

TODAY

- About Me
- Disruption
- Our kids futures

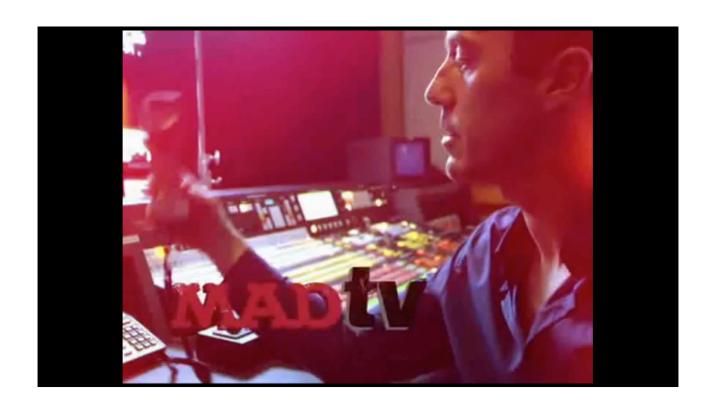
ABOUT ME

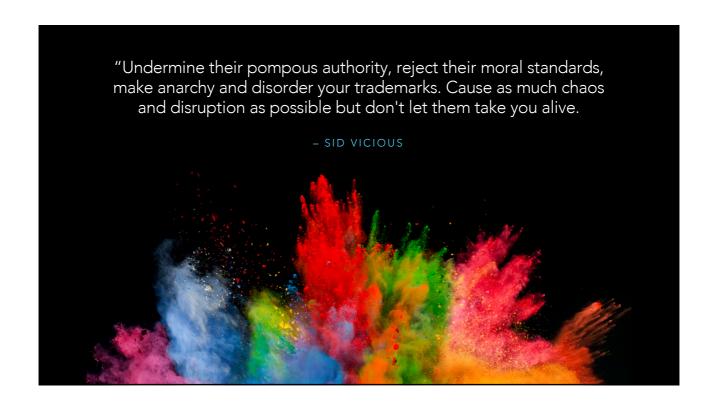
- Parent at St Leonards
- Grew up on a farm in Bendigo
- Education B.Eng and Law
- Co-Founded iSelect over 15 years ago
- CEO, Chairman, NED Director
- Investor/Mentor with a number of companies
- Passionate about the digital economy





