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## Assessment alchemy: Transforming data into action–Why it is mostly myth and what to do about it

Gary R. Brown Portland State University

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## Assessment Alchemy: Transforming Data into Action



Gary Brown Assessment Consultant Washington State University

Senior Fellow AAC&U

. . . .

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## ASSESSMENT ALCHEMY: TRANSFORMING DATA INTO ACTION— WHY IT IS MOSTLY MYTH AND WHAT TO DO ABOUT IT

Gary Brown April 2011





Gary Brown browng@wsu.edu Senior Scholar, AAC&U Co-Director, AAEEBL Teaching, Learning, & Assessment Consultant Washington State University



AAEEBL The Association for Authentic, Experiential and Evidence-Based Learning D The professional association for the world ePortfolio community

# WARNING!

This presentation may contain...



## **Ironic Content**



## **Problematic Strategies**



## **Cause for Deep Skepticism**



## Inexplicable Optimism







## CLOSING THE ASSESSMENT LOOP—BANTA AND BLAICH

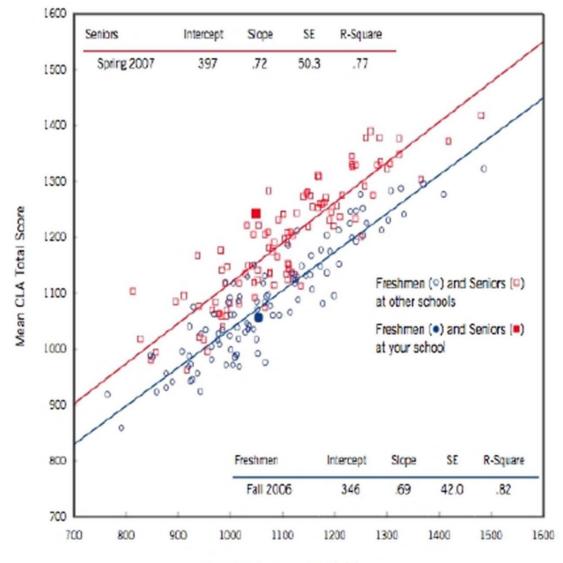
- Only 6% of 146 profiles demonstrated improvement (Banta, Jones, and Black)
- "Few instances of actual change in response to the information generated by the study." (Wabash national Study, Blaich)



## BANTA AND BLAICH....

- "Trying to force change can lead to faculty frustration and ultimately to resistance if results are disappointing—especially when it results in disapproval..."
- Turnover among leadership
- Standardized measures and external mandates don't engage faculty or students (Wabash)

## **COLLEGIATE LEARNING ASSESSMENT**



Mean SAT (or converted ACT) Score

then 200 in second of ACS have

*"The vast n exercise litt because the institution lo* 

*"Even where among select higher educa performance"* 



## **ACCREDITATION—THE TOOTHLESS TIGER?**

### THE CONNECTION BETWEEN RESEARCH AND PRACTICE MARY KENNEDY

- 1. Research needs to be more authoritative
- 2. Research needs to be more relevant
- 3. Research needs to be more accessible
- 4. The education system is inherently unable to respond coherently to research findings.

Educational Researcher, Vol. 26, No. 7 (Oct., 1997), 4-12

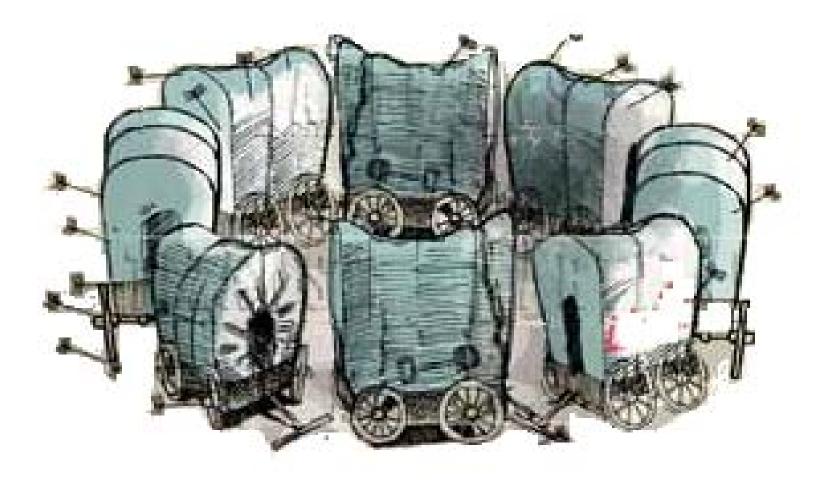
## "Assessment is, at its core, a subversive activity."

# "Although faculty, staff, students, and administrative leaders genuinely believe that the current structures promote learning...

... the current state of affairs at almost every institution is based on a delicate set of compromises and optimizations in which many parties have participated and which few care to alter."

### . . . .

## **CLOSING THE LOOP?**









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*"There is an erosion of the public's faith and good will toward higher education."* 

"Now is the time to develop new measures of accountability to demonstrate what students are getting for their money."



## "The time is drawing to a close."









MEASURE OR PERISH Yet the prevailing attitude toward assessment still ranges from infinite caution to outright hostility.

**—Kevin Carey** 

http://chronicle.com/article/Measure-or-Perish/125671/

## **"TRUST US."WON'T CUT IT ANYMORE**

HTTP://CHRONICLE.COM/ARTICLE/TRUST-US-WONT-CUT-IT/125978/?SID=AT&UTM\_SOURCE=AT&UTM\_MEDIUM=EN KEVIN CAREY JANUARY 18, 2011

Deep down, everyone knows that learning has long been neglected. But they don't want to know.

Policy makers don't want to know. Faculty don't want to know. Students don't want to know.

College presidents don't want to know, because fixing the problem means arguing with faculty.

## ACADEMICALLY ADRIFT

# Is this OK?

# *"By every possible measure the majority of college graduates are far from prepared for the challenges of either the economy or our democracy."*

—Carol Geary Schneider, president American Association of Colleges and Universities

http://www.aacu.org/liberaleducation/le-wi10/le-wi10 president.cfm

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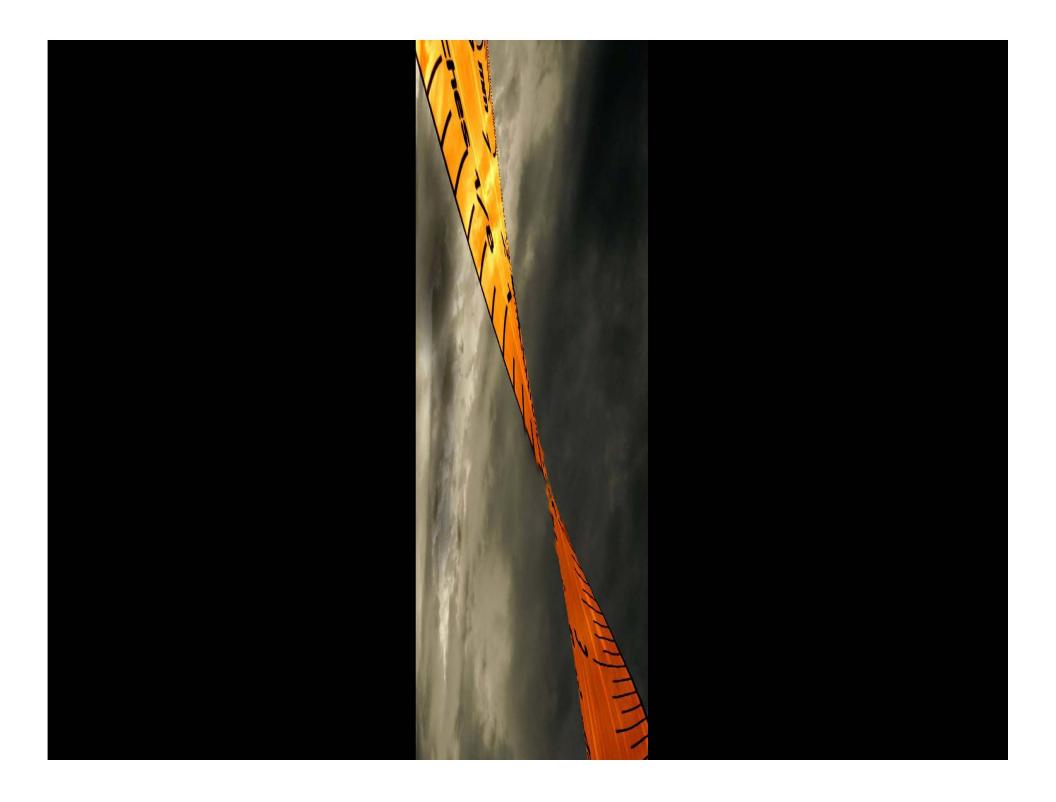
## THE CREATIVITY CRISIS

HTTP://WWW.NEWSWEEK.COM/2010/07/10/THE-CREATIVITY-CRISIS.HTML

# American creativity scores are falling..

A recent IBM poll of 1,500 CEOs identified creativity as the No. 1 "leadership competency" of the future.







