



Parliamentary Library

Technology briefing: blockchain

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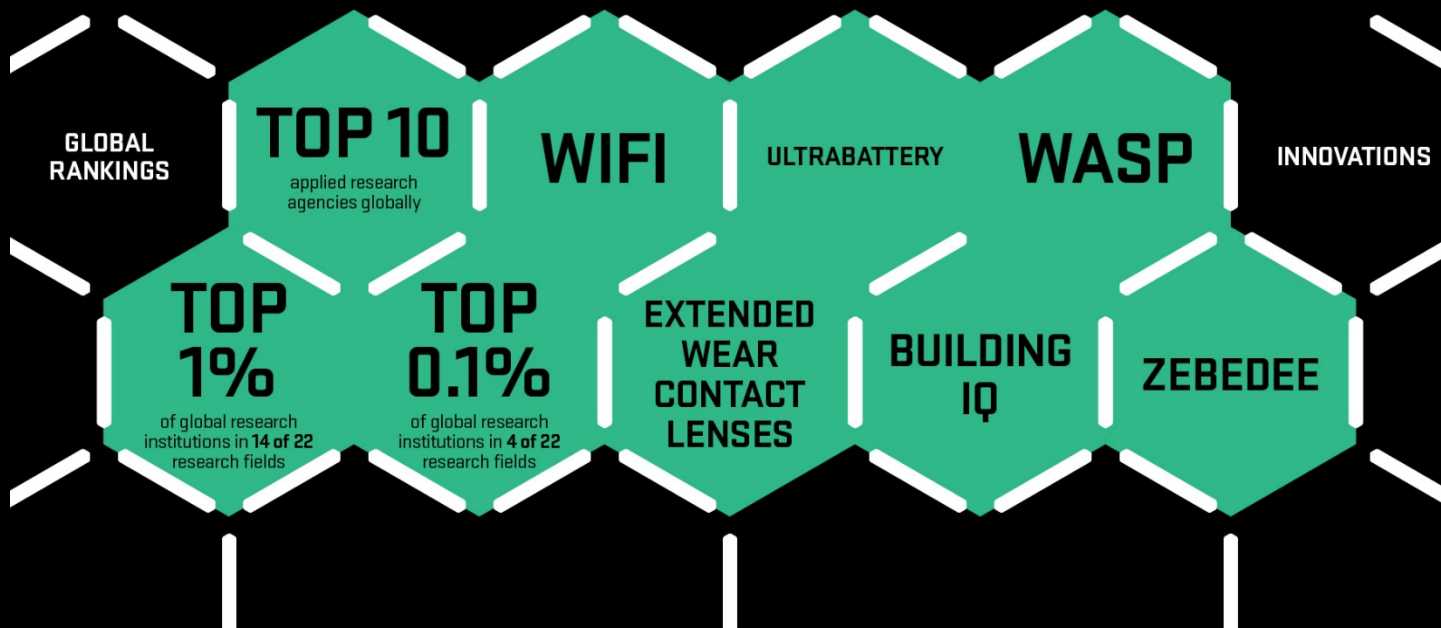


CSIRO - POSITIVE IMPACT



DATA
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- 5300 staff
- Over 2000 hold doctorates
- \$1.2 billion annual operating budget
- 2000+ industry partners totaling \$220 million+ per year





DATA
61



DATA
61

AUSTRALIA'S DIGITAL INNOVATION POWERHOUSE

1100+
employees
[including students]

415+
students

31
Government
partners

91
Corporate
partners

29
University
partners

190+
data-driven
projects

172
patents



GENEVIEVE BELL

- Director of the 3A Institute
- Distinguished Professor at the ANU
- Vice President and Senior Fellow at Intel Corporation.

Cultural anthropologist, technologist and futurist best known for her work at the intersection of cultural practice and technology development.

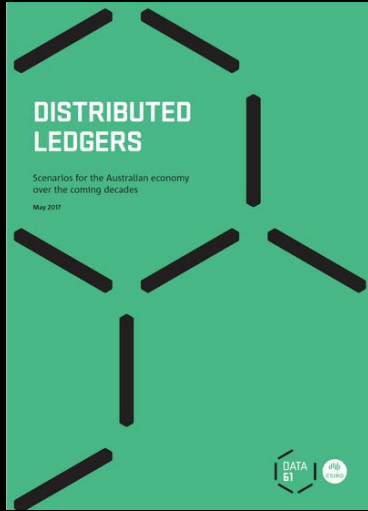




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Want more?



