Personal Learning and Assessment
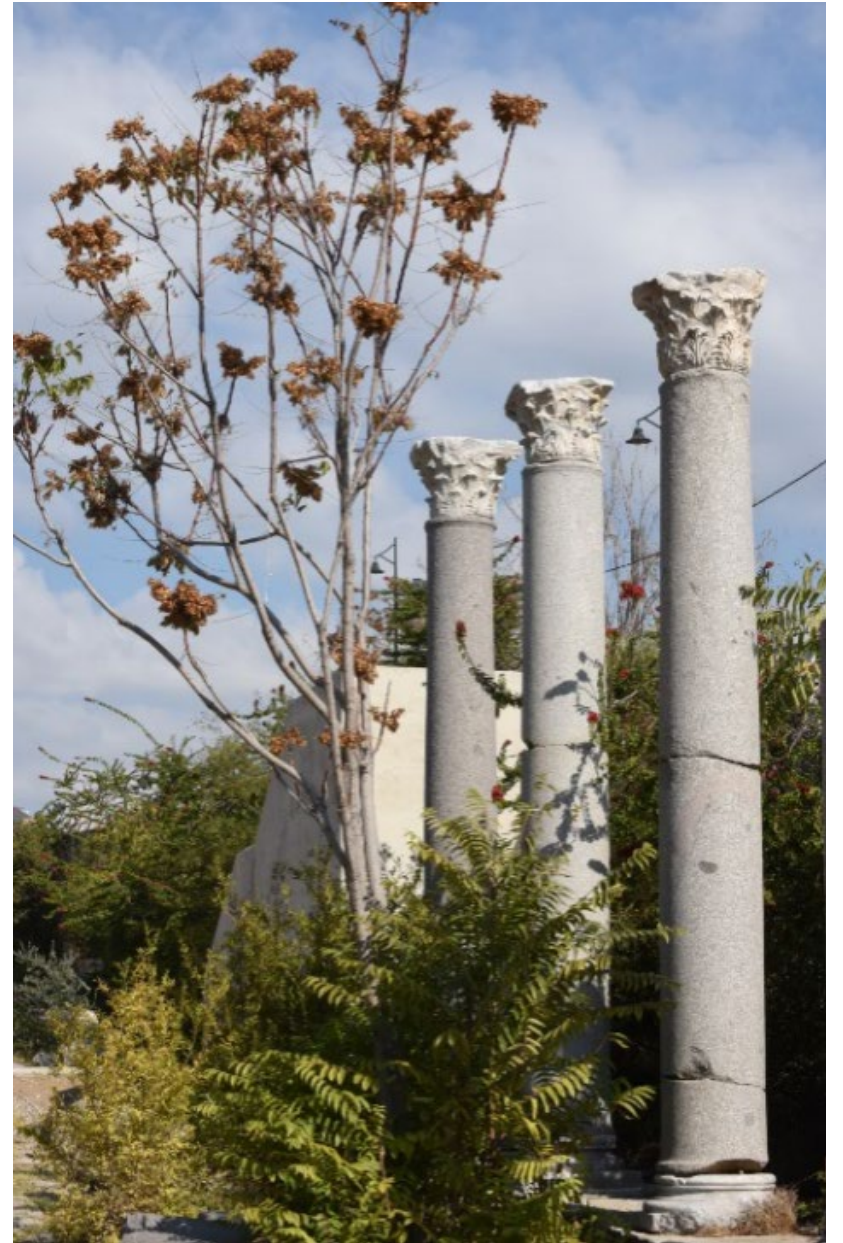
Stephen Downes

Beirut, Lebanon

November 8, 2016

xLearning vs cLearning

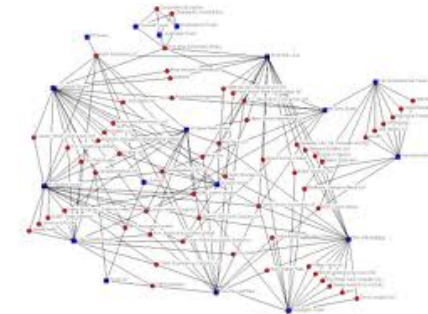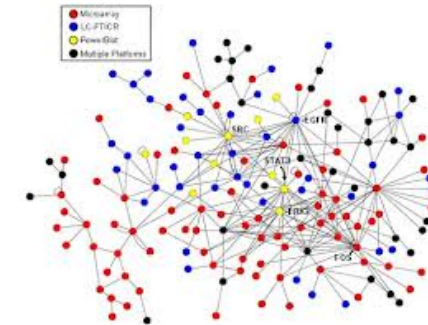contents   engagement   networks

COMMON CORE
STATE STANDARDS INITIATIVE
PREPARING AMERICA'S STUDENTS FOR COLLEGE & CAREER

http://www.corestandards.org/

http://www.magnet.edu/

http://lisahistory.net/wordpress/2012/08/three-kinds-of-moocs/

The Inflexible Law of Learning

It's when we do stuff that we learn, not when stuff does something for us.

