

Technology is transforming business and society, but what about the human body?

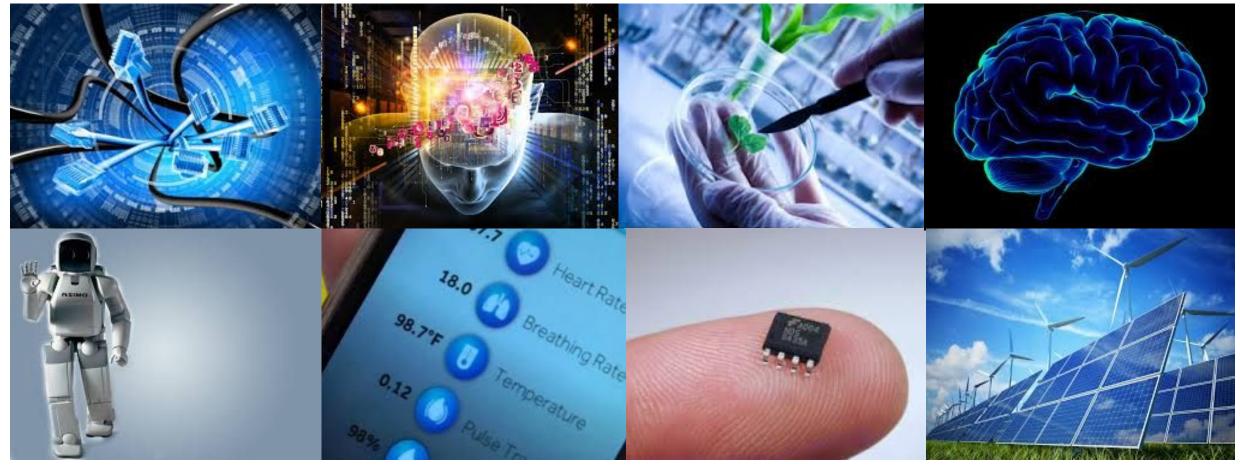


Exponentially advancing and converging technologies

COMPUTING