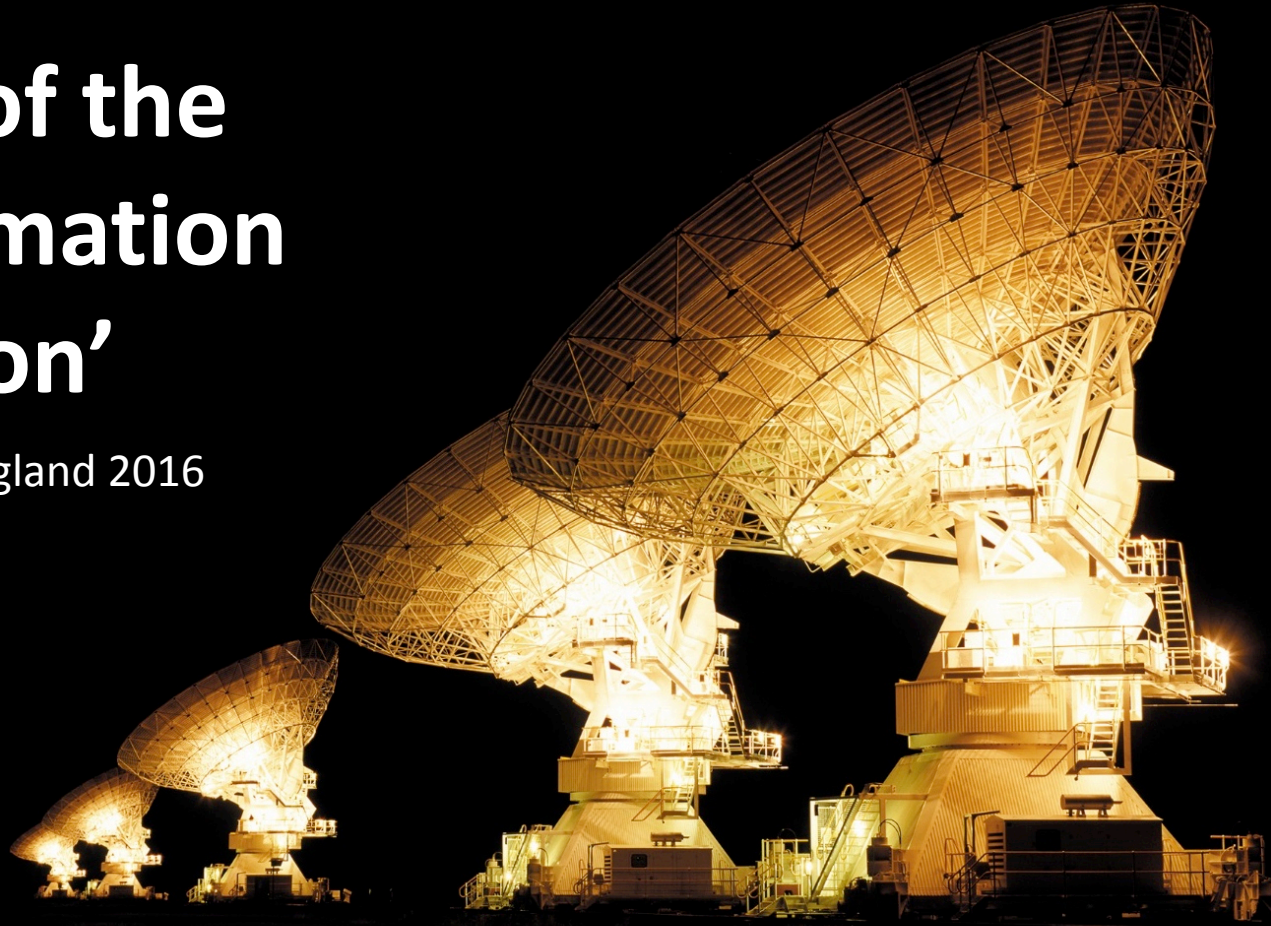
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www.data61.csiro.au/blockchain

