whole person</u> is key.



Formation by Design

Project Progress Report 2014-2015

DESIGNING THE FUTURE(s) of the university

https://futures.georgetown.edu/formation



"whole person"





Educating the whole person?



affective, imaginative and reflective capacities.



The great tension of our time in education is between integration and dis-integration

of Networks

Digital Ecosystem

and open resources

Data & Algorithms

Participatory
Social
Creative

Disintegrative (unbundled):

Design of discrete or granular learning experiences

Elementary and discrete competency-based learning

Learning decoupled from formal boundaries

Analytics that track narrow or micro learning

Integrative (bundled, holistic, coherent):

Curricular & co-curricular conceived as part of a whole

Knowledge, skills & dispositions

Connections & integration

Design of learning experiences for whole person development

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Rebundling: Toward a New Synthesis

Disintegrative (unbundled):

Design of discrete or granular learning experiences

Cur

Integrative (bundled, holistic, coherent):

Curricular & cocurricular conceived as part of a whole

Elementar competent

Learning d formal

If we were designing higher education for this moment in history what would it look like?

Analytics the or micro learning

person development

Disintegrative in service to the integrative

Design Principles: a Vision worth Working Toward

Learner-centered

Networked

Integrative

Adaptive

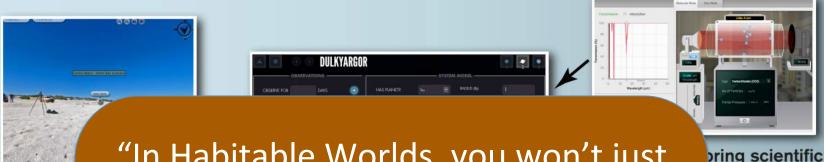
Design Principles for a Rebundled Institution

Learner-centered

Do your learning environments support engagement in the context of empowerment and ownership of learning?

Engagement and inquiry at scale.

Habitable Worlds – Online Course at Arizona State University



Virtual F allow exp exotic se science a "In Habitable Worlds, you won't just learn a bunch of facts. You'll have to learn how to think like a scientist, confronting what we don't know, learning how to use logic and reason to cope with uncertainty...."

Prof. Ariel Anbar

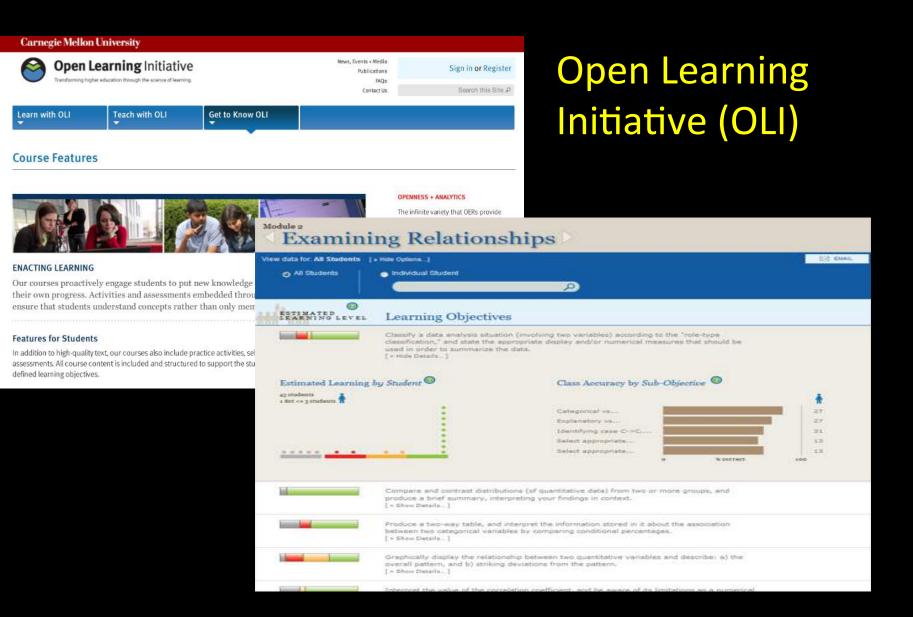
Developers:

Professor Ariel Anbar: anbar@asu.edu Dr. Lev Horodyskyj: LevH@asu.edu

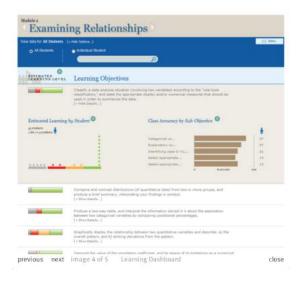
http://www.habworlds.org

design, structure, and analyze "smart" lessons

Developed jointly with ASU Online, Mary Lou Fulton Teacher's College, College of Liberal Arts and Sciences, and the NASA Astrobiology Institute.



