Social Innovation Research Institute
Society 4.0 Forum
8 November 2018

Shaping the Digital Economy for Good

#Society4.0
Presentation: 
Data, Technology, Systems and Transformation

Nick Davis
Head of Society and Innovation
World Economic Forum
The Fourth Industrial Revolution: Ethics and Governance in Society 4.0

Nicholas Davis, Head of Society and Innovation, World Economic Forum
4IR recombinant innovation

Augmented Reality

Artificial Intelligence

3D Printing

Robotics

Autonomy

Neurotechnologies, Biotechnologies, Distributed Ledger Technologies, IoT, Advanced Computing, Cybersecurity, Geoengineering, Breakthrough Energy Technologies, Advanced Materials…

10+ key technologies
4IR
multiple perspectives

- A deliberately inclusive mental model
- A recognition of societal transformation
- The emergence of new industrial models
- A systemic governance challenge
Three myths

- It’s all about the technologies – they determine our future
- It’s overwhelming us - we can only accept it and get on board
- Technologies are value neutral – they’re just tools
4IR
Ethics?

- Values
- Principles
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Walkout for Real Change

On Thursday, November 1st, Googlers and TVCs will walk out to protest sexual harassment, misconduct, lack of transparency, and a workplace culture that’s not working for everyone.

WHAT: Walkout and rally to demand a fair and equal workplace.
WHERE: Your local office, go/walkout-info for details.
WHO: All are welcome. Solidarity welcome from allies.

11/1 @ 11:10am

REMINDER: Concerted activity to improve working conditions is protected by law in the US. You have the right to demand change without facing retaliation at work. Talk to your location organizer if you have questions or concerns about your right to walk out.
The Black Elephant is a transformative problem that we collectively intuit while pretending it doesn’t exist.
Technological Development Cycle
Expanding far beyond “product development”

Source: World Economic Forum
4IR values… not necessarily in opposition

- Autonomy… as well as efficiency
- Privacy… with collective safety
- Solidarity… plus agility
- …
systems, not technologies
empowering, not determining
by design, not default
values as a feature, not a bug
4IR tools

- Involve others
- Surface assumptions
- Explore consequences
- Align incentives
- Facilitate decisions
- Maintain flexibility
Empower yourself

The wonderful and terrifying implications of computers that can learn

Source: TED
Empower others
Be political
Be human
Committed to Improving the State of the World