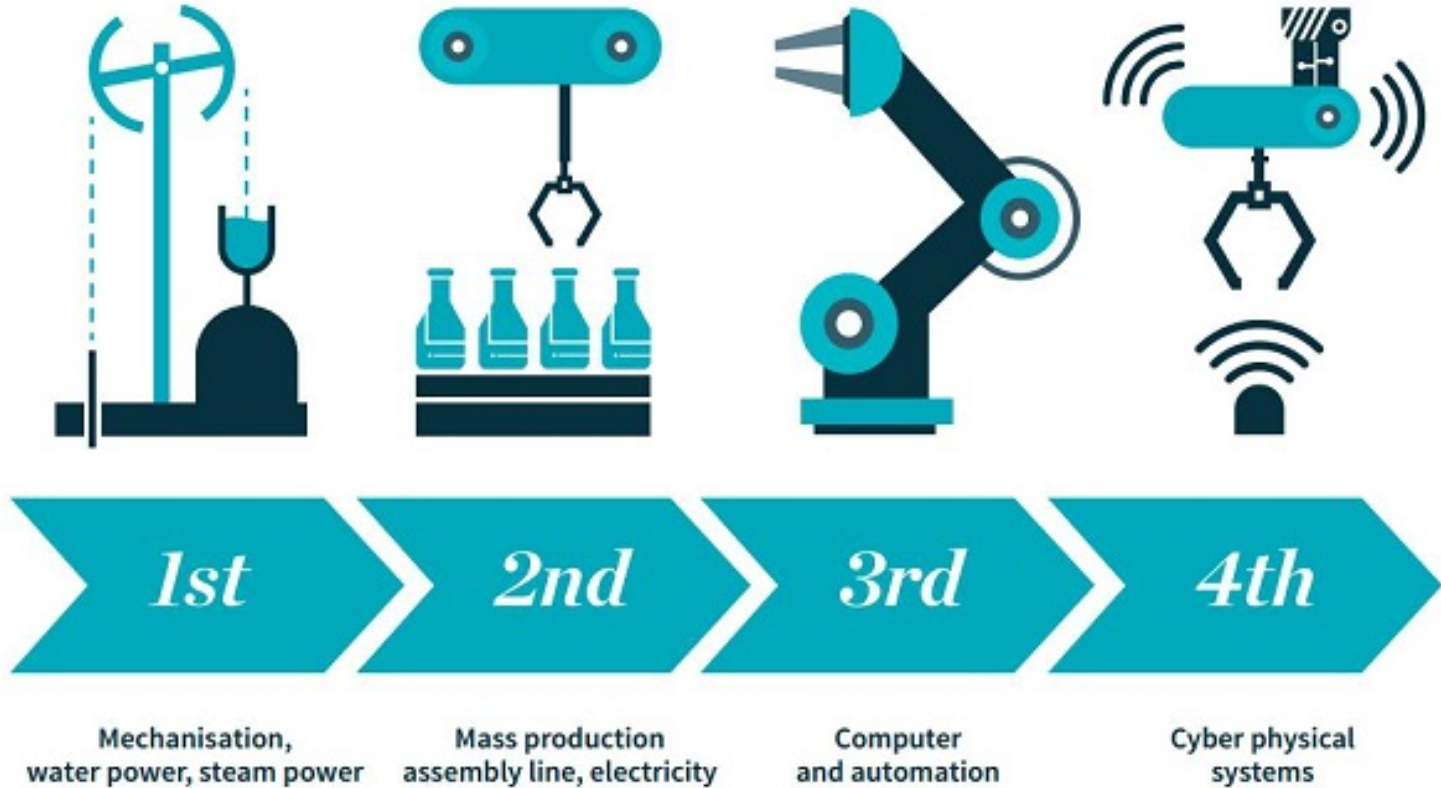


'The start of the fourth information revolution'