ARTIFICIAL INTELLIGENCE BIOTECHNOLOGY

NEUROSCIENCE



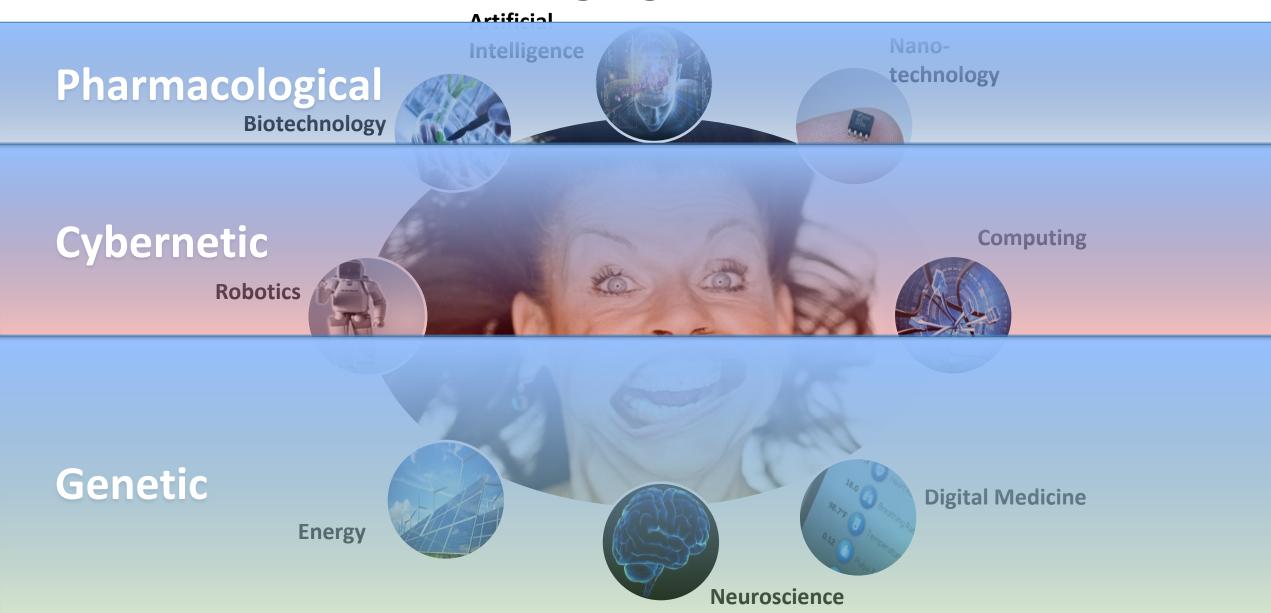
ROBOTICS

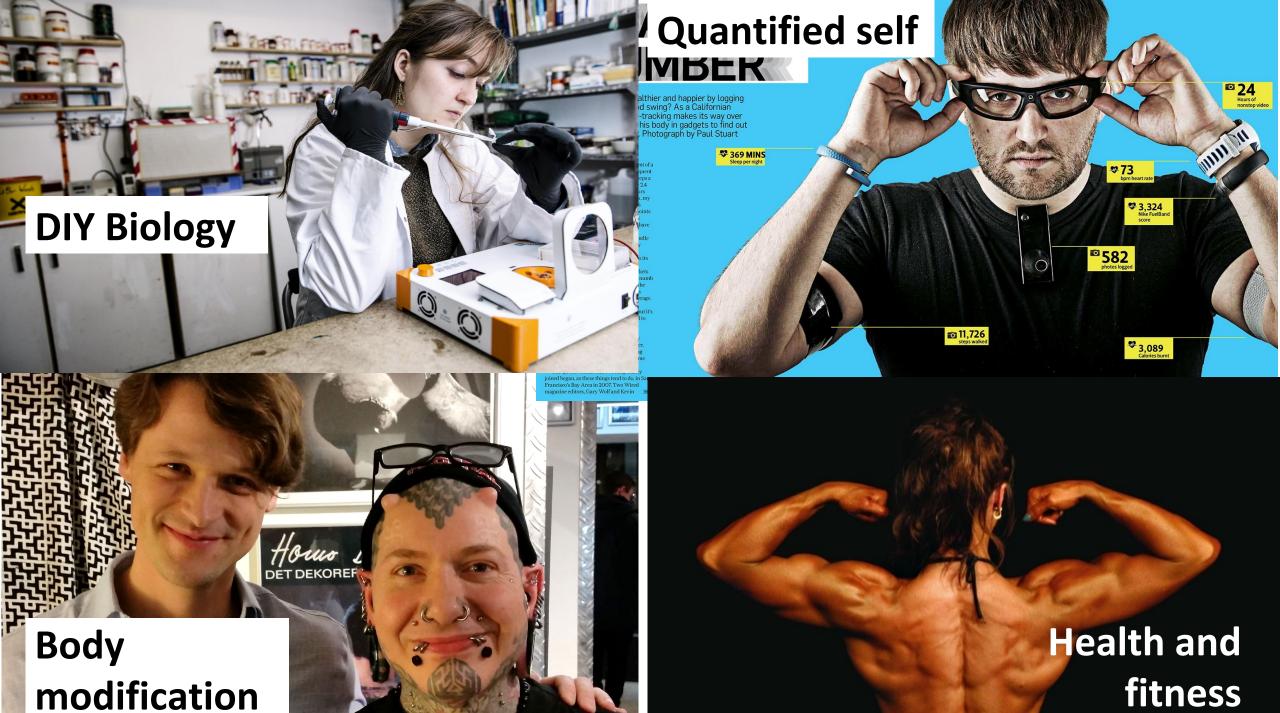
DIGITAL MEDICINE

NANOTECHNOLOGY

ENERGY

Converging on YOU!





