

Trying to predict the future is like trying to drive down a country road at night with no lights while looking out the back window.

Peter Drucker

The rate of change is not going to slow down anytime soon. If anything, competition in most industries will probably speed up even more in the next few decades.

John Kotter, Harvard



Two Ways to Future Proof Your Institution





Three Ways to Future Proof Your Institution



A culture's natural state is status quo.

Bureaucracies in particular crave predictability, stability, and control.

Four Shifting Plates in the US

Wealth Distribution

Declining Birth Rates

Growing Ideological Divide

Pace of Learning in Society



Can We Afford Not to Change Given the Speed of Technological Advances



What were you doing 10 - 15 years ago?

What technologies were you using?



Here is what you were **NOT** doing:

Listening to music on your iPod

Googling anything

Texting someone

Reading your email or taking a picture on your smart phone

Finding directions through GPS

Asking Siri and Alexa questions like:

do you love me?





Three Waves of the Internet

Web 1.0 Content & Information

Southwest Airlines Home Gate

The Home of Southwest Airlines on the World Wide Web

1997

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Passengers

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0 Seniors Age 65+

08/13/2017

08/14/2017

2017

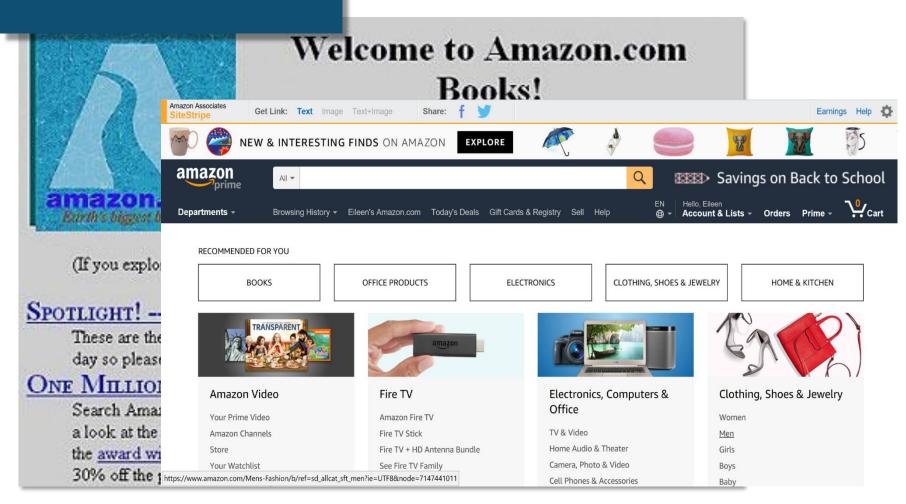
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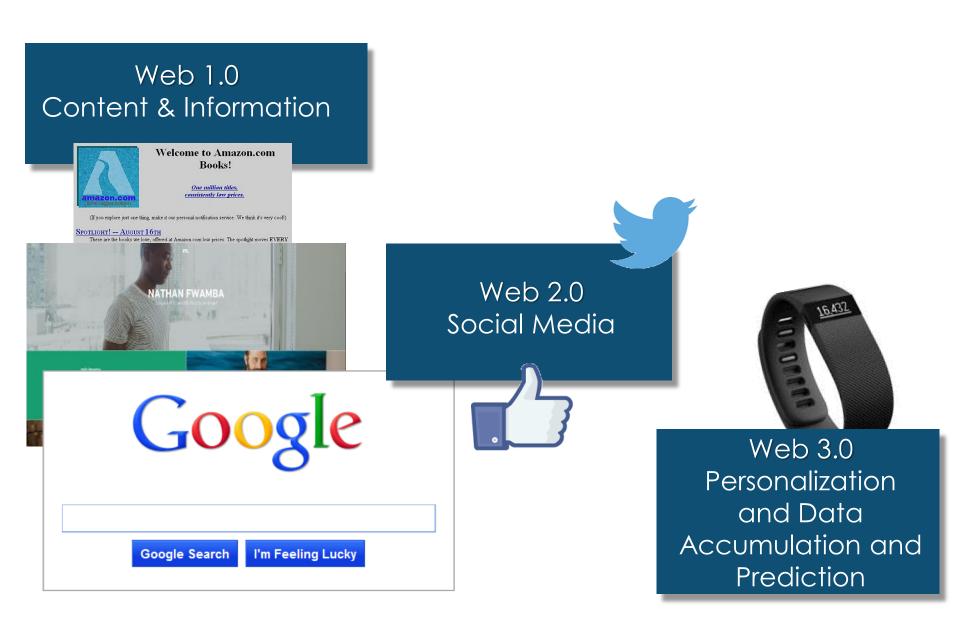