Head of the Bank of England 2016

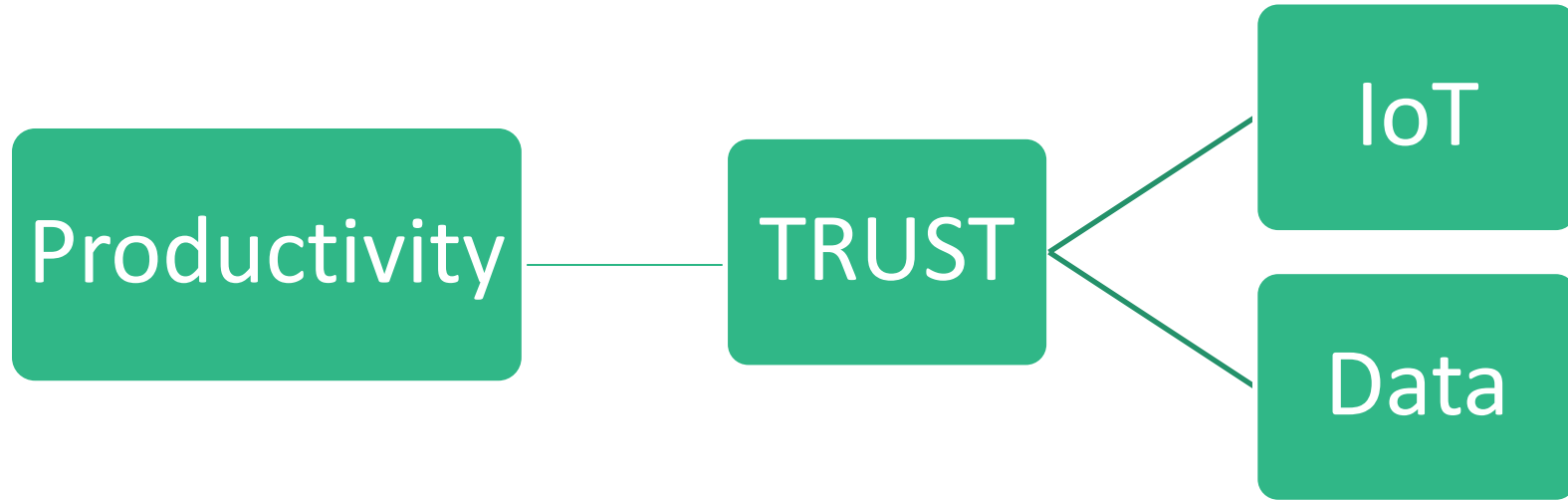


Fourth Industrial Revolution



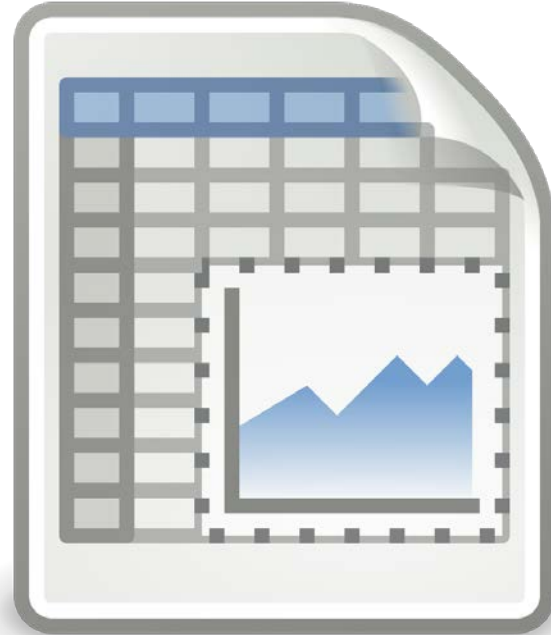


What's the story?