## **What Comparison Matters**













# 1. Institutional SYSTEM of assessment

- 2. Assessment review every 2 years
- 3. Professional Accreditation will not suffice for NWCC&U

# "All means all."

Northwest Commission for Colleges and Universities to WSU







The Center for Teaching, Learning, & Technology is a resource for everyone teaching at WSU. The center provides information and support related to assignment and syllabus design, use of educational technology, facilitating group work, and assessment. CTLT can help with your efforts to:

- design assignments that connect concepts and skills across courses and make use of collaborative learning;
- <u>refine syllabi</u>, which can include guidelines that claify expectations about learning and set a positive classroom atmosphere;
- incorporate innovative teaching approaches and techniques that help engage students;
- assess your courses as the semester unfolds and make adjustments. CTLT provides a variety of assessment tools and can help faculty interpret results to refine teaching

practices

assess your courses as the semester unfolds and make adjustments. CTLT provides a variety of assessment tools and can help faculty interpret results to refine teaching practices.

- incorporate innovative teaching approaches and techniques that help approaches and
- atmosphere;



eLearning@wsu



The Center for Teaching, Learning & Technology





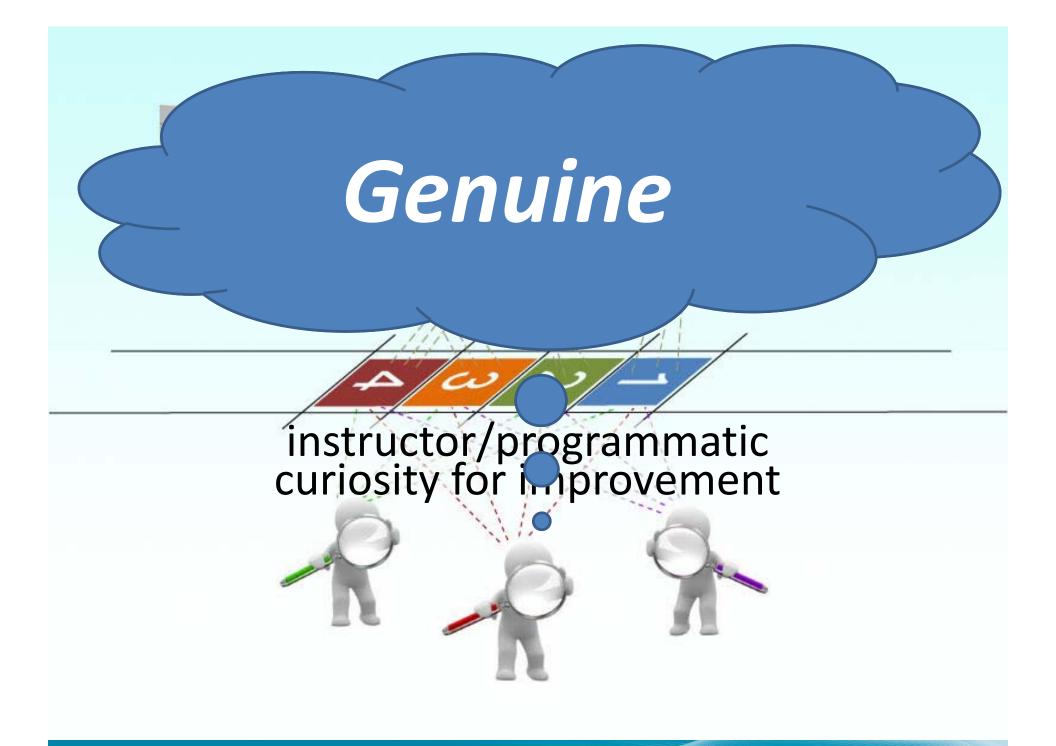
outcomes assessment

eportfolios

for learning

Assessment

Tuesdays



### THE THREE WSU ASSESSMENT GOALS

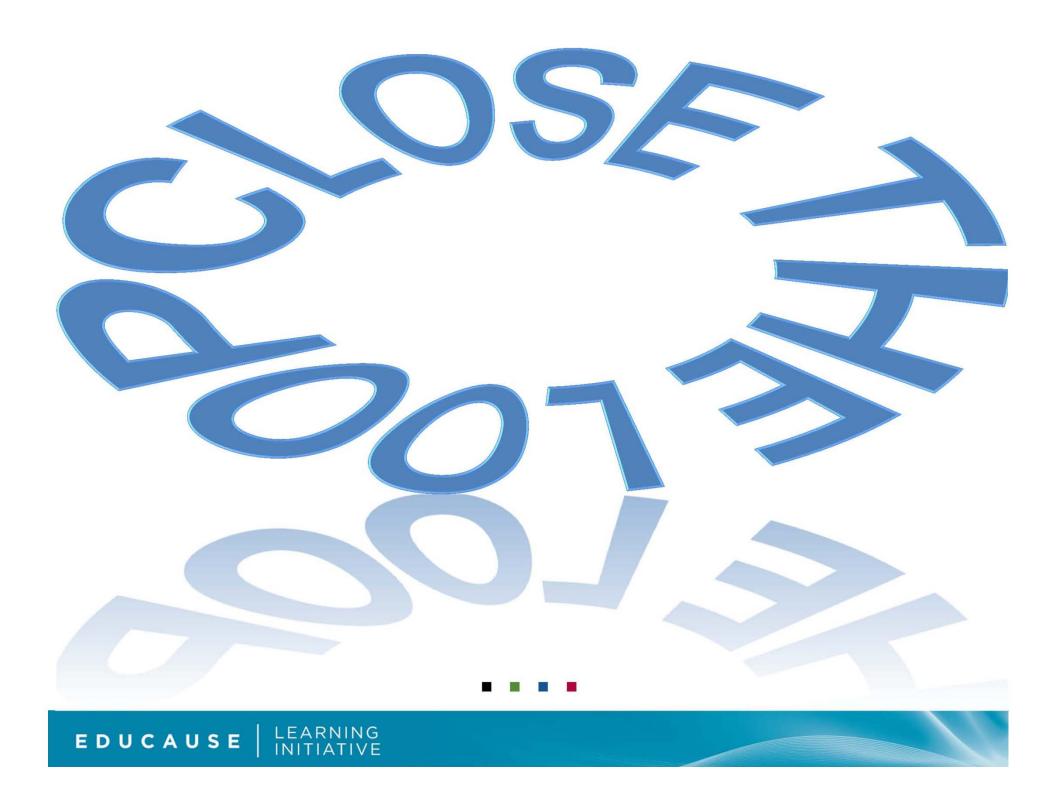
- 1. Establish a system of association to afford a sindividual student and agency.
- 2. Establish focu lean
- 3. Deep organizational understanding of the valuable uses (and misuses) of assessment.

#### **ASSESSMENT AS LENS**





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#### **ASSESSMENT AS MIRROR**









Developed in collaboration with the Office of Assessment and Innovation at Washington State University Draft: November 2009

#### **Assessment of Assessment** Overview

It is expected that each program will focus and implement assessment in ways appropriate to its own distinct context, needs, and questions.