Ways of hacking your body

Established

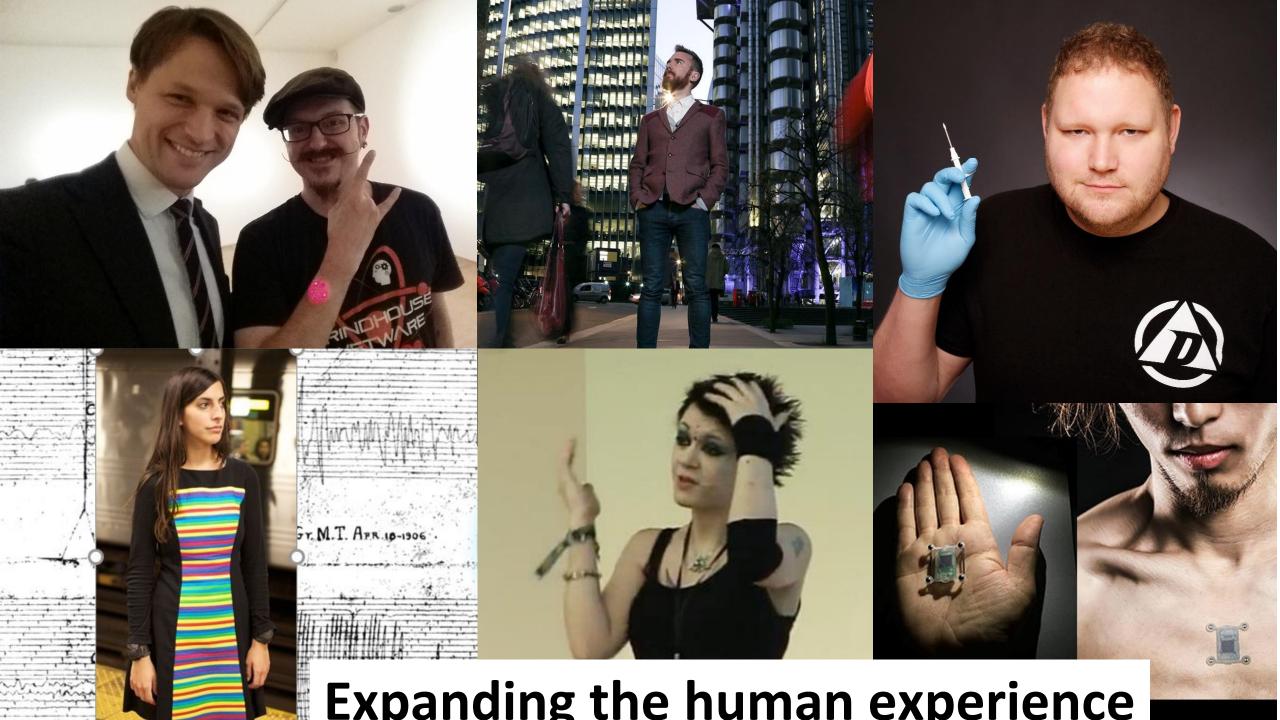
- Exercise
- Nutrition
- Supplements
- Pharmacological
- Meditation

