Broadleaf

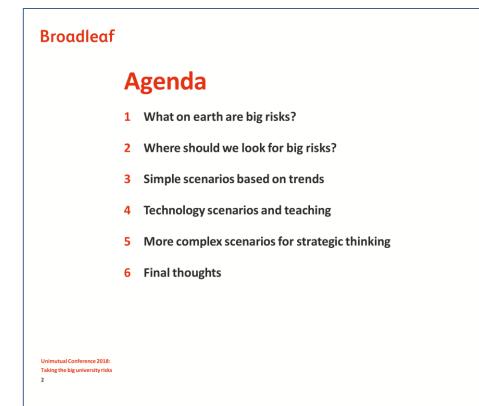
Creating value from uncertainty www.Broadleaf.com.au

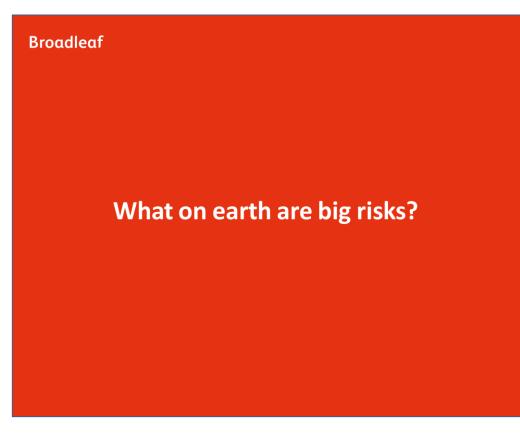


## Presentation: Big risks in the tertiary sector

Unimutual Conference 2018, 5-7 September, Darling Harbour, Sydney

Dr Dale F Cooper





Broadleaf

## **Big risks?**

One CEO's view of big risks:

- High levels of risk (combination of consequences and likelihood), with the current controls
- High potential maximum consequences
- Low control effectiveness
- 'What keeps me awake at night?

Unimutual Conference 2018: Taking the big university risks

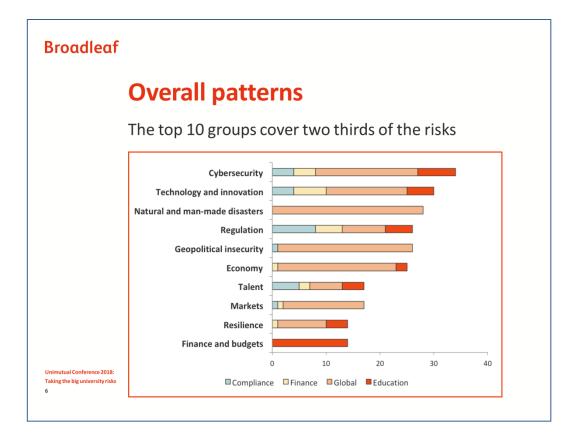
#### Broadleaf

#### Some data (not necessarily information!)

Sample of 26 'big risk' surveys and articles

- 5 from higher education
- 368 risks in total
- Quick (and highly subjective) grouping into 27 general categories

Unimutual Conference 2018: Taking the big university risks 5



#### Broadleaf **Education sector (5 sets of data)** Funding is a key focus for higher education Finance and budgets Student matters Cybersecurity Technology and innovation Regulation Competition Business Talent Resilience 0 5 10 15 Unimutual Conference 2018: Education Taking the big university risks 7

Broadleaf	Educatio	n 'big risks'
	Category	Topics
	Finance	<ul> <li>Funding uncertainty, grants, government policy, costs, financial performance</li> </ul>
	Student matters	<ul><li>Student experience and welfare</li><li>Recruitment and retention; quality</li></ul>
	Cyber security	<ul> <li>Information governance and security; privacy; social engineering attacks</li> </ul>
	Technology and innovation	<ul> <li>Digital integration and integrity; IT support for the institution; contribution to student experience</li> <li>Advanced technology, AI; IT leadership</li> </ul>
Unimutual Conference 2018: Taking the big university risks 8	Regulation	Compliance; regulatory burdens; government policy
	Competition	Competition for students; international competition
	Business	Organisational performance; staff relations
	Talent	Staff development; competition for qualified faculty

