

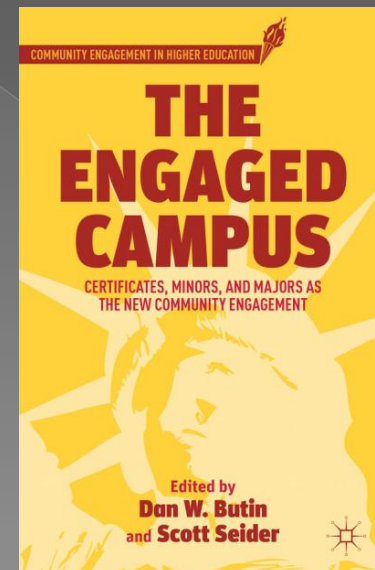
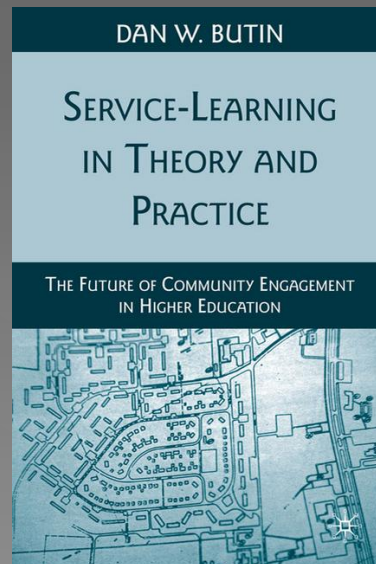
Danger! Teaching Ahead: A Vision for the Scholarship of Teaching and Learning

Dan W. Butin, Merrimack College

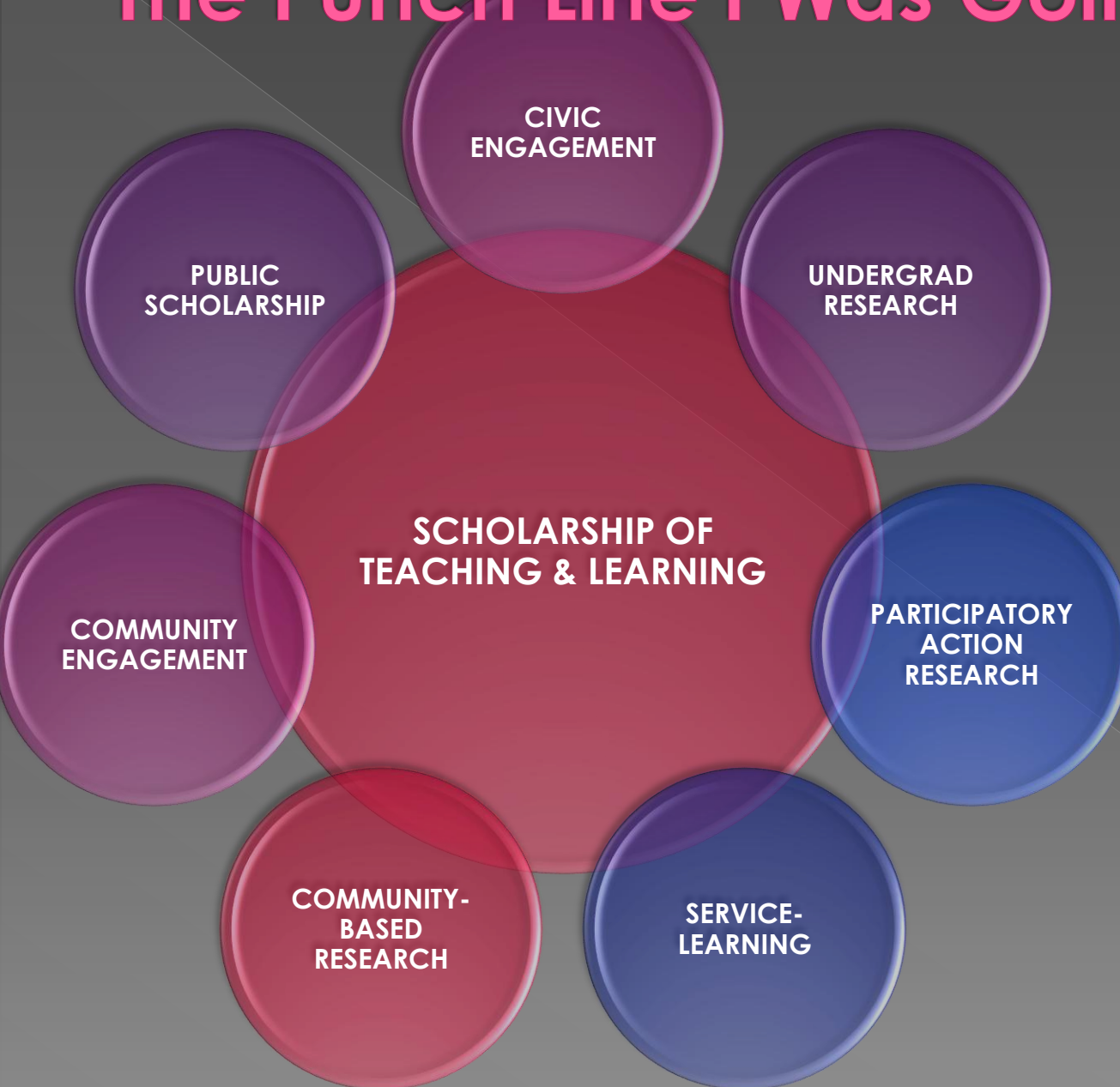
Sixth Annual Conference on Teaching and Learning
Oakland University, Rochester, MI
May 9-10, 2012

