



QAA
Scotland

Focus On: Graduate Skills

Sharing Practice

5 June 2019 | Glasgow



@QAAScotland

#QAAFocusOn



QAA Scotland Focus on: Graduate Skills

Glasgow 5th June
2019

Simon Barrie

(my take on) The Graduate Attributes journey

1998 ISL Oxford: bolt on skills approaches don't work

2002 ISL Empty rhetoric?

2005/6 ICED HEA Canada: Complex conceptions of graduate attributes
Skills, attributes, meta attributes

2009/10 ISL, CDIO MIT EARLI: new forms of
knowledge - curriculum for uncertainty

2009 QAA: conceptions, student identity, systems,
student focused

2012 GED Vietnam: Limits of Employability, Bureaucracy of 'audit'

2013 Assessment

CHEC 2011 Africa - Diversity, equity, academic
work & academic development

2014 reframing the PhD

Denmark 2014 World making / World changing education

2015: Disruption.
The future of Work?
The future of Society?

The purpose of higher education



Future of Work: The Robots are coming!

The least safe jobs

Telemarketer	Chance of automation 99%
Loan officer	Chance of automation 98%
Cashier	Chance of automation 97%
Paralegal and legal assistant	Chance of automation 94%
Taxi driver	Chance of automation 89%
Fast food cook	Chance of automation 81%

Source: The Future of Employment

Could a robot do your job? Find out now

Artificial intelligence is tipped to affect every occupation in Australia. Search our database to find out how your job is affected — if you're game.



AI will transform our lives

We need regulation to wrestle the power of artificial intelligence from the few big Silicon Valley companies that hold it, writes AI expert Professor Toby Walsh.



AI's effect on the economy

Australia should double its pace of artificial intelligence and robotics automation to reap a \$2.2 trillion opportunity by 2030, according to a new report.

LATEST STORIES

Think robots will take your job? Here's why that won't happen



By Jeff Borland, University of Melbourne Mon at 4:21pm

Evidence suggests a robot probably won't take your job, but there's a reason you feel threatened, writes Jeff Borland.

Will Australia be the 'lucky country' in tomorrow's economy?



By Nicholas Davis and Thomas Philbeck 16 Nov 2017, 5:55am

The Fourth Industrial Revolution is here. What we do next will make or break Australia, write Nicholas Davis and Thomas Philbeck.

Artificial intelligence law firm minus the lawyers opens in Darwin



By Lucy Marks 13 Nov 2017, 9:07pm

A law firm that costs a fraction of the price and is operated by artificial intelligence opens in Darwin, with plans of expansion on the horizon.

Robots are coming for our jobs — but it might not be as bad as first thought



By David Fagan, QUT 1 Nov 2017, 6:46am

A new report suggests 20 per cent of the workforce will be vulnerable to replacement by robots and automation by 2030 — much less than the 47 per cent predicted by researchers in 2013.

Why did the robot cross the road? Sophia has the answer



25 Oct 2017, 10:21am

Sophia the robot boasts some of the latest artificial intelligence and facial features, but how good is she at answering questions live on TV?

The safest jobs

Mental health and substance abuse social worker	Chance of automation 0.3%
Occupational therapist	Chance of automation 0.35%
Dietitian and nutritionist	Chance of automation 0.39%
Physician and surgeon	Chance of automation 0.42%
Clergy	Chance of automation 0.81%

Source: The Future of Employment

They robots are already here.....



Healthcare
Insurance
Architects
Journalists
Teachers
Financial industry
Lawyers and Paralegals
Marketing and
Advertising
Human Resources
Law Enforcement

Disruptive job market forces

Automation

No demand for existing qualifications and experience

Hybridization

Workforce without capabilities to match demand

Signal failure

Qualifications not valued

Universities can be more essential than ever

Must think about Capabilities not Jobs in designing education



Capabilities not titles

Job clusters

Differential values and growth

Skills for workforce transitions

Data Science

Hybrid jobs

Enterprise skills gap

Technical skills gap

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What about our responsibility to society?