#### Broadleaf

## What can we learn from this?

There is some agreement about broad categories of 'big' risks

- But great variation in the detail
- And not many surprises

There is no easy consensus

- Risks range from 'nuisances' to existential threats
- · There are many points of view

Unimutual Conference 2018: Taking the big university risks 9

#### Broadleaf

## The most interesting risks have long-term implications

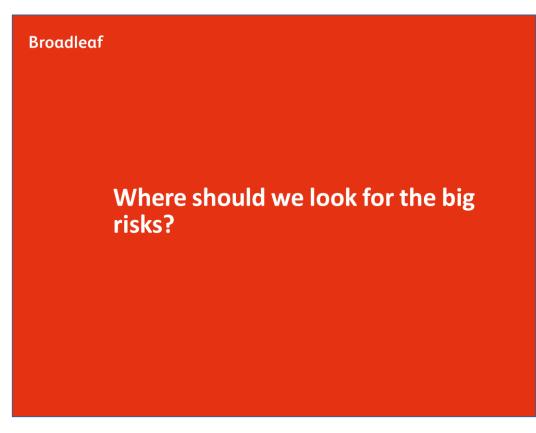
We understand tactical, operational risks quite well

• They might be messy, but we know how to tackle them in most cases

Strategic risks tend to have longer-term implications and are more difficult to resolve

- The environment is often complex, with many interacting components
- We may not recognise a threat exists, or how serious it might be, until it is upon us

Unimutual Conference 2018: Taking the big university risks



#### Broadleaf

## What might indicate a big risk?

Trends leading beyond our current experience

• Boiling frogs

Events, including rare catastrophes, that are outside our experience or that catch us by surprise

Black Swans

Perfect storms

Unimutual Conference 2018: Taking the big university risks 12

#### Broadleaf

### **Characteristics of 'interesting' big risks**

Significant uncertainty and many divergent opinions

Potentially large impacts, only partially knowable

Non-linear impacts over extended timeframes

Complex, 'messy' interaction effects

Unpredictable human responses

Situations outside the comfort zone for people and organisations, so existing processes and culture may no longer work

Unimutual Conference 2018: Taking the big university risks 13

#### Broadleaf

## Challenges (1)

We need to be careful to avoid long term thinking being confined to the frame of reference we currently use to understand the world

It's not too hard to watch out for the things you know you should be worried about

Being able to spot things you hadn't thought of until they start to emerge is a different challenge

Unimutual Conference 2018: Taking the big university risks

#### Broadleaf

15

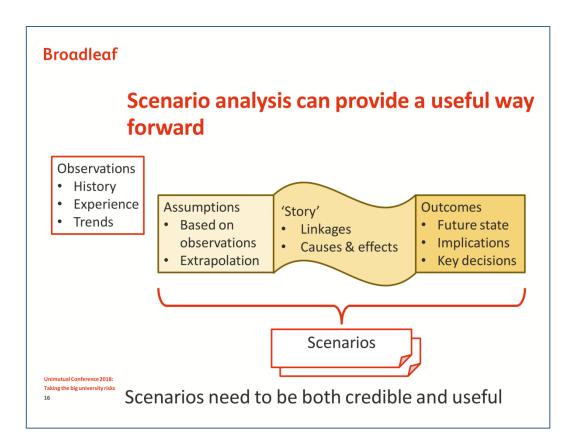
## Challenges (2)

There are foreseeable long terms trends that we can start to consider immediately

 Increasing population, increasing proportion of the population expecting a higher standard of living, and better education for their children ...

But simple extrapolation of trends is unlikely to be sufficient

- It would be prudent to accept that there will be things we care about that we haven't identified and so can't plan for yet
- Unimutual Conference 2018: We need a way of maintaining a lookout for the Taking the big university risks unexpected



#### Broadleaf

## Characteristics of a credible scenario

The assumptions should be believable

- They should be forward-looking, and take into account anticipated trends and changes
- · They may include changes with low likelihoods

