QUEENWOOD

Babies & Bathwater:

Education fit for an economy, a democracy and a human being

ELIZABETH STONE

An Education

FIT FOR AN ECONOMY

COMMENT NATIONAL OPINION

The future of work: 17 jobs and five different careers

By **Lucas Walsh**

July 28, 2017 — 2.02pm

With recent ABS figures showing a continuing deterioration of the teenager labour market, combined with multiple job changes happening later in life, the idea of a career may be evaporating.

Why education matters to Australia

Australia's education syste – from early childhood learn g to post-secondary educatio and lifelong learning – has long been a pillar of this country's economic growth and social advancement. Education leads to innovation, increases productivity and has a direct impact on an individual's health, wellbeing and social mobility.

A smart move – future-proofing Australia's workforce by growing skills in STEM

Australia needs to better position itself to compete in the global economy of the future.

Busines have to come to terms with the monumental im hat digitisation and te is having on busin dels, supply chains and customer behaviour.

- 4% (or 5.1 million) jobs are at risk from digital disruption.
- Innovation and STEM education are key to future growth.
- $57.4 billion increase in GDP if we shift just 1% of our workforce into STEM roles.



STEM jobs are growing faster than other jobs

Analysis of labour force data by the Department of Jobs and Small Business shows that jobs in science, technology, engineering and mathematics (STEM) related occupations are growing significantly faster than other occupations.

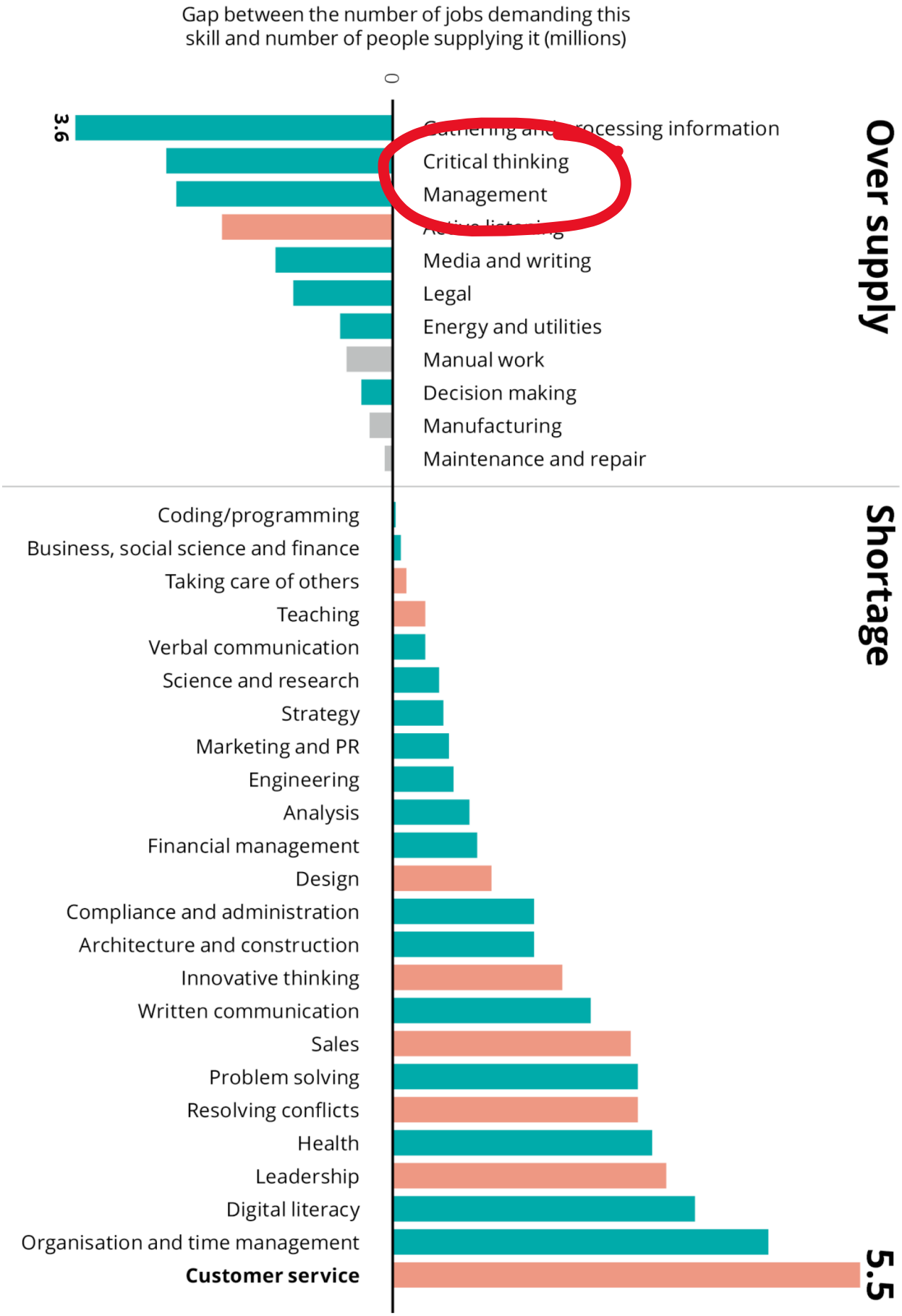
Between November 2013 and November 2018, employment in STEM occupations grew by 16.5 per cent, which is 1.6 times higher than the growth rate in non-STEM jobs.