https://www.youtube.com/watch?v=Mdm49_rUMgo&feature=youtu.be

Responding to disruption: Next generation curriculum design

1. The challenges for future work
2. The challenges for future society

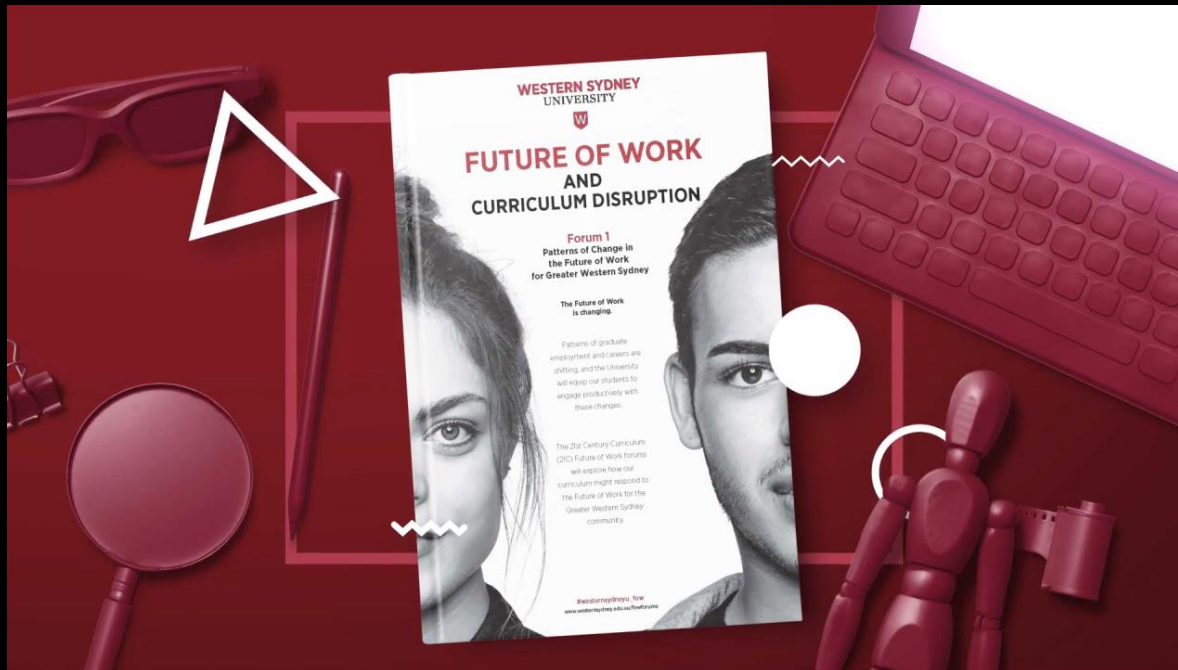




21C Curriculum Project

- Develop hybrid capabilities for student success in future of work and society
- Partnership Pedagogy for engagement (SAP), relevance and authenticity
- Redesign curriculum architecture and elements for agility and hybridity (unbundle/re-bundle)
- Develop institutional capabilities for 21C innovation
- Redesign 'systems' to support agile innovation and personalised learning