Beyond Assessment as 'Gap' Analysis

- **situation-specific** practical wisdom (phronesis)
- **tacit** knowledge shared among practitioners ('mindlines')
- **complex** links between power and knowledge; and
- macro-level knowledge **partnerships**

Greenhalgh and Weiringa, http://jrs.sagepub.com/content/104/12/501.full

Personalization?

What is a personalized 21st century education
- personalized education plan (developed by teacher)
- adaptive learning via assessment
- grouping by proficiency, not age
- teacher = director of learning
- cf Kettering Foundation, Individually Guided Education

2. Two Approaches...

Content

↓

Practice

Practice

↓
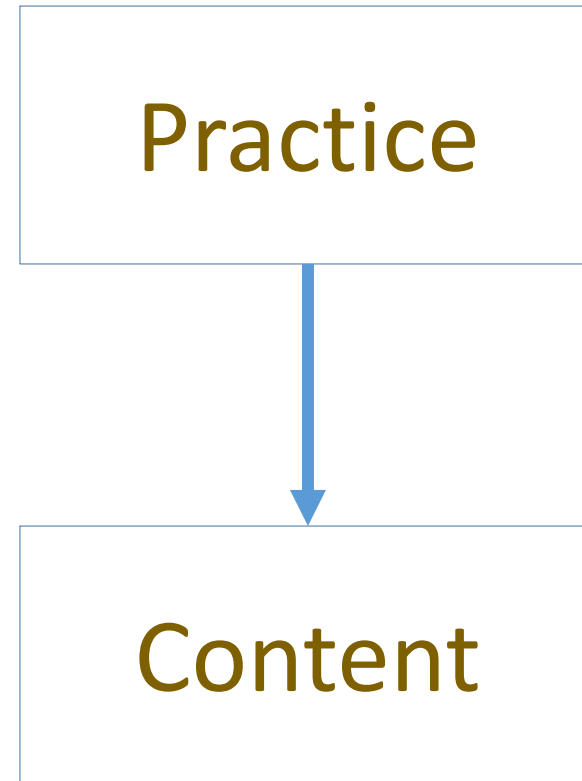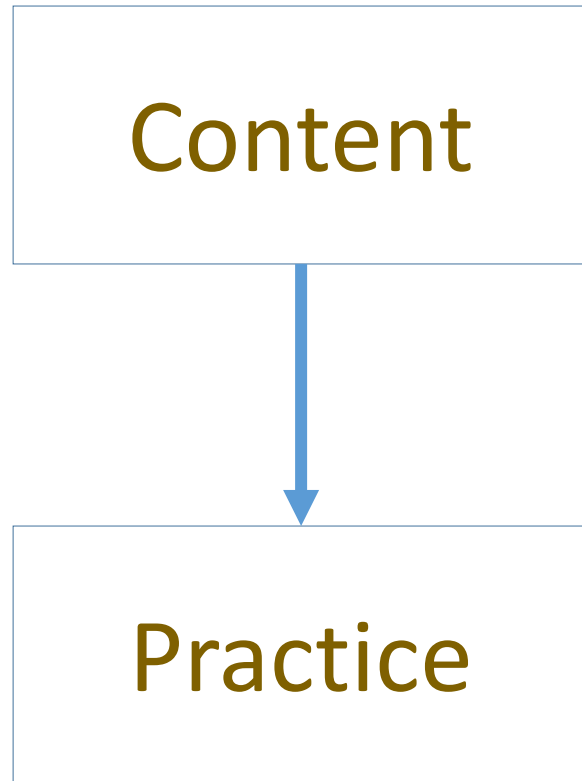
Content