Intelligent tutors



Reinventing Introduction to Statistics



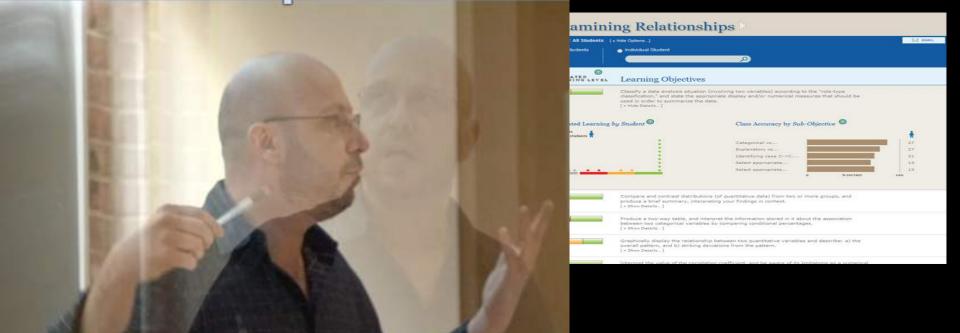
15-week Traditional Statistics Course

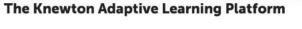
8-9 weeks with OLI materials + Professor

Remaining 5-6 weeks

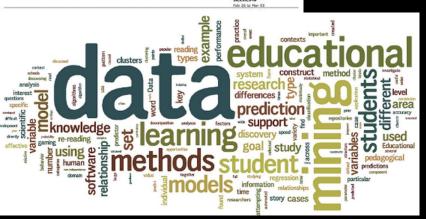
Applied projects on student Interests

Advanced topics and problem-solving









Machine/Algorithm

+

Human Judgment

Design Principles for a Rebundled Institution

Learner-centered

Do your learning environments support engagement in the context of empowerment and ownership of learning?

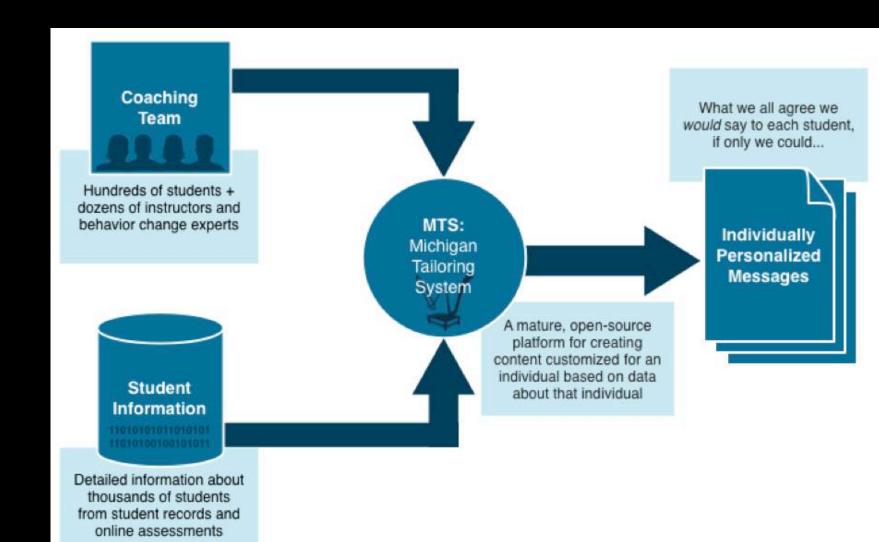
<u>Engagement and Inquiry at scale.</u>

Networked

Do your systems and practices maximize community, social learning, and a broad concept of mentorship?



Community & Mentorship



Century America Campus, Community, and the Great War

HOME ABOUT TIMELINE CREDITS



How's your research going? And what do you think of the 1st Century America Sites?

Project Contracts - 2015

Tech How-To

Project Contracts 2014

Use the comment section here to talk about what you've found so far, or to pose questions about your sources, or just to share what you're working on.



Greenlar



Design Principles for a Rebundled Institution

Learner-centered

Do your learning environments support engagement in the context of empowerment and ownership of learning?

