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Science Fiction: A Tool for Foresight?





Food For Thought

Hank Kune Educore/I2SI 4 april 2018



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What this presentation is about:

- A personal story
- Some ideas for inspiration
- Several examples
- A little exercise for thinking
- Creative conversations and some sharing



What I hope you will take away:





- New and/or renewed interest in science fiction as a tool for foresight
- Ideas above how it can change the conversation
- Insights about how to apply it in your work

Today: a story about looking (seeing around corners)





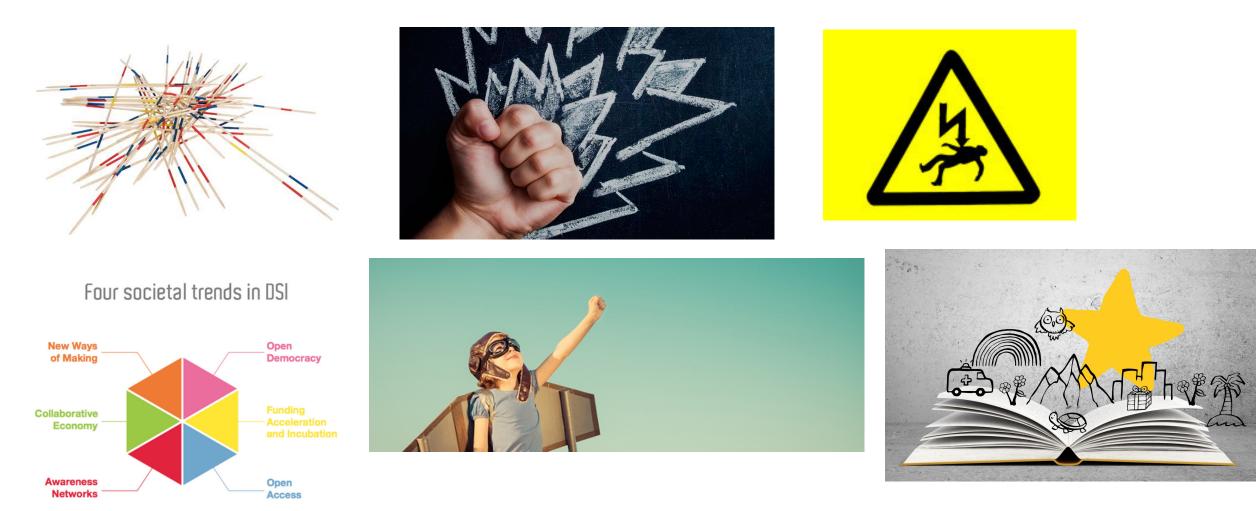




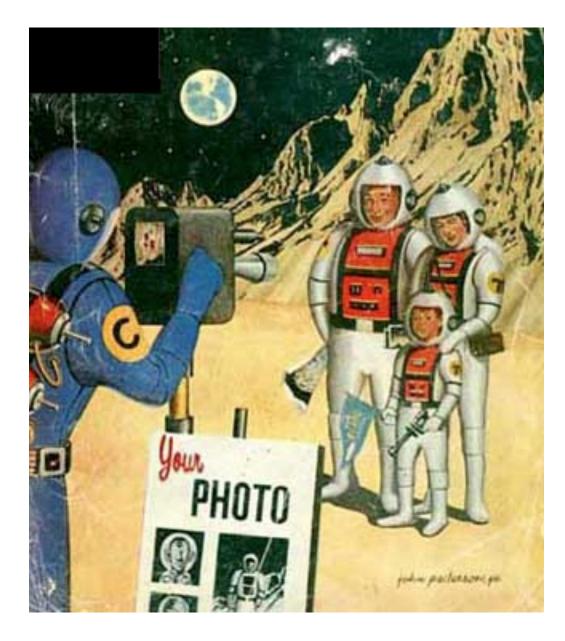


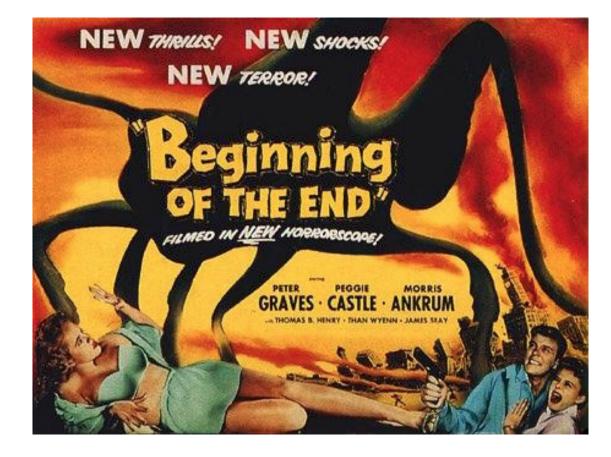


The Science Fiction story



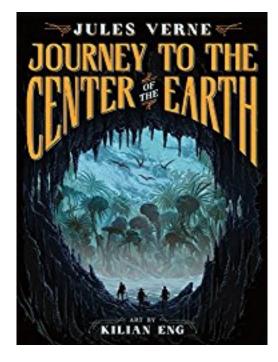
What's emerging, what's converging? What interests the inventors and innovators of tomorrow?