Two Approaches…

Defines an ideal state

Content

↓

Practice

TEST

Person tests you

Defines a desired state

Practice

↓

Content

TRY

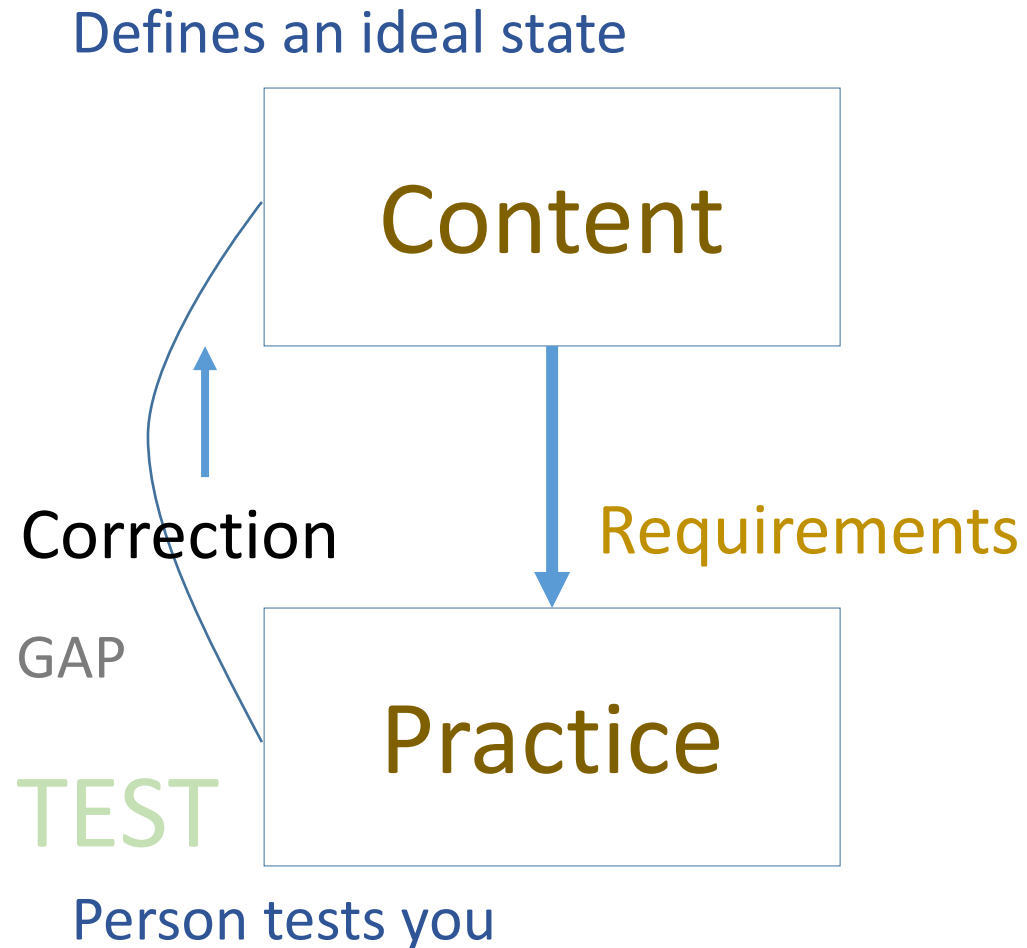Person helps you

Two Approaches…

Defines an ideal state

Defines a desired state

Content

Practice

Correction

Iteration

GAP

Opport-unity

TEST

TRY

Practice

Content

Person tests you

Person helps you