The Story I Was Going to Tell...

- LECTURING AS WORST FORM OF TEACHING
- TEACHING AS “DANGEROUS”
- DEWEY: NO TEACHING WITHOUT LEARNING
- POWER OF PLACE-BASED EXPERIENTIAL LEARNING



The Punch Line I Was Going to Give...



**TEACHING AS THE QUESTION;
NOT THE ANSWER**

**CONTRA THE
INSTRUMENTALIZATION OF
HIGHER EDUCATION**



TEACHING AS TEXT

**A VISION FOR THE
SCHOLARSHIP OF TEACHING
AND LEARNING**

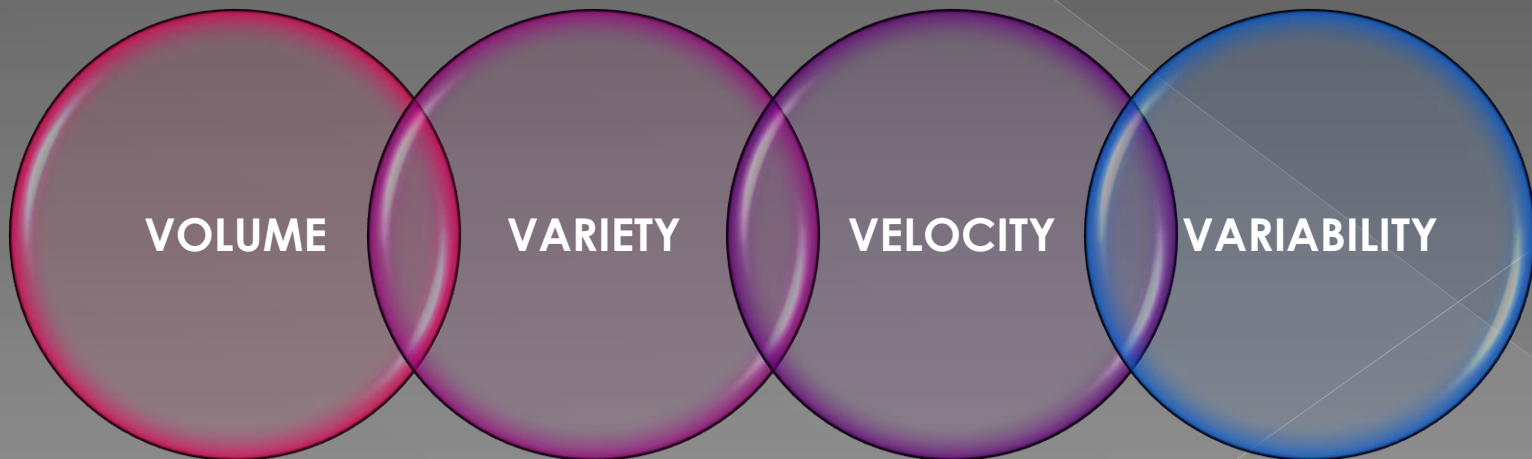
My Talk Hijacked by MITx...