		Minimal		Emerging		Developing		Adequate		Effective		Outstanding	
	0		1		2		3		4		5		6
1	ABSENT	ABSENT The assessment Team and System The assessment process engages program faculty, leadership, students and other stakeholders involved with the program (cross-institutional faculty, accreditors, alumni, advisory boards, and employers) as appropriate. The system is recurring and dynamic. It is implemented and refined over time for continuous improvement.											s, and
		Min	imal	Eme	rging	Deve	loping	Adeo	quate	Effe	ctive	Outst	anding
	0		1		2		3		4		5		6
2	ABSENT	Program Goals, Outcomes, and Measures Goals and outcomes reflect stakeholder consensus and, curricular alignment, and support WSU strategic initiatives. Multiple evidence-based measures are complementary and are designed to											

illuminate questions faculty and administration care about, yielding useful information.

		Minimal		Emerging		Developing		Adequate		Effective		Outstanding	
	0		1		2		3		4		5		
3	ABSENT	Assessi program actions	ment sys m perso that ma	tem info nnel in tl iy includ	ne schola e change	guides o arship of es and im	teaching provem	g and lea ents to p	ange anc rning. Th bedagogy nrich the	nere is fo , curricu	llow-thr la, facult	ough wit :y	h

\*It is not necessary to fill out the "Analysis and Action Plan" section for the December 18, 2009 report.

		Minimal		Emerging		Developing		Adequate		Effective		Outstanding	
	0		1		2		3		4		5		6
4	ABSENT	The ass signific	ant alloc	process ation of	is priori time and	tized an resourc	d robust ces. The	ly suppo policy en	gages al	l relevar	leaders, it stakeh	olders. T	he

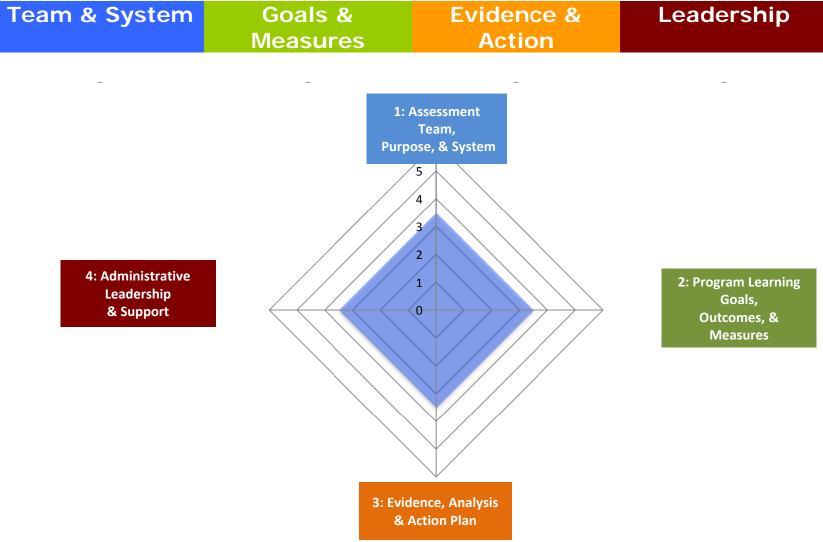
assessment process yields information used by administration and faculty with demonstrable impact on curriculum, teaching practice, and student learning outcomes.







#### FOCUS ON PROGRAM ASSESSMENT



### **TEAM AND SYSTEM**

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"To be ultimately successful, any meaningful assessment effort must be embraced widely by instructors."

—From "Assess This!"

"Online assessment communities link local faculty members in collaborative work to develop shared norms and teaching capacity, and then link local communities with each other in a growing system of assessment."



http://learningoutcomesassessment.org/documents/AlternativesforAssessment.pdf



### GOALS, OUTCOMES, MEASURES

For assessment to "have meaning beyond an individual institution:"

1.Are public and shared with those who have responsibility for teaching.

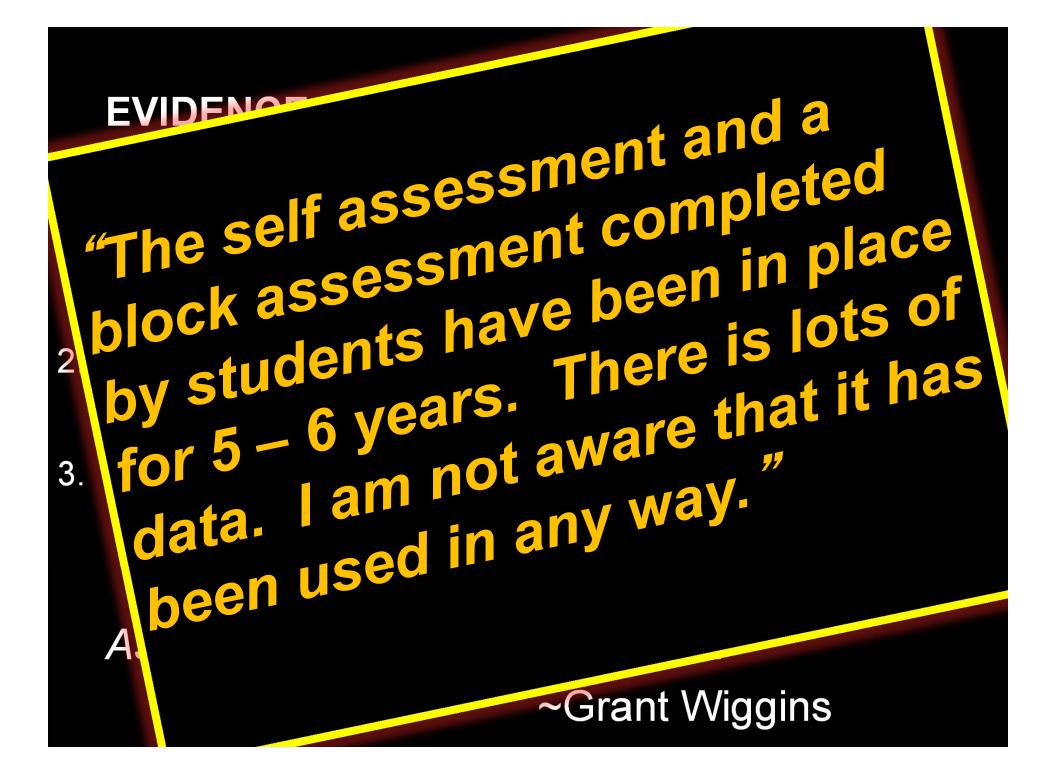
2.Anchored "in the curriculum that faculty teach."<sup>2</sup>

<sup>2</sup>(New Leadership, Student Learning, Accountability, AAC&U p.5)

3.Reflect "some kind of standard."

—From CHEA

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# Quality?



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# **Systematic** Responsiveness to Changing Contexts

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# WHAT TO REPORT?





#### HERE'S LOOKING AT YOU: TRANSPARENCY, INSTITUTIONAL SELF-PRESENTATION, AND THE PUBLIC INTEREST

## "Transparency demonstrates that the academy takes its education mission seriously."

## "Such openness is risky."





# Transparency: *"Strategic Image Management"*





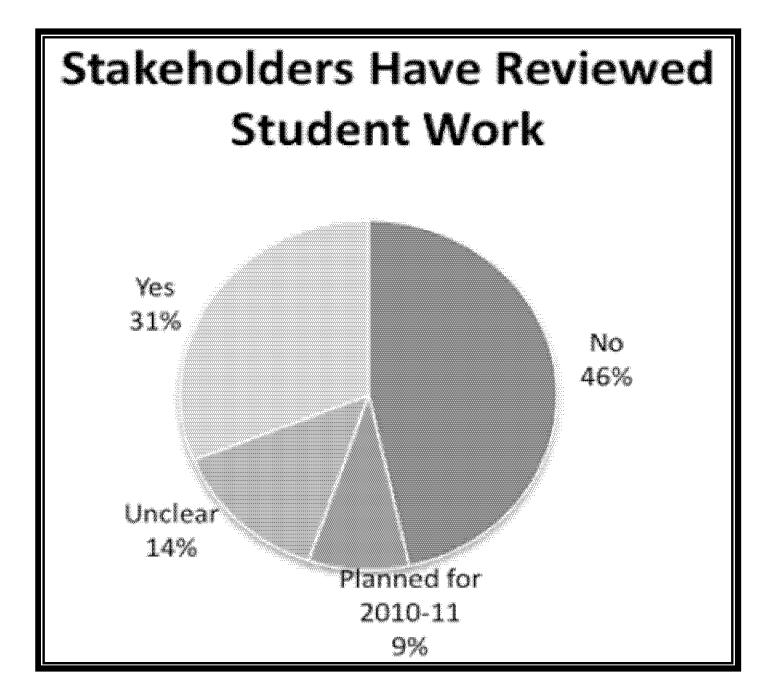
#### WHAT TO REPORT?