Spreadsheet Metaphor

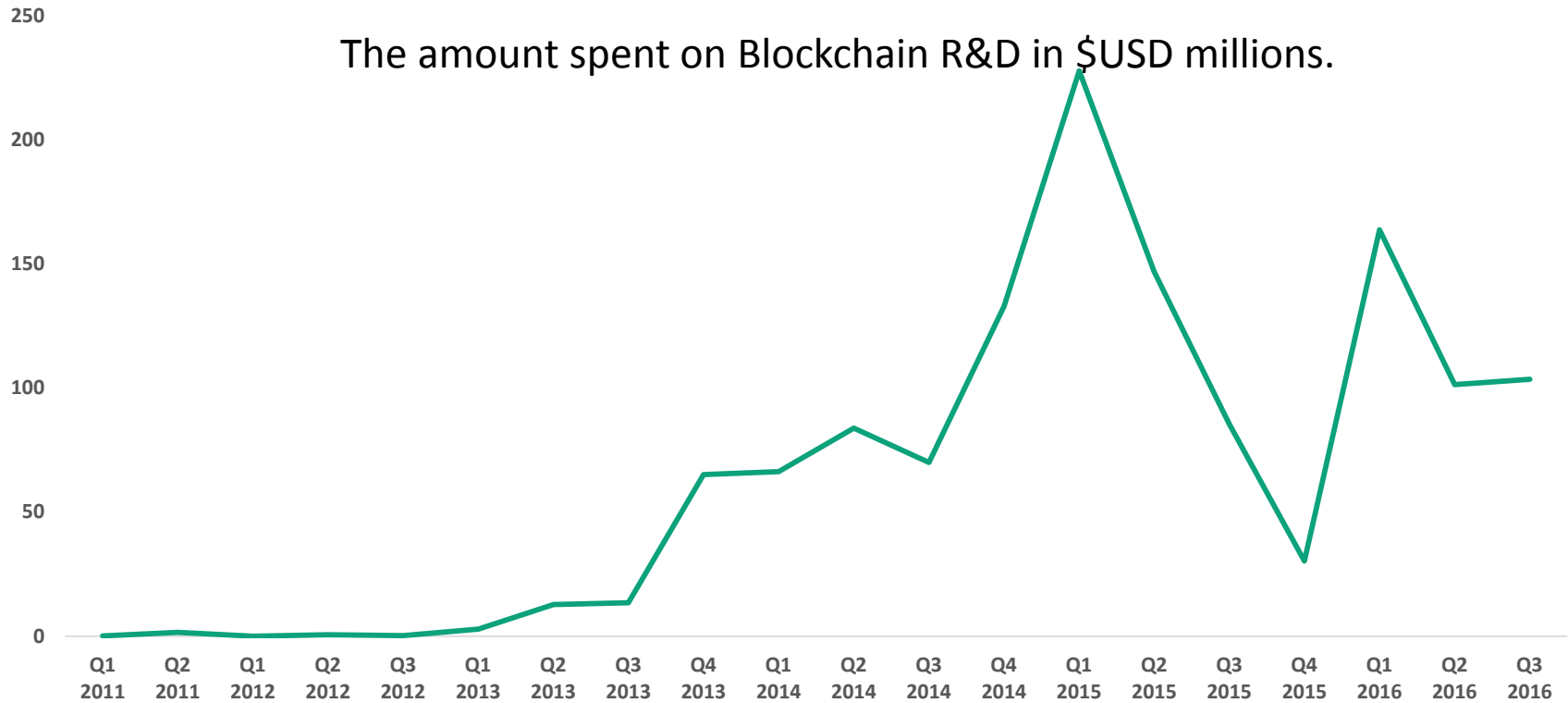




The first use case

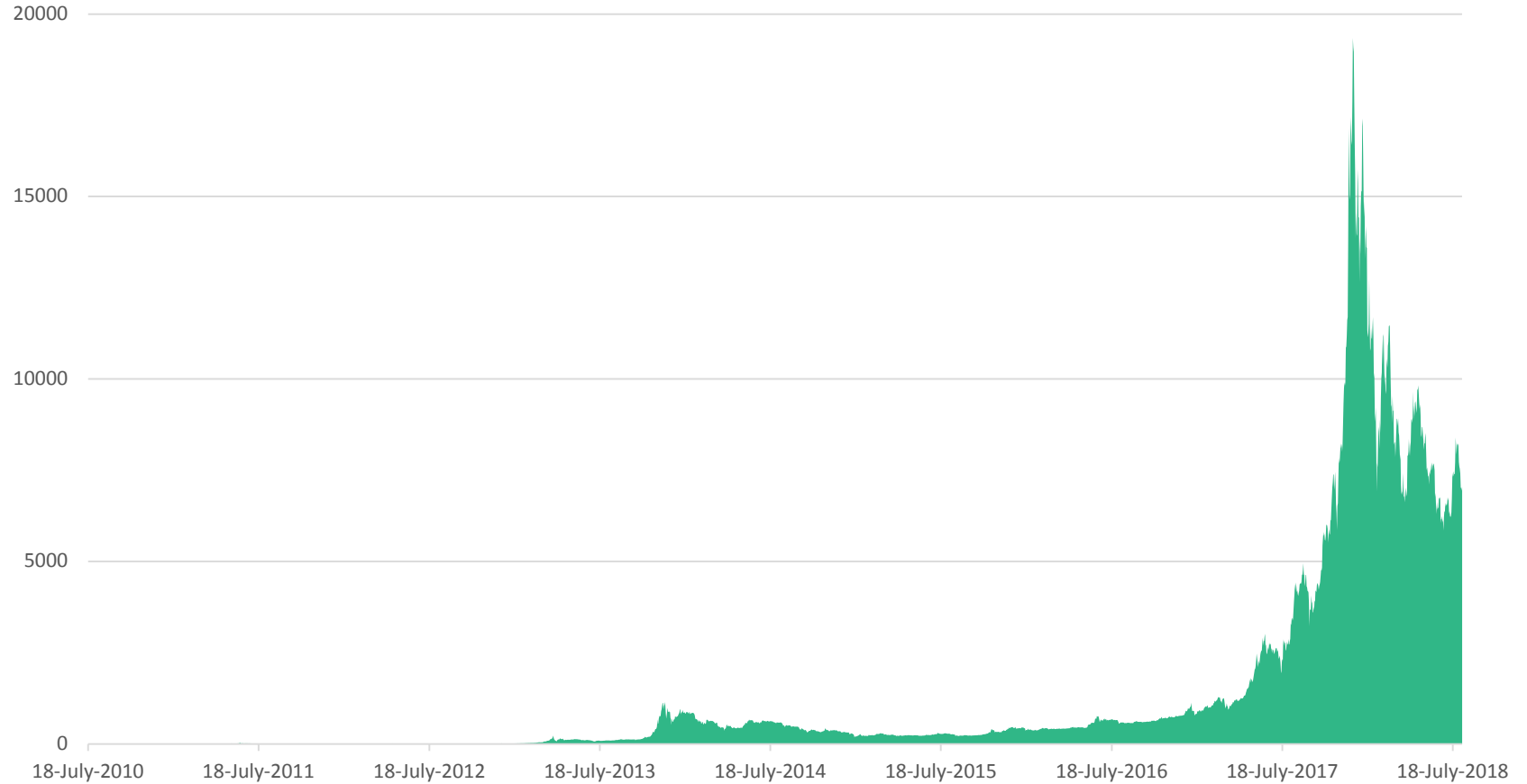


Follow the money...



All that glitters...

Source: Coindesk.com



The New York Times

Here's Some Cryptocurrency. Now Please Use It.

'...few cryptocurrency projects have evolved to the point where anyone is using the tokens as anything other than an investment.'

By Nathaniel Popper

July 1, 2018



COINTELEGRAPH
live cryptocurrency community opinion



By Maxwell William

JUL 28, 2018

New Gallup Poll Shows Only 2% of US Investors Own Bitcoin, But 26% Are 'Intrigued'

Investor takes out \$127,000 loan to buy cryptocurrency, loses 85 per cent

A 32-YEAR-OLD has revealed his eye-watering \$3000-a-month “lesson” after making a seriously poor financial decision.



Frank Chung [@franks_chung](#)



AUGUST 14, 2018 4:07PM



Use cases

- Integrity
- Provenance
- Transparency
- Disintermediation
- ...

Internet of Trust



OECD Digital Economy
Outlook 2015





T-Provenance has the potential to revolutionise the mango supply chain and deliver benefits for growers. By using the blockchain to provide transparency from the farmer to the consumer, we can truly keep Australia at the cutting edge of agricultural technology. We are excited to be involved in pioneering this unique approach.

