

Professor Gilly Salmon

The Innovation landscape for Higher Education

4 ways of deploying digital technologies to enhance learning



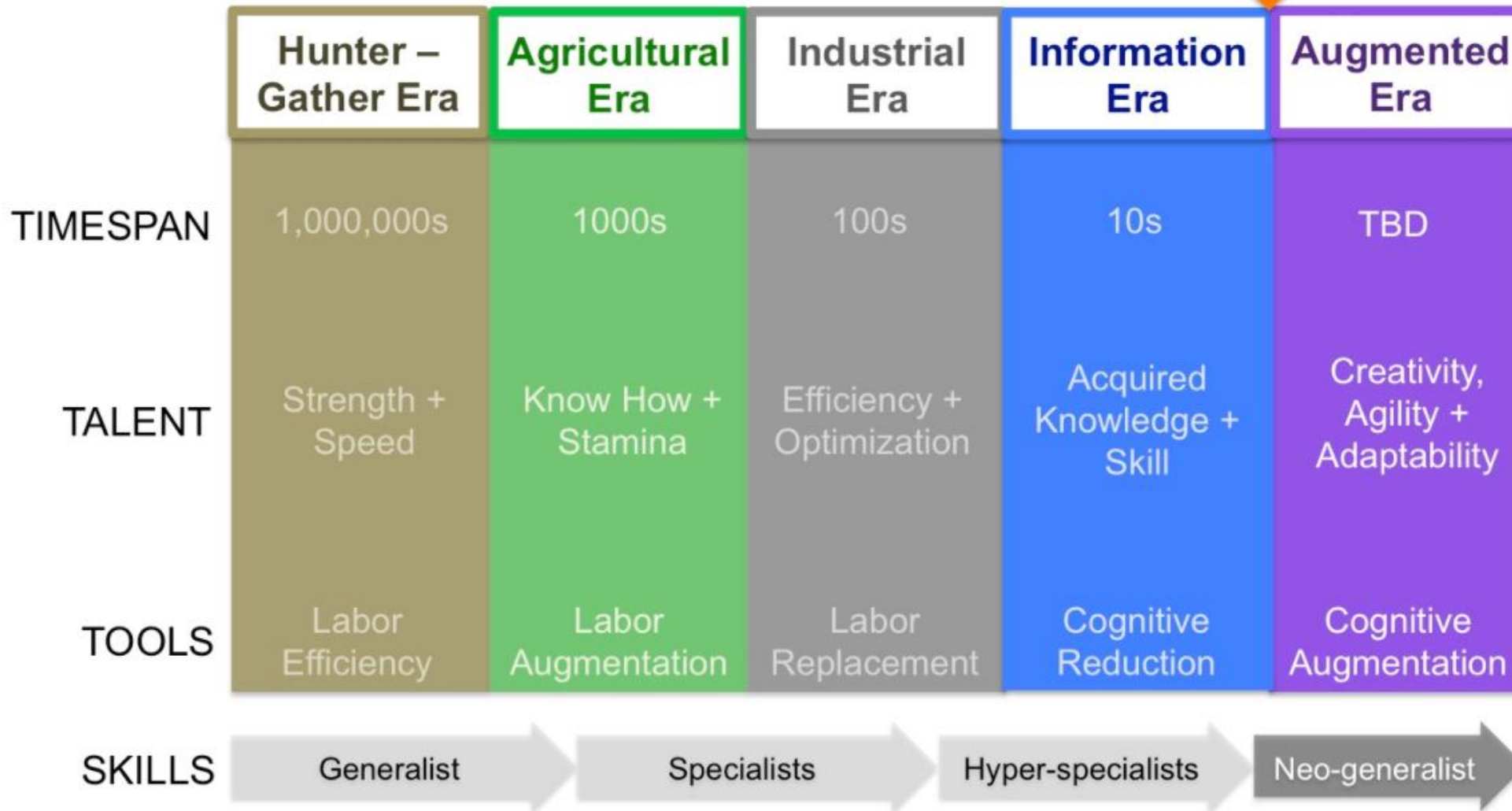
www.youtube.com/embed/ystdF6jN7hc

Now for the future

....LET'S LIVE AND LEAD FROM HERE ...