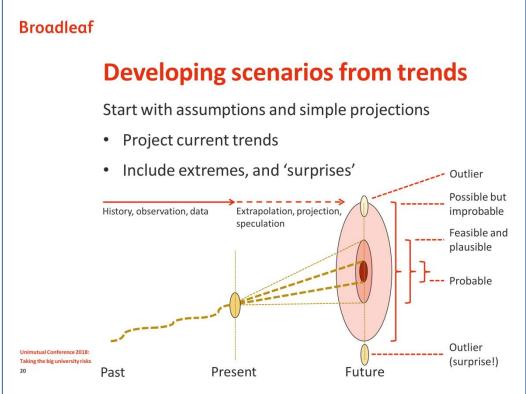
The outcomes should be believable

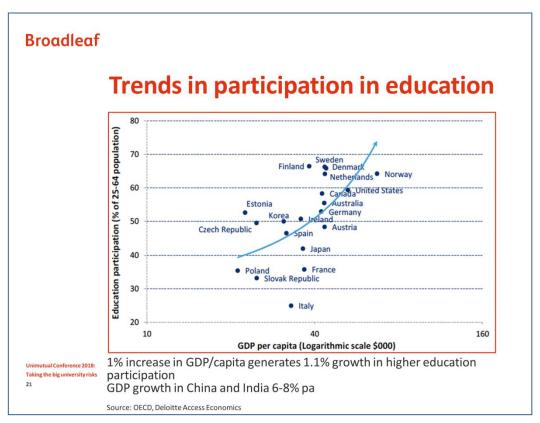
- They should be linked logically to the assumptions
- There should be a good 'story' that explains the links
- The scenario should be internally consistent

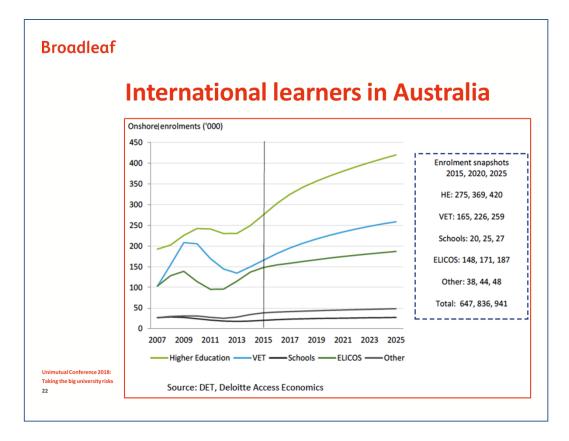
Unimutual Conference 2018: Taking the big university risks 17

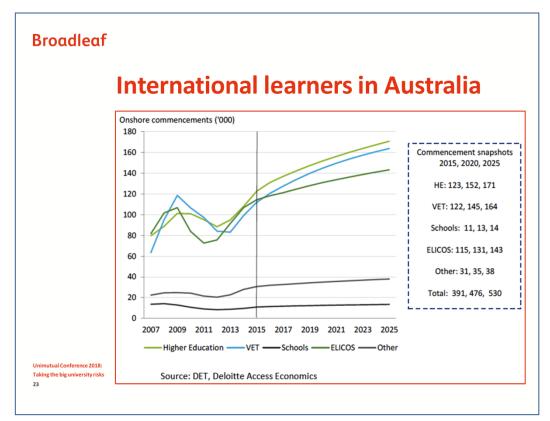
# <section-header> Broadlead Characteristics of a useful scenario It should be credible It should be directly relevant to the organisation It should have impacts that are important for the organisation It should stimulate productive thinking about the future • It should lead to a point where major change or a major decision is inevitable, and thus generate discussion about what changes, threats and opportunities might arise