Library

Defines an ideal state

Content

Correction | Requirements

GAP

TEST

Practice

Person tests you

Environment

Defines a desired state

Practice

Affordances | Iteration

Opport-unity

TRY

Content

Person helps you
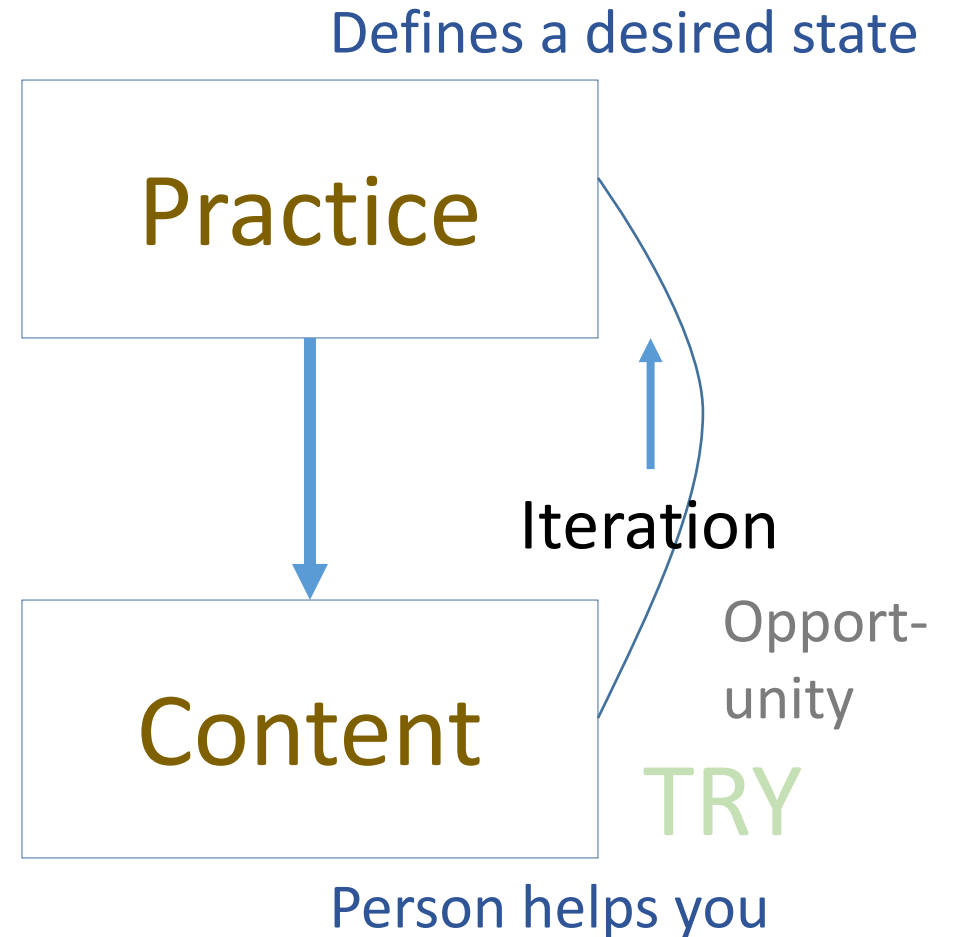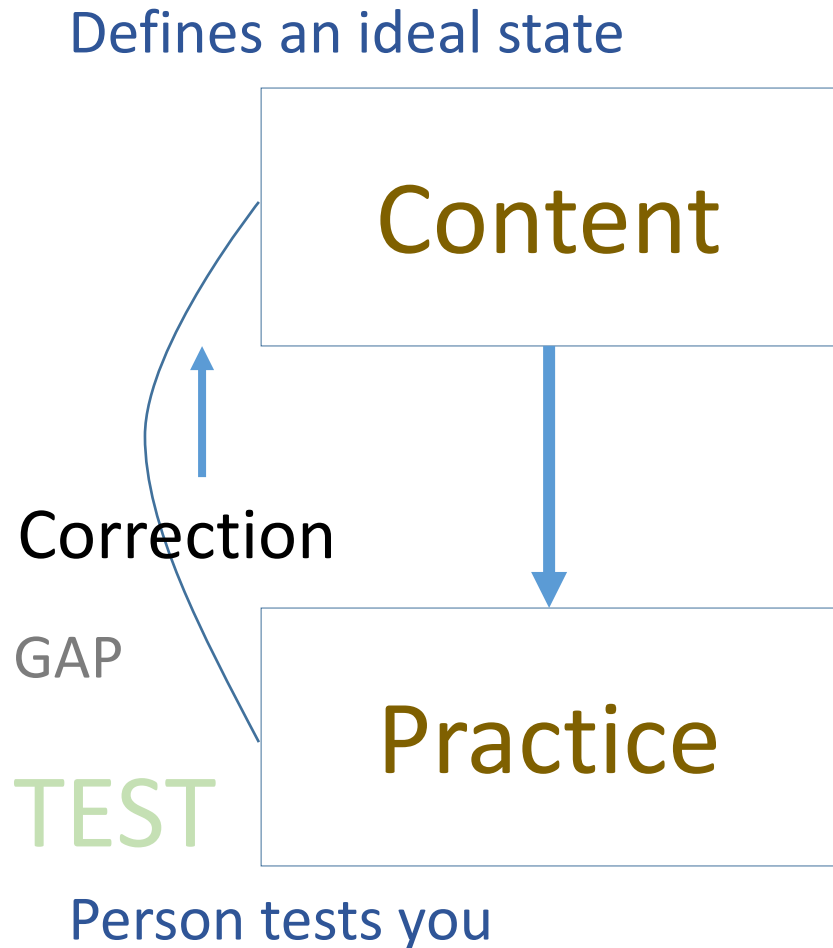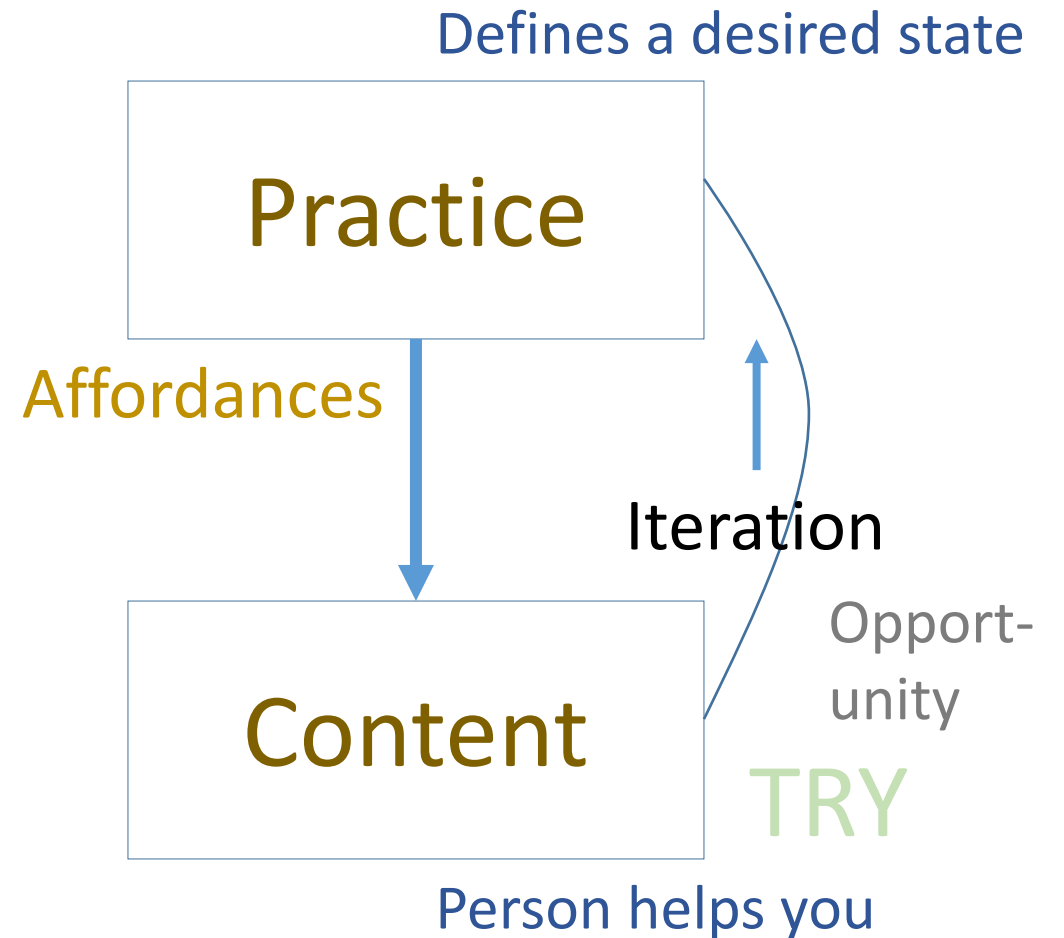
Personalized
We do for you