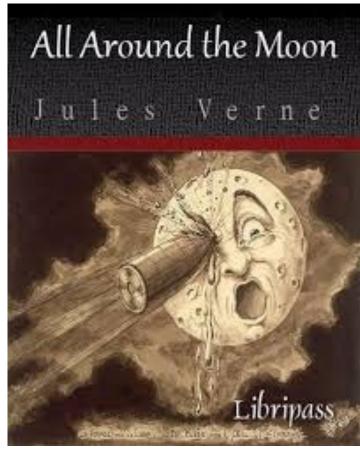


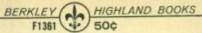
WORDSWORTH CLASSICS Twenty Thousand Leagues Under the Sea JULES VERNE











H_G_WELI

By the author of THE ISLAND OF DR. MOREAU and THE WAR OF THE WORLDS

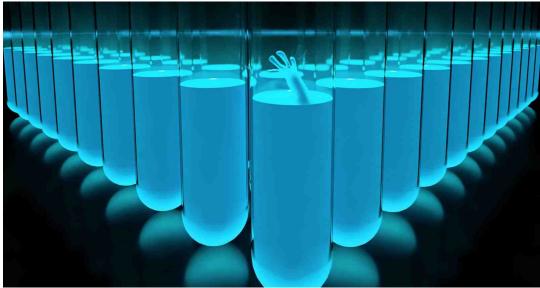
THE FIRST MEN NTHE MOON By the author of THE TIME MACHINE

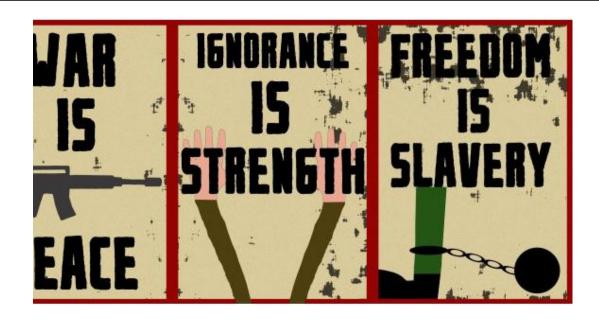
BERKLEY F1398 50¢ H.G.WELLS The NVISIBLE MAN

> GREAT ILLUSTRATED CLASSICS THE WAR OF THE WORLDS H.G. Wells

WITH MAP ON BACK COVER





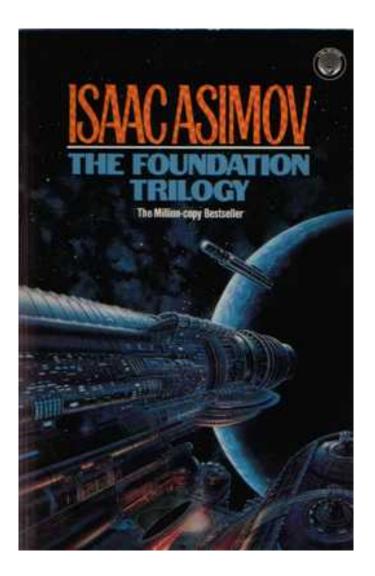


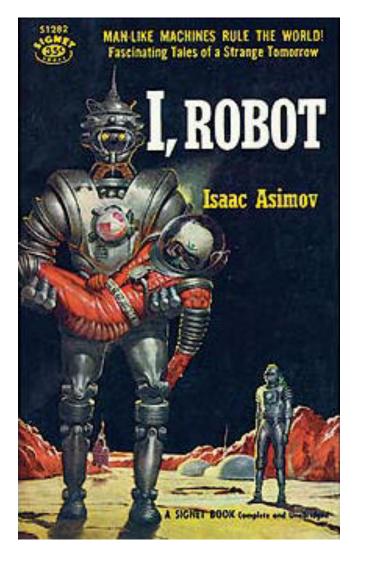


THEMES

Conditioning Social Destinies

the dystopian, futuristic landscape of *Brave New World*, people are mass roduced in test tubes. Lab technicians chemically decide each person's hysical and intellectual traits, and individual thought is disdained. For utcast John Savage, the idea of emotional and intellectual conformity is