DISRUPTION

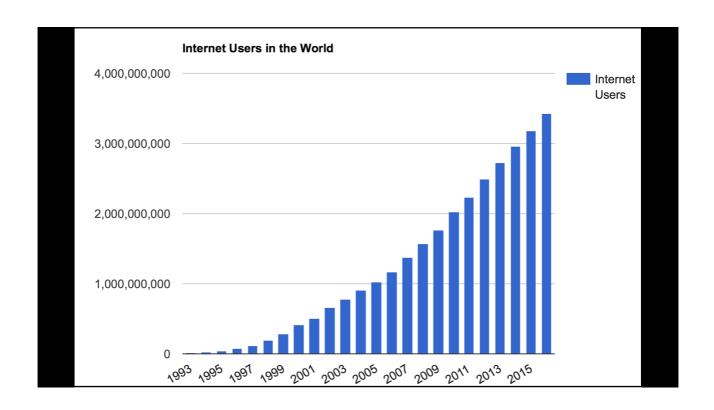


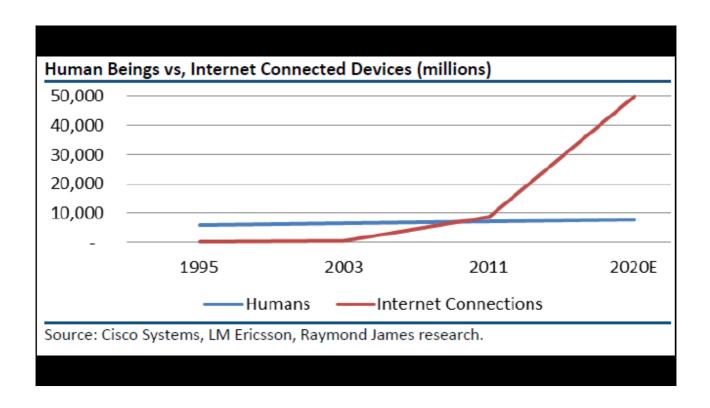


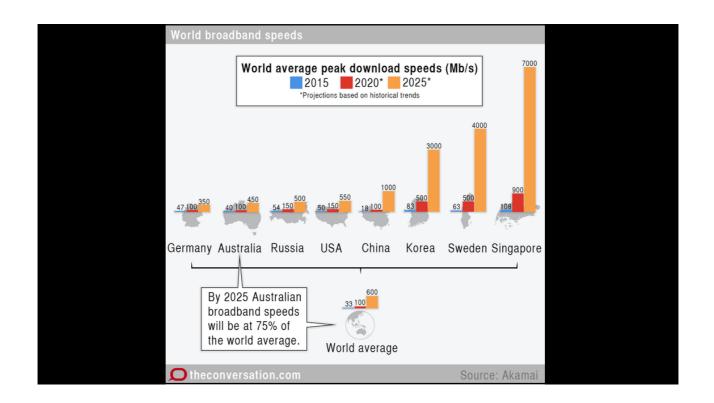


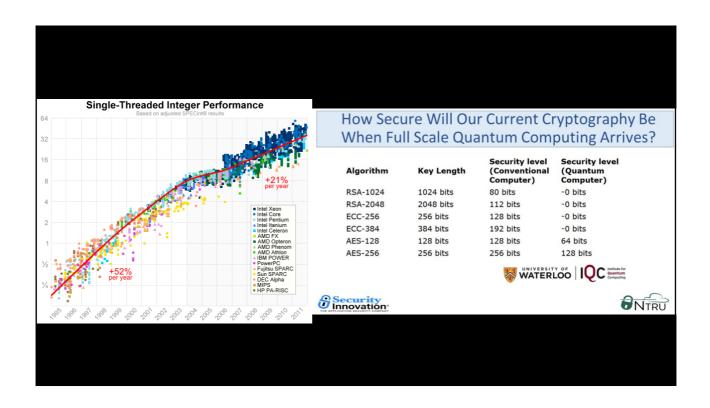
- Number of internet users, devices
- Speed of internet, chips, size of memory, quantum mechanics
- Artificial intelligence driverless cars, speech recognition, more
- Robotics going mainstream 3d printing, low cost manufacturing etc