Networked

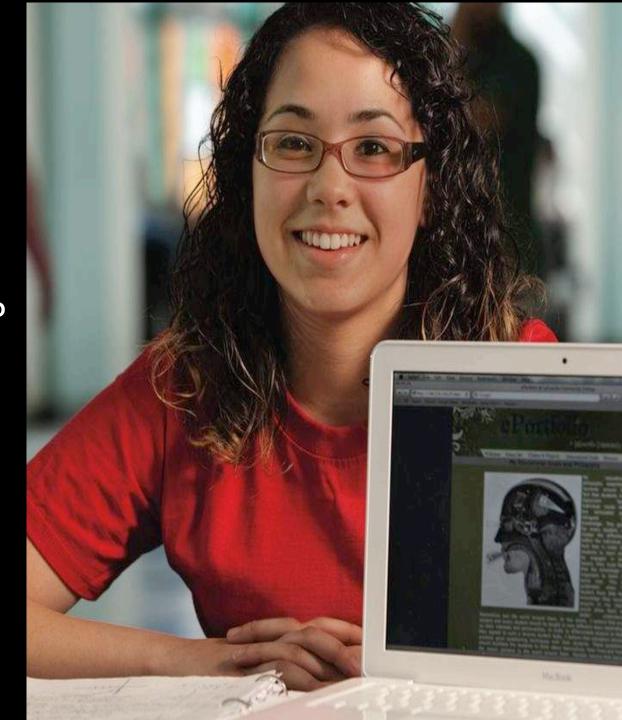
Do your systems and practices maximize community, social learning, and a broad concept of mentorship?

Integrative

Are your systems and practices serving to maximize connections and coherence?

How can we help students put their signature work in a larger and more integrative context?

ePortfolio as a vital, longitudinal and integrative learning process





Home

Overview

The Catalyst

Partner

About C2L

Pedagogy

Professional Development

Outcomes Assessment

Technology

Scaling Up

Why ePortfolio?

The Catalyst Framework

Inquiry, Reflection, and Integration



Site Overview

Catalyst for Learning offers resources and analysis that spotlight the effective use of ePortfolio to advance student, faculty, and institutional learning. Drawing on the work of skilled leadership teams on 24 diverse campuses, Catalyst makes the case for ePortfolio with a distinctive collection of linked model practices, data on impact, and original research on

The C2L Hypothesis



Search this website...

SEARCH

Campus Stories & Profiles

- Outcomes Assessment Stories
- · Professional Development Stories
- Scaling Up Stories
- Technology Stories
- Campus Profiles

What Difference does ePortfolio Make? C2L evidence supports 3 preliminary claims

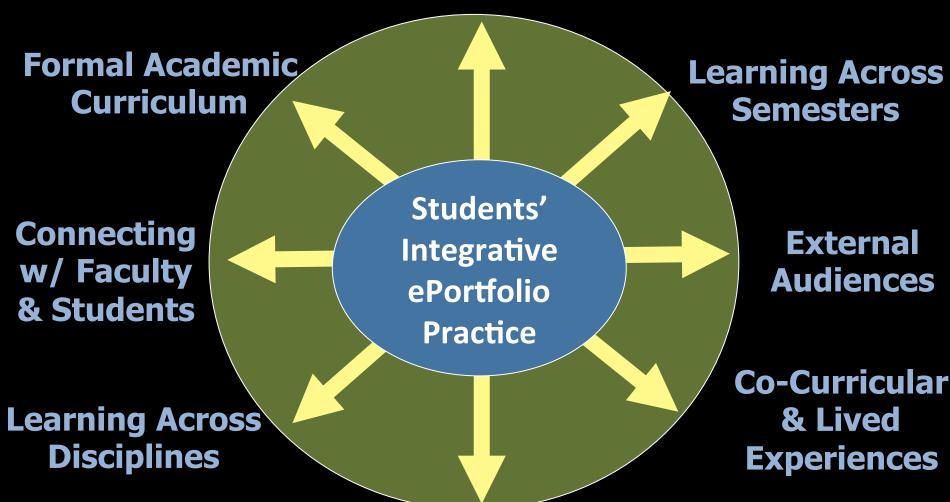
Sophisticated ePortfolio initiatives:

- 1. Advance Student Learning & Success
- 2. Make Student Learning Visible
- 3. Catalyze Institutional Change