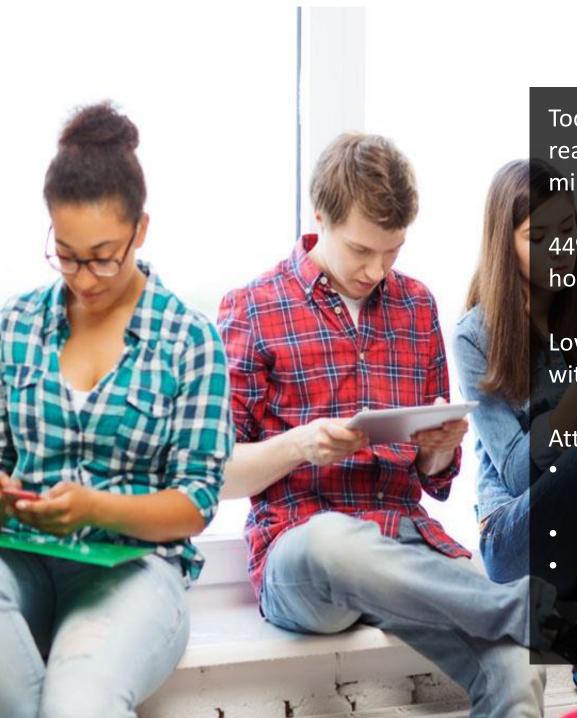
Three Waves of the Internet

Web 1.0 Content & Information



Three Waves of the Internet





Today's 18-25 year-old students reach for a smart device every 7 minutes

44% check in on social media hourly

Low to no tolerance for being without digital resources

Attention span:

- 7-10 minutes in the classroom
- 8 seconds online
- 2 seconds to decide the value of a website when they are searching





Google Search

ch I'm Feeling Lucky



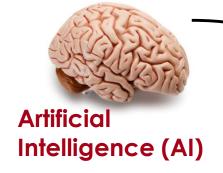




BIG DATA

Now What?





Better Predictive Abilities

Big Data

Greater Capacity to Store Large Quantities of Data Computer Learning



Next Generation Robotics







Examples of the Impact of Artificial Intelligence

Amazon

Learns and predicts your preferences

Plans to ship products to us before we even know we need them.

Google

Has a tremendous amount of data on our preferences through our search history

Netflix

Analyzes billions of records to suggest films that you might like based on your previous reactions and choices of films.

Banking

Fraud detection

Nest, Siri, and Alexa – most technologies are collecting data on us.



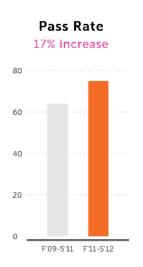
Arizona State University

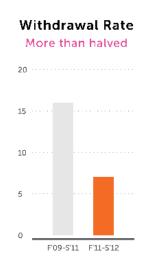
When Arizona State University started using Knewton-powered developmental math courses, pass rates rose by 17%, course withdrawals dropped by 56%, and 45% of students finished four weeks early.