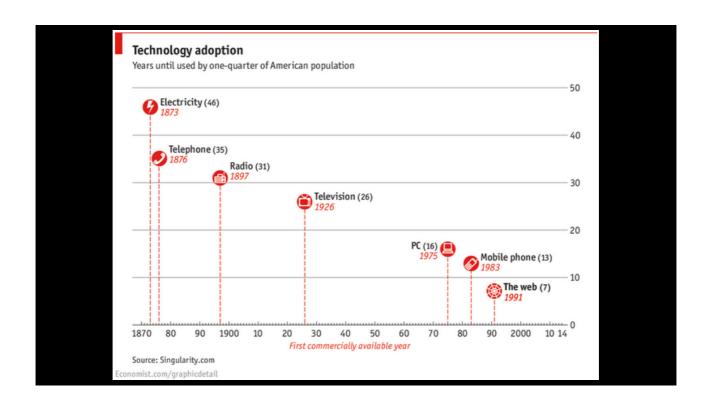


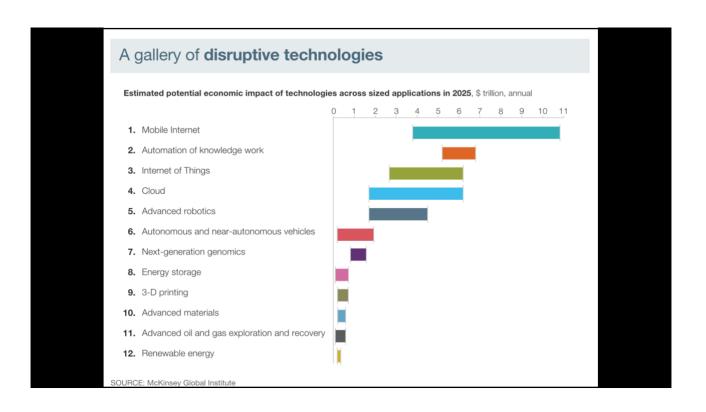




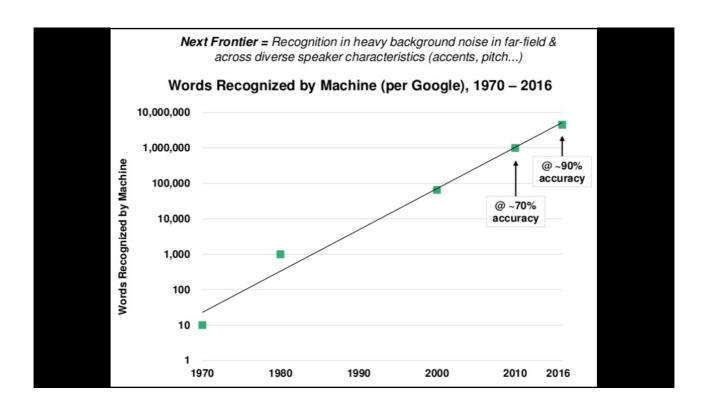




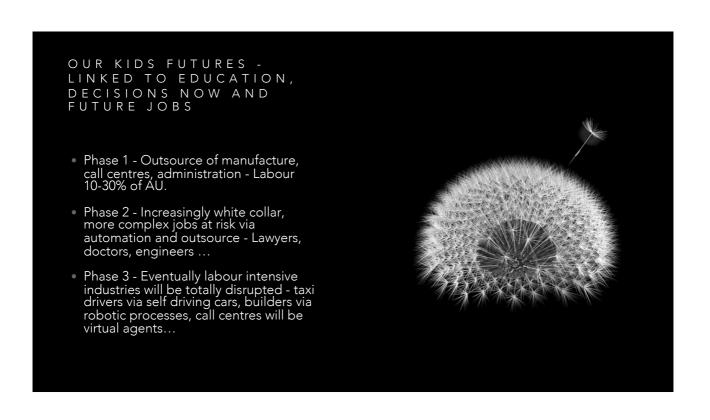


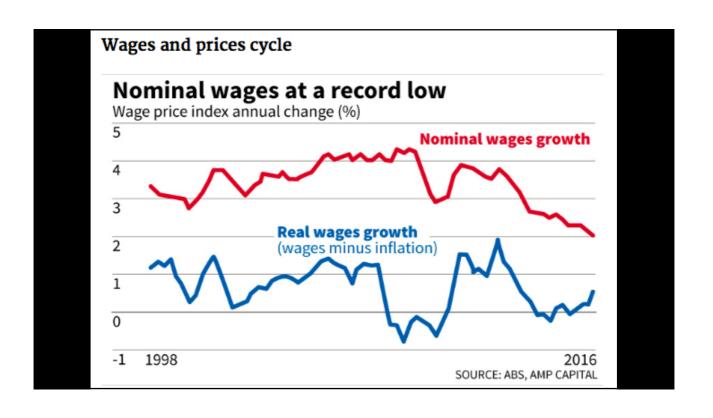


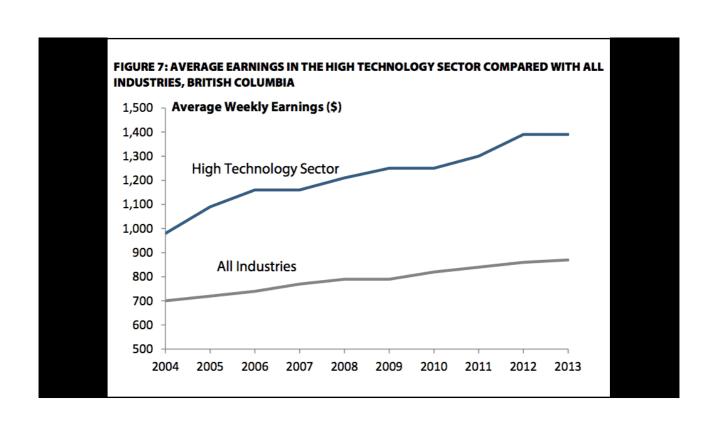


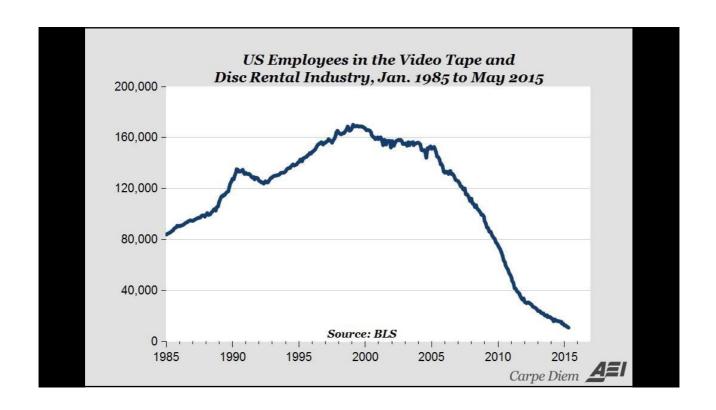


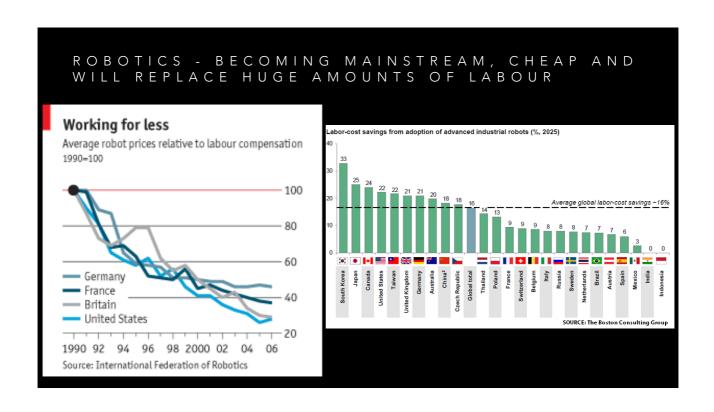
Most Valuable Companies in the Fortune 500				
MARKET VALUE RANK ▼	COMPANY	INDUSTRY	MARKET VALUE (\$BIL)	
1	Apple	Computers, Office Equipment	534	
2	Alphabet	Internet Services and Retailing	507	