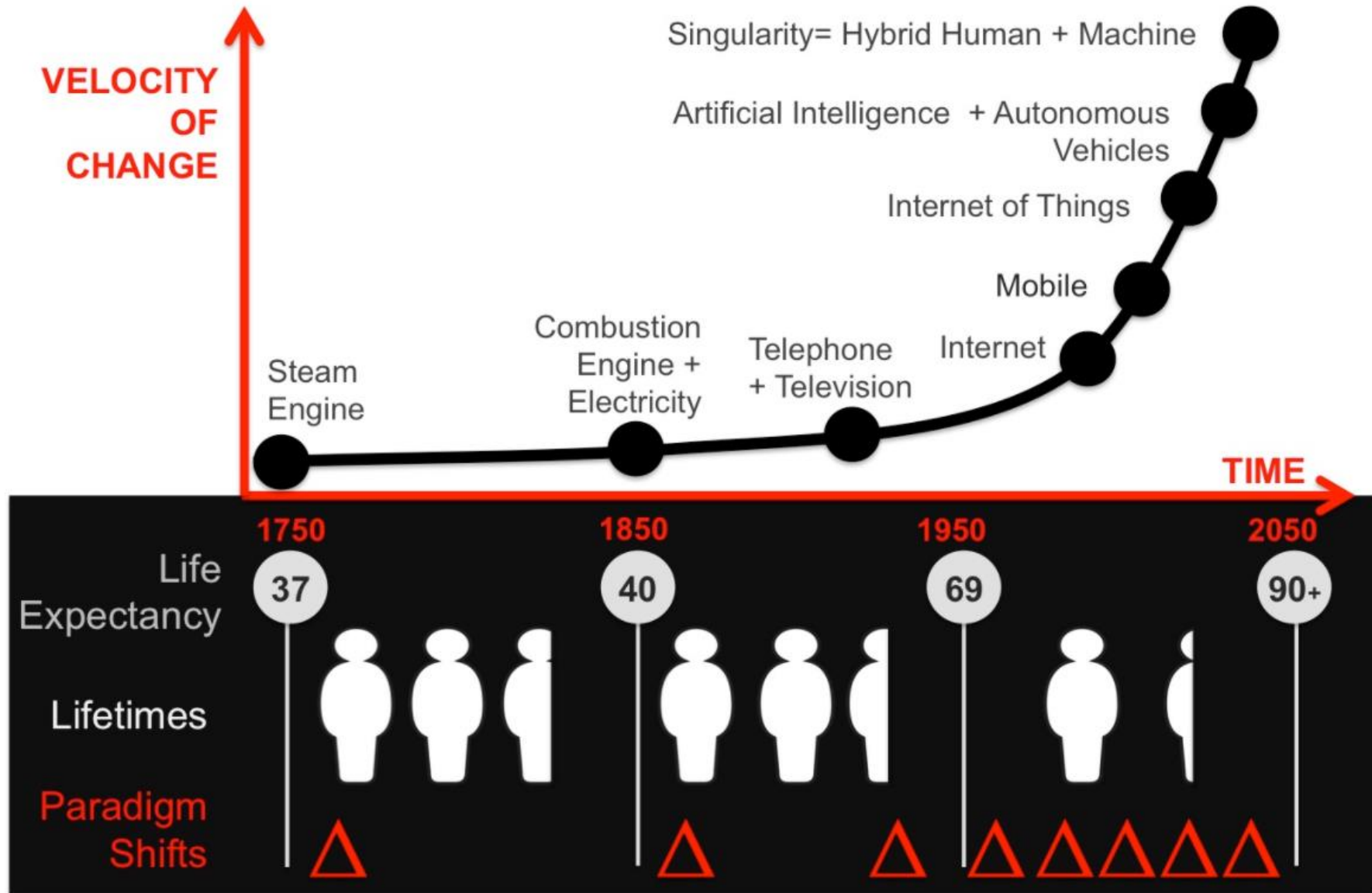
WE ARE HERE



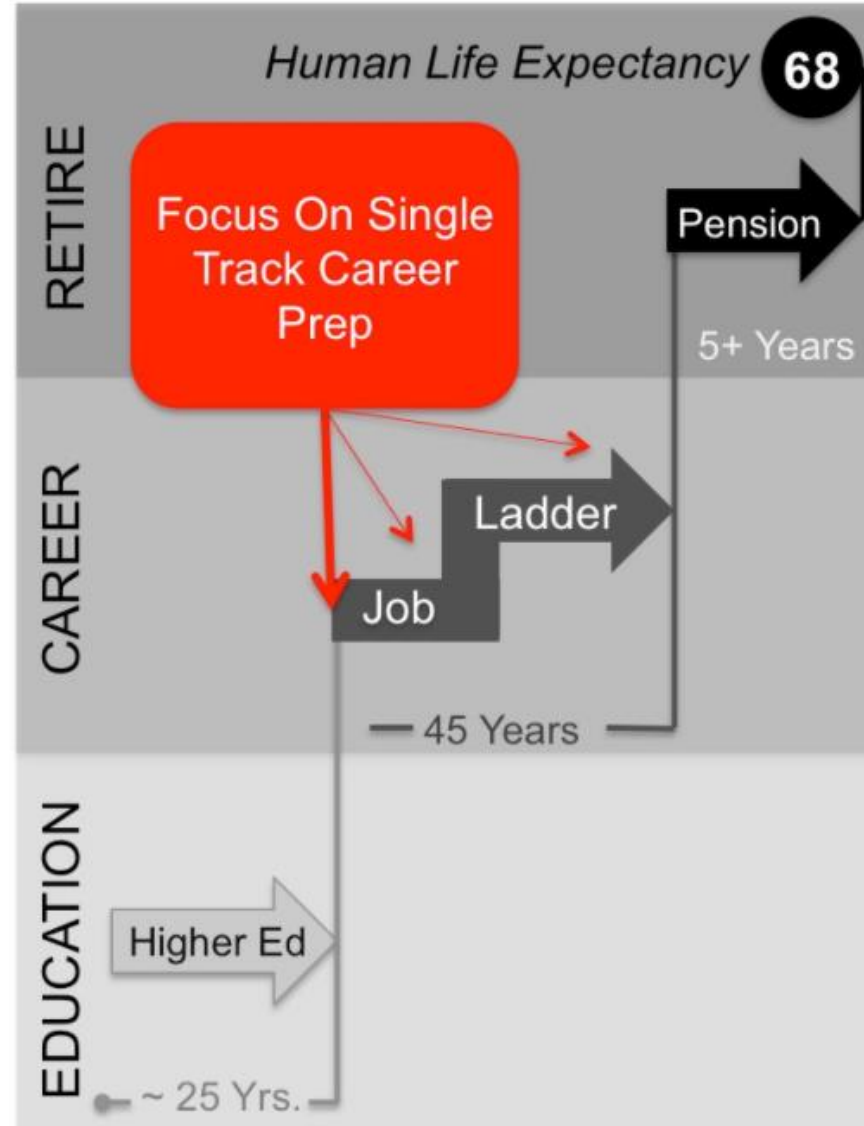
Credit: Augmented Era Concept CTO Autodesk Jeff Kowalski