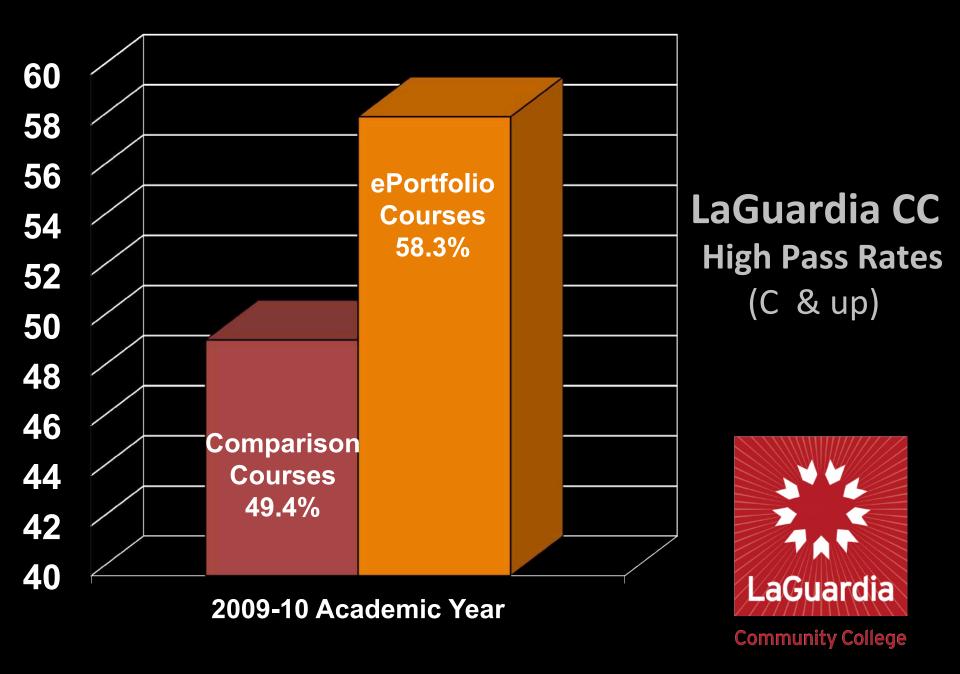


Addressing the Whole Student

Purposeful Self-Authorship



Advisement & Academic Planning



San Francisco State University



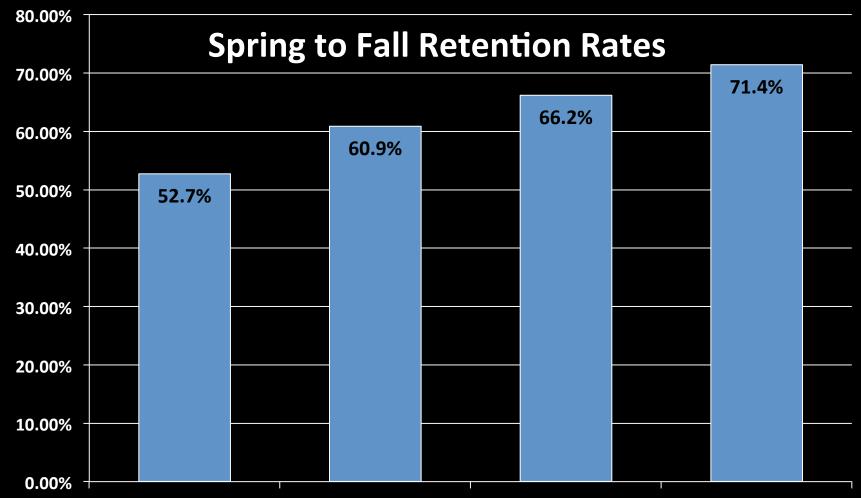




ePortfolio integrated into Metro Health Academies, an SFSU learning community project for high-risk students

	Metro Academy, First Year/First Time Students	All SFSU First Year/ First Time Students
1 Yr Retention Rate	90.0%	79.3%
3 Yr Retention Rate	79.0%	60.0%
4 Yr Grad'n Rate	24.6%	14.9%





No ePortfolio Courses 1 ePortfolio Courses 2 ePortfolio Courses 3 ePortfolio Courses



Home

Evidence

ramework

Partners

About Connect to Learning

Pedagogy

Professional Development

Outcomes Assessment

Technolog

Scaling U

IUPUI – Reflection in the First Year: A Foundation for Identity and Meaning Making

Updated as of 1/16/14

The electronic Personal Development Plan (ePDP) is scaffolded into the curriculum of the first-ye seminar at IUPUI so as to allow students to build a solid foundation for meaningful college experiences. The seven sections of the portfolio lead students through guided reflection prompts that ask them to consider who they are, why they are in college, and how the college experience support and enhance their future goals. This initial portfolio is intended to be updated throughout college experience so that the student is engaged in recursive planning, documenting, and reflect on their personal and intellectual growth throughout college.