3	Microsoft	Computer Software	413	
4	Exxon Mobil	Petroleum Refining	326	
5	Facebook	Internet Services and Retailing	321	
6	Berkshire Hathaway	Insurance: Property and Casualty (Stock)	312	
7	Johnson & Johnson	Pharmaceuticals	288	
8	General Electric	Diversified Financials	271	
9	Amazon.com	Internet Services and Retailing	250	
10	Wells Fargo	Commercial Banks	242	
Source: S&P Capital IQ			FORTUNE	



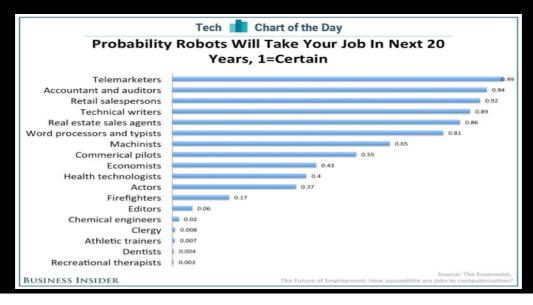








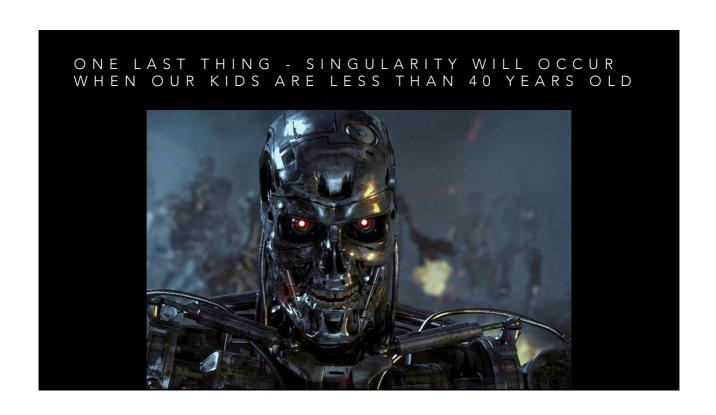
ROBOTICS - MANY WORKERS THINK ROBOTS WILL TAKE THEIR JOBS...