Big Data

Robotics

Social Media & Serious Gaming

Societies at different stages of development

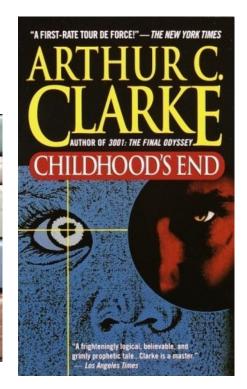
GRANADA THE SENTIMENTAL AGENTS IN THE VOLYEN EMPIRE

GRANADA THE MAKING OF THE REPRESENTATIVE FOR PLANET 8

THE SIRIAN EXPERIMENTS

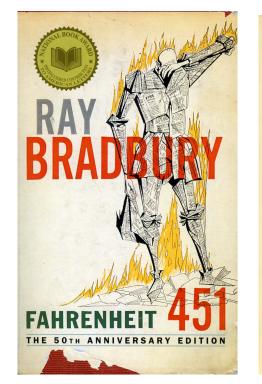
GRANADA THE MARRIAGES BETWEEN ZONES THREE, FOUR, AND FIVE

DORIS LESSING SHIKASTA



GRANADA

Dystopian futures



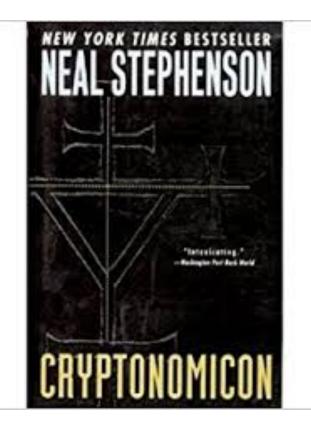






Cyberspace & Hacking





Cybersecurity

"We over-expect dramatic developments early, and under-expect them in the longer term" – Paul Saffo WINNER OF THE HUGO AND NEBULA AWARDS For Best science fiction novel of the year

Ursula K. Le Guin



THE LEFT HAND OF DARKNESS "[A] science fiction masterpiece."—Newsweek



Gender-free worlds



As great scientists have said and as all children know, it is above all **by the imagination** that we achieve perception, and compassion, and hope.

-URSULA K. LE GUIN

What's happening now?





Life extension

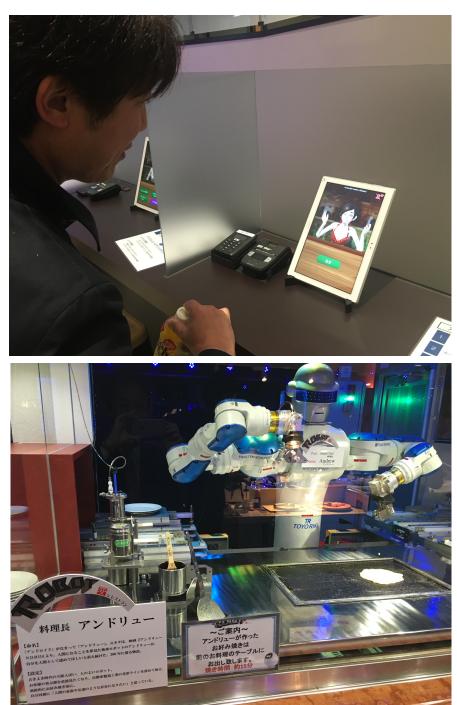
Sensors & Smart dust



Clones & Drones



Science that looks like science fiction







Women: heroes and authors!

Space or science fiction has become a dialect for our time.