Emergent

- Self tracking
- Nootropics
- DNA-sequencing
- Blood test
- TDCS

Futuristic

- Cybernetic
- Somatic therapy
- Other Genetic
- Viruses as apps for the body

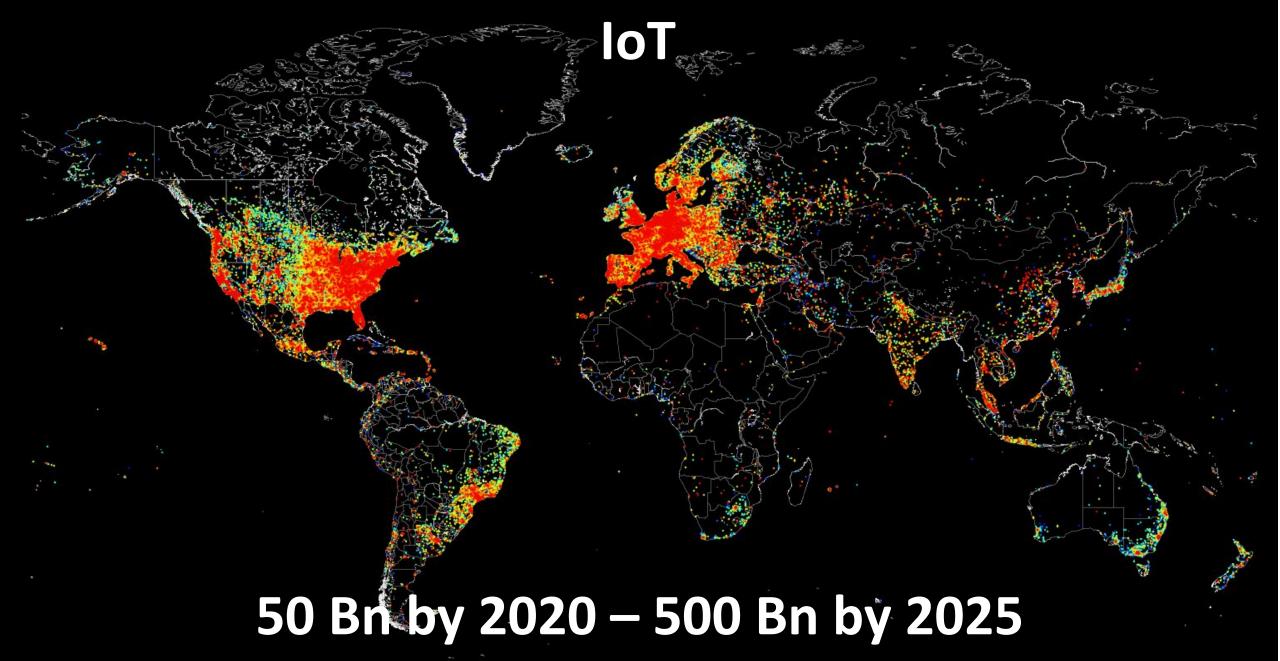




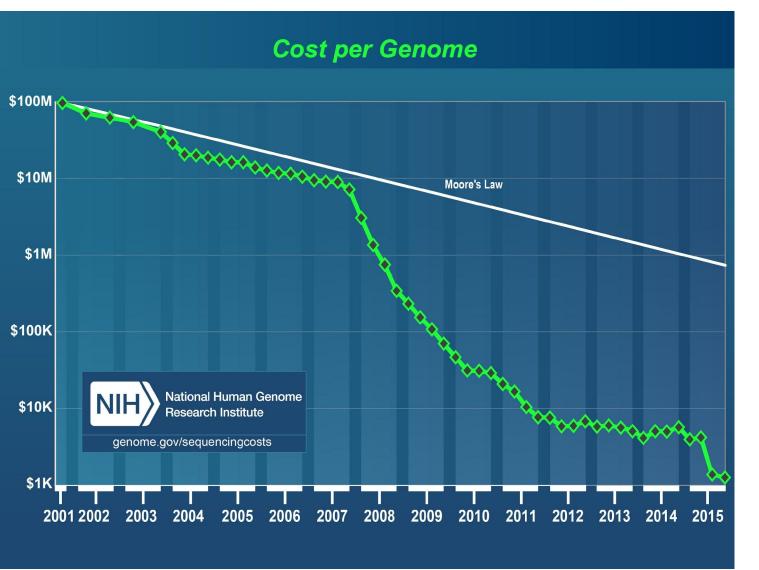
NFC Chip implants: A great way to digitise the junk we carry around in our pockets