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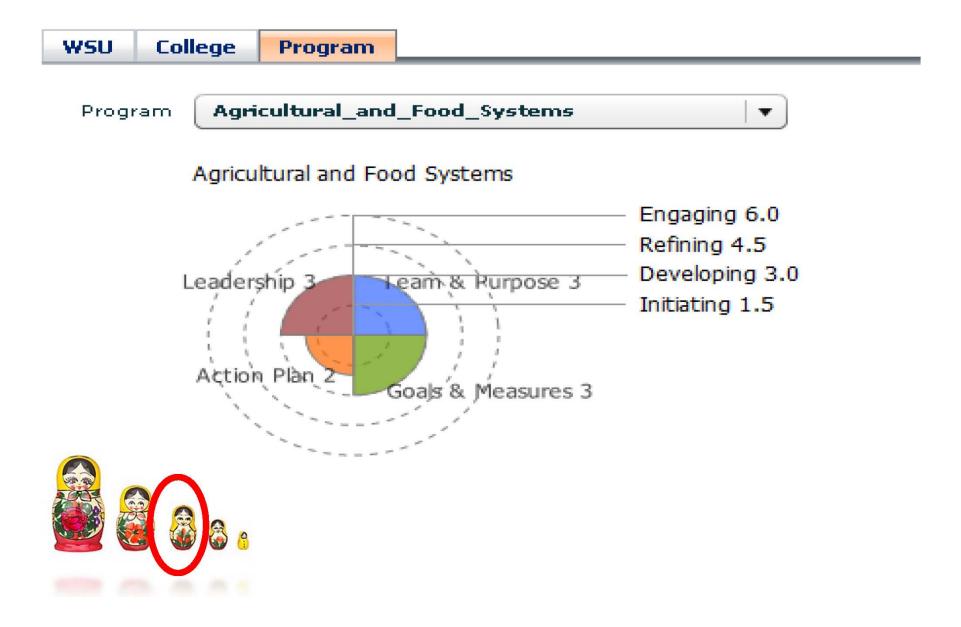
## The percentage of programs **COllaborating** with communities of practice....