Defines an ideal state

Content

Correction

Requirements

GAP

TEST

Practice

Person tests you
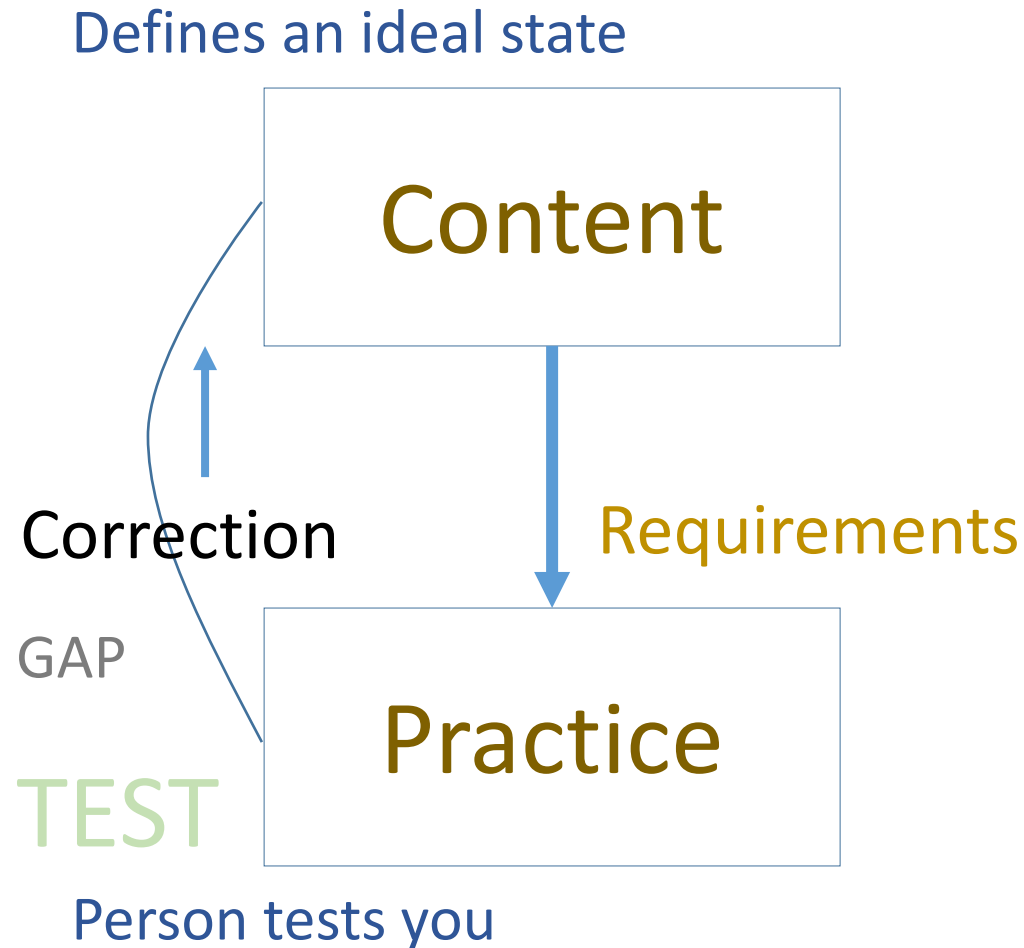
Personal
You do for yourself