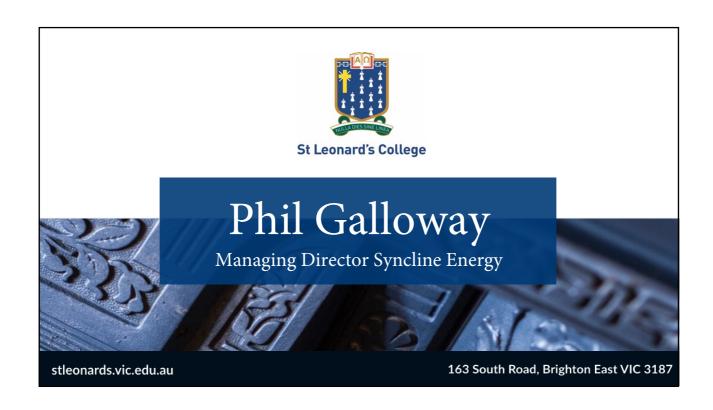


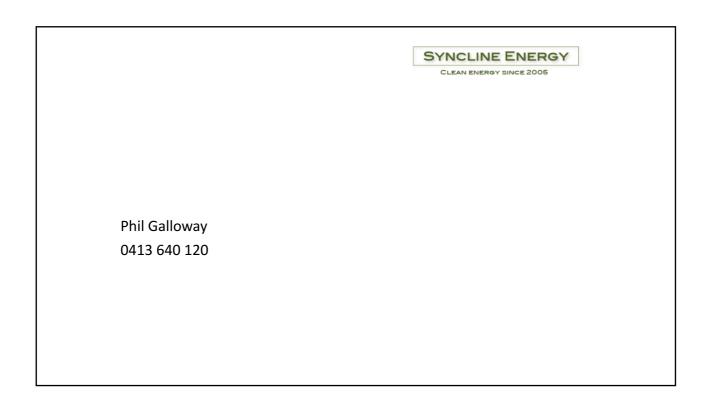
HOW TO DEAL WITH THE THREAT OF DISRUPTION

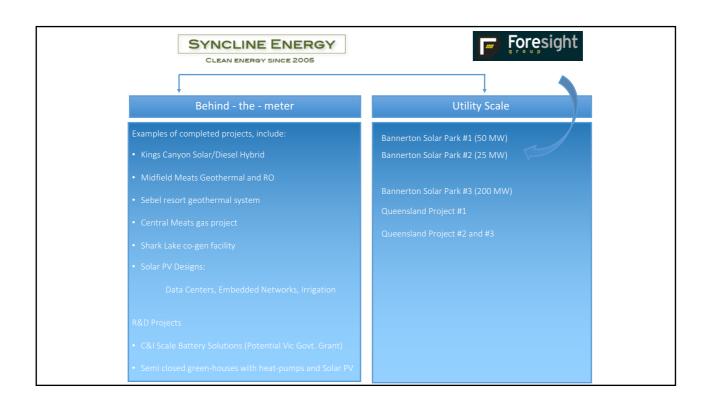
- Tick They are already digital natives...
- The future is digital and tech across every industry.
- Encourage our kids to be a disruptor (or work for one).











1. Jobs threatened by globalization greatly over lap jobs threatened by computers

Artisan & Local → "Jobs in the middle" → World's Best

2. 'Rules based solutions' no longer exist:

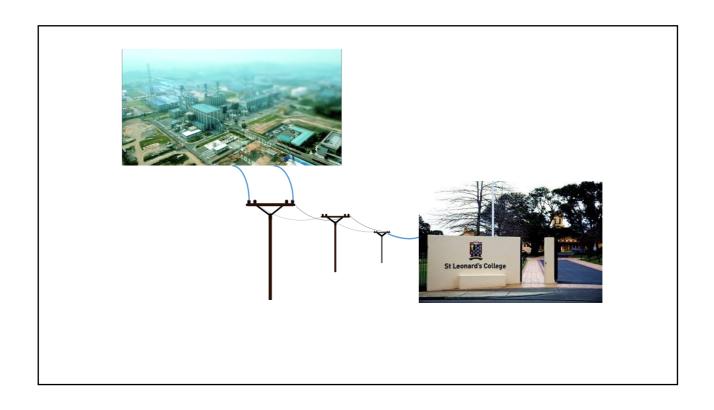
Fragmented ownership of everything
Acquire information, explain and persuade