@heathermcgowan

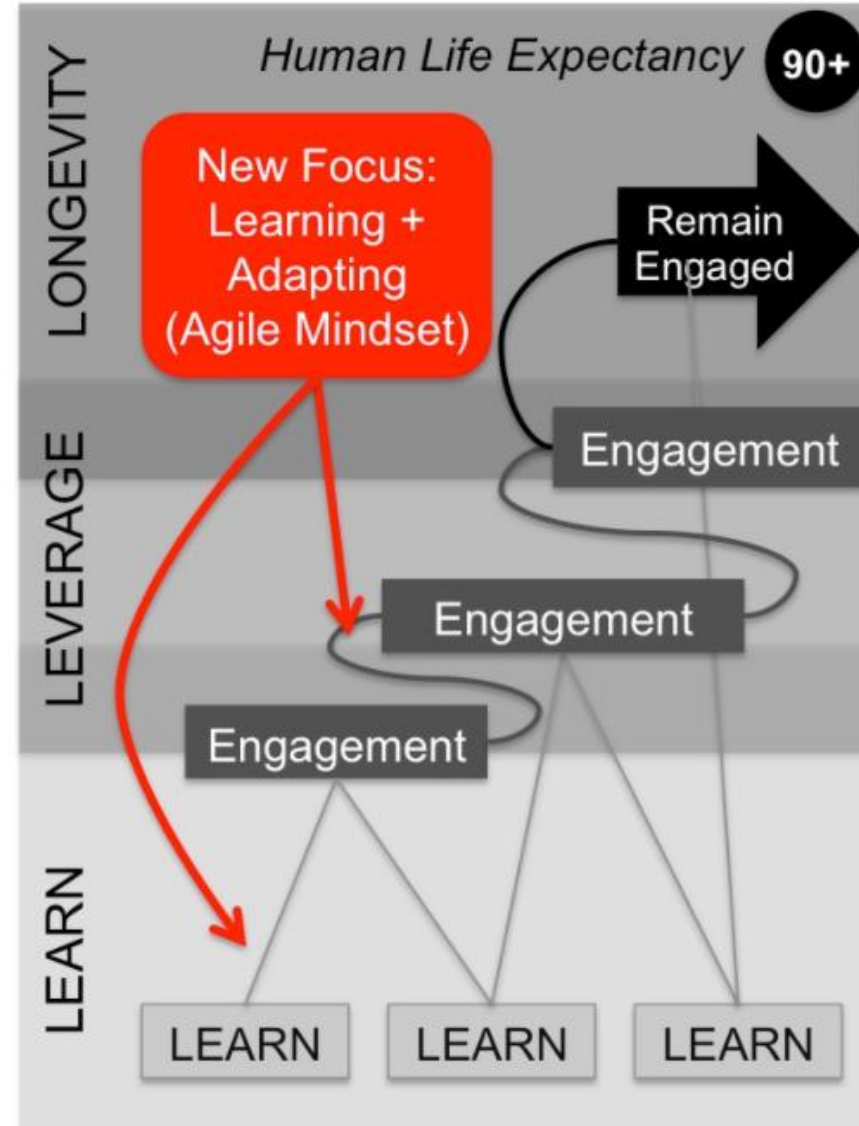
Velocity of Change Requires Adaptation



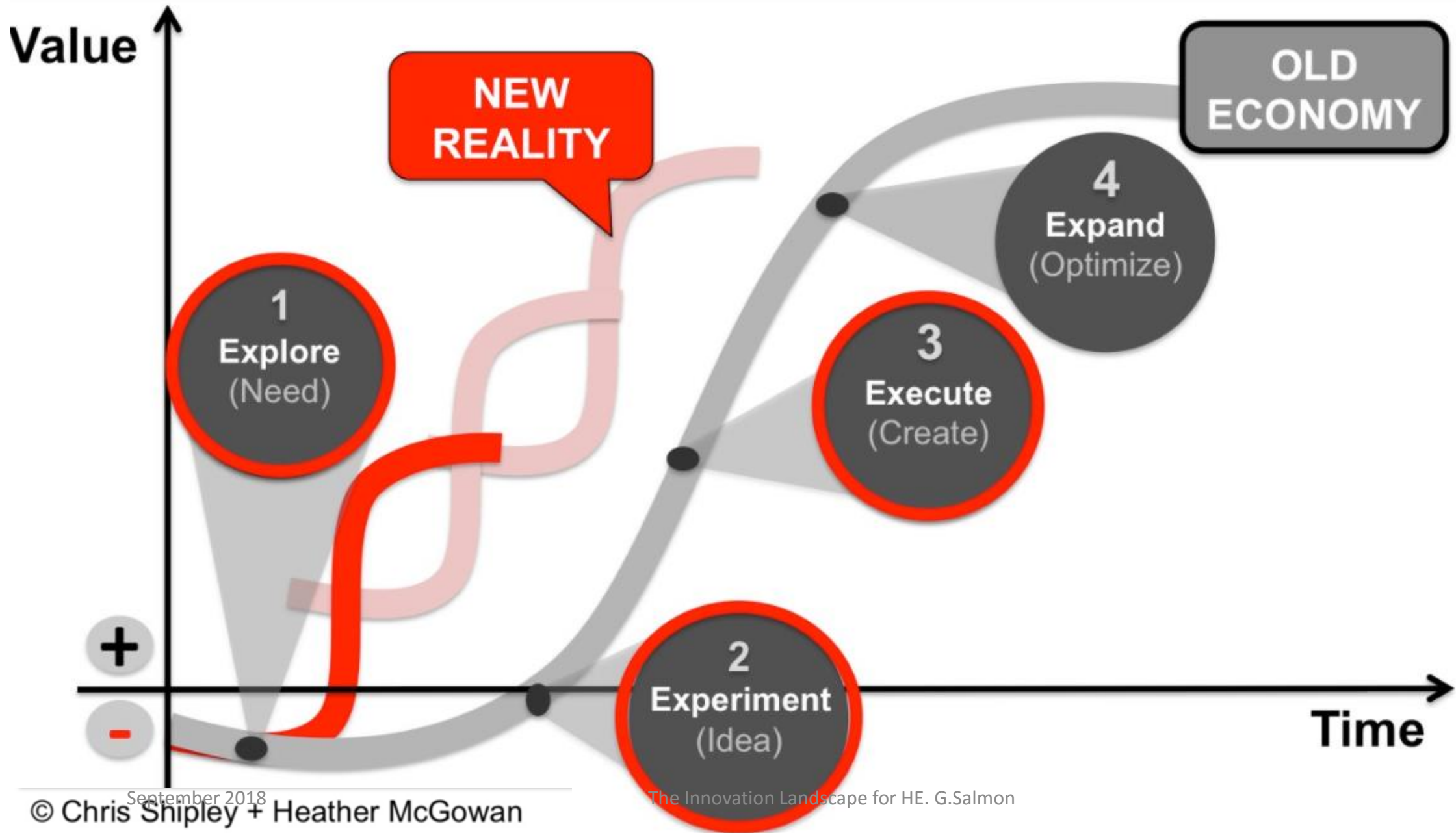
Old Paradigm: **EXPERTISE**



New Paradigm: **AGILITY**

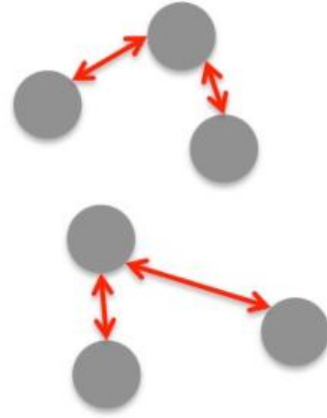


The Future of Work is Learning

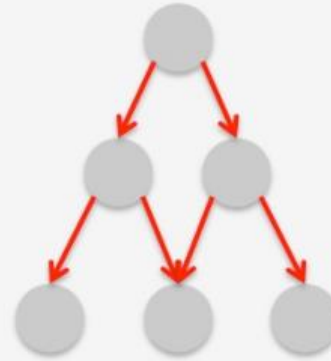




