Australia's Digital Pulse 2018

- Australia's tech jobs are booming:
  - more than 63,000 jobs created in the last three years.
  - the ICT workforce grew 3.5% to 663,100 in 2017
  - about half of these people work outside the ICT sector itself

- Deloitte Access Economics projects Australia will need almost 100,000 tech workers in the next five years simply to keep pace.

- Australia does not have enough graduates to fill the upcoming jobs: our universities produce fewer than 5,000 domestic ICT undergraduates per year.

- the number of women in the industry is below the national average for female participation: women make up just 28% of ICT workers (no change)

- Across all professional industries, females have a 45% representation.

ICT services is an Australian export industry

- ICT services exports have increased more than 60% over the past five years to reach $3.2 billion in 2016-17.
- imports have also increased, but exports exceed imports by $290 million.
- This is the first time since 2008-09 that this has happened.

ACS Information Age 28/6/18

Growth in IT student numbers

Student enrolments in IT are booming

- For first half 2017 the total of commencing students in all fields increased 3%   from 2016 to   432,000

- **For the Information Technology broad field** the number increased
 21.8% to 21,000

- IT increased 14% in 2014, was flat in 2015, increased 13% in 2016
- The total IT load in 2017 (first half) was 63,000
  - This increased 17% from 2016

"When I hear STEM, I wish we could focus on computer science"

- Computer science is the only STEM field where there are more jobs than students (USA)
- The gender gap is in computer science, not in STEM

Hadi Partovi, code.org

The proportion of female enrolments in IT field is changing little

- 12,918 female students were enrolled in IT in **2016**

- This is 19.4% of total enrolments of 66,392
  females 16.4% of domestic students, 22.4% of internationals

- Compare 19.4% female (9,723) in the **2012** total of 50,156
  females 17.5% of domestic total, 21.5% of internationals

Undergraduate satisfaction is pretty average

Study area	Overall satisfaction		Good teaching scale		Generic skills scale	
	2016	2017	2016	2017	2016	2017
Computing and information systems	77.2	79.9	71.9	80.9	78.9	82.3
All study areas	79.7	80.3	73.5	77.1	82.4	82.0
Best: Law	*96.2*	*90.9*	*88.9*	*90.9*	*96.3*	*97.0*

Graduate Outlook Report 2017