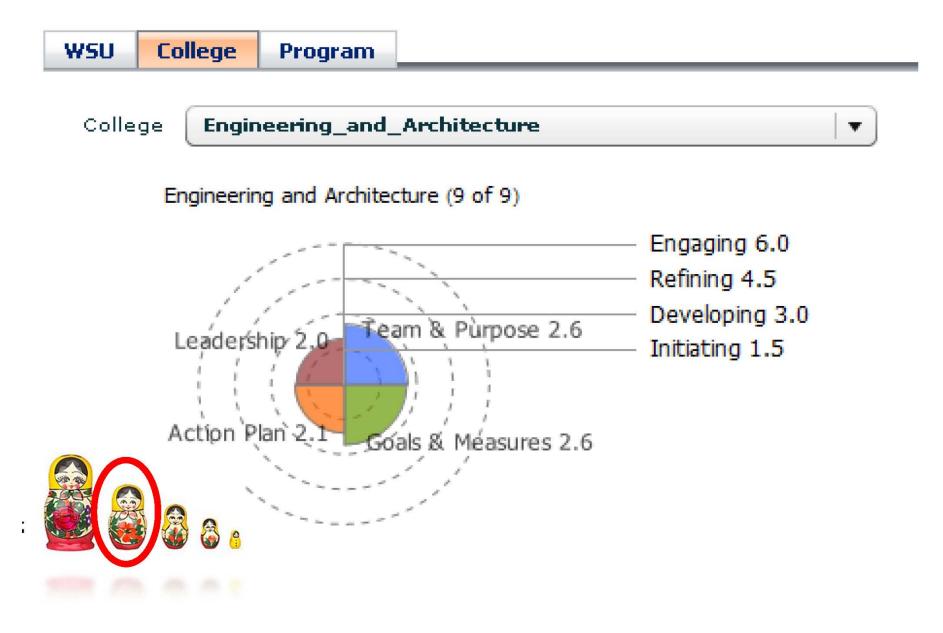




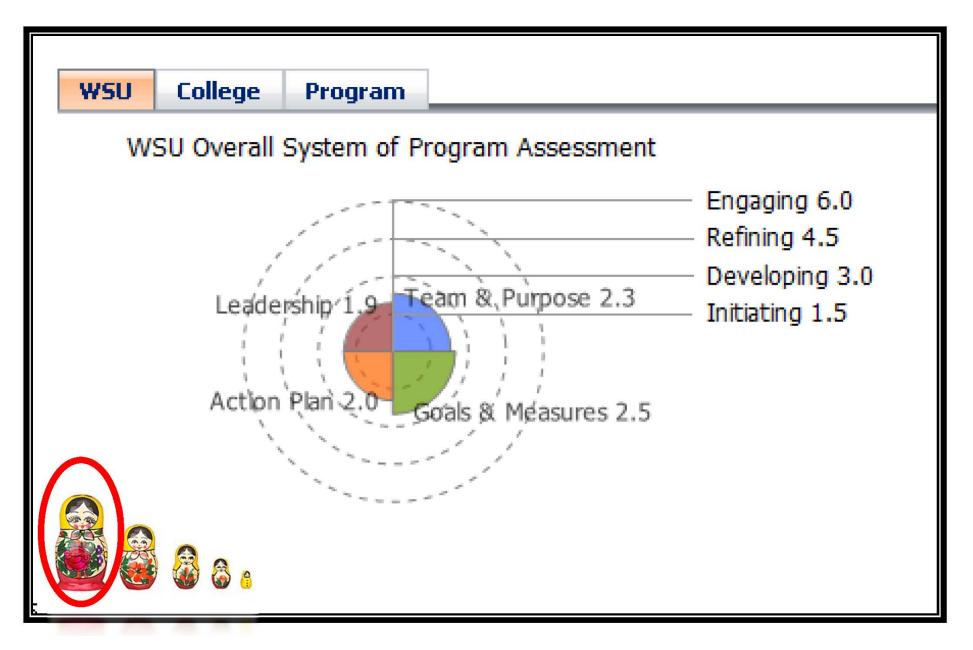
#### YEAR ONE RESULTS



#### YEAR ONE RESULTS



#### **YEAR ONE RESULTS**



## 1190 Graduating Students





## 17% of WSU Undergraduate Programs

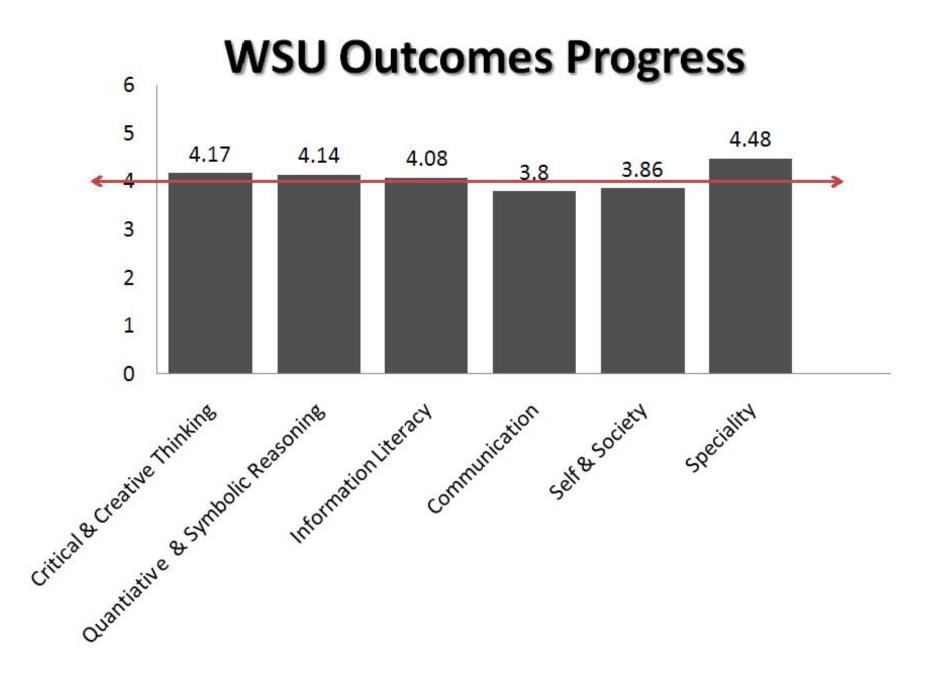


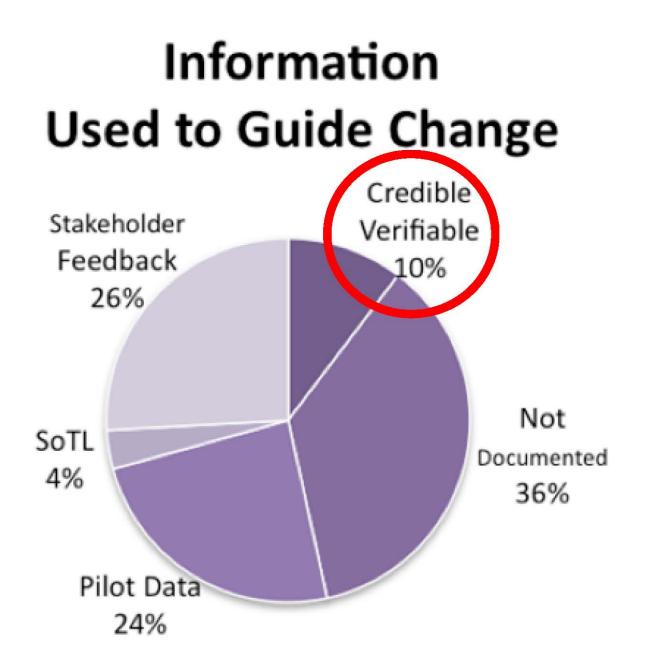


## **Almost 20% of Graduating Class**









Information type WSU Programs used in the 2009-2010 cycle to inform or guide change

# What is Learned & Applied

#### SAMPLE FINDINGS

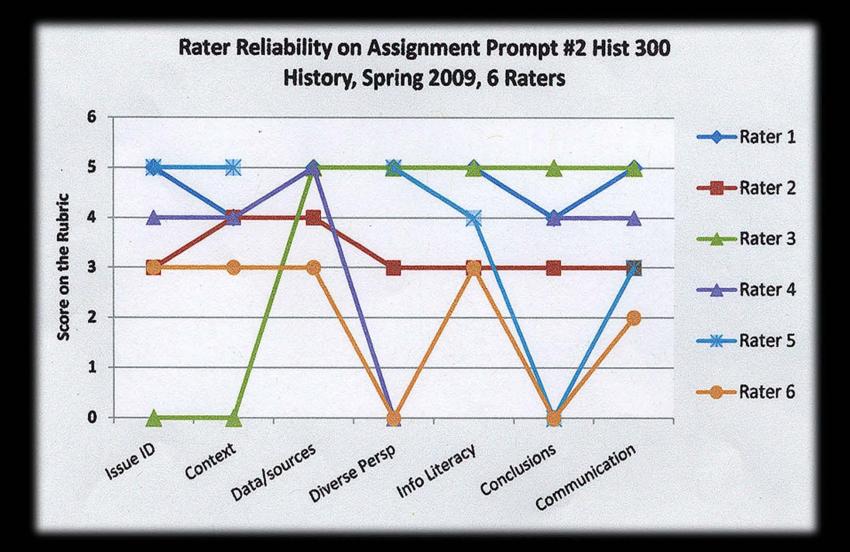
### Finding:

More than 50% consistently fail intro calculus

#### Action:

- 1. Ask Why
- 2. Follow Successful Students
- 3. Experiment
- 4. Isolate Problem: *exponentials*

#### SAMPLE FINDINGS



#### SAMPLE FINDINGS

#### Finding:

Inconsistent perceptions of goals, performance expectations as reflected in assignments and grading....

#### Action:

"Imagine how students perceive our curriculum?"

Initiate peer assignment review.

# **WHAT NOT TO REPORT?**

#### **ON THE OTHER HAND...**

HTTP://CHRONICLE.COM/BLOGS/MEASURING/MEASURING-STUDENT-LEARNING-MANY-TOOLS/27541

*"We've got a lot of the assessment down. We've got rubrics. We've got e-portfolios. We have all sorts of stuff out there.* 

But we need to improve its yield.

And that's more of a political process, more of a cultural process."

—Charles Blaich, The Wabash Project 2010

#### SAMPLE FINDING Gran Action: Action: Action: admissions Action: admissions Action: admissions admissions Action: admissions adm

### Finding:

### Action:

Graduating seniors are weak on global, cultural and societal contexts," and "They were not quick to identify the areas in which they were ignorant."

Report that students are meeting expectations.

### Finding:

### Action:

A majority of majors did not "meet expectations" on any outcomes.

- 1. Raise entry requirements
- 2. Provide more rigor in required courses.
- 3. Lower expectations given the quality of the students.



### SAMPL F --

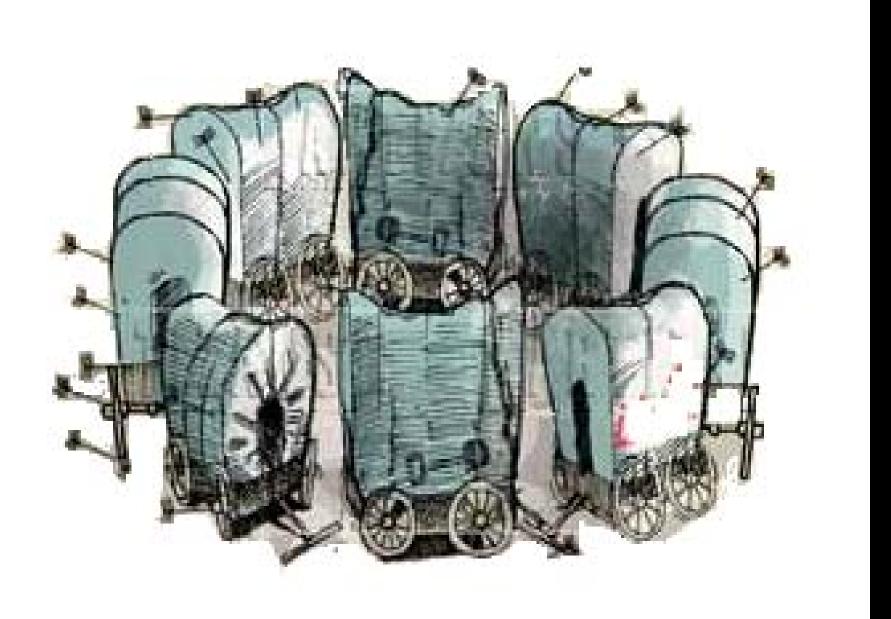
Action Dismiss senior alumni survey findings...

### Finding :

### Action:

"We are giving too many 4s."





### **SAMPLE FEEDBACK**

Junior faculty:

"How should we respond to the Office of Assessment's feedback on our assessment plan?"

### Tenured professor:

"Oh -kiss my ass! I have been here long enough to know that THAT thing will be flushed down the toilet, so I wouldn't worry too much."