Click here for the full practice in IUPUI's Campus Project ePortfolio

ePortfolios for the new ecology

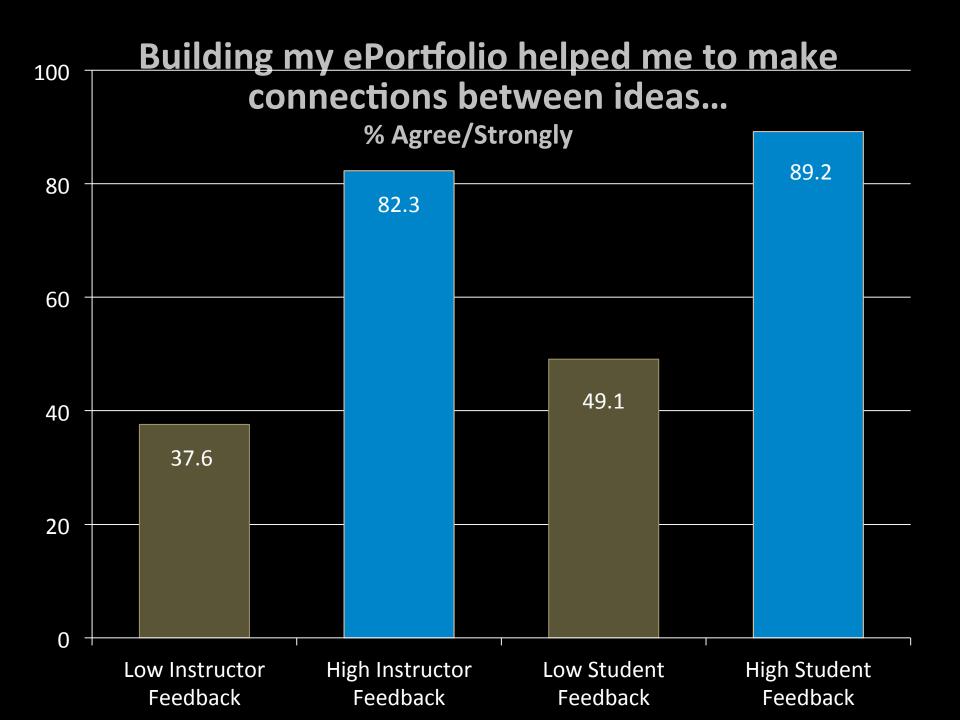


Doing Things
Differently: Scaling Up
at Guttman Community
College



Guttman Community College opened its doors to its inaugural class of students in August 2012, with ePortfolio as the centerpiece for student and institutional learning.

Building my ePortfolio	Agree/ Strongly Agree
Helped me make connections between ideas	75.6%
Helped me think more deeply about course content	64.4%
Allowed me to be more aware of my growth & development as a learner	69.3%
My (ePortfolio-enhanced) course engaged me in	Quite a Bit/ Very Much
Synthesizing & organizing ideas, information or experiences in new ways	83.1%
CAPCITICITIC VV	
Applying theories or concepts to practical problems or in new situations	77.2%



Design Principles for a Rebundled Institution

Learner-centered

Do your learning environments support engagement in the context of empowerment and ownership of learning?

Networked

Do your systems and practices maximize community, social learning, and a broad concept of mentorship?

Integrative

Are your systems and practices serving to maximize connections and coherence? Connect what has typically not been connected.

Adaptive

Are your systems and practices supporting the critical capacities of institutions for improvement and agile innovation?



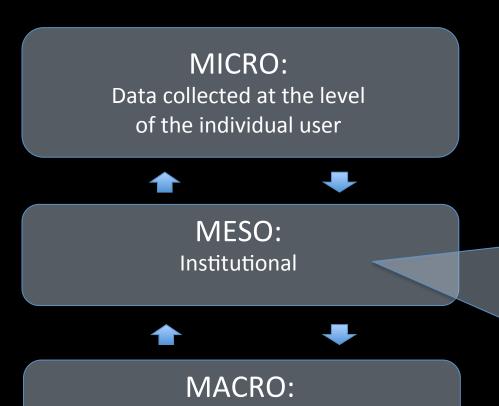
Assessment FOR
Student, Faculty &
Institutional Learning

Ground assessment in the authentic work of faculty & students.

