



Opportunities in Technology

An introduction to AI, Blockchain, and Emerging Technologies

By Marc Lijour

November 23, 2017

*The world-first Free/Libre Open Source and Crowdfunded R&Hub
focusing on Blockchain and related technologies*



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1 Technology: Past, Present, and Future

2 Booming Areas

- Internet of Things
- Artificial Intelligence
- Blockchain

3 Career Implications



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Economics of Technology

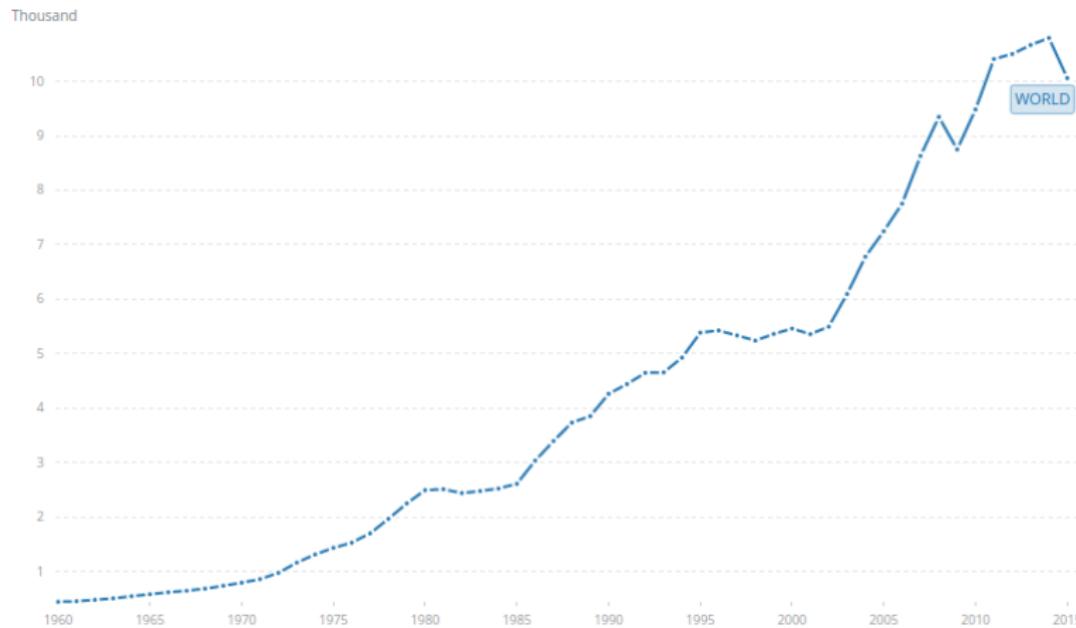


Figure: World GDP per capita, World Bank, 2017



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The 4th Industrial Revolution

Everyone talks about it -Businesses & Government alike



Figure: The topic of conversation since Davos 2016 (Credit: Reuters)

The 4th Industrial Revolution

“The new technology revolution, which entails nothing less than a transformation of mankind.” —Klaus Schwab, founder and executive chairman of the World Economic Forum

Schwab, K. (2016). *The fourth industrial revolution.* Geneva: World Economic Forum



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Emerging Technologies (Gartner's Hype Cycle, 2015)



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The IoT market value at stake

\$19T over 10 years according to Cisco



Figure: Verticals with highest \$ potential Credit: John Chambers Keynote (Cisco, 2014)