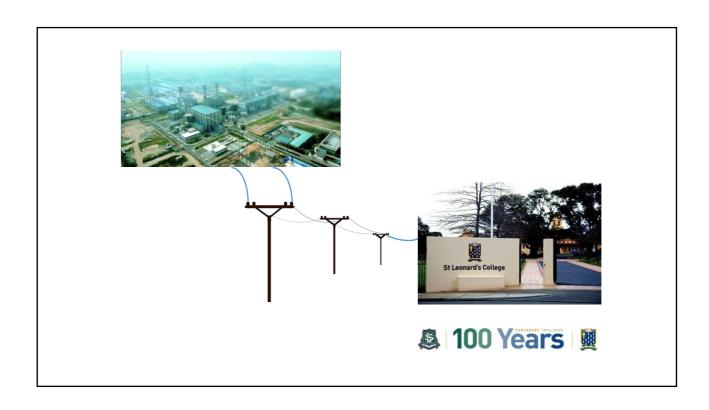
Global Crises = Global Solutions

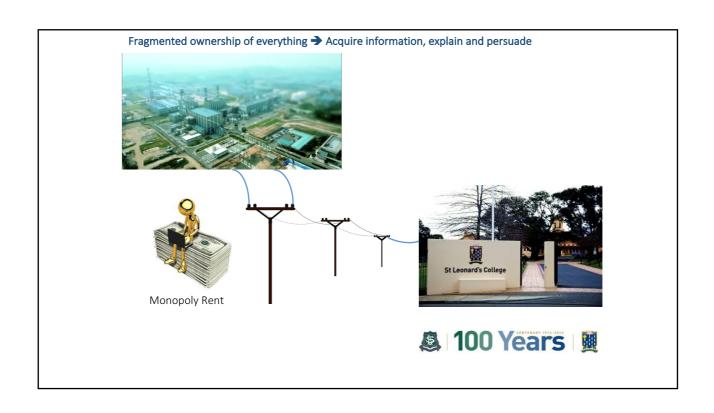




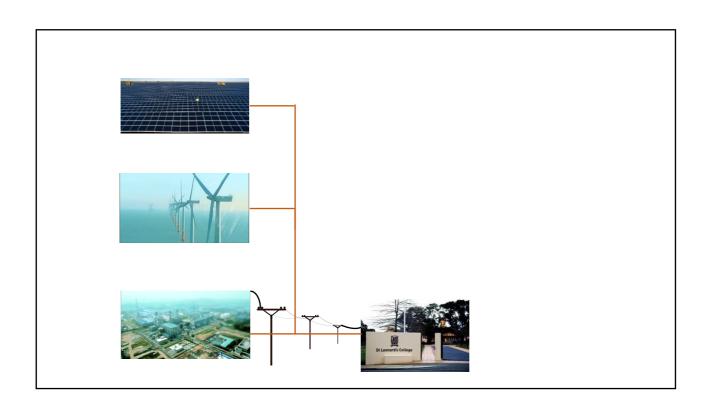


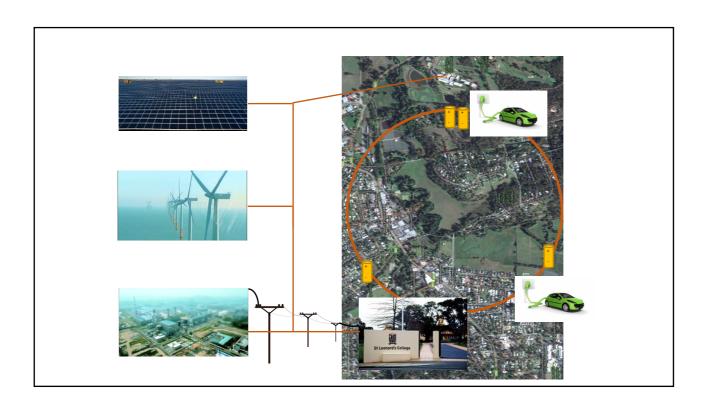




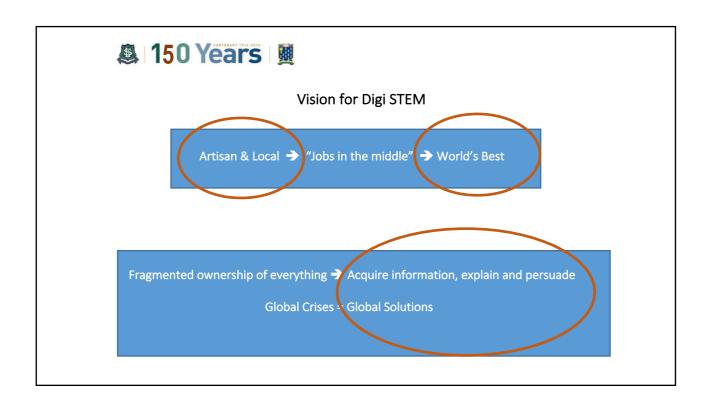








- Reduce cost
- Improved resilience of energy supply
- Greener society
- Empowering communities
- Great jobs