— Marie Picone, CEO of Manbulloo Ltd



RESOURCES

Building a blockchain for agri-supply chains

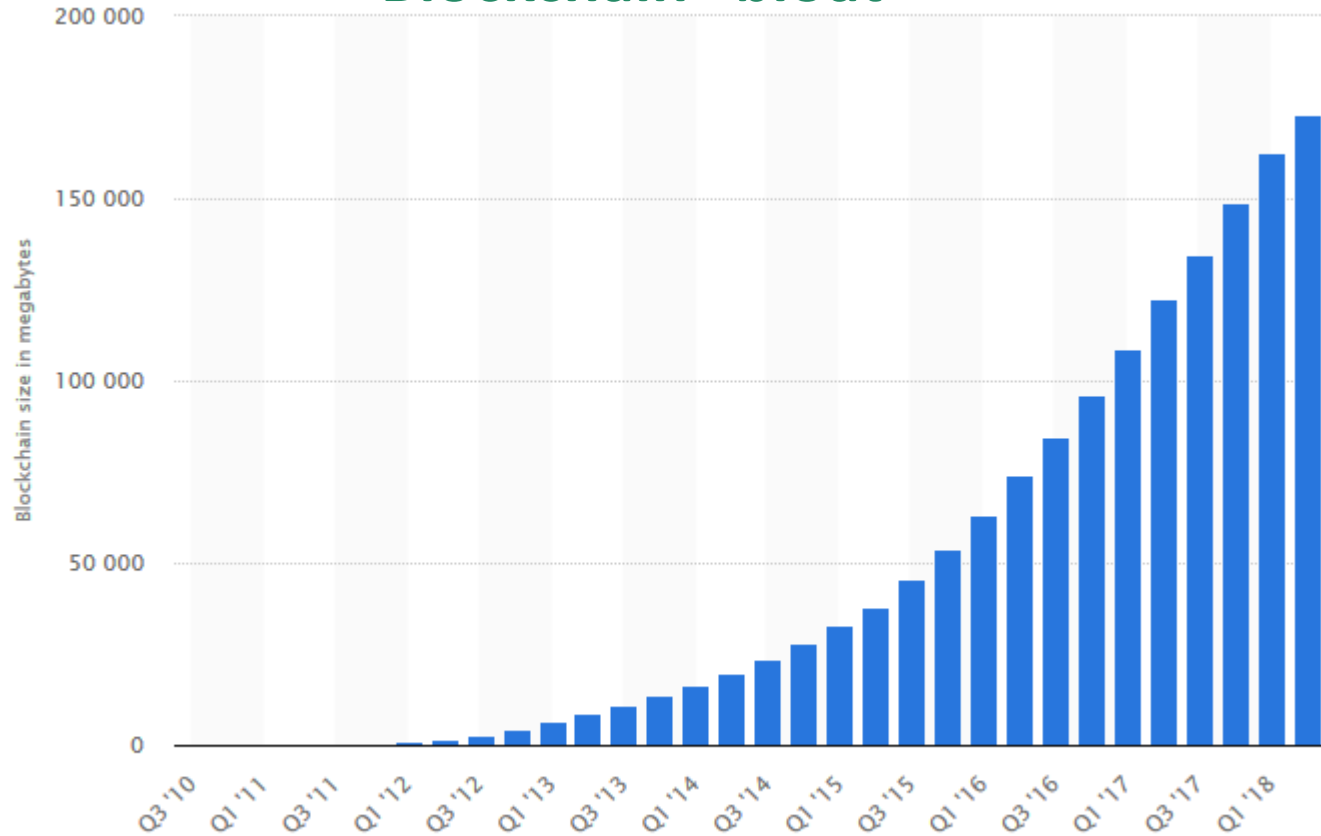
AgriDigital is building the trusted and efficient agri-supply chains of the future where all participants can operate with full confidence. Blockchain is part of the future of secure agri-supply chains. Through digital title we provide payment security and transparency for all participants, we prove product integrity and move from the disconnected and siloed supply chains of today to the value chains of tomorrow.