Science and IT students struggle to get jobs upon graduation, study finds

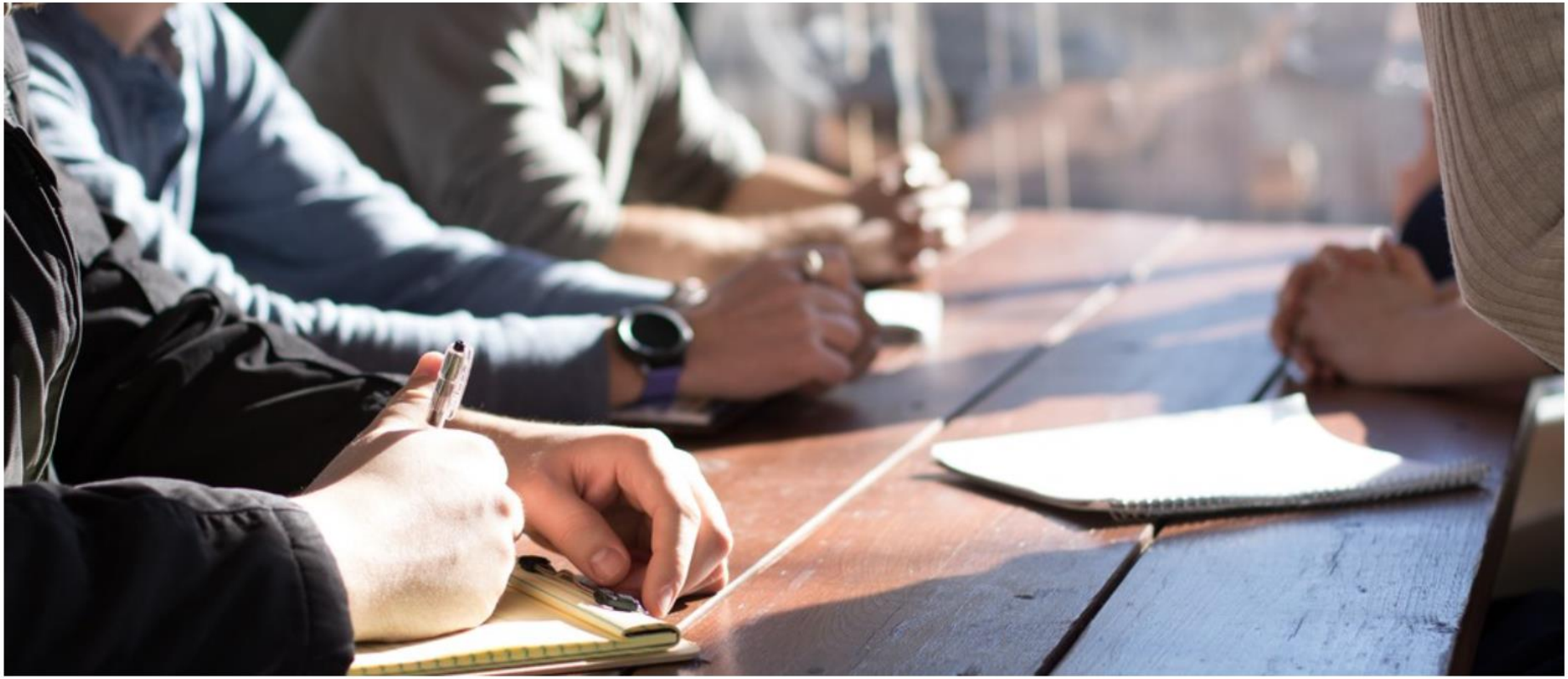
Grattan Institute reports only half of those graduating with degrees in science found work within four months, 17% below the average for all graduates