"The future effectiveness of institutional accreditation in both promoting good practice and in reinforcing the academy's assumption of consistent and transparent standards of student academic achievement lies entirely in the hands of the academy and its leadership.



http://www.learningoutcomeassessment.org/occasionalpaperone.htm

## EPILOGUE



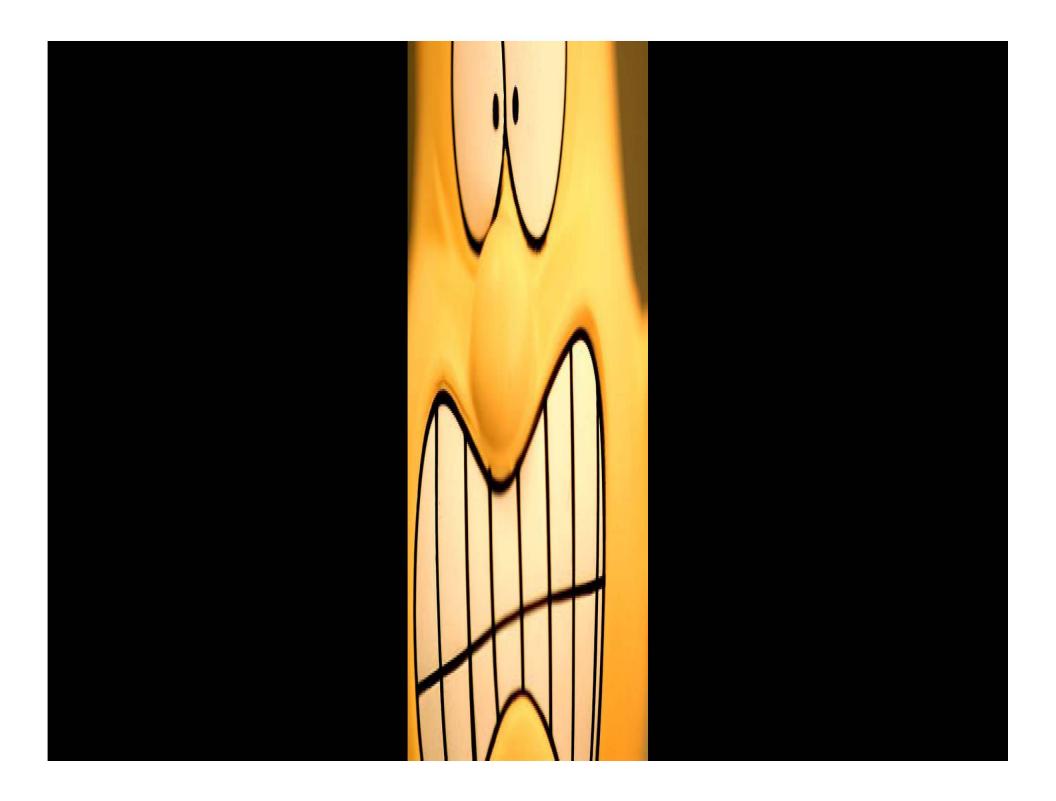
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### Finding:

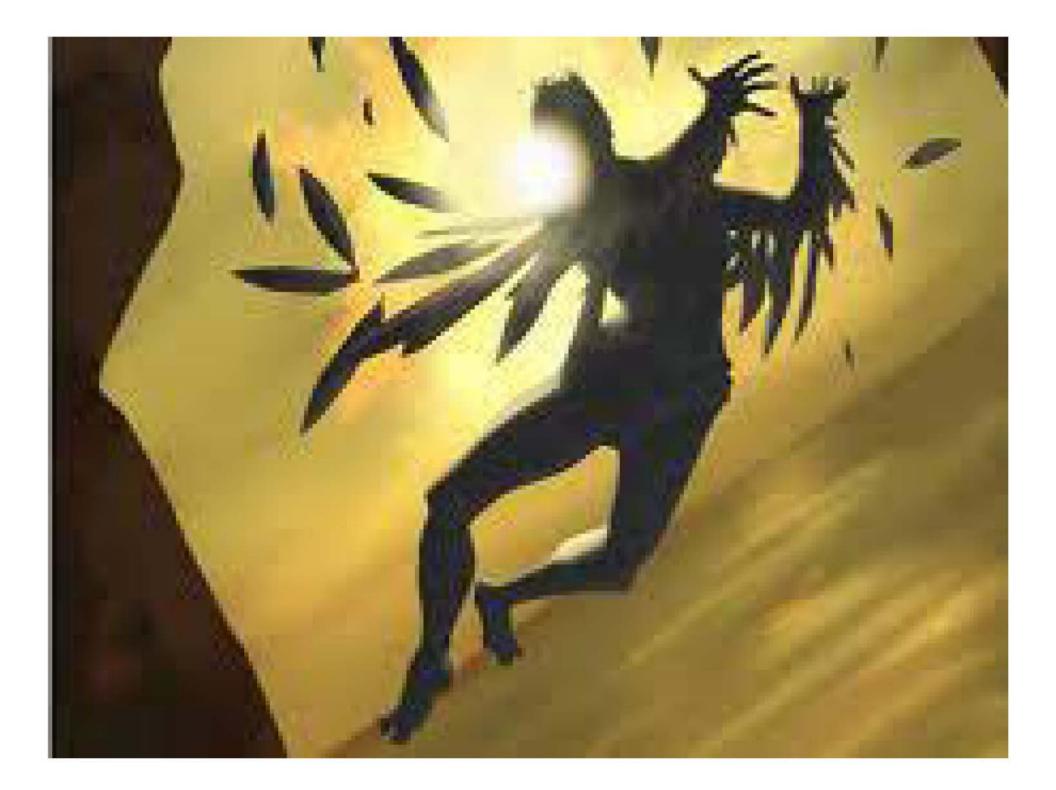
Report submitted to NWCC&U in October...

The report reveals that 33% of units have reported perfunctory assessment results. Action:









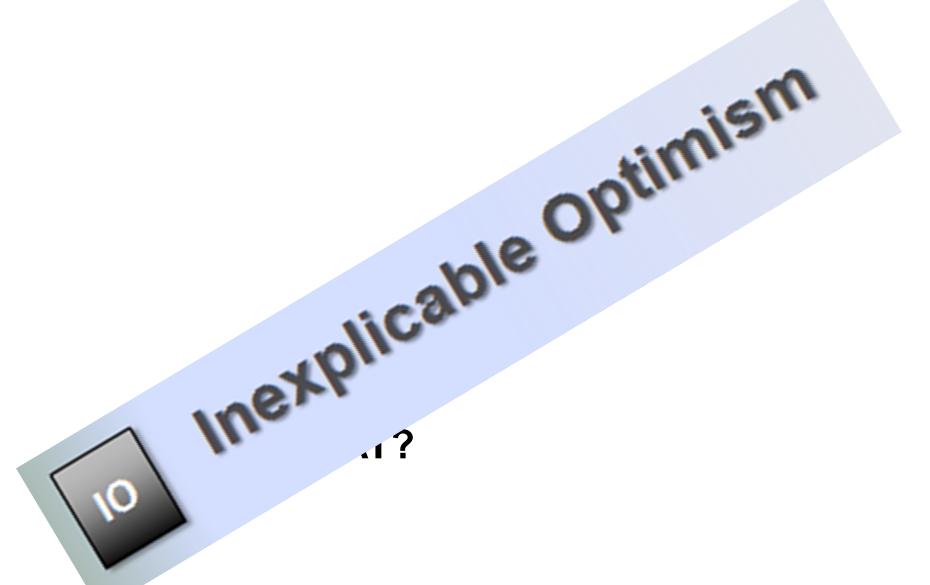


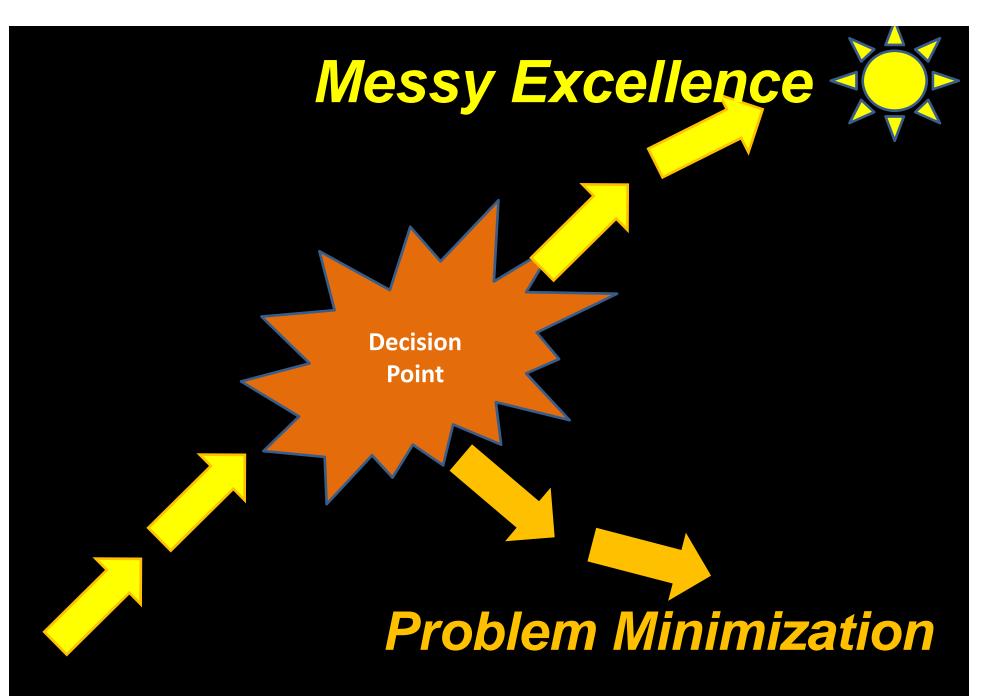
### **QUESTIONS?**

### communitylearning.wordpress.com

### EDUCAUSE | LEARNING INITIATIVE



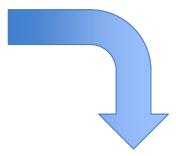




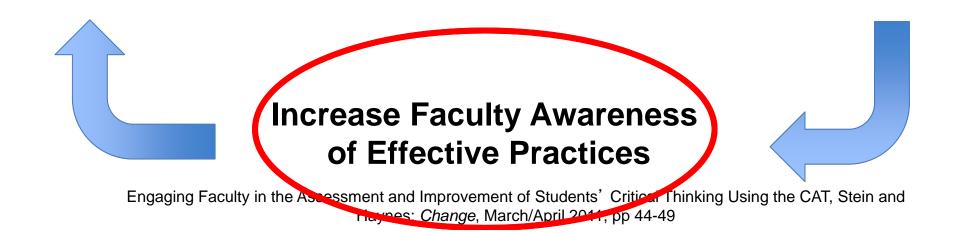
BEREITER, C., & SCARDAMALIA, M. (1983). LEVELS OF INQUIRY IN WRITING RESEARCH. IN P. MOSENTHAL, L. TAMOR, S. A. WALMSLEY (EDS.), RESEARCH ON WRITING: PRINCIPLES AND METHODS (PP. 325). NEW YORK: LONGMAN.

# ENGAGING FACULTY IN ASSESSMENT & IMPROVEMENT





Improve Student Learning Opportunities Faculty Participate in Assessment



### ENGAGING FACULTY IN ASSESSMENT & IMPROVEMENT

- New Course at Clemson includes miniresearch projects
- Case study course at Sam Houston State University
- University of Wisconsin made gains reflecting on different scientific methodologies

EDUCAUSE

Engaging Faculty in the Assessment and Improvement of Students' Critical Thinking Using the CAT, Stein and Haynes; *Change*, March/April 2011, pp 44-49

### Washington State University

### **College of Veterinary Medicine**

Search Vet Med a.

Vet Med A to Z Index Contact Us



Prospective Vet Students Animal Owners Alumni, Donors & Friends Prospective Grad. Students **Current Students** Veterinarians Vet Techs Faculty & Staff









Camelids

Washington State University's College of Veterinary Medicine is one of the nation's top veterinary schools.

### What's New?

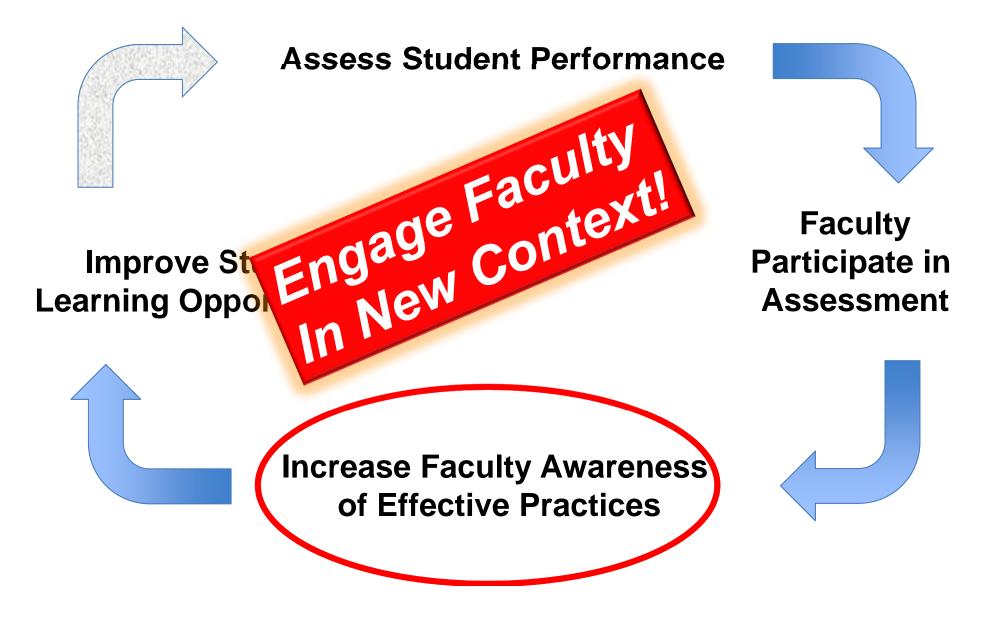
Great-horned Owl Chick Returned to Nest

CE WEBINAR April 13 by Dr Dale Moore on Colostrum Management for Dairy Calves

Kids Judge! 2011 Photos

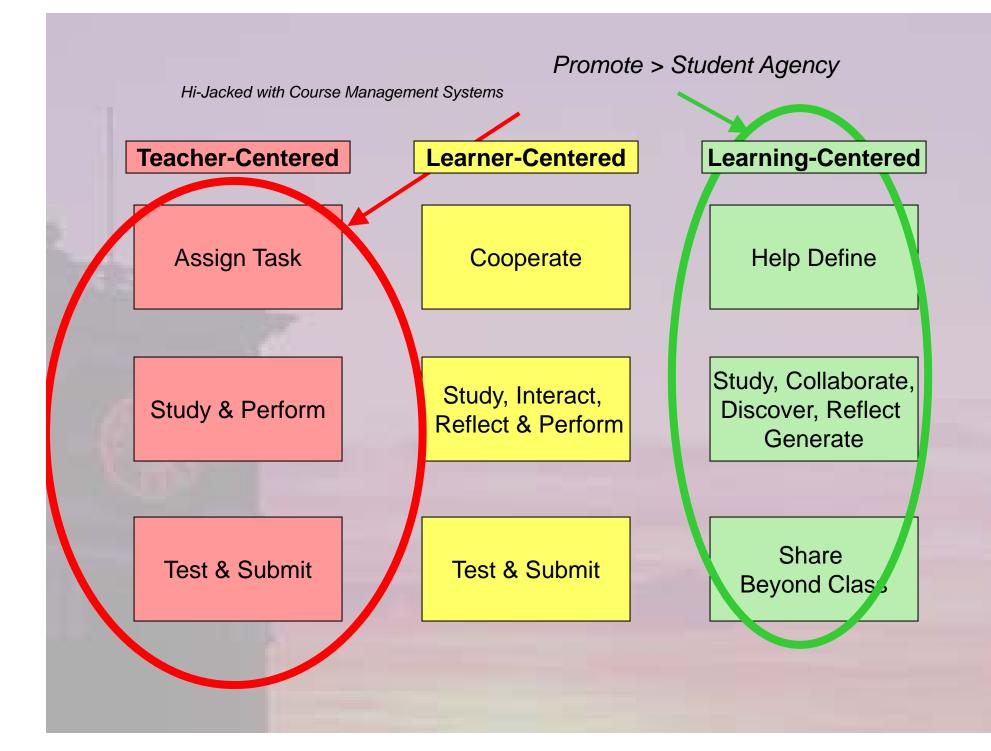
A Dime in Time Donations to WSU PATH Program