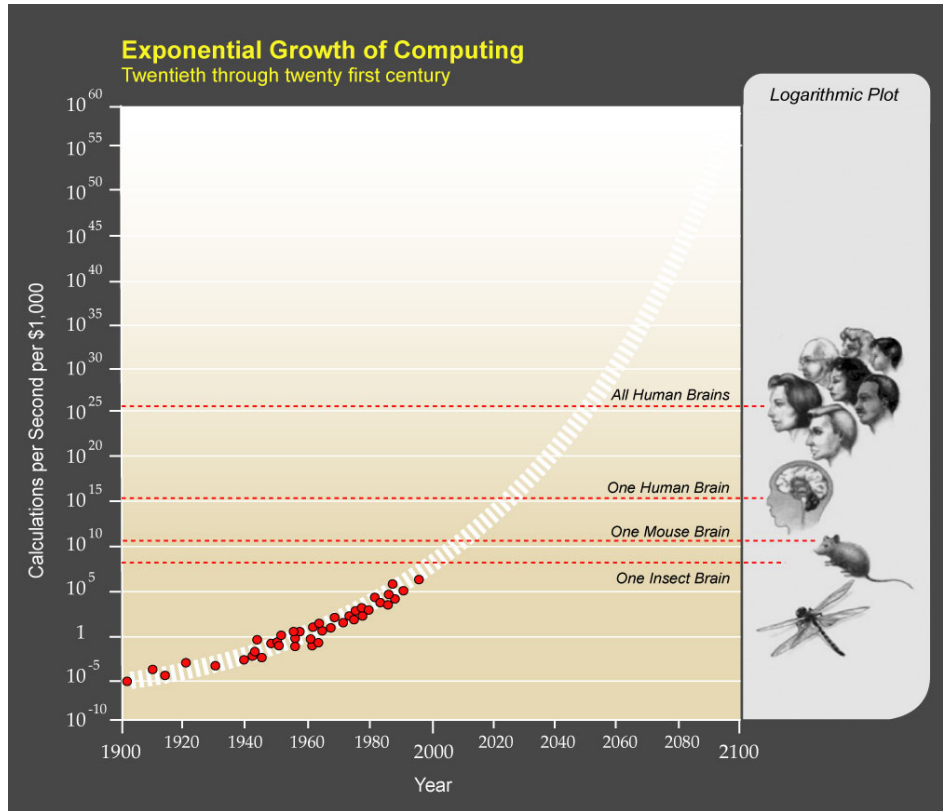


Drawbacks

Blockchain “bloat”



Drawbacks Compute





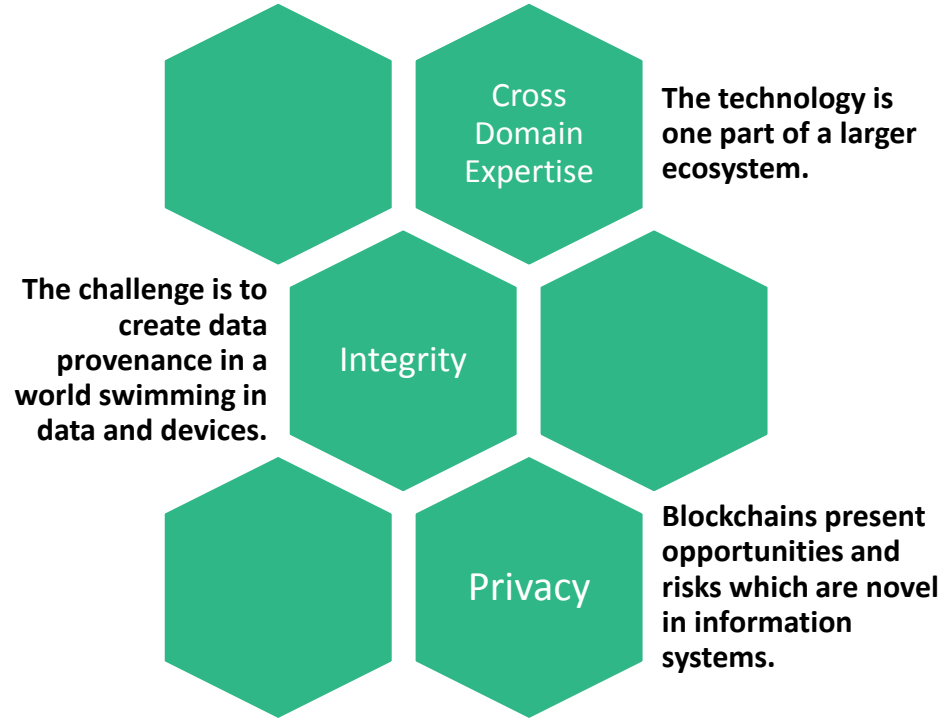
Drawbacks

Toxic Data





Key points for government and business





Block chain visualisation

<http://ethviewer.live>



THANK YOU