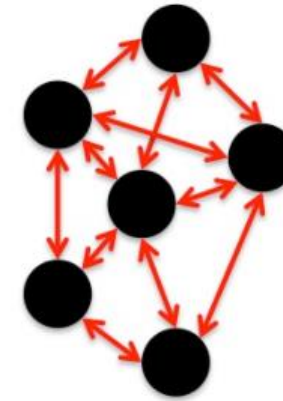
Do
Everything
Yourself



Learn A
Barter-able
Skill

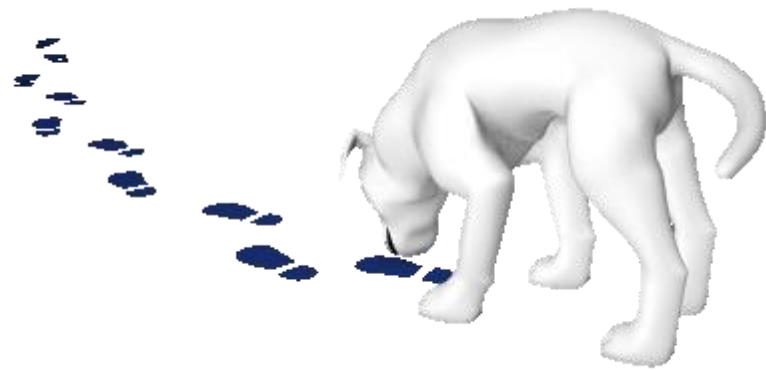


Hyper-Focus
On A
Market-able
Skill



Learn To
Learn,
Adapt +
Create New
Value

www.heathermcgowan.net/projects/





Introducing Education 1.0-3.0