- ◎ LAUNCHED THIS SPRING
 - > 6.002X CIRCUITS & ELECTRONICS
 - > 120,000 SIGNED UP; 20,000 STILL ENROLLED
- ◎ MOOC (MASSIVELY OPEN ONLINE COURSE)
 - > FULLY AUTOMATED
 - > SCALABLE



Web 2.0...(But Still Learning 1.0)

- **OPEN COURSEWARE MOVEMENT**
 - > E.G., MIT – 1 MILLION VISITORS/MONTH
- **WIKIPEDIA; KHAN ACADEMY**
- **NEW CHARTER UNIVERSITY; STRAIGHTERLINE**
 - > \$99/MONTH; TRANSFERABLE CREDIT THROUGH ACE; CAEL
- **WESTERN GOVERNORS UNIVERSITY**
 - > 25,000 STUDENTS; ALL ONLINE DEGREES; UNBUNDLING OF CURRICULUM, INSTRUCTION & ASSESSMENT



Why MITx is Different

- ◎ **UNDERMINES THE CREDENTIALING SOCIETY**
 - > SINGULAR UNIT OF MEASUREMENT
 - > EXCHANGE VALUE
- ◎ **LEARNING ANALYTICS**
 - > ADAPTIVE TESTING
 - > INTELLIGENT TUTORING SYSTEMS (“INTERACTION GRANULARITY”)
 - > NATURAL LANGUAGE PROCESSING (LATENT SEMANTIC ANALYSIS)
 - > “BIG DATA”
- ◎ **BAUMOL’S COST DISEASE**

MITx *versus* “Higher Education”

○ STUDENTS (20 MILLION)

> DEMOGRAPHICS

- 42% ATTEND COMMUNITY COLLEGES; <25% ARE “TRADITIONAL”

> LEARNING

- 50% REQUIRE SOME REMEDIAL EDUCATION; COLLEGE AS INSTRUMENTAL (I.E. GET A JOB)

> OUTCOMES

- TIME TO COMPLETION (>150%); GRADUATION RATES (30% AA; 55% BA); INEQUITY ACROSS RACE, ETHNICITY & SES; ACTUAL LEARNING (CLA – “ACADEMICALLY ADRIFT”)

○ FACULTY (1.7 MILLION)