▲ Students with degrees in science and IT are finding it harder than other graduates to secure a job in their first year out of university, a new report says. Photograph: Felix Clay/The Guardian

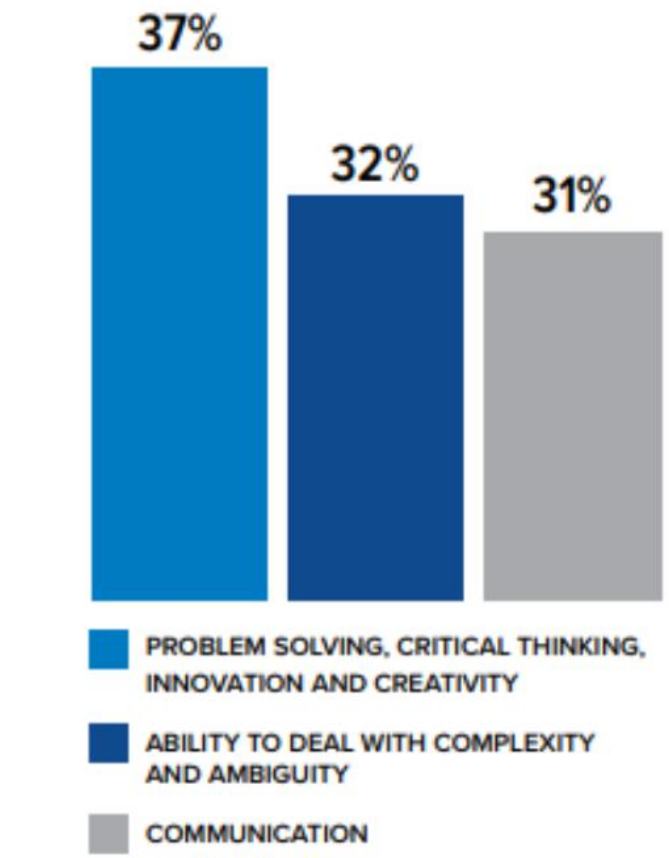

Gap between the number of jobs demanding this skill and number of people supplying it (millions)
0
3.6
Critical thinking
Management
Media and writing
Legal
Energy and utilities
Manual work
Decision making
Manufacturing
Maintenance and repair
Over supply
Coding/programming
Business, social science and finance
Taking care of others
Teaching
Verbal communication
Science and research
Strategy
Marketing and PR
Engineering
Analysis
Financial management
Design
Compliance and administration
Architecture and construction
Innovative thinking
Written communication
Sales
Problem solving
Resolving conflicts
Health
Leadership
Digital literacy
Organisation and time management
Customer service
Shortage
5.5

This soft skill will boost your employability



Human skills will retain or increase their value as the Fourth Industrial Revolution takes hold.

Image: Dylan Gillis on Unsplash



WORLD ECONOMIC FORUM

Wanted: soft skills.

Image: Society for Human Resource Management

THE WALL STREET JOURNAL.

Bosses Seek 'Critical Thinking,' but What Is That?

An Important Skill for Young Workers Has a Variety of Definitions

By Melissa Korn

Oct. 21, 2014 4:35 pm ET

SHARE TEXT 71

Critical thinking is a critical skill for young workers these days.