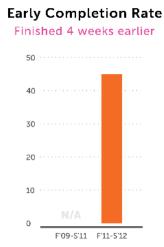
Source: ASU evaluation



Adaptive Learning





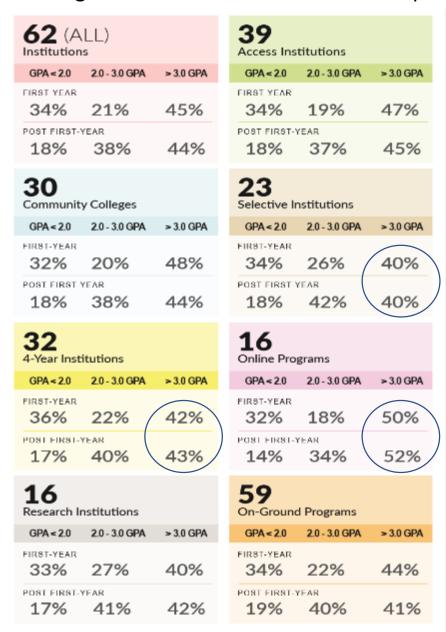




Problem: Low retention rates for Hispanic men

Civitas: Low retention rates for Hispanic men who are from four major zip codes and take college Algebra in their first semester.

GPA Findings: First Year and Post First Year Departure



Better Decision Making

Changing Workforce Demands

A recent study examined the probability of computerization for 702 occupations and found that 47% of workers in America had jobs at high risk of potential automation. The Economist, Frey and Obsorne (2013)



Changing Workforce Demands

"73 percent of the time for which humans are now paid...is spent in activities that could be automated with existing technology." Estlund, 2018



Changing Workforce Demands

Futurists estimate that up to 85 percent of the jobs that will exist in 2030 haven't been invented yet.

Institute for the Future, The Next Era of Human | Machine Partnerships: Emerging Technologies' Impact on Society and Work in 2030, (2017)







We are preparing students for a world we can't imagine!

Irrelevance happens when the speed of change outside an organization is greater than speed of change inside an organization.



Two Ways to Future Proof Your Institution





Approach change with a dual transformation mindset



Transformation A: Repositioning an institution to maximize its resilience by challenging long-held assumptions and improving its agility



Transformation B: Creating new growth engines by creating entities focused on accelerating new ideas and initiatives



Capabilities link: Taking advantage of difficult-toreplicate assets

Approach change with a dual transformation mindset

At your tables,

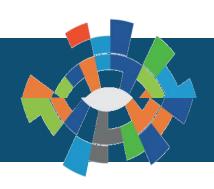
Do you need two separate entities to create both types of change?

Is it better to try and change the existing culture or to create a new one?

Is it vital for consistency of brand for academic decisions to be made by the same faculty governing board?



https://www.youtube.com/watch?v=MFzDaBzBlL0



Transformation A: Repositioning an institution to maximize its resilience by challenging long-held assumptions and improving its agility

Extremely difficult to challenge long-held assumptions because they become "sacred" and the "best way to do things" - "If it's not broken don't fix it."

Quakers ask a question when in a disagreement – are you arguing out of preference or conviction? We often make most things convictions when they are really preferences.

Also, hard to challenge long-held assumptions because they are taken for granted.



Transformation A: Repositioning an institution to maximize its resilience by challenging long-held assumptions and improving its agility

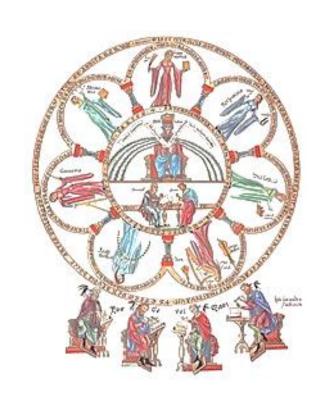
To future-proof our institutions we must go beyond surface technical changes to explore our deeply held assumptions.

Assumptions that guide the liberal arts curriculum.

The liberal arts and professional programs are incompatible.

Incoming students should primarily take general education requirements their first two years.

General education is best taught in single three – unit classes by a faculty member with expertise in that discipline.



Assumptions that guide the liberal arts curriculum.

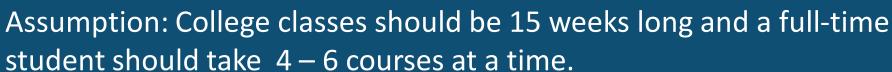
What if?

