Disruptive Change in Higher Education

EDUCAUSE 2012



Unique time for change in Higher Education

Historically significant shift in the *missions* of Higher Ed

Fundamental change in base technologies underway

Changing *funding model* creating massive downward pressure on spending

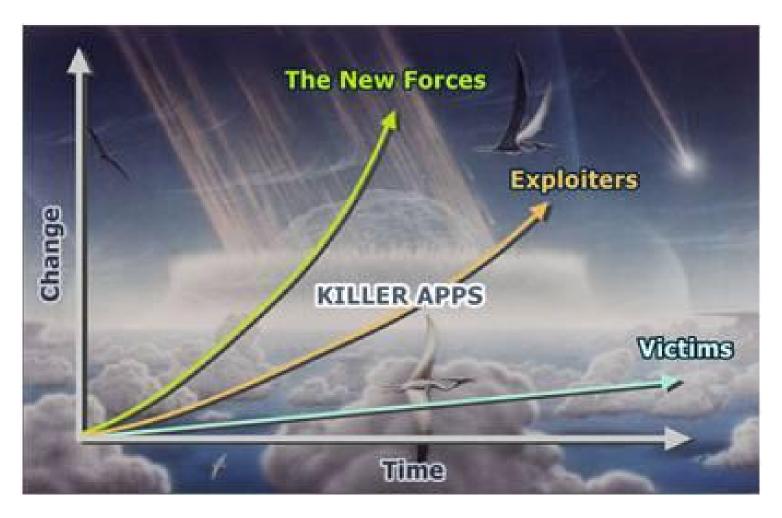
THE CHANGE IS REALLY BIG

Current Changes



Previous Changes

IT'S NOT OPTIONAL



From The Laws of Disruption, Larry Downes, 2009

YOU CAN HELP LEAD YOUR ORGANIZATION THROUGH IT



"The mobile internet is going to change more lives, create more wealth, destroy more business, and upend more political systems than any force in history."

-- The Fifth Wave, Marcus/Hemingway, 2012

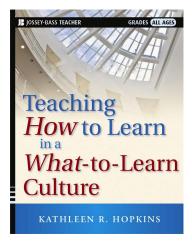


Changing Teaching / Learning

Students learn:



Collaboratively



How To learn



At their own place and time



Throughout their lives



Changing Research

The Big Data Threshold

Orders of Magnitude Speed Improvements

Move from Hypothesis to Patterns

Shift in the Value of Data Vs. Published Research

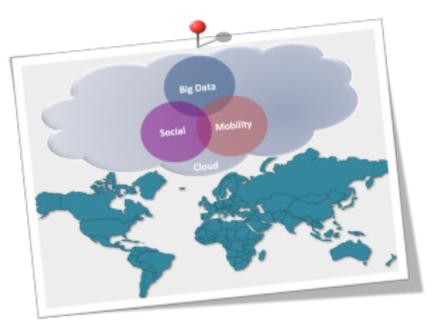
Higher Education Impacts

- Institutions can no longer push from the top down
- Organizational loss of control
- Organizational loss of predictability
- Students are driving the train

Technology Disruption

The "Big 5" immediate IT trends:

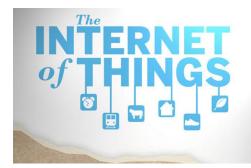
- Mobile Computing
- Social Networking and Collaboration
- Cloud Computing
- Big Data
- Consumerization



Mobile Computing

Both Gartner and Microsoft predict that tablets will be outselling desktops within a year.

Gartner calls it the "Internet of Everything"



- 50% of Internet connections are things
- 15 billion permanently connected things
- 50+ billion intermittently connected

"Work is what you do, not where you are"
The "Always On" Society

Cloud Computing

Any organization (or individual) can have world-class computing infrastructure, platforms, and services.



Internal IT departments are no longer monopolies - they are now competing with the best in the market.

"It's like Lego for grown-ups. Only better."

Big Data isn't about raw storage

"Datasets whose size is beyond the ability of typical database tools to capture, store, manage, and analyze."