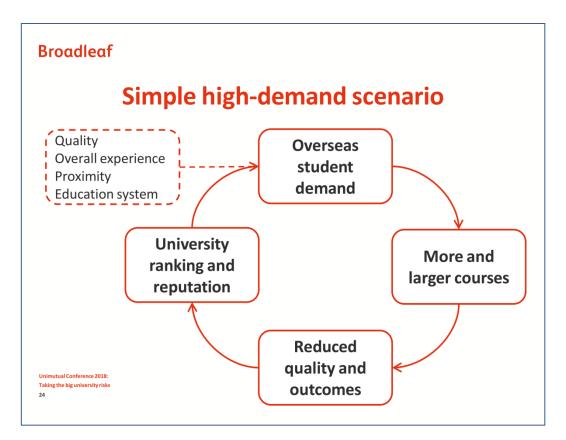


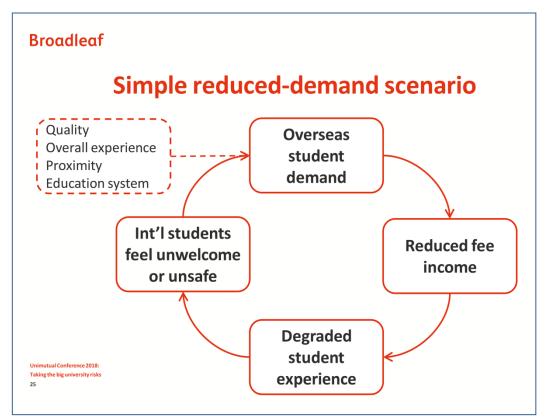




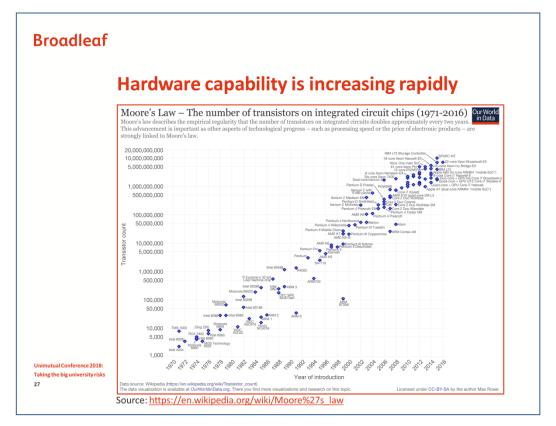


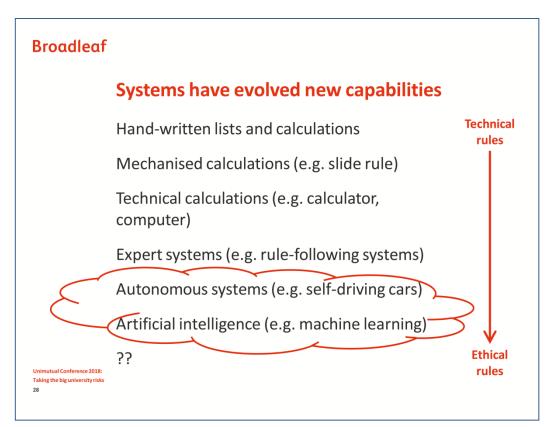


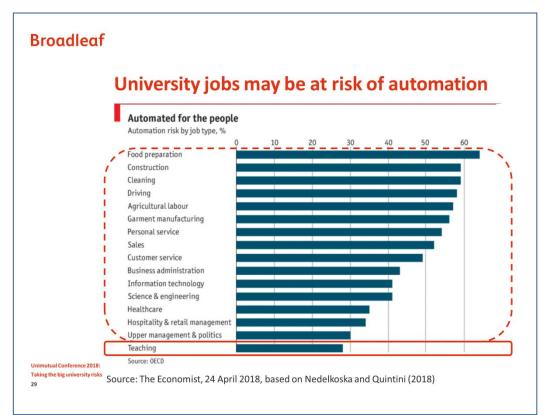


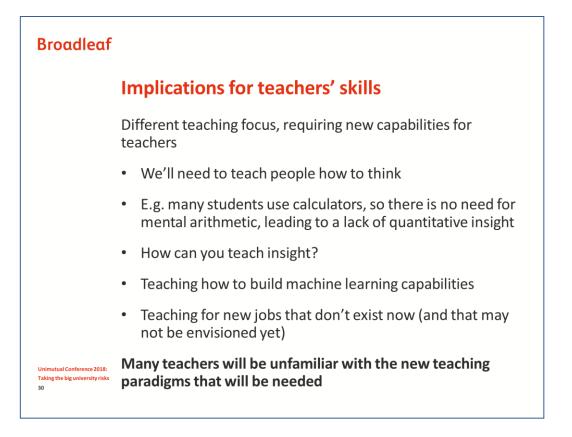












#### Broadleaf

#### Implications for how we teach

Many teaching jobs will change

- Educational support, administration and marking will become more automated
- There will be less need to teach repetitive, high frequency tasks (e.g. image processing and associated diagnoses for X-rays, retinal images)