### **ENGAGING FACULTY**



### The WSU Inter/National Coalition For Electronic Portfolio Research Study





### **KEY FINDINGS**

### **Teaching-Centered**

Value course management Do NOT value *learning growth sharing knowledge building community using multimedia* Are unfamiliar with ePortfolios & not likely to use **Request training on tools and on** *the value of the tools.* 

# How do we present to them the value of new tools?







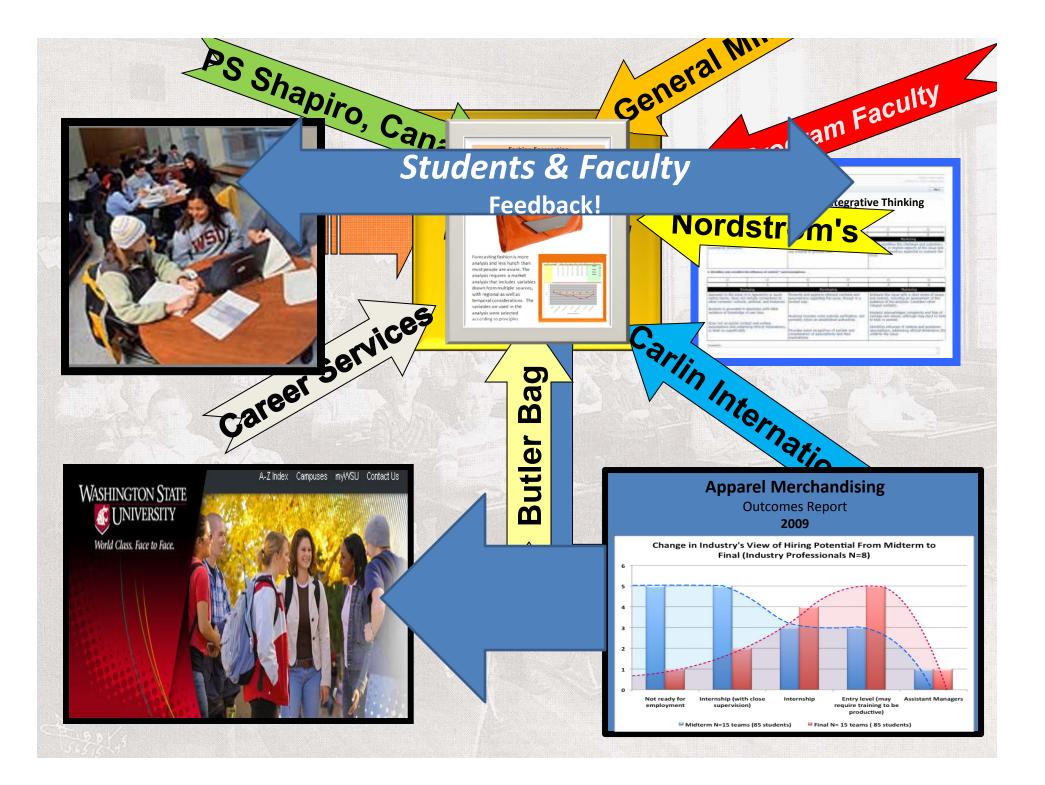
### Feedback can be routed back to multiple audiences.

### The Harvesting Gradebook

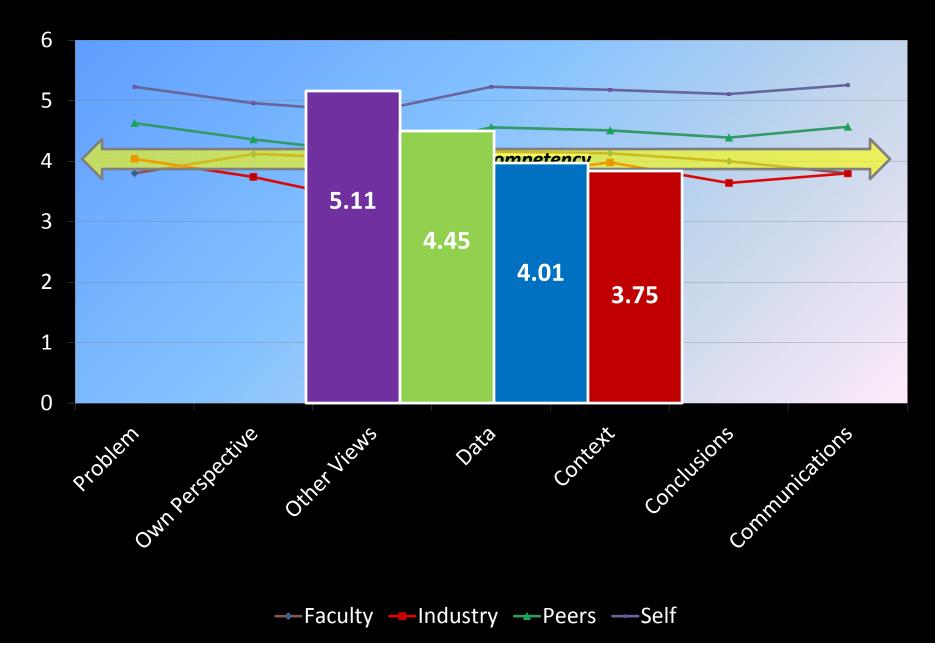
### program

### instructor

students



### PROJECT CRITICAL THINKING RATINGS BY GROUP



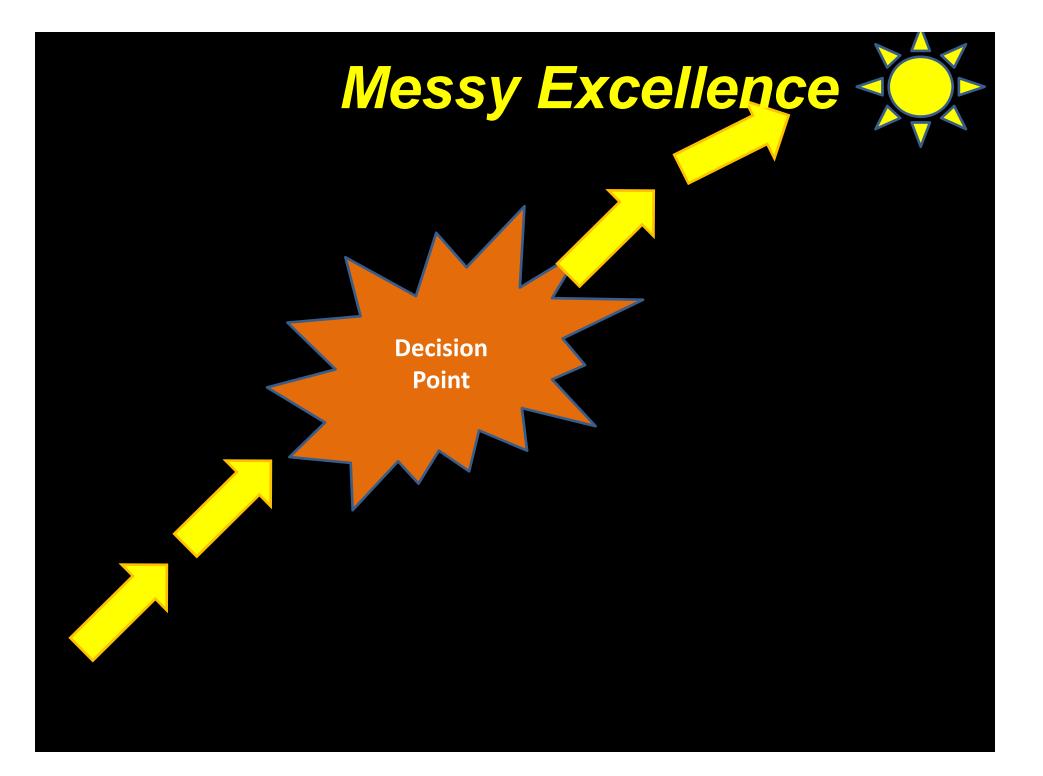
### EMPLOYERS SAY...

*"My business partner and I were so impressed with the work of the students assigned to our two teams that we have asked them to contact us regarding summer internships..."* 

*"We would be happy to participate in similar projects in the future and/or arrange introductions to other companies who might also be interested."* 



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### **QUESTIONS?**

### communitylearning.wordpress.com