Defines a desired state

Practice

Affordances

Iteration

Content

Opport-unity

TRY
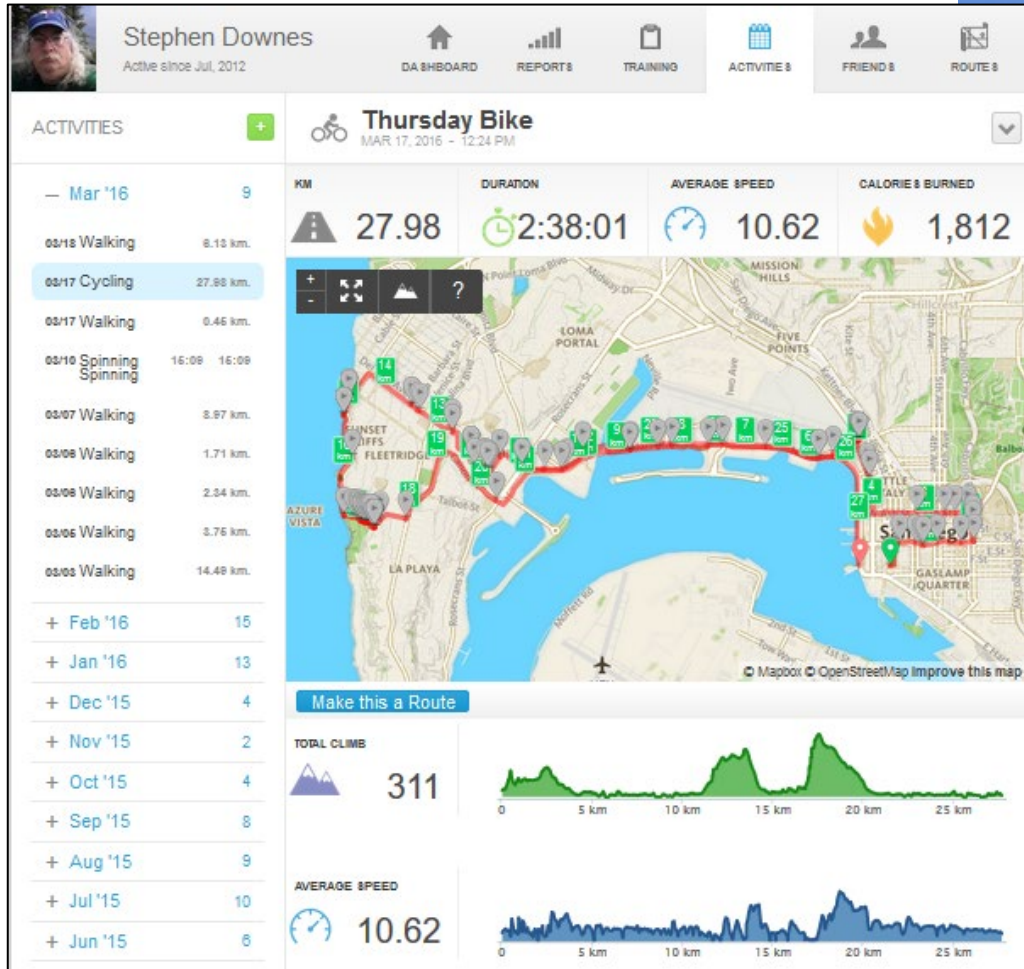
Person helps you
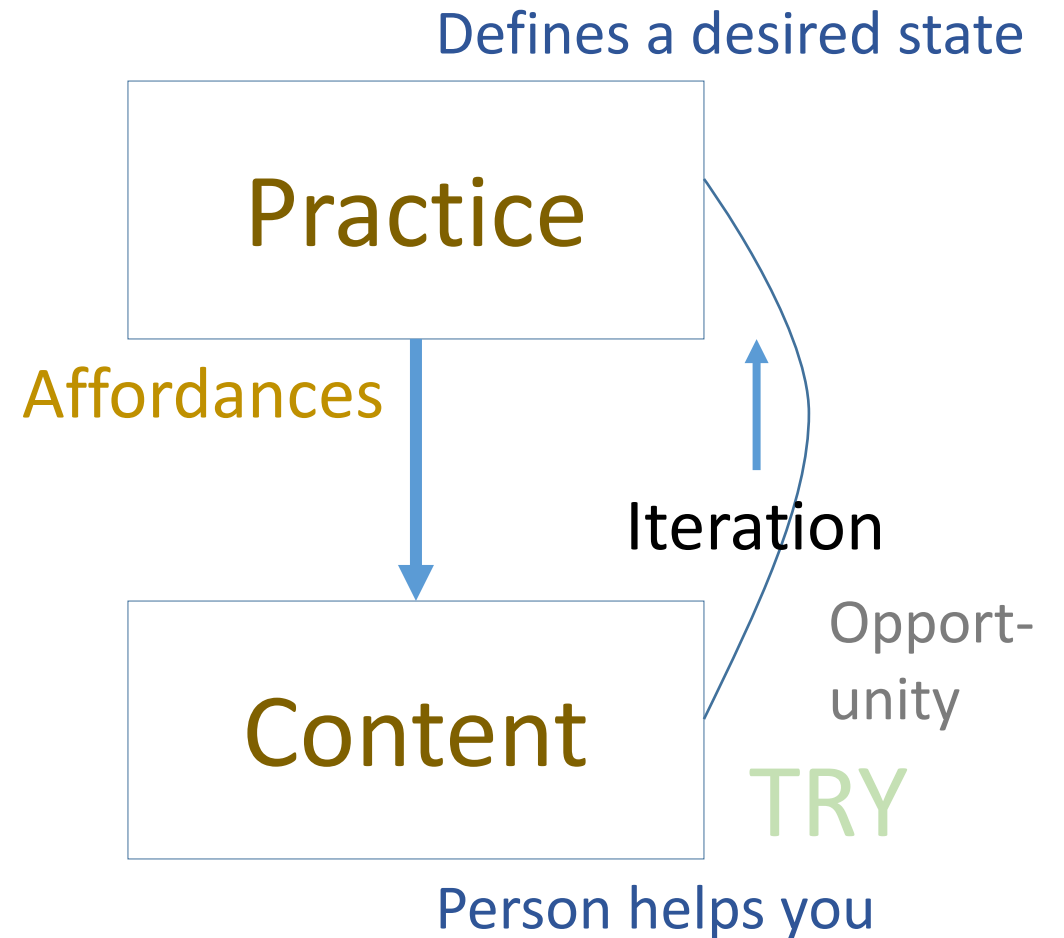
Personal vs. Personalized