End of the world (as we know it)

Chinese science fiction







Movies Based on the Work of Philip K. Dick

- Blade Runner
- Total Recall
- A Scanner Darkly
- Minority Report
- The Adjustment Bureau
- Man in the High Castle









POLICE SHEE B

The Twilight ZONE

1959 - 1964

THE C FLLES

1993 - 2002

2011 →

5 predictions from **Black Mirror** that are (almost) real

https://www.nrc.nl/nieuws/2017/12/11/we-leven-bijna-in-deze-nachtmerriea1584537



1. Murderous drone-insects

- 2. Google Glass, before it existed
- 3. Blackmail with sex photo's
- 4. Social credit
- 5. Follow your child everywhere

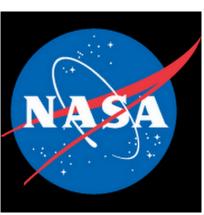




to BOLDLY GO where no man has gone before



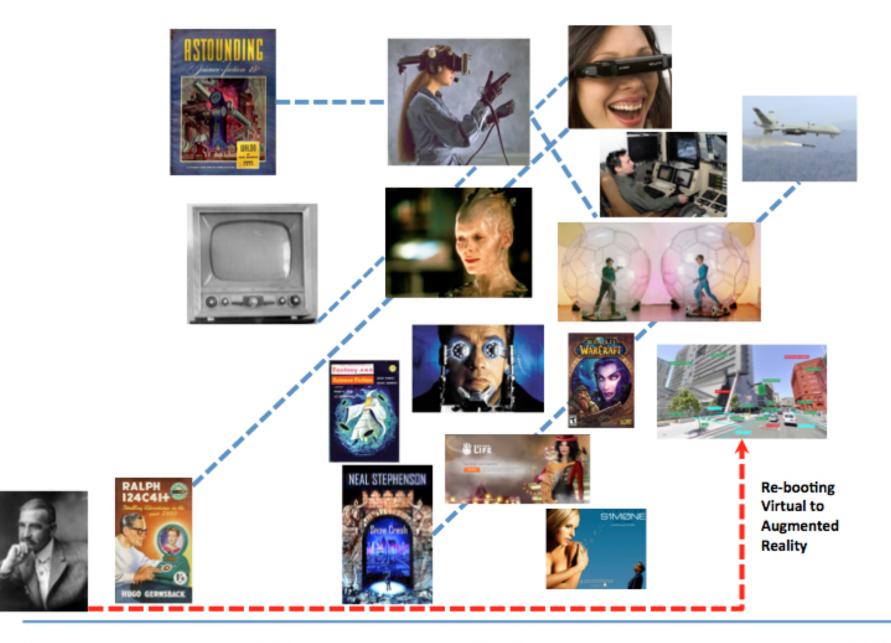
Supercomputers Data mining Virtual reality Impulse engines Androids Sensors & Tricorders Communicators





IBM's Watson Goes Where No Machine Has Gone Before



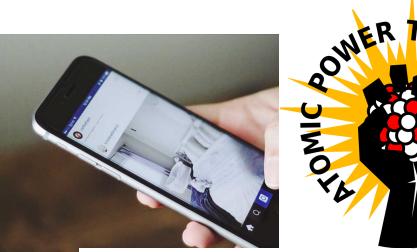








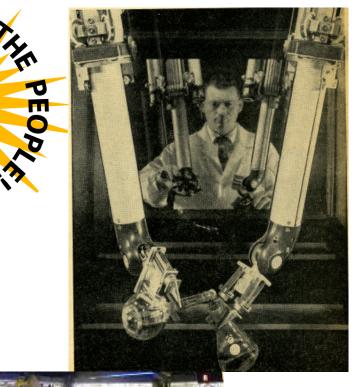
Inventions Inspired by Science Fiction











Inventions inspired by Science

http://www.technovelgy.com/

Science Fiction Technology By Year:

<u>1600-1899</u> <u>1900-1939</u> <u>1940's 1950's 1960's 1970's 1980's 1990's 2000's 2010's</u>

Technology By Topic

Blockchain Used To Verify Election Results

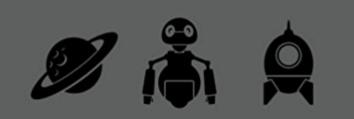
'Any adult could punch into the phone his or her code, followed by a yes or no.' - John Brunner, 1975. (3/6/2018)

- <u>Positronic Motor</u> A combination of motor and brain; an engine with a cerebellum and a carburetor. (From *Sally* [1953] by Isaac Asimov)
- Robotic Lawn Mower Powered By Sun, Arduino

'The mower reached the edge of the lawn, clucked to itself like a contented hen...' – (Clifford Simak, 1944.)