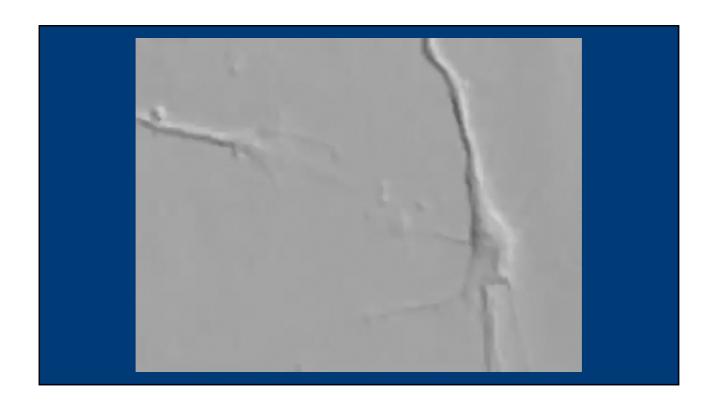


75 per cent of the fastest growing occupations now require STEM skills.

PricewaterhouseCoopers, A smart move: future proofing Australia's workforce by growing skills in science, technology, engineering and maths (STEM), 2015

"all students to complete Year 12 will require successful completion of an English or humanities subject <u>and a maths or science subject</u> as a prerequisite for acquisition of an Australian Tertiary Admission Rank (ATAR)."

Australian Government, Quality Schools, Quality Outcomes, May 2016. https://docs.education.gov.au/system/files/doc/other/quality_schools_acc. pdf



What is
St Leonard's College
doing now?

21st century skills

- collaboration
- problem solving
- · critical thinking
- · creative thinking
- general ICT capability

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Yr 7-12 2016 courses

- Year 8 STEM elective
- Year 10 Programming elective
- VCE Unit 3&4 Software development
- Comprehensive Mathematics and Science courses
- Cocurricular activities
 - Year 8 STEM club
 - Year 3/4 Robotics club

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What is St Leonard's College missing?

DigiSTEM

- New subjects
- · A new faculty area
- Digital Technologies curriculum from VCAA and ACARA
- STEM, elements of the Design Technologies curriculum

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 DigiSTEM staff to work with P-4 teachers to embed key skills and/or develop DigiSTEM projects.

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- Year 8 STEM elective
- Year 10 Programming elective
- VCE Unit 3&4 Software development

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2017 courses

- Year 5 DigiSTEM core
- · Year 6 DigiSTEM core
- · Year 7 DigiSTEM core
- Year 8 STEM elective
- Year 8 DigiTech elective
- Year 9 STEM elective
- Year 9 Game Creation elective
- Year 10 Software Engineering elective
- VCE Unit 1&2 Computing
- VCE Unit 3&4 Software development

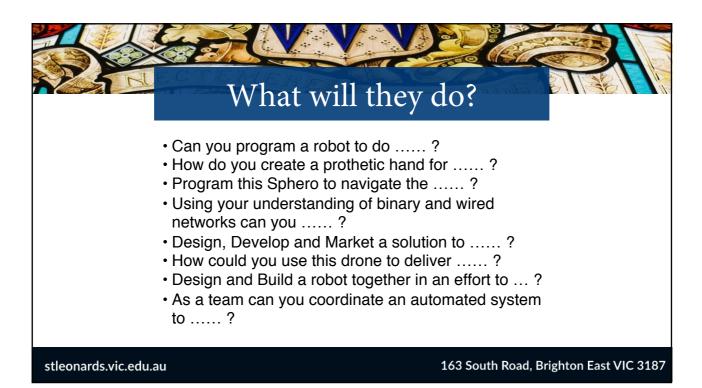
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What will they do?