A lecture at the University of Bologna in Italy in the mid-fourteenth century

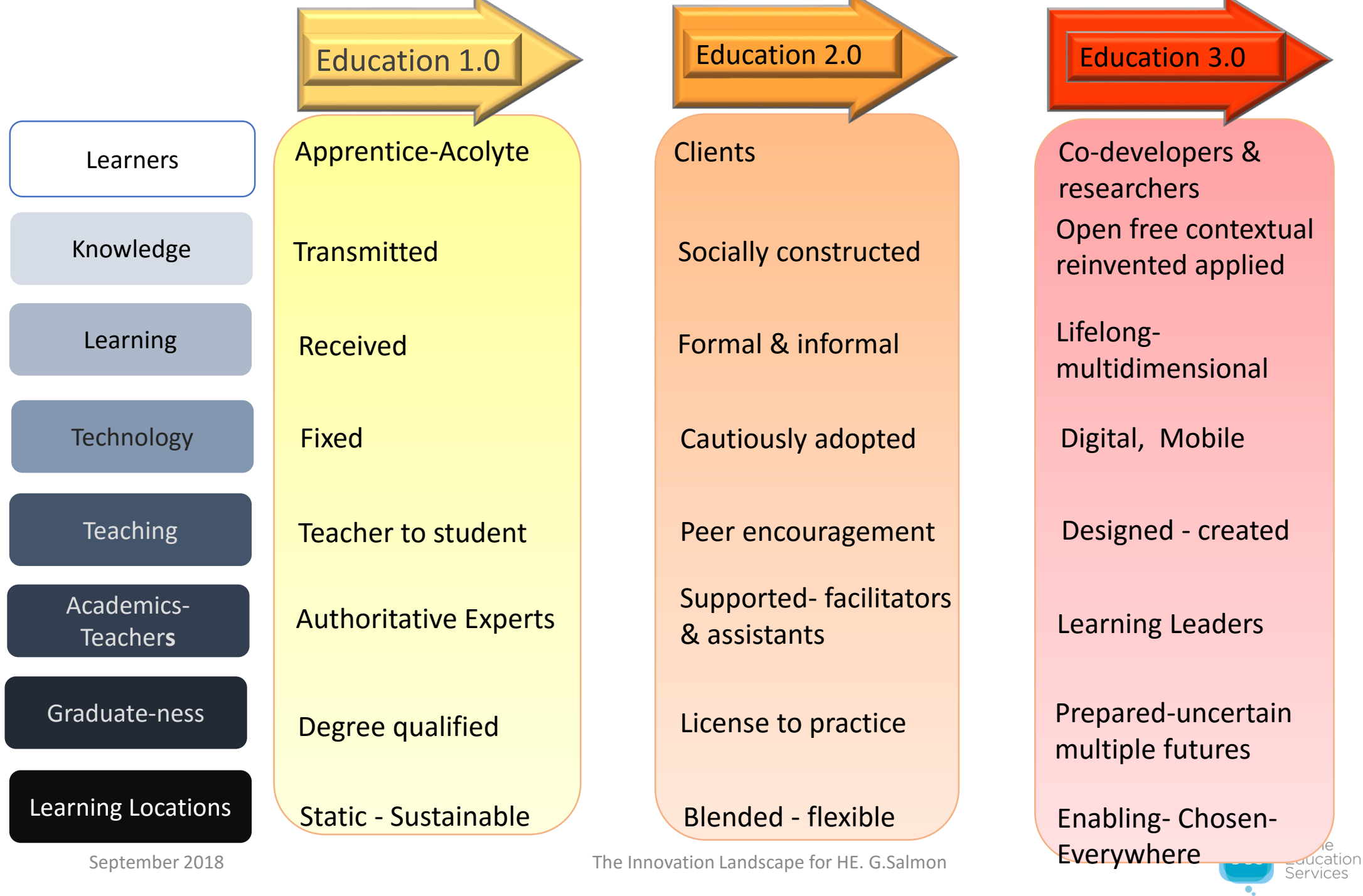


Ruins of Nalanda University
India 6-5th Century

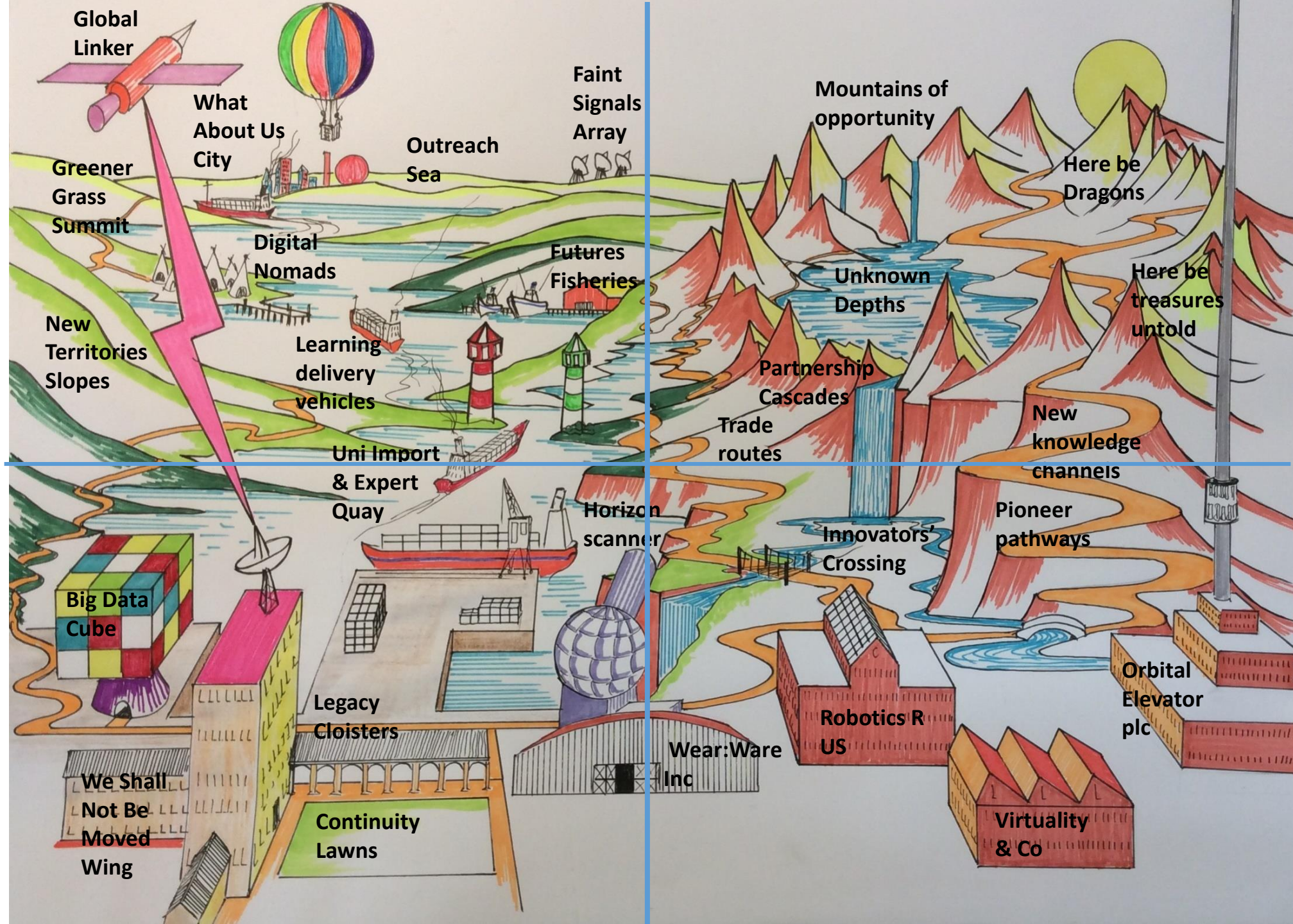


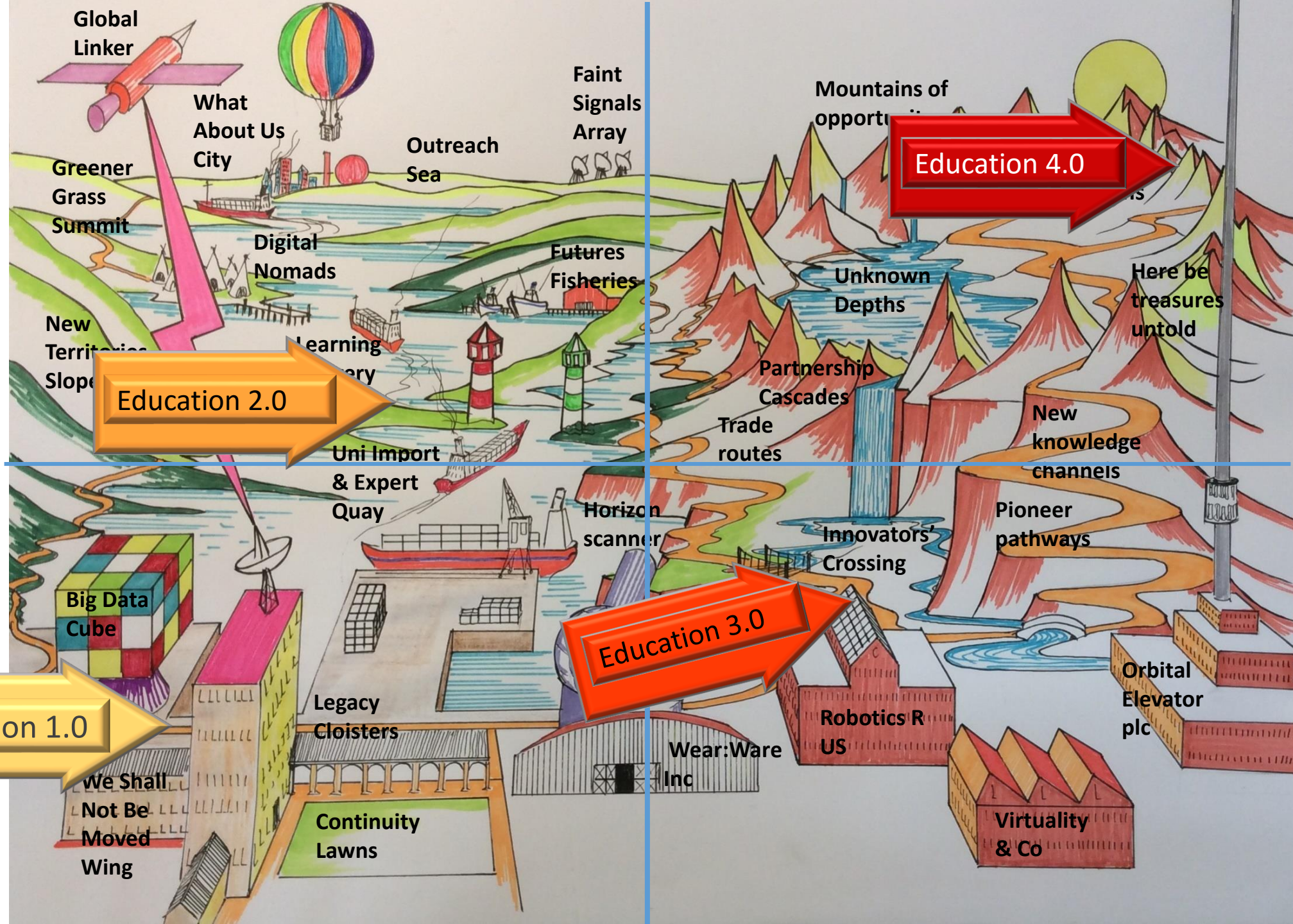
Bologna 1088
Salamanca 1218
Padua 1222
Oxford 1249
Cambridge 1284