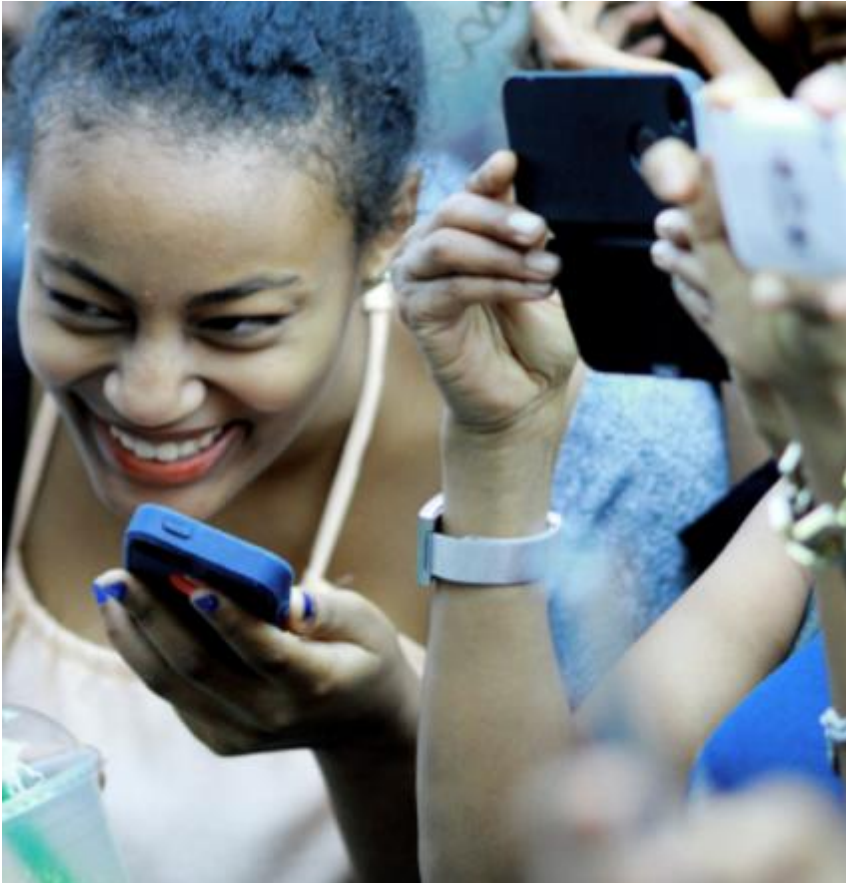




<https://www.youtube.com/watch?v=eUY4xhSixmE>

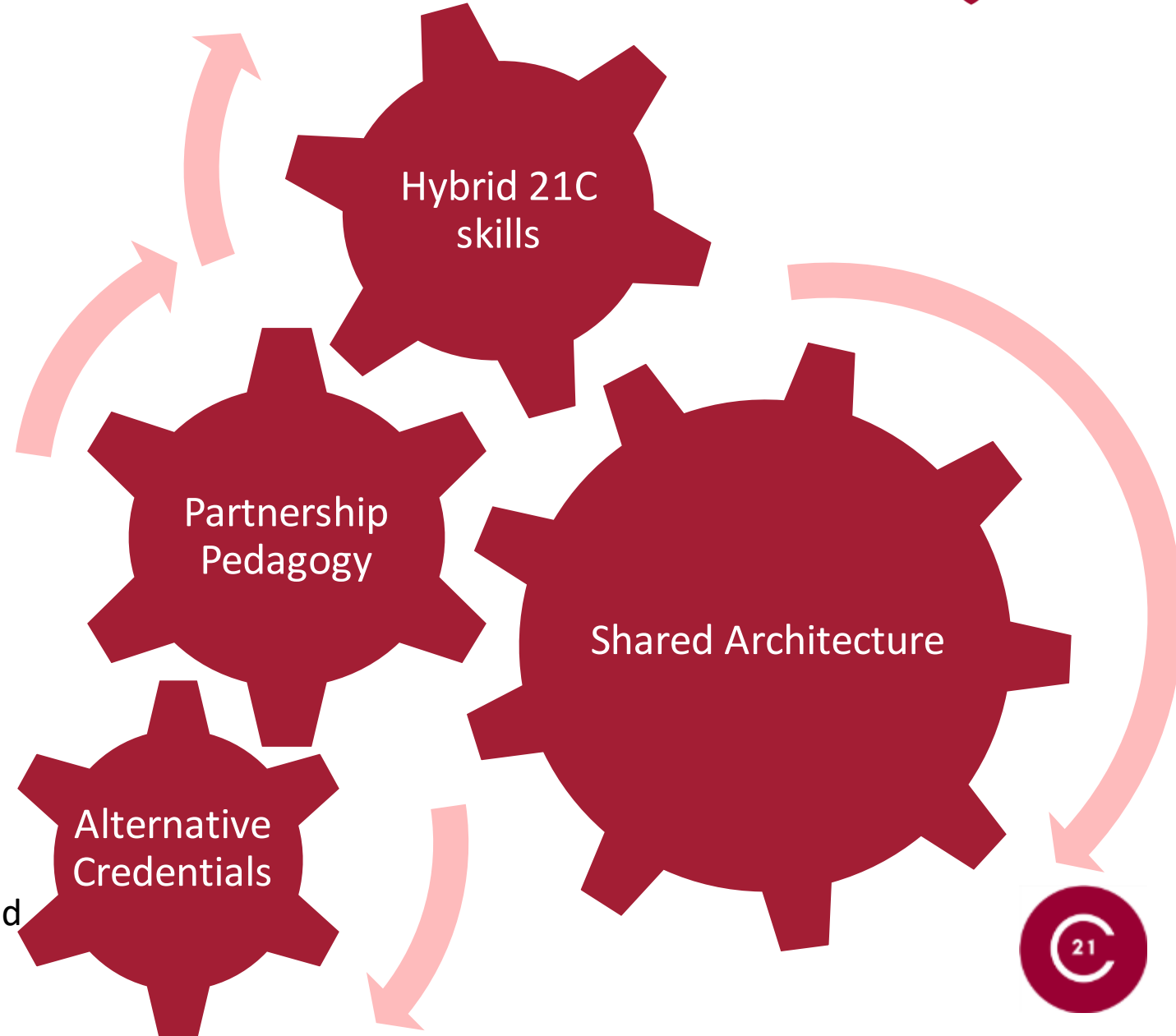
<https://sites.google.com/view/wsu21c-saps/home>

Advantage Sub-major: Global Sustainability (UNAI)



CURRICULUM DESIGN: 2018

LAUNCH: Pilot Bootcamp September 2018
750 students enrolled in 2019 Curiosity Pod
Degree offered Autumn 2019



Messages for a 'Focus on: Graduate Skill's

- Capability is hybrid – it is more than skills
- Capability for what? The purpose of the university
- The (disrupted) future of work and society
- Nature of knowledge in the curriculum is critical
- Academic curriculum must be the focus of transformation
- Students must be partners and able to 'narrate' their capabilities
- University curriculum is a networked system
- Redesign the system





Disruption is a significant
opportunity for universities

If we understand the drivers
If we are clear about our purpose
If we collaborate to redesign



**SUSTAINABLE
DEVELOPMENT
GOALS**





Thank you!

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DIVERSE 'CAPITAL'