What that means, though—and how to measure it—is less clear. Employers complain that colleges are not producing graduates who can solve problems and connect the dots on complex issues, but bosses stumble when pressed to describe exactly what skills make critical thinkers. That leaves job seekers wondering what employers really want and, once on the job, unsure of whether

OCCASIONAL PAPER SERIES

How to Teach Critical Thinking

Daniel T. Willingham



A paper commissioned by the NSW Department of Education

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AUSTRALIA + NEW ZEALAND

Business calls for major shakeup in education

CA ANZ survey shows businesses challenging the education system on talent

Australian businesses are throwing down a challenge to the education sector, saying the education system more often than not fails to prepare employees, and prospective employees, for careers in their workplaces.

Myths busted

The report dispels three myths that tend to dominate discussions around the future of work.

Myth 1: Robots will take the jobs. Technology-driven change is accelerating around the world, yet unemployment is close to record lows, including in Australia (where it's around the lowest since 2011). New technologies will have the capacity to automate many tasks, but also create as many jobs as they kill, and employment is growing in roles that are hardest to automate.

Myth 2: People will have lots of jobs over their careers. Despite horror headlines, work is becoming more secure, not less, and Australians are staying in their jobs longer than ever. And nor is the gig economy taking over. Casual jobs are a smaller share of all jobs than 20 years ago, and that share hasn't moved in over a decade. The rate of self-employment has also been falling for almost 50 years and is at a record low.

Myth 3: People will work anywhere but the office. The office isn't going away any time soon, and city CBDs will remain a focal point for workers. More people are working flexibly, but on a given day only one in every 25 workers work remotely, even though almost one in five Australian employers offers the ability for staff to work from home. Being physically close to other creative people is becoming more important, not less, and working together helps us collaborate and socialise, and provides infrastructure and support.

An Education

FIT FOR A DEMOCRACY

Edelman Trust Barometer 2020



2019 General population

53	**Global 26**
79	China
73	Indonesia
72	India
71	UAE
70	Saudi Arabia
62	Singapore
59	Malaysia
58	Mexico
56	Canada
55	Hong Kong
54	The Netherlands
52	Colombia
[illegible]	U.S.
48	Australia
46	Argentina
[illegible]	Brazil
46	Italy
46	S. Korea
45	S. Africa
44	France
44	Germany
43	U.K.
42	Ireland
40	Spain
39	Japan
29	Russia