Some jobs will always remain

• Jobs that teach practical skills (e.g. 'you can't teach a bricklayer online')

Unimutual Conference 2018: Taking the big university risks 31

But students may have to learn new ways of learning



#### Broadleaf

## **Disruptive forces driving change (EY)**

-	1	Changing world of work	Technology disruption in the workplace
	2	Blurring industry boundaries	Non-traditional rivals offer educational services
	3	Evolving digital behaviour	Learners become consumers of educational services
	4	Increasing international competition	Competition for rankings, students and academics
	5	Rise of continuous learning	Education as a continuous process
imutual Conferer king the big unive		Source: EY (2018), Can the universities of today	r lead learning for tomorrow?

Unim Takin 33

www.ey.com/au/futureuniversity

Broad	eαf			
		Scenario drivers (EY)		
	1	Government role	Activist or hands-off Government or industry funding Capped or uncapped fees	
	2	Demand conditions	Learner demographics Learner objectives	
	3	Technology conditions	Technology integration Technology as a service Prominence of Al	
	4	Sector structure and rivalry	Degree of protection, external rivals Integration with industry Connection of research and learning	
34		Source: EY (2018), Can the univ www.ey.com/au/futureuniversi	ersities of today lead learning for tomorrow? ty	

Broadleaf					
	Four scenarios for 2030 (EY)				
	four divergent yet plausible views of Australia's higher education landscape in 2030				
	Champion university	Universities as strategic national assets; traditional degree programs; streamlined operations			
(?)	Commercial university	Financially independent universities; work- integrated learning; close collaboration with industry			
	Disruptor university	Deregulated sector; continuous learners; on- demand micro-certificates; technology disruption; new markets and services; increased competition			
Unimut Taking t 35	Virtual university	Integrated universities and vocational institutes; training and employability focus; flexible, online, unbundled courses; shared digital platforms			

Broadleaf Things to think about For each scenario: Do we have a suitable business model for creating, delivering and capturing value? • Could we cope with future disruption, given our current capabilities? What do we need to do now to make us more resilient? • Is there a credible and sustainable transformation pathway from where we are now? • Should we conduct some experiments to prepare ourselves for different futures? Unimutual Conference 2018: Taking the big university risks Are there opportunities we can exploit? .



#### Broadleaf

## **Final thoughts**

Simple risk management processes are unlikely to be sufficient for 'big risks'

- You need to look where the black swans nest
- Where we are now may not be a good starting point

Use scenarios to identify possible futures

• Conduct risk assessments from these new starting points

Evaluate treatment options from the perspectives of

• Resilience, to deal with threats and major disruptions

Unimutual Conference 2018: Taking the big university risks

Strategic positioning, to capture opportunities

#### Broadleaf

#### Contact

Dr Dale F Cooper Director Cooper@Broadleaf.com.au +61 419 433 184

If you would like further information about this topic please contact us.

For further information visit<sup>[1]</sup><sub>(SEP)</sub>www.Broadleaf.com.au

© 2018 Broadleaf Capital International Pty Ltd. All rights reserved.

Unimutual Conference 2018: Taking the big university risks

#### Broadleaf References Deloitte Access Economics (2015) Growth and opportunity in Australian international education: a report prepared for Austrade. https://www.austrade.gov.au/Australian/Education/Services/Australian-International-Education-2025/growth-and-opportunity The Economist, A study finds nearly half of jobs are vulnerable to automation, 24 April 2018. www.economist.com/blogs/graphicdetail/2018/04/daily-chart-15 EY (2018) Can the universities of today lead learning for tomorrow? www.ey.com/au/futureuniversity Moore's Law https://en.wikipedia.org/wiki/Moore%27s law, data source: https://en.wikipedia.org/wiki/Transistor count Nedelkoska, L and G Quintini (2018) Automation, skills use and training, OECD Social, Employment and Migration Working Papers, No. 202, OECD Publishing, Paris. http://dx.doi.org/10.1787/2e2f4eea-en Russell, SJ, P Norvig (2009) Artificial Intelligence: A Modern Approach. Pearson, 3 Unimutual Conference 2018: Taking the big university risks Fd. 40