An NFC implant is a personal key to the



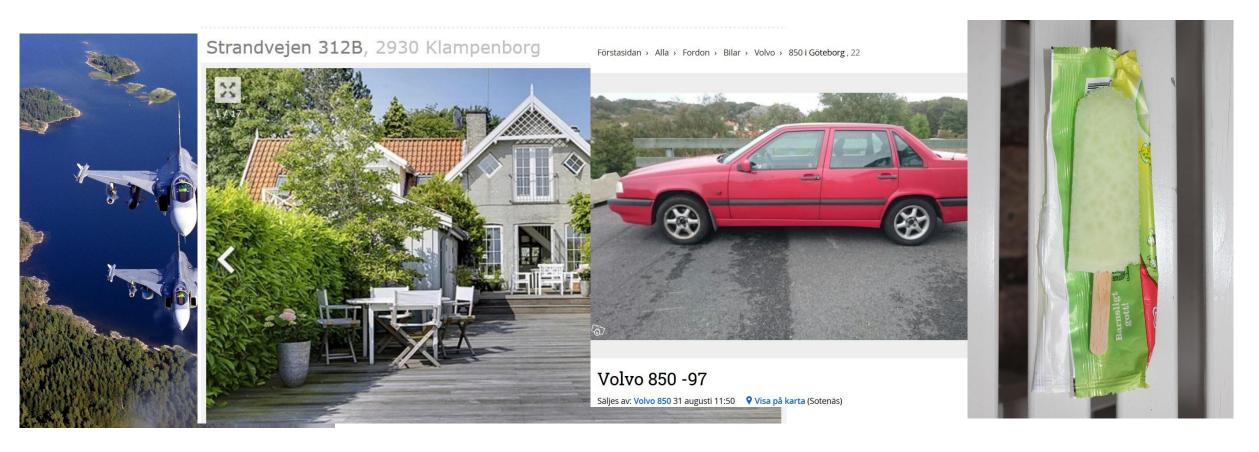
Beyond bionics – digital biology







Price of sequencing a human genome



2001 2008 2016 2022

Programming language: CRISPR-CAS9



Scientists closer to recreating woolly mammoth

PTI | Mar 22, 2015, 01.54 PM IST

READ MORE "> Woolly Mammoth | harvard | Genes | Elephant | DNA



Scientists may be one step closer to recreating the woolly mammoth after they have successfully inserted 14 of the extinct animal's genes into the live DNA of an elephant LONDON: Scientists may be one step closer to recreating the woolly mammoth after they have successfully inserted 14 of the extinct animal's genes into the live DNA of an elephant.

Researchers analysed DNA from mammoths preserved in Arctic permafrost and then used the results to reproduce exact copies of 14 mammoth genes.

These were integrated into the elephant genome, where they functioned as normal DNA.

George Church, professor of genetics at Harvard University, used a new technique known as Crispr that allows scientists to make precision edits to DNA, replacing sections of elephant DNA

The Telegraph



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British scientists granted permission to genetically modify human embryos

The Francis Crick institute will genetically edit the leftover embryos from from IVF clinics











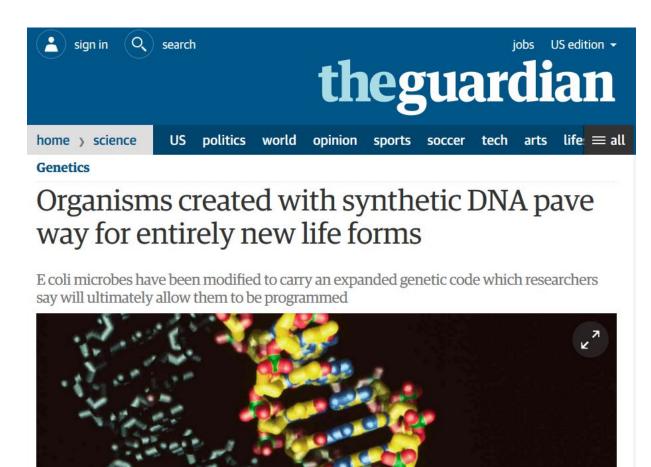