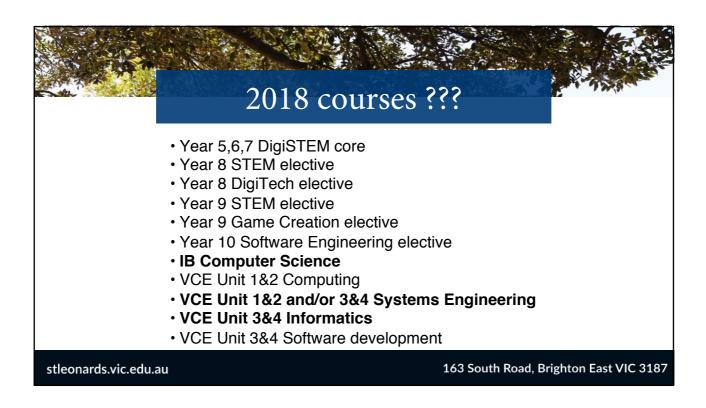
- Curriculum to be based around the new Digital Technologies curriculum from ACARA underpinned by computational thinking.
- A key focus on the design process to enable students to decompose problems and prototype solutions. (Therefore elements of the Design Technologies curriculum).
- Competitions

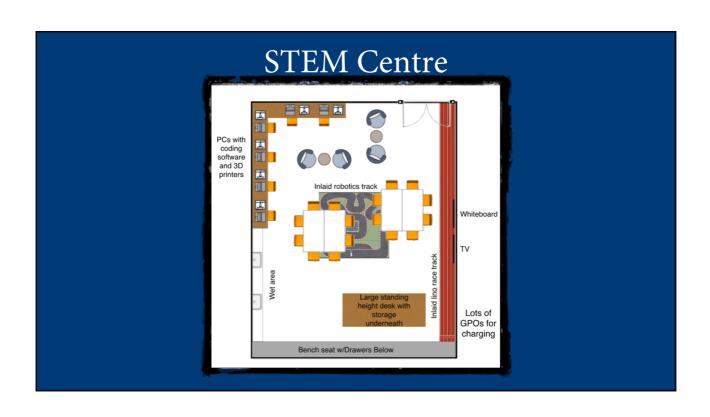
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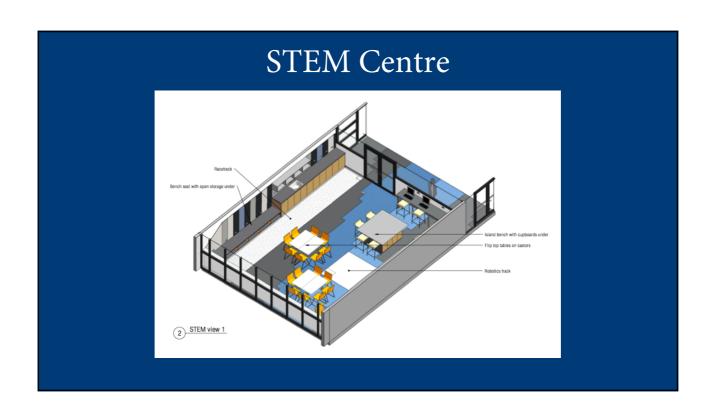


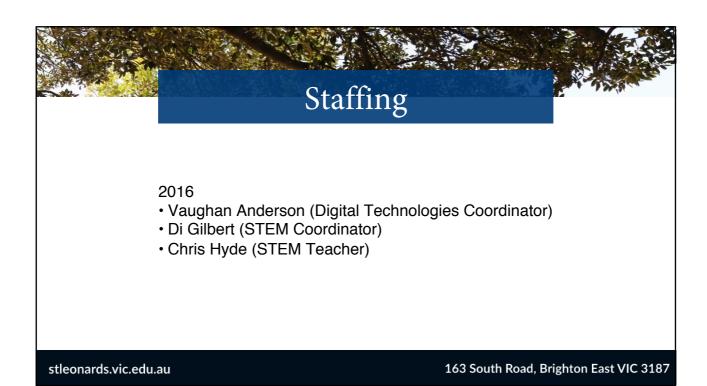


	Pathways				
P-4	DigiSTEM integrated with core skills				
5-7	DigiSTEM as a subject				
8-9	DigiTech and/or STEM				
10-12	DigiTech and/or Sciences and/or Maths				
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Questions?