Digital systems can help to make student learning visible



Towards an Integrative Assessment and Analytics



Systems, regions,

collaborations

Student level (empowerment)

Faculty & Designers (interpretive)

Institutional (empirical)

Ruth Deakin Crick and Simon Buckingham Shum

Design Principles: a Vision worth Working Toward

Learner-centered

Engagement at scale & Empowerment

Networked

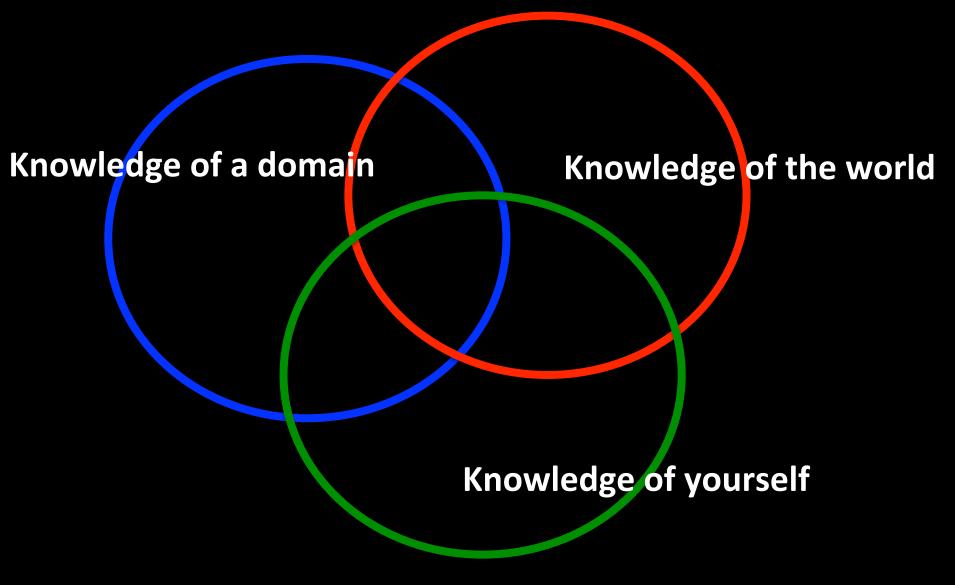
Community, social learning and mentorship

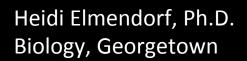
Integrative

Integration from the inside out Connect what has not been connected

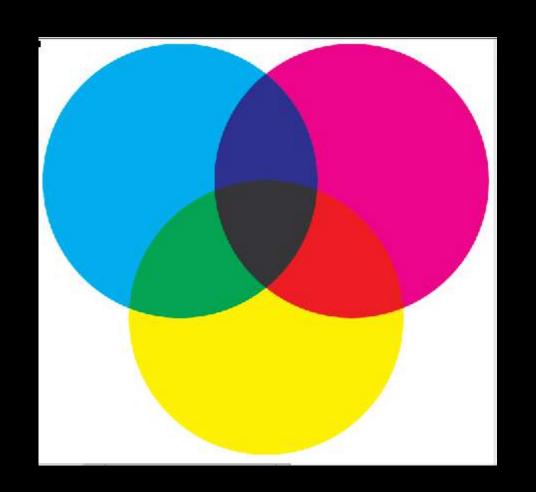
Adaptive

Institutional learning

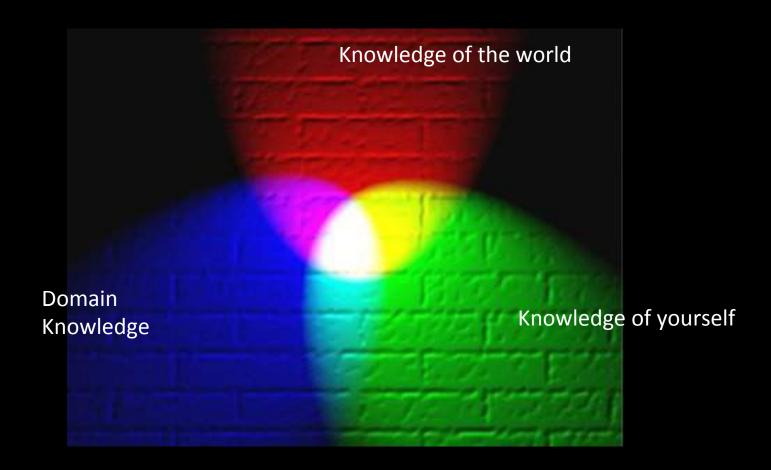








Signature paradigm for high-impact learning?



The space of ... formation, transformation and whole student development