Global Linker

What About Us City

Outreach Sea

Faint Signals Array

Greener Grass Summit

Digital Nomads

Futures Fisheries

New Territories Slope

Learning Library

Education 2.0

Uni Import & Expert Quay

Horizon scanner

Mountains of opportunity

Education 4.0

Here be treasures untold

Partnership Cascades

Trade routes

Unknown Depths

New knowledge channels

Pioneer pathways

Innovators' Crossing

Big Data Cube

Education 1.0

We Shall Not Be Moved Wing

Legacy Cloisters

Continuity Lawns

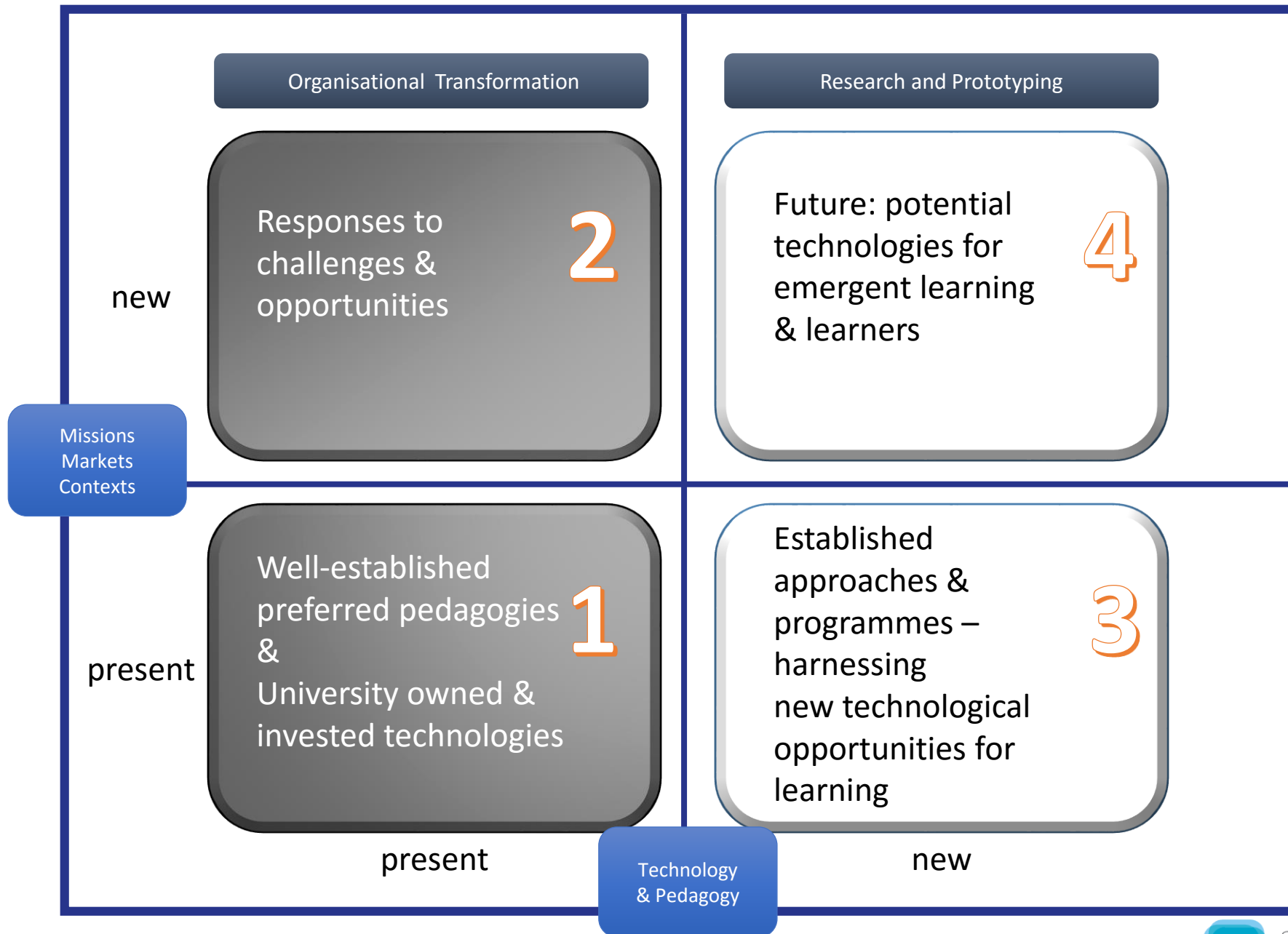
Education 3.0

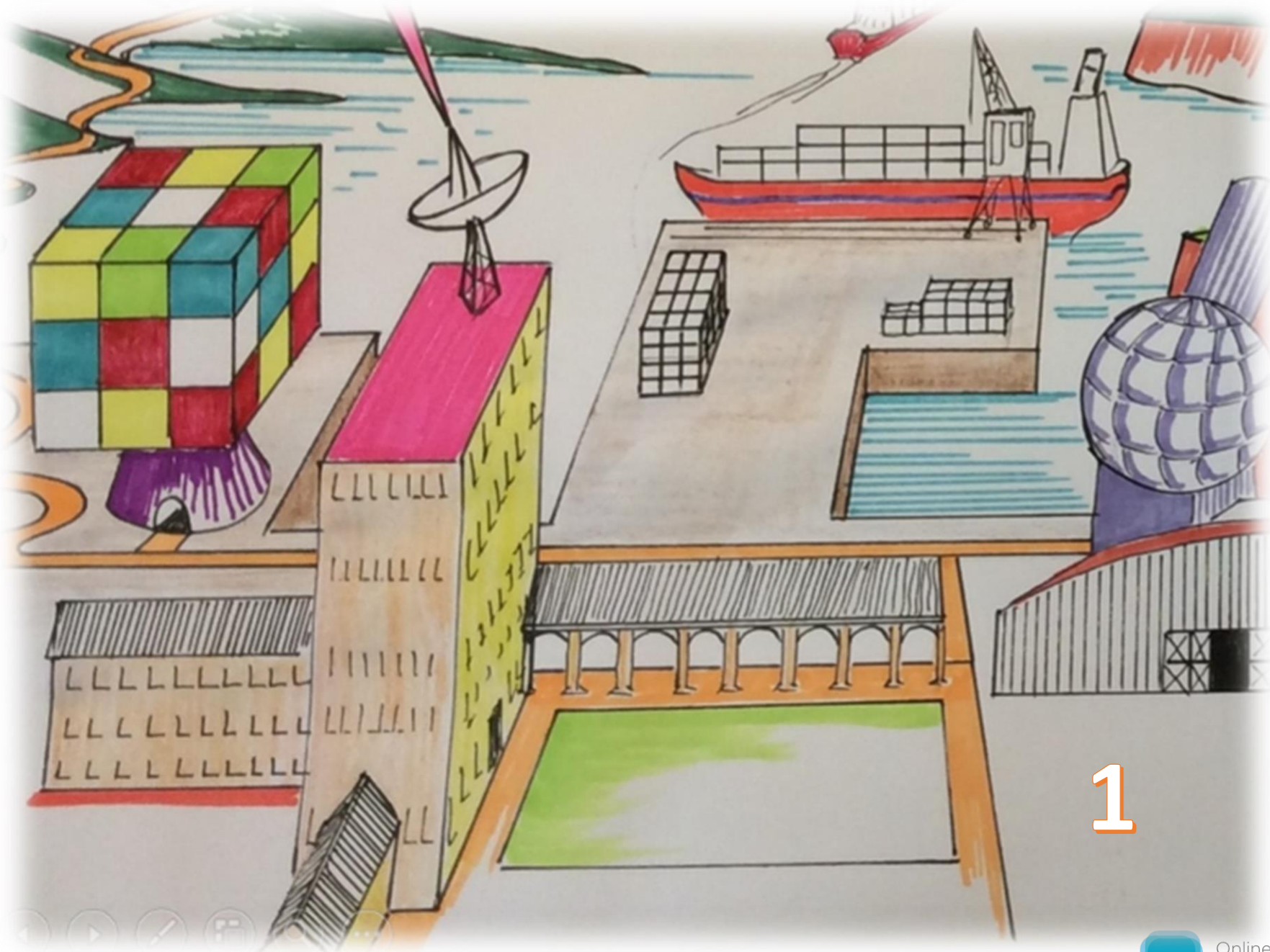
Wear:Ware Inc

Robotics R US

Orbital Elevator plc

Virtuality & Co







- half of the world now uses a smartphone;
- two-thirds of the world has a mobile phone;
- half of the world's web traffic now comes from mobile



www.marutitech.com/7-trends-of-mobile-application-development



Lifestyle & Convenience



Tools & Resources



Authenticity



Future Learning





<https://indianexpress.com/article/world/record-10000-people-participate-in-final-yoga-event-in-china-4721227/>