• <u>Save Your Brain's Connectome, Upload Yourself Elsewhere</u> 'You've got remote storage. How regular is the update?' - Richard Morgan, 2003. (3/15/2018)

Foreword by James Frenkel



Science Fiction Prototyping Designing the Future with Science Fiction

Brian David Johnson

Includes conversations with: Cory Doctorow, Chris Warner, Sidney Perkowitz

Intel Microsoft Arup Capital 1 Bank

Joint Top 3 Awards



"Jimmy, don't do that!" shouted Lizzie. Jimmy's emotochromic skin turned red through embarrassment. "I envy people, able to hide their feelings." thought Jimmy, turning green with envy" (Gordon Hunter, Kingston University, UK)



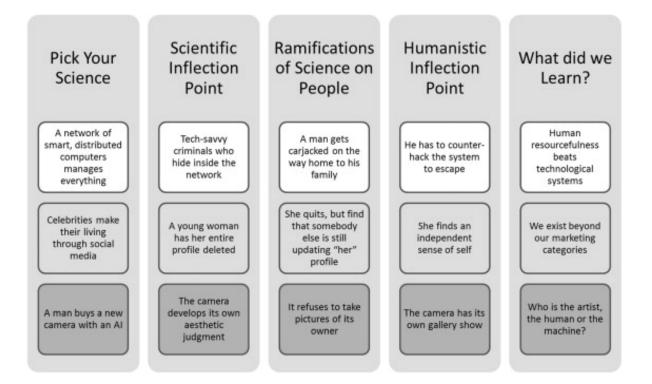
"I have traced down all your respires: infant cries, juvenile smiles, elderly sights. Now you are (all) gone – leaving me to carry on and wonder why." (Tiina Kymäläinen, VTT Technical Research Centre, Finland)



"Jimmy, please write me a micro-SFP and, while you are at it, a business plan to! Jimmy says "Science Fiction does not compute!" (Davy Preuveneers), Katholieke Universiteit, Belgium)

Creative Science Foundation, Shanghai 2014



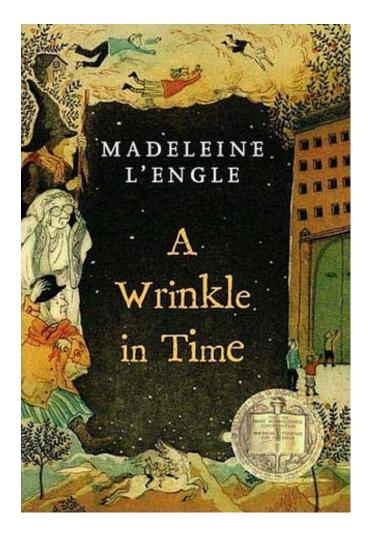


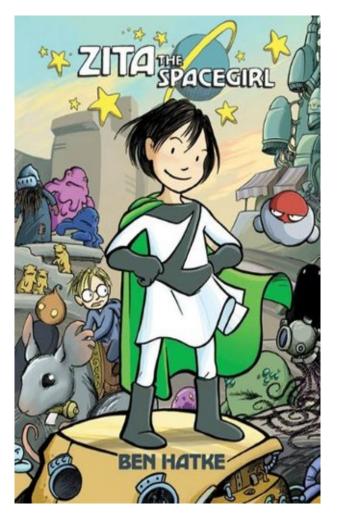
Business

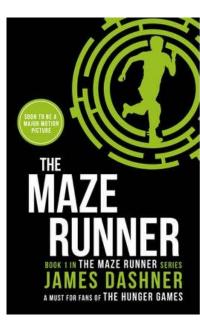
• Intel, Volkswagen

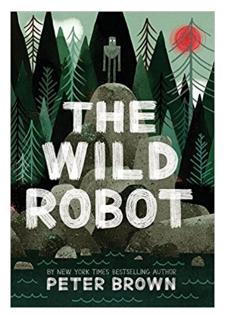
Universities

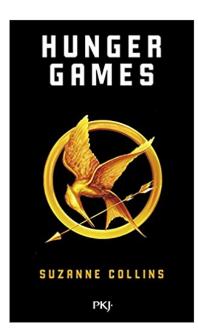
- Business schools in USA, UK, Taiwan, China
 Military
- Futurcasting, Threatcasting