- Compare between:
  - Personalized health care (something the National Health Service or Health Management Organization provides)
  - Personal health care (something you do for yourself)
- Personal goals versus institutional goals
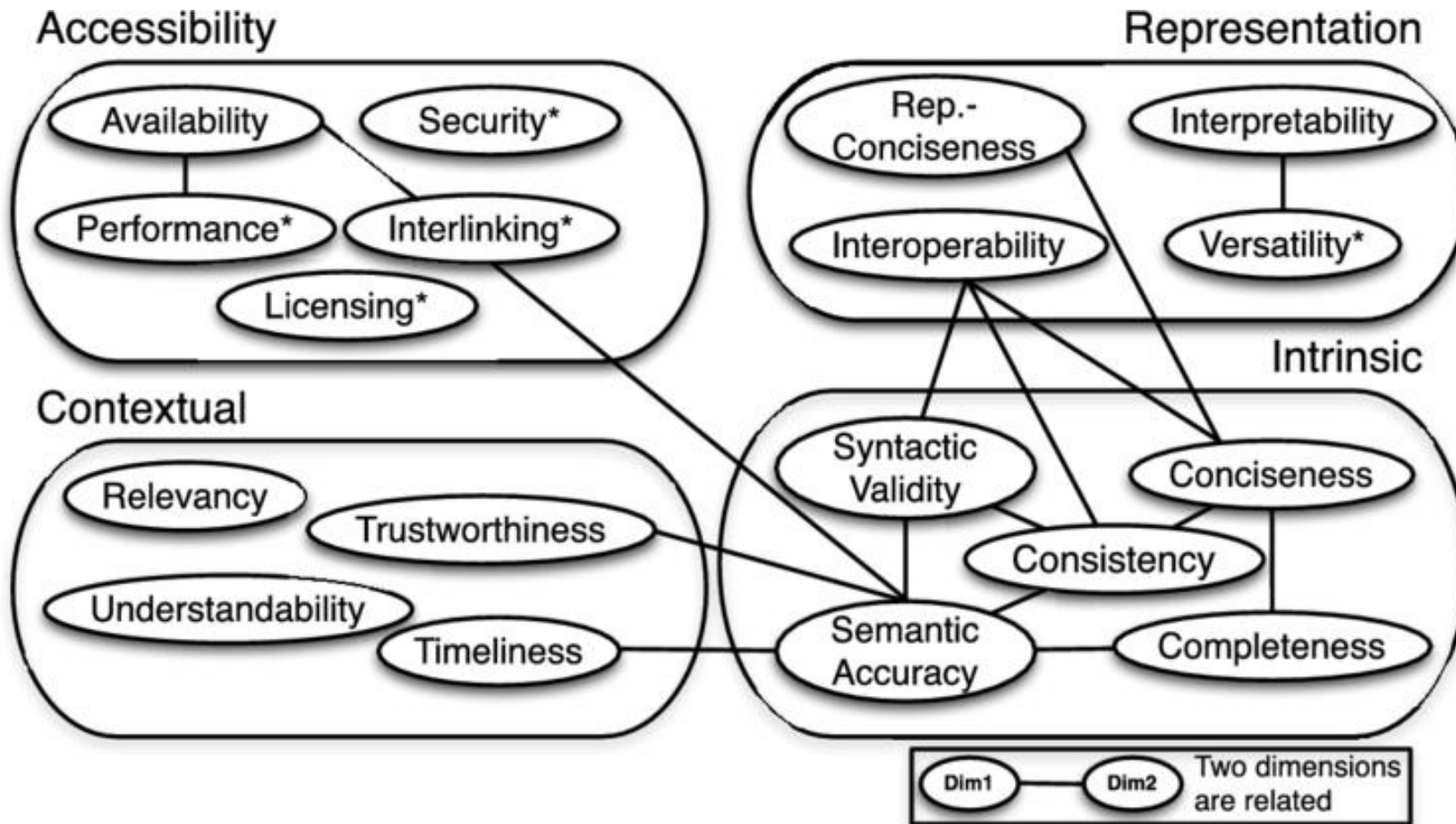- Practice versus content

Exploring, not Following

The New Model of Work and Learning

- Sharing - create linked documents, data, and objects within a distributed network

- Contributing - employ social networking applications of the Web to facilitate group communication

- Co-creating - work through networks that facilitate cooperative group work toward common goals

    (Dutton, p. 12)

What does quality look like in student work?

Zaveri, Amrapalia; Rula, Anisab; Maurino, Andreab; Pietrobon, Ricardoc; Lehmann, Jensa; Auer, Sörend. 2016. A systematic literature review and conceptual framework. Ios Press. http://content.iospress.com/articles/semantic-web/sw175

Personal Learning – The Concept

Personal Learning Record

OERs

Portfolio, artifacts and evidence

Activity Record - LRS

Badges, certificates, credentials, competencies

PLR
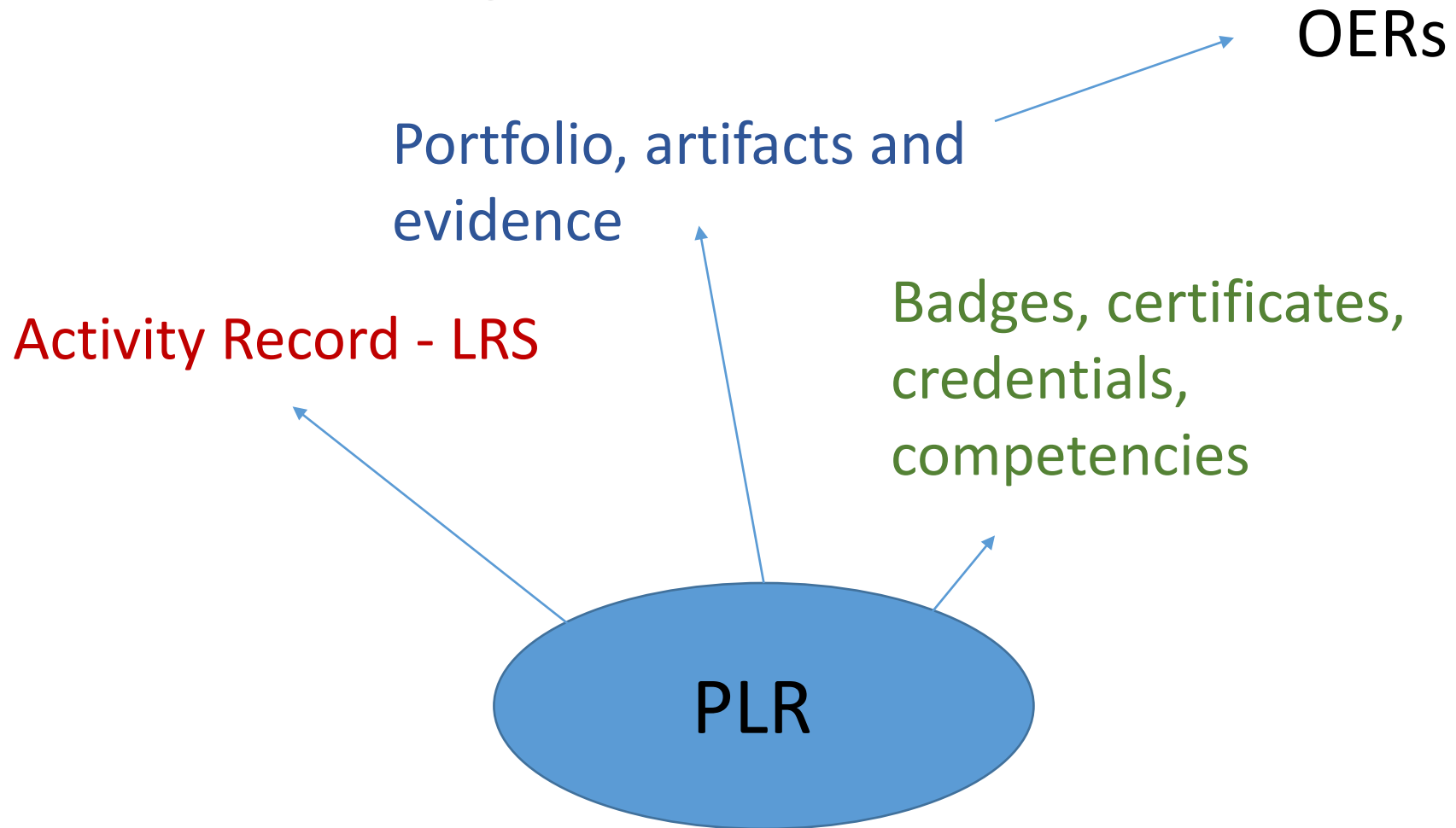
Everything is Built Around the Personal Learning Record

This is a *new* type of data – we call it the *personal graph*.

Each person has their own *private* personal graph.

Me

The PLR contains all a person's learning records, including:
- certificates, badges and credentials
- activity records, test results, scores
- Assignments, papers, drawings, things they create

Network-Based Quality Assessment

Figure 4: Sample images from the LIVE In the Wild Image Quality Challenge Database.

Gibson, D. (2003). Network-based assessment in education. *Contemporary Issues in Technology and Teacher Education* [Online serial], *3*(3). Retrieved from http://www.citejournal.org/volume-3/issue-3-03/general/network-based-assessment-in-education
S. Bianco, L. Celona, P. Napoletano, R. Schettini. (2016) On the Use of Deep Learning for Blind Image Quality Assessment. arXiv:1602.05531v3.