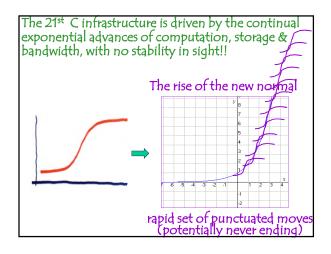
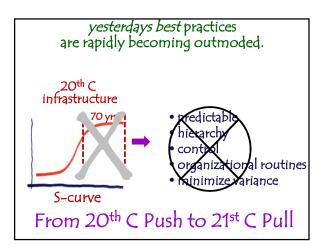


# This is the world we built our practices around.

Our management practices and the world we prepare(d) our students to thrive in..

#### The Big Shift Happened





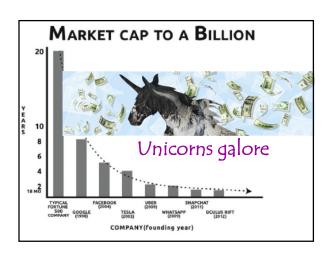
Today, the game is different.

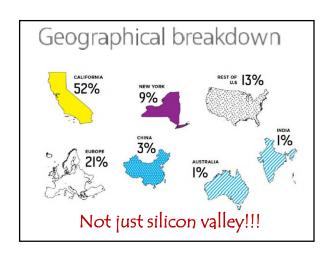
for

Corporations and how they work
Students and how they learn
Universities and how we teach

And the rate of change
won't be slowing down

what this means for business? HOW BUSINESS IS CHANGING





#### Rate of Market Growth

Time it took to reach 50 million users

Radio – 38 yrs
Television – 13 yrs
Internet – 4 yrs
Facebook – 3.5 yrs
Instagram – 6 months
Angry Birds – 35 days

The emerging world of 1000 fold increases
big data, cloud computing, mobile, social networks cognitive computing augmented reality iot

Now add the speed of product deployments

Speed of software deployments
(each deployment is viewed as an experiment)

DEPLOYMENTS AT
AMAZON.COM

Guess at the mean time between
worldwide deployments

Speed of software deployments (each deployment is viewed as an experiment) **DEPLOYMENTS AT** AMAZON.COM 11.6s 1,079 10,000 30,000 Mean time between Max number of Mean number of Max number of deployments (weekday) deployments in a single hour hosts simultaneously hosts simultaneously receiving a deployment receiving a deployment

in a world of increasingly rapid change,
the half life of a given stock/skill is
constantly shrinking
(perhaps down to five years for many)

Stocks ====> Flows
protecting participating in knowledge flows \*
creating new knowledge

And much of it is tacit

in a world of increasingly rapid change,
the half life of a given stock/skill is
constantly shrinking
(perhaps down to five years for many)

Stocks =====> Flows
protecting participating in knowledge flows \*

Scalable efficiency Scalable learning

what this means for education? HOW EDUCATION IS CHANGING

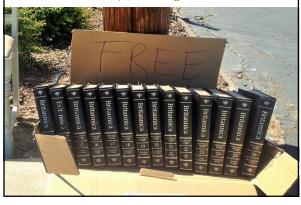
#### Too Big to Know: By david Weinberger (Jan, 2012)

We used to know how to know. We got our answers from books or experts. We'd nail down the facts and move on. We even had canons.

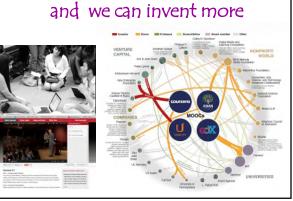
"But in the Internet age, knowledge has moved onto networks. There's more knowledge than ever, but it's different. Topics have no boundaries, and nobody agrees on anything." (and the context is fluid) "In the future, it seems, there will be no fixed canons of texts and no fixed epistemological boundaries between disciplines, only paths of inquiry, modes of integration, and moments of encounter."

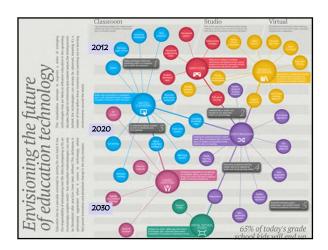
> Carla Hesse Professor of History UCBerkeley

### Disruptions galore.



### we have new tools and mechanism and we can invent more





First let's look at some informal models that might generalize to being hybrids with millennials in mind.









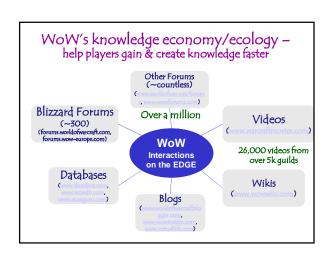
Some interesting precedents
to stimulate our imagination
around future schools of business.
Can we think more radically?
initially collected and analyzed
for designing the university in 2033

Shaolin Monks World of Warcraft Minerva

Ann Pendleton-Jullian







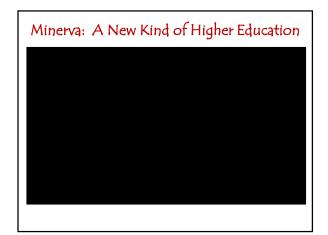
#### The Skills of a Guild Master

- Creates a vision and a set of values that attracts...
- Finds, evaluates and then recruits players that have a set of diverse skills and with fit with your norms.
- Creates a platform for apprenticeship newbies
- Orchestrates group strategy and governance
- Creates, sells and adheres to the governance principles for the guild and adjudicates disputes.