> DEMOGRAPHICS

- 2/3 ARE NON-TENURE-STREAM

> TEACHING

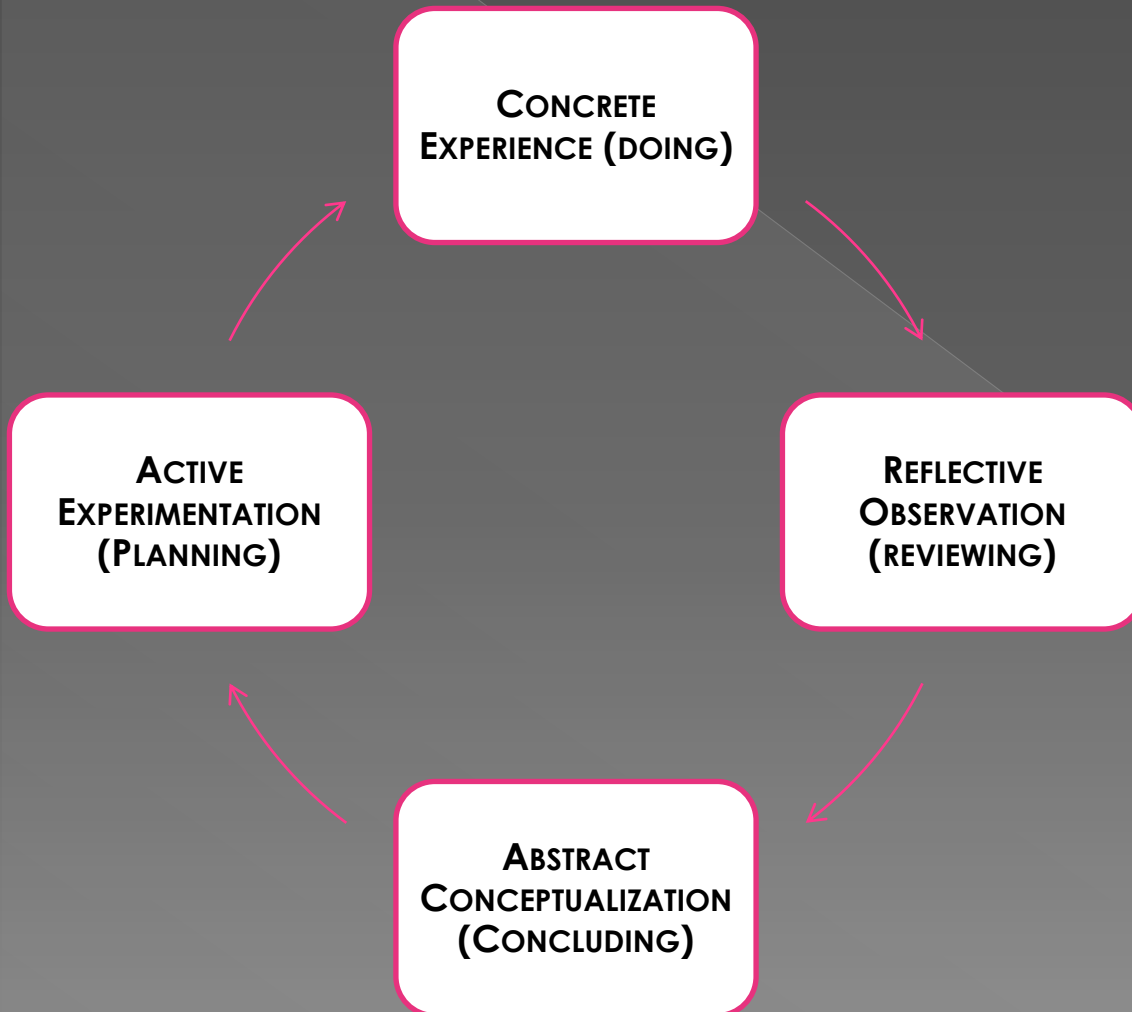
- 83% USE LECTURING AS PREDOMINANT CLASSROOM PEDAGOGY

○ INSTITUTIONS (4,500)