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Artificial Intelligence



Figure: Credit: geralt





COMMITTED TO
IMPROVING THE STATE
OF THE WORLD

White Paper

Realizing the Potential of Blockchain

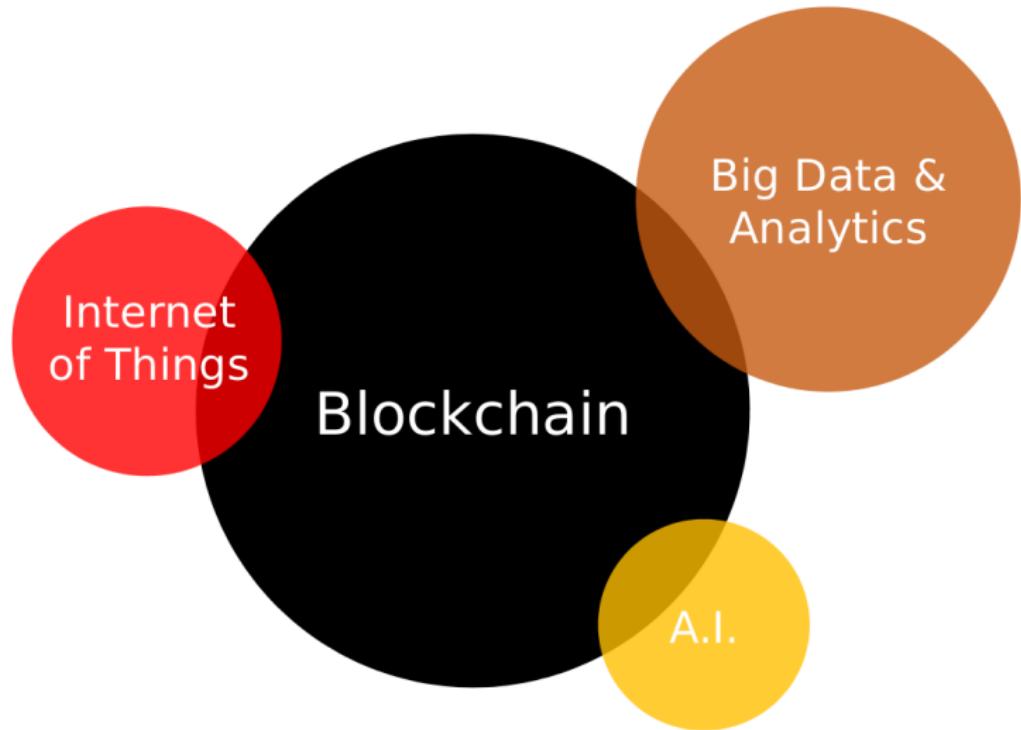
A Multistakeholder Approach to the Stewardship of Blockchain and Cryptocurrencies

June 2017

Figure: Credit: World Economic Forum



Related Technologies



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Open Source runs (almost) Everything

2015 was an inflection point

<https://www.blackducksoftware.com/future-of-open-source>

WIRED

Open Source Software Went Nuclear This Year

CADE METZ BUSINESS 12.27.15 7:00 AM

OPEN SOURCE SOFTWARE WENT NUCLEAR THIS YEAR

OVER THE NEXT 2 – 3 YEARS...

88% TO INCREASE OPEN SOURCE CONTRIBUTIONS

61% EXPECT SECURITY OF OPEN SOURCE TO RISE

EXPECTED TO BE IMPACTED MOST:

- CLOUD COMPUTING 39%
- BIG DATA 35%
- OPERATING SYSTEMS 33%
- INTERNET OF THINGS 31%

HOW & WHY COMPANIES ARE USING OPEN SOURCE

The 2015 Future of Open Source Survey finds

78% OF COMPANIES RUN ON OPEN SOURCE
(nearly double since 2010) &

64% PARTICIPATE IN OPEN SOURCE PROJECTS.

yet many still lack formal policies and processes to manage potential open source-related security, operational, and legal risks.

66% OF COMPANIES BUILD CUSTOMER SOFTWARE ON OPEN SOURCE

OPEN SOURCE USE & PARTICIPATION HAS REACHED AN ALL-TIME HIGH

93% OPEN SOURCE USE INCREASED OR STAYED THE SAME

Trend	Percentage
UNSURE	5%
SAME	28%
INCREASED	65%
DECREASED	2%



Case Study: ColliderX

<https://www.collider-x.org>

- World-first Open Source Crowdfunded R&D Hub focusing on Blockchain and related technologies (AI, IoT, ...)



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- Building **the digital infrastructure of tomorrow**
- Now building a Blockchain **Innovation Supercluster** in Canada



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- Building **the digital infrastructure of tomorrow**
- Now building a Blockchain **Innovation Supercluster** in Canada
- Open to all researchers/developers/tinkerers and backers in the world



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- Life-long Learning



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Thank you!

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