Wow – aren't these the fundamentals of leadership.





What is new (especially in USA)

#### Evolving a science of learning

focusing on habits of mind and related core principles and mechanisms and putting them into play systematically In a highly instrumented way. Stephen Kosslyn

# Stepping back how to look differently



#### Leadership skills for a white water world

A whitewater kayakers, skillfully reads the currents & disturbances of the <u>context</u> around him interprets the flows for what they reveal of what lies beneath the surface and leverages the flows for accelerated action.

# Given the relentless pace of change & disruptions.

Scalable learning & incrementalism may no longer suffice! Now, we must <u>also</u> be willing to <u>reframe</u> & <u>regrind</u> our conceptual lenses, often.



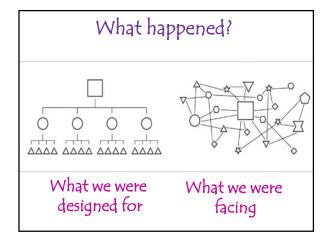
Innovation is hard but institutional innovation is really hard!

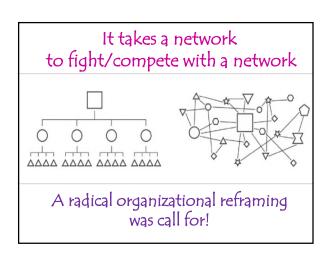
a dramatic example that opened my eyes JSOC in Iraq in 2003 was running 10 operations/month When McChrystal became its head

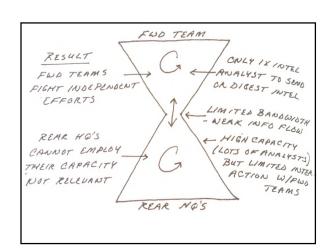


JSOC in Iraq in 2003 was running 10 operations/month
Two years later, he had radically transformed it to running 10 successful operations/night









(1) NEED TO RAPIDLY INCREASE BANDWINDTY

TO FROM FWD TEAMS - CONNECT

THEM TO REAR HO'S

(2) NEED TO REDISTRIBUTE INTEL

PLESONNEL TO BALANCE WORKLOAD

(3) NEED TO TIE FWD TEAMS + REAR

HO'S INTO A SINGLE FIGHT

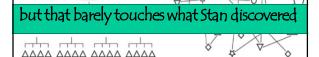
# shoulder to shoulder (analyst/operative)

Deep comingling of practices 
The joint absorption of tacit knowledge

Mechanism:
Blending Intelligence and Operations
through joint work on
"pattern-of-life" analysis

Shoulder to shoulder learning can be amazingly powerful for amplifying informal learning practices for a white water world.

#### It takes a network to fight/compete with a network



#### In McChrystal's words:

The organization as a rigidly reductionist mechanical beast is an endangered species. The speed and interconnected nature of the new world has rendered it too stupid and slow to survive.....

the speed and interdependence of our current environment means that what we cannot know has grown even faster than what we can comprehend...

"I began to view effective leadership in the new environment as more akin to gardening than to chess"

#### Chess Master To Gardener: The Leaders We Now Need

"the mental transition from heroic leader to humble gardener was not an easy one.

I needed to shift my focus from moving pieces on the board to shaping ... and tending to an ecosystem."

General McChrystal

# New lenses for the whitewater world

#### McChrystal understood

#### The world of complexity:

- that everything you do alters the system because of complex interdependencies
- that you cannot learn about the problem without action – without trying solutions
- that all problems occur in social contexts that usually overwhelm any technical complexities

#### Complicated # Complex

In essence – we have moved from the world of complicated systems to complex systems – densely interconnected & entangled

"No significant problem is an island to itself...
where the unintended consequences to an
action can often overwhelm the
intended consequences."

api

## THROUGH THE LENS OF COMPLEXITY Think Clouds, not Clocks

"...To understand a clock you can take it apart, its individual pieces and you study the pieces and then you can understand how a clock works. A cloud – you can't take apart a cloud. A cloud is a dynamic system. A cloud you can only study as a whole. "

#### Think Clouds, not Clocks

Karl Popper, the great philosopher, said all problems are either clouds or clocks..

One of the problems we have as a culture is we take clouds & pretend they are clocks . In an era of complexity & wicked problems we need to move from problem solving as an engineering approach

working

from an eco-systemic perspective.





With this kind of tool set

big data,
cloud computing,
mobile,
social networks
cognitive computing
Breaking frame and re-imagining
what might be possible
by us and by our students

is now our golden moment.

Chess Master To Gardener: The Leaders We Now Need.

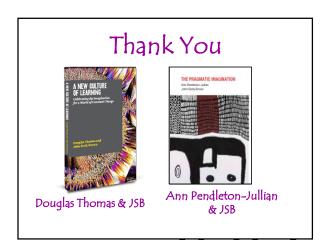
Chess Master To Gardener: The Leaders We Now Need.

But gardeners who are ecologists not just tenders of plants

Chess Master To Gardener: The Leaders We Now Need.

But gardeners who are ecologists not just tenders of plants

and the schools that need to scaffold the emergence of these leaders



#### THE END