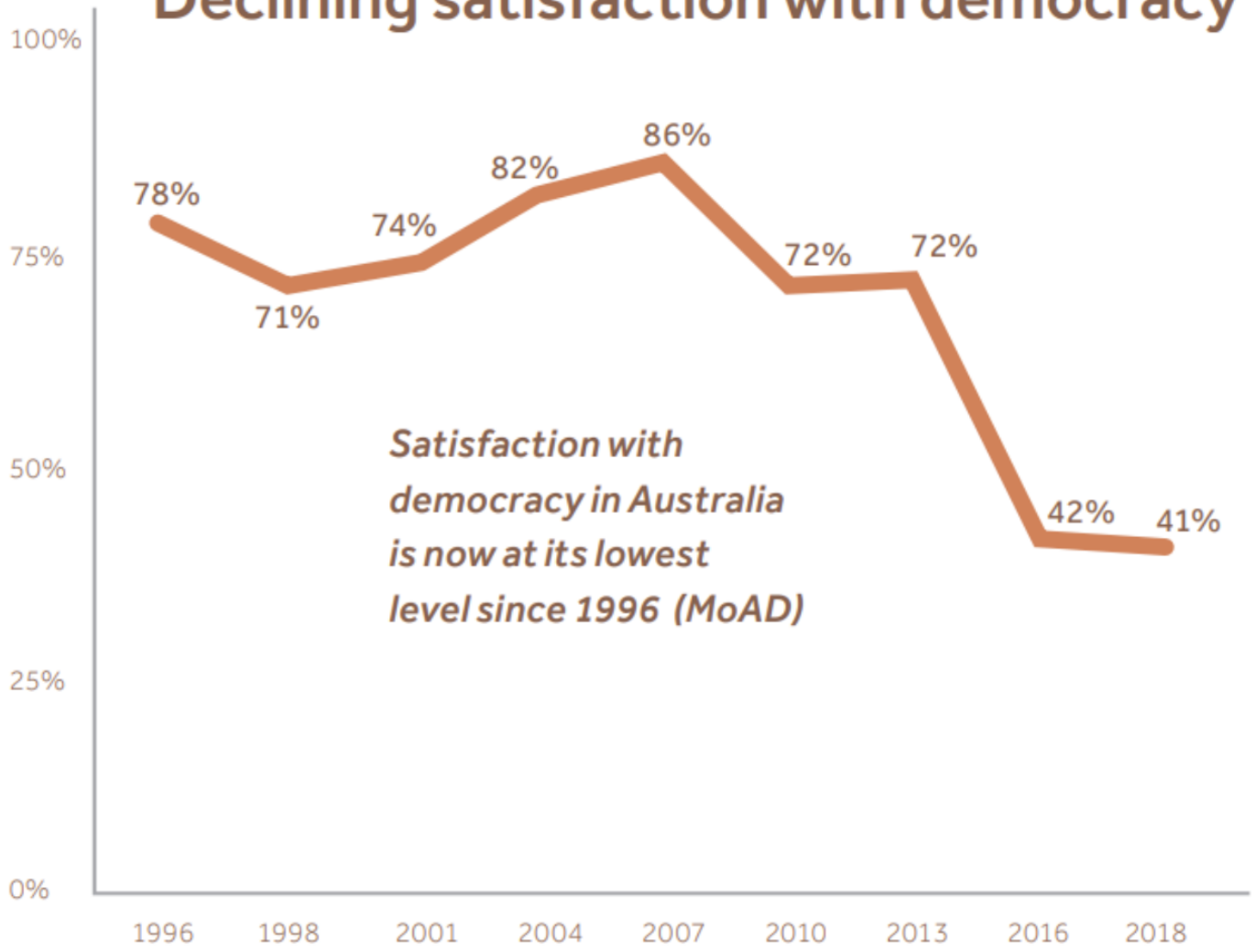
2020 General population

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62	Mexico
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61	Saudi Arabia
60	Malaysia
57	The Netherlands
53	Canada
53	Colombia
51	Brazil
50	Hong Kong
50	S. Korea
[illegible]	[illegible]
49	Italy
47	Australia
47	U.S.
46	Germany
[illegible]	France
45	Ireland
45	Spain
44	S. Africa
42	Japan
42	U.K.
30	Russia