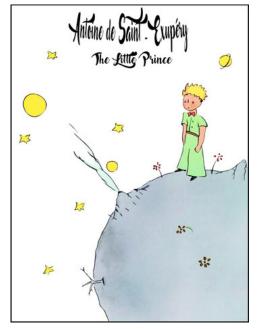












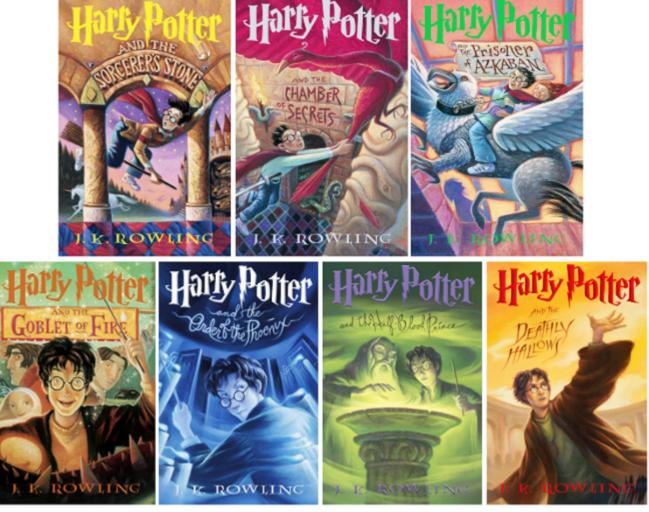




Harry Potter series sets sales record!

The 5 Harry Potter books published up to 2003 have sold more than 250 million copies world-wide

Source: de Volkskrant, November 2003

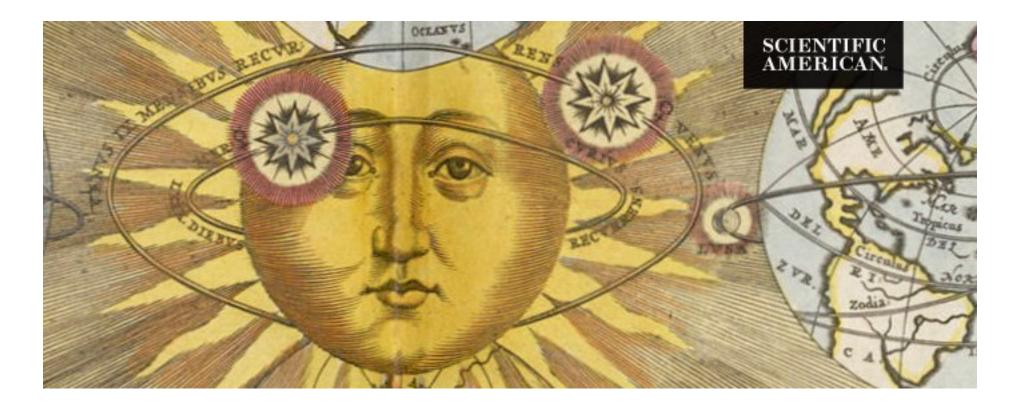




"Imagination is more important than knowledge" – Albert Einstein



"Any sufficiently advanced technology is indistinguishable from magic" — Arthur C. Clarke



Hooray for Harebrained Ideas

Genetic inheritance. Circulation. The heliocentric solar system. Great scientific minds such as Gregor Mendel, William Harvey and Galileo Galilei were dismissed as fools and even heretics until science validated their theories. "The real voyage of discovery consists not in seeking new landscapes, but in looking through new eyes" – Marcel Proust



"Today is history, Tomorrow is mystery" – my neighbour in Ireland Issues for policy-makers and urban planners?

Today & tomorrow

- Demographics of active healthy aging?
- Smart Cities: what are our blind spots?
- Internet of Things: *the dark side* of connecting everything?
- Migrations?
- Possible futures for **democracy**?
- Block-chain, engagement and trust?
- Sustainable solutions for. . .?

Beyond tomorrow

- Long life for everyone?
- Broken promises of intelligent systems?
- Transhumanism fuzzy borders of biology and digital
- Societal impact of *emerging* technologies?
- Future **unemployment**?
- The future of. . .?

Questions for The Future, Now

- 1. What insights have you had during this presentation? What have you heard/thought that is relevant to your professional work?
- 2. Imagine: *an idea big enough to change your work* (or: *change the the world*)
 - Describe what it looks like
 - How would this influence the field of your work?
- 3. What additional science-fiction sources/resources would you like to share with us today?