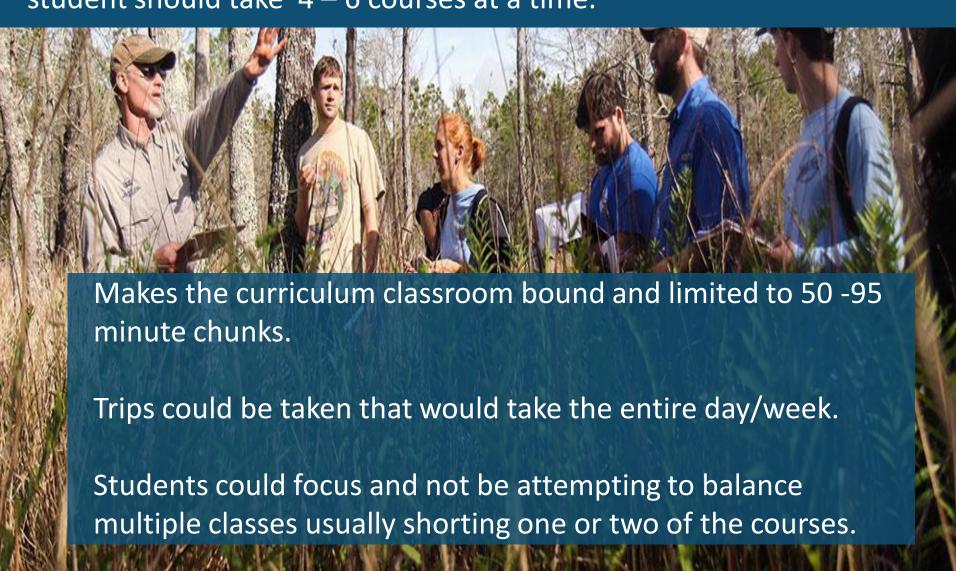
Two classes were team taught by faculty from various disciplines.

Introduction to Digital Media and Ethics of Technology "What is truth online?"

Introduction to 21st Century Criminal Justice and the History of Justice in American and Its Relationship to the Christian Faith

We desperately need greater coherence in our general education requirements.





Faculty loads should be determined primarily by the number of courses taught.

Most faculty teach four classes a semester.

Some teach classes with 30 – 50 students.

Others teach seminars with 10-12 students.

Some teach first-year high risk classes who don't know the first thing about being successful in class.

Others teach senior seminars with students who have found ways to be success in college.

Is this fair? Is this a good business model?

Faculty loads should be determined primarily by the number of courses taught.

Many faculty are on 12-month salaries without any summer responsibilities. The rationale is that we get paid less. Yet, that is not often true when you are competing for qualified PhD's. The market drives salaries not work load.

Research hours and sabbaticals are often given with little accountability for productivity.

Is this fair? Is this a good business model?

At your table

Discuss the assumptions, beliefs, and values that shape your institution that should be reconsidered given our changing world?

Approach change with a dual transformation mindset



Transformation A: Repositioning an institution to maximize its resilience by challenging long-held assumptions and improving its agility



Transformation B: Creating new growth engines by creating entities focused on accelerating new ideas and initiatives



Capabilities link: Taking advantage of difficult-toreplicate assets

Transformation B: Creating new growth engines by creating entities focused on accelerating new ideas and initiatives



Transformation B Requires

New spaces, resources, and attention given to innovative initiatives.

Point Loma – went through a process of cutting programs, etc. to free up money for innovation.

Gain a start up mentality

Make experimentation and piloting the norm

Empowering employees to take action – cut down on the red tape and lack of trust

Fostering creativity

Making decisions quickly

Determine the best structure and staffing for transformation B

25% of campuses now have some form of Chief Innovation Officers

Deep innovation – first and foremost demands courageous, curious leaders.

Small groups

What can trustees do to encourage transformation A & B?

How Can boards Help With Transformation A and B Without Getting Into the Weeds?

Asking – why does it have to be this way?

Encourage risk-taking and experimentation

Stand behind your leader

Thanks for coming