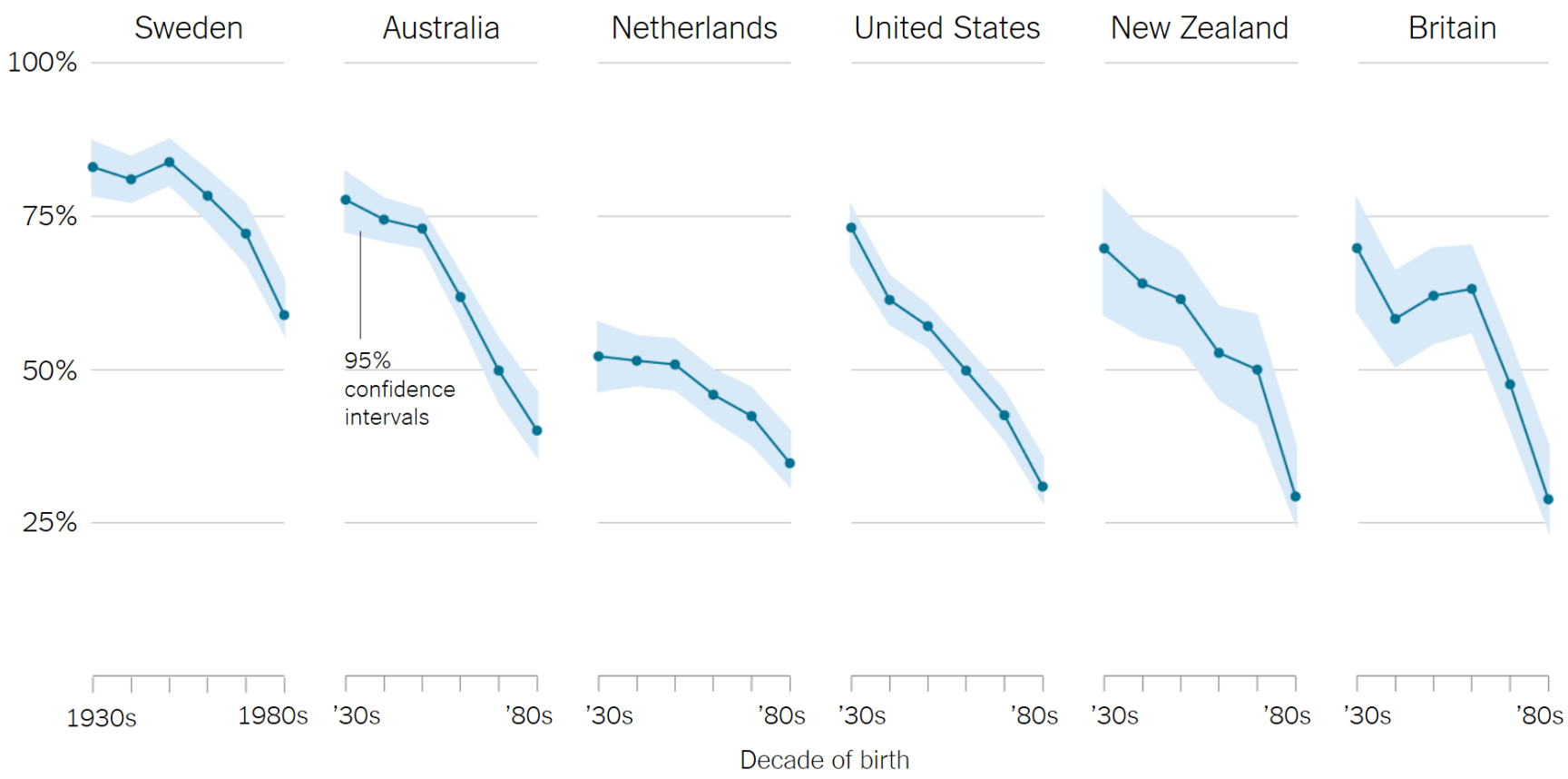


Distrust (1-49) **Neutral** (50-59) **Trust** (60-100)

Declining satisfaction with democracy



Percentage of people who say it is “essential” to live in a democracy



Source: Yascha Mounk and Roberto Stefan Foa, “The Signs of Democratic Deconsolidation,” Journal of Democracy | By The New York Times

Edelman Trust Barometer 2020

WORRY ABOUT QUALITY INFORMATION

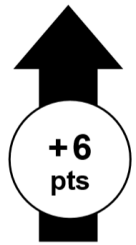
Percent who agree

The media I use are **contaminated with untrustworthy information**

57%

I worry about false information or **fake news being used as a weapon**

76%



Change, 2018 to 2020

2020 Edelman Trust Barometer. ATT_MED_AGR. Below is a list of statements. For each one, please rate how much you agree or disagree with that statement. 9-point scale; top 4 box, agree. Question asked of half of the sample. General population, 25-mkt avg. Data on the left not collected in China, Russia and Thailand. Data on the right excludes Kenya, Thailand, and Saudi Arabia.

An Education

FIT FOR A HUMAN BEING

Students in Brooklyn protest their school's use of a Zuckerberg-backed online curriculum designed by Facebook engineers

PAIGE LESKIN

NOV 13, 2018, 6:02 AM

FACEBOOK TWITTER REDDIT LINKEDIN EMAIL

- High school students at Brooklyn's Secondary School for Journalism staged a walkout last week to protest perceived "wrongdoings" at the school, which include the use of an online curriculum called "Summit Learning" that stresses independent learning.
- Schools across the nation have implemented this free web-based program, which was designed with the help of Facebook engineers and funded by CEO Mark Zuckerberg and his wife Priscilla Chan.
- However, students at the Brooklyn high school – and at other schools – have criticised the program for its lack of effectiveness, as well as expressed concerns over data privacy.



Ditch the bathwater:

- Speculating about future workforce
- Non-expert prescriptions for education
- Narrow focus on economic benefits
- Overconfident rigidity or paralysing scepticism
- People treated as economic units who learn like computers.



Keep the baby:

- Planning for the future workforce
- Expert advocacy
- Economic, democratic, social and personal development
- Optimistic search for common truths
- Education founded on human dignity, recognising capacity to shape minds and form character.


QUEENWOOD
Per aspera ad astra