A Thriving Online Community

Stay Connected

Learn More



Business

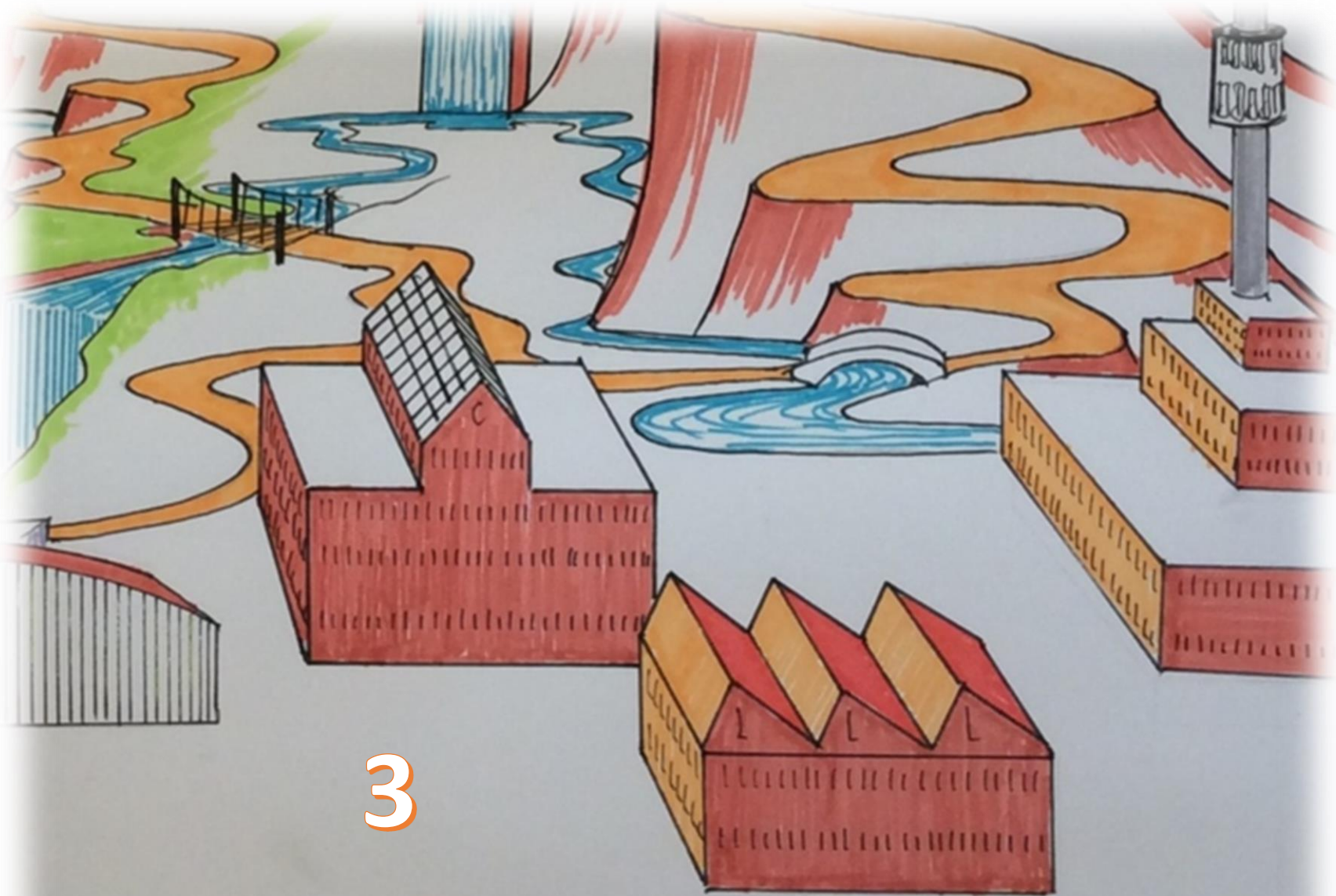
Design

Media and Communication

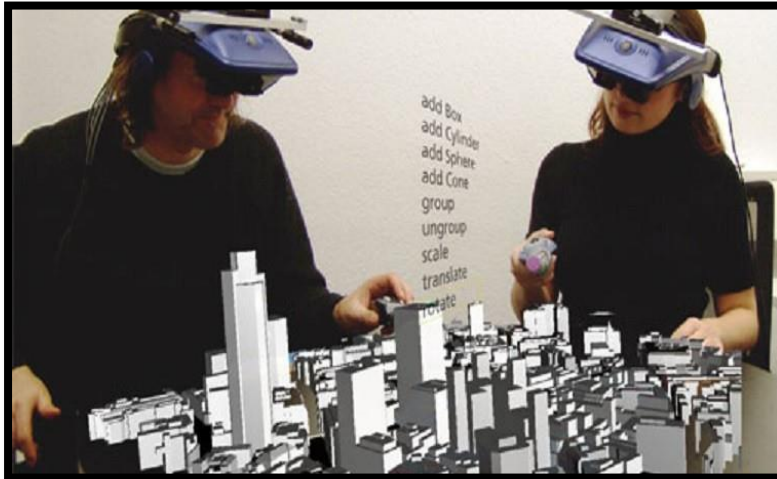
Education

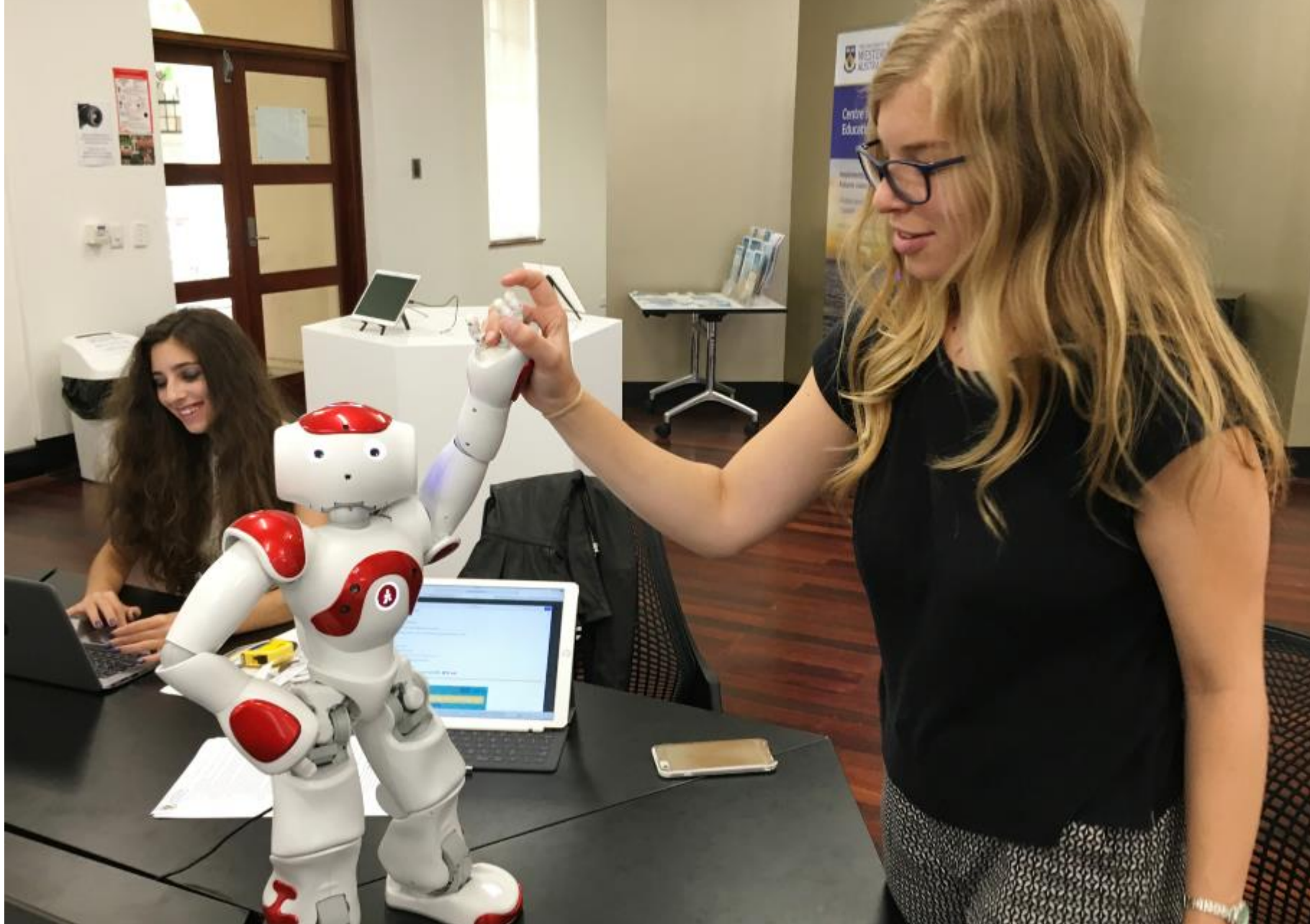
Social Science

Psychology



Virtual Reality







<https://towardsdatascience.com/4-ways-ai-is-changing-the-education-industry-b473c5d2c706>

4



Future Work Skills 2020

While all six drivers are important in shaping the landscape in which each skill emerges, the color-coding and placement here indicate which drivers have particular relevance to the development of each of the skills.

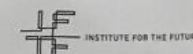
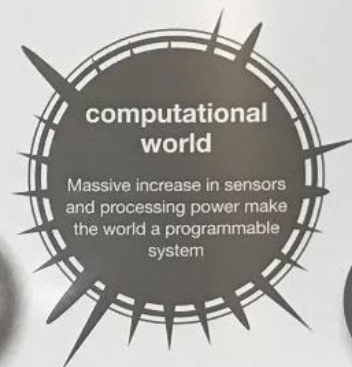
KEY



Drivers—disruptive shifts that will reshape the workforce landscape



Key skill needed in the future workforce



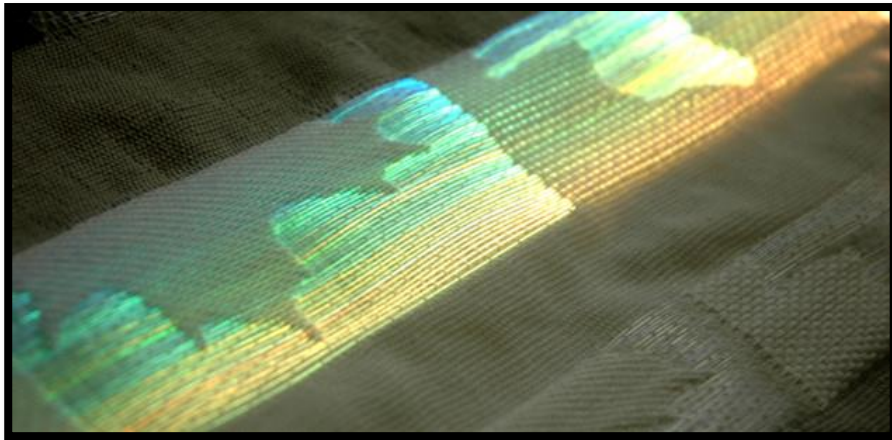
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The Future for Wearables