- > <2% ARE TRADITIONAL LIBERAL ARTS COLLEGES

- > 33% OF ALL STUDENTS TAKE ONLINE COURSES

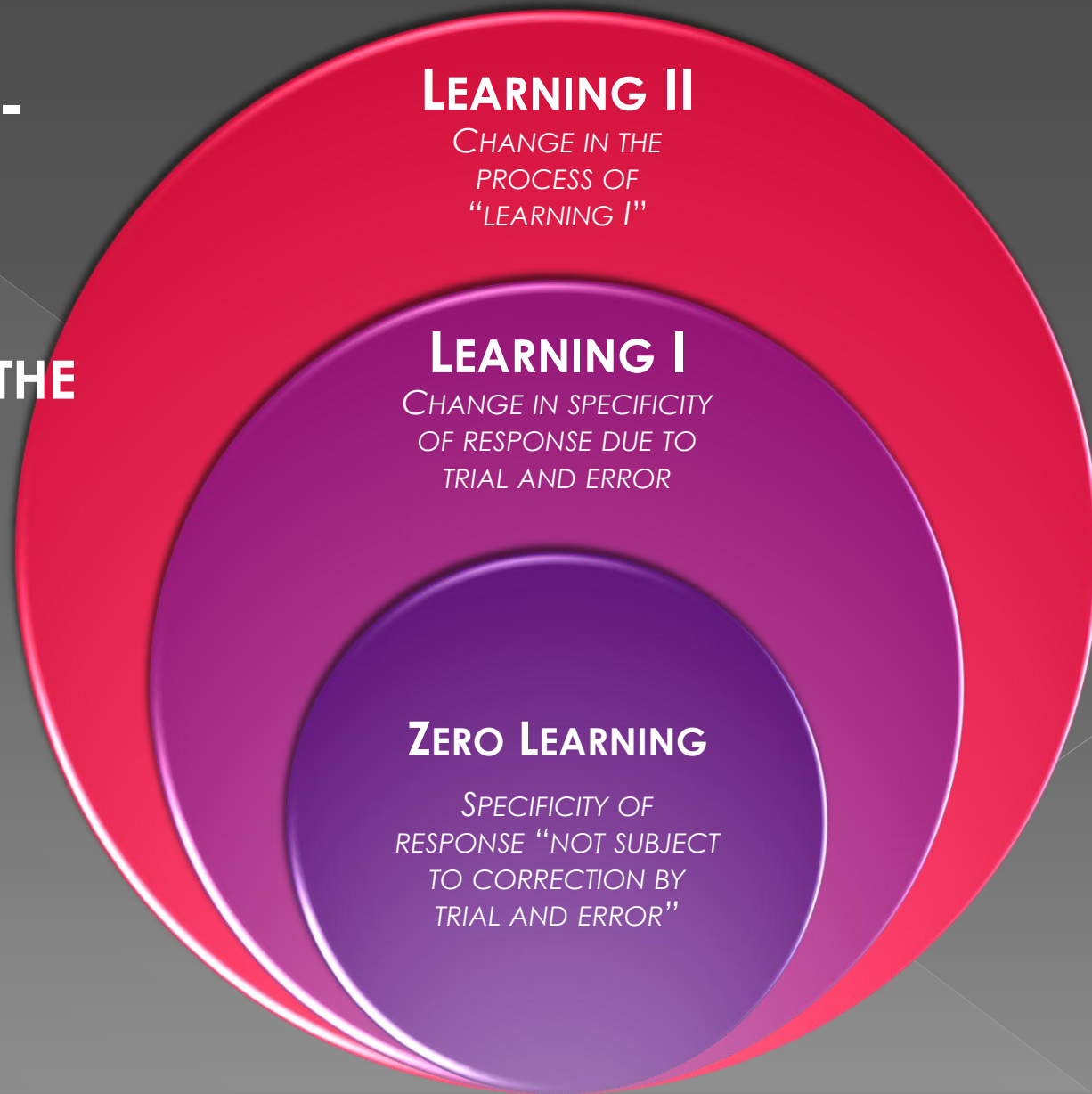
The Future of MITx



- **EDX COURSES → HUMANITIES, SOCIAL SCIENCES, NATURAL SCIENCES**
- **“THE MOTHER OF ALL MOOCS” → WIKIPEDIA + WATSON + NETFLIX**
- **ALL FEEDBACK, ALL THE TIME**

The Limits of MITx

- BATESON & META-LEARNING
- BRITTLENESS
- “THE MAP IS NOT THE TERRITORY”



Dewey's "Moment of Doubt"

“Thinking begins in what may fairly enough be called a *forked-road* situation, a situation which is ambiguous, which presents a dilemma, which proposes alternatives...Difficulty or obstruction in the way of reaching a belief brings us, however, to a pause. In the suspense of uncertainty, we metaphorically climb a tree; we try to find some standpoint from which we may survey additional facts and, getting a more commanding view of the situation, may decide how the facts stand related to one another”

Moment of Doubt - Operationalized

- ◎ **NOVICE/EXPERT RESEARCH: DELIBERATE PRACTICE**
 - > **AGAINST AUTOMATICITY (EDGE OF CHAOS; ZPD)**
- ◎ **SELF-CONSUMING PEDAGOGY**
 - > **ANTIFOUNDATIONAL SERVICE-LEARNING**
- ◎ **TEACHING AS BRICOLAGE**
 - > **STANDARDIZATION OF PRACTICE (I-R-E SEQUENCES)**
 - > **REPertoire ENLARGEMENT (IMPROVISATIONAL STRATEGIES)**

The Story I Now Can Tell...(Post-MITx)

- ⦿ LECTURING AS WORST FORM OF TEACHING
- ⦿ TEACHING AS “DANGEROUS”
- ⦿ DEWEY: NO TEACHING WITHOUT LEARNING
- ⦿ POWER OF PLACE-BASED EXPERIENTIAL LEARNING

A Vision for the Scholarship of Teaching and Learning

- ◎ **TEACHING AS THE QUESTION; NOT THE ANSWER**
- ◎ **TEACHING AS TEXT**

The Arrow and the Song

I shot an arrow into the air
It fell to earth, I knew not where,
For so swiftly it flew, the sight
Could not follow it in its flight.

I breath'd a song into the air
It fell to earth, I knew not where.
For who has sight so keen and strong
That it can follow the flight of song?

Long, long afterward in an oak
I found the arrow still unbroke;
And the song, from beginning to end
I found again in the heart of a friend.

~ *Henry Wadsworth Longfellow*