For \$600 one can "buy a disk drive that can store all of the world's music."



Big Data is disruptive

By 2015, big data demand will generate 1 million jobs in the Global 1000.

"The single corporate data warehouse is dead"



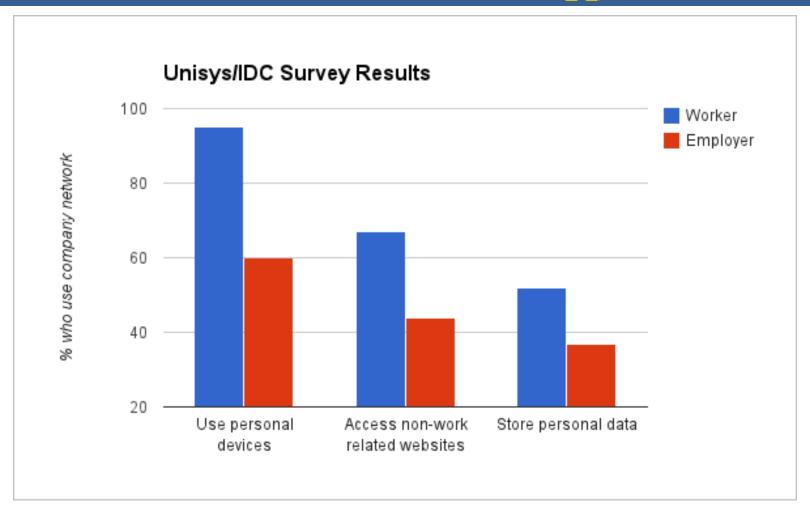
Consumerization (i.e. BYOD)

New technology is emerging first in the consumer market

Users are no longer beholden to just those services offered by internal IT departments



The Democratization of Innovation

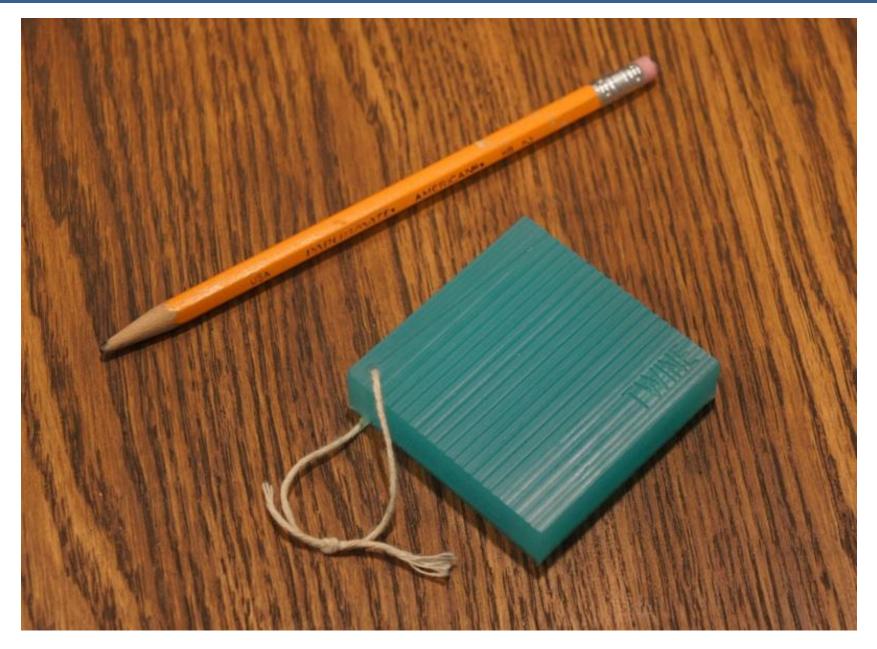


70% of employers want to buy standardized technologies for users.

Technology Impacts

- IT departments can no longer push from the top down
- Organizational loss of control
- Organizational loss of predictability
- Users are driving the train







Enterprise Architecture Challenge

Help lead our organizations through these disruptive changes