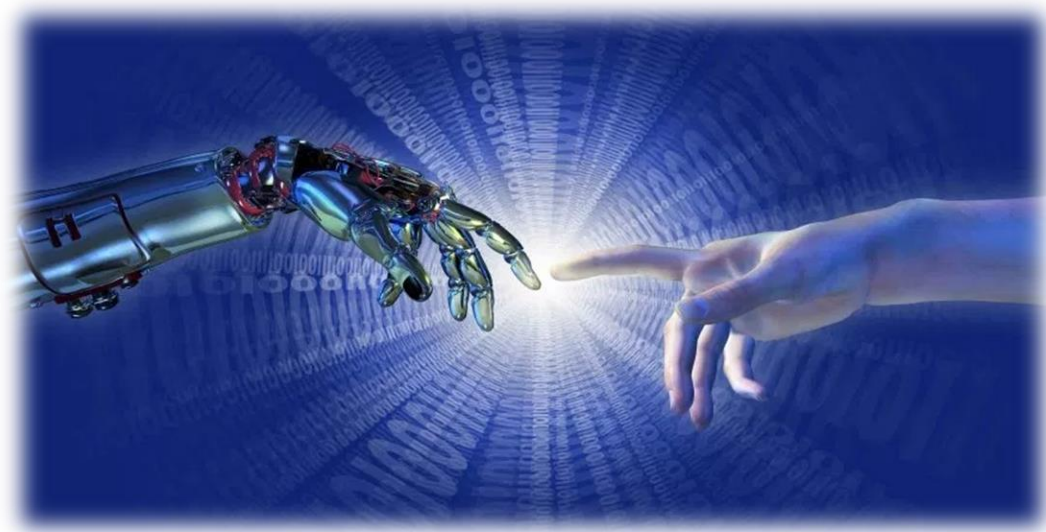


‘Smart’ responsive fabrics



Fabrics that monitor
vitals signs – an array of
sensors



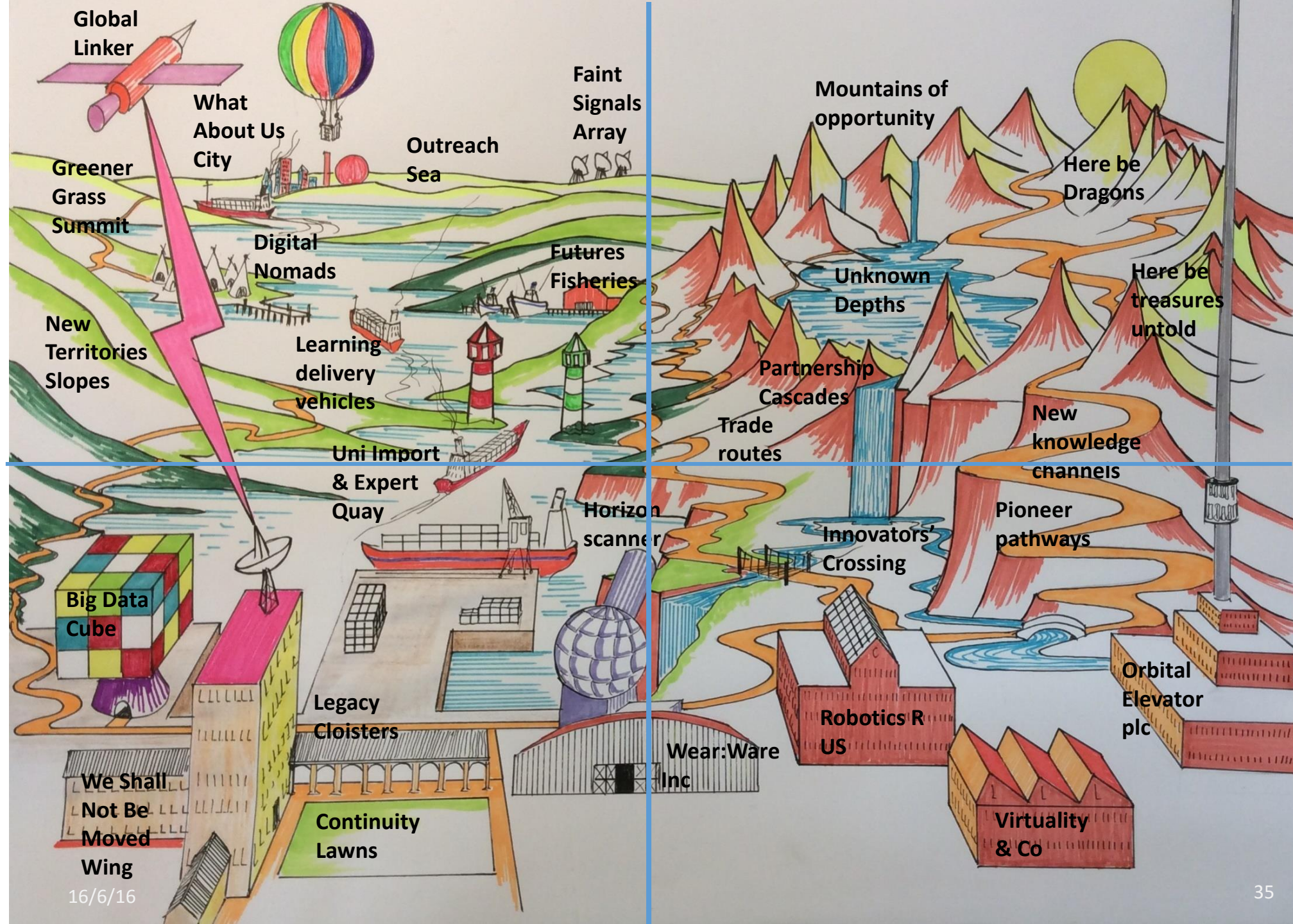


Exclusive: Alexa is coming to the office











An Amazon Echo, which offered most users their first meeting with Alexa. Photo: Joby Sessions / T3 Magazine via Getty Images

Amazon is announcing today it's bringing its voice assistant into a range of business settings, big and small, like hotels and co-working spaces.





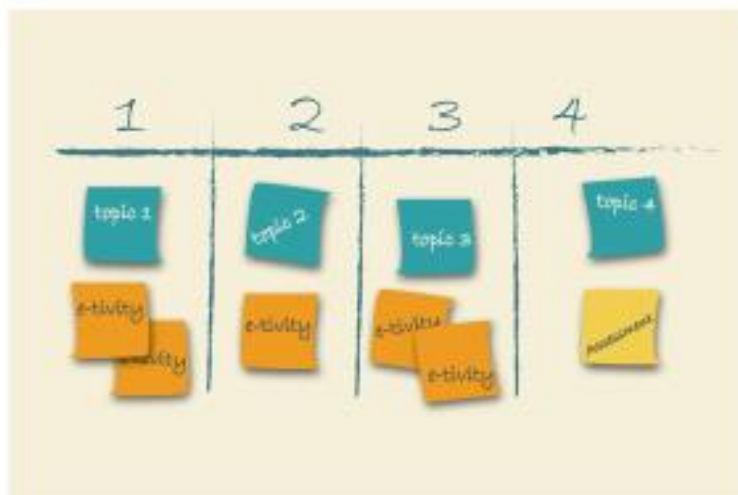
	Education 1.0	Education 2.0	Education 3.0
 Learners	Apprentice, Acolyte	Clients	Co-developers & Co-researchers
 Learning	Received	Formal & Informal	Lifelong
 Knowledge	Transmitted	Socially Constructed	Open Free Contextual Reinvented Applied
 Academics	Authoritative Expert	Supported by Facilitators & Assistants	Learning Designers & Leaders
 Teaching	Teacher to student	Peer Encouragement	Co-constructed & created
 Graduate-ness	Degree Qualified	License to Start Practicing	Prepared for Uncertain Multiple Careers
 Technology	Fixed	Cautiously Applied	Digital Mobile
 Learning Locations	Static Sustainable	Blended, Flexible	Enabling Chosen Everywhere





TEACHING AS A DESIGN ACTIVITY





Carpe Diem



E-tivities



Five Stage Model

www.gillysalmon.com

Thanks for listening

Questions for you

1. Can we understand the future as a complex, adaptive system?
2. How do we 'disrupt' our own thinking?
3. How can we shape our preferred and viable futures for our students and for Austria ?



“Never doubt the power of a small group of people to change the world. Nothing else ever has”.

Margaret Mead

“It always seems impossible until it’s done.”

Nelson Mandela

“Every society honours its live conformists and its dead troublemakers.”

Mignon McLaughlin

“Power is the faculty or capacity to act, the strength and potency to accomplish something. It is the vital energy to make choices and decisions. It also includes the capacity to overcome deeply embedded habits and to cultivate higher, more effective ones.”

— Stephen R. Covey

www.gillysalmon.com

No budgets or humans were harmed in the making of this presentation

Resources see also www.gillysalmon.com/learningfutures & www.oes.com

<https://www.youtube.com/watch?v=Z0uAuonMXrg>

https://smartech.gatech.edu/bitstream/handle/1853/53813/a_review_of_university_maker_spaces.pdf

<http://www.pursueimpossible.uwa.edu.au/>

https://www.youtube.com/watch?v=gfv_cC243vQ

“Those who pursue what may at first seem impossible are the ones who keep the world turning.”

Built to Last: Successful Habits of Visionary Companies is a book written by [Jim Collins](#) and [Jerry I. Porras](#).

The first edition of the book was published on October 26, 1994 by [HarperBusiness](#).
https://en.wikipedia.org/wiki/Built_to_Last:_Successful_Habits_of_Visionary_Companies.
Key point is that your vision needs to be clear and steadfast but your operating models MUST ADAPT to sustain.

The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail, is the most well-known work of the [Harvard](#) professor and businessman [Clayton Christensen](#).

https://en.wikipedia.org/wiki/The_Innovator%27s_Dilemma. And is a key text on 'disruption' by technologies. More recent books have explored the issues including in the Education context. (However very Harvard and US based).

<http://www.ottoscharmer.com/publications/executive-summaries> - Theory U – leading from the emerging future.

<http://innovationyou.com/> lots of inspiration from Jeff DeGraff, University of Michigan.

<https://timklapdor.wordpress.com/2015/04/10/innovation-and-the-novelty-factory> - keep us focused on real innovation

<http://hackeducation.com/2015/02/19/the-history-of-the-future-of-education/> Great pictures and a reminder that prediction is political

<http://knowledge.wharton.upenn.edu/article/glimpse-future-oscars-innovation-higher-education/> Get on the bridge with flipping

<https://www.youtube.com/watch?v=U5802FBaMSI> John Kotter on creating a sense of urgency

www.youtube.com/watch?v=XdlmoLAbbiQ – drones

<http://www.thenanoage.com/virtual-reality.htm> -
http://www.ted.com/talks/michael_bodekaer_this_virtual_lab_will_revolutionize_science_class_virtual_reality

<http://www.nmc.org/publication/nmc-horizon-report-2016-higher-education-edition/>

<http://www.wareable.com/oculus-rift/how-oculus-rift-works>

What courses for the future?

<https://www.weforum.org/agenda/2016/01/what-are-the-10-biggest-global-challenges/>

<http://www.cheatsheet.com/personal-finance/10-high-paying-jobs-of-the-future.html/?a=viewall>

<https://www.youtube.com/watch?v=Y9FOyoS3Fag>

http://eu-acerforeducation.acer.com/innovative-technologies/is-artificial-intelligence-transforming-education/?gclid=Cj0KCQjw2f7bBRDVARIsAAwYBBt2wGw5Y9suZFq6lCH_OHGHzx51e1eDR_OYLsnu1NUbmAPTeRWHV-gEaAlaEALw_wcB

Especial acknowledgement and thanks to Professor Heather McGowan frameworks web site

<http://www.heathermcgowan.net/>

Main article on which this talk is based is at Salmon, G. (2016), The realm of learning innovation: A map for Emanators. Br J Educ Technol, 47: 829–842.

doi:10.1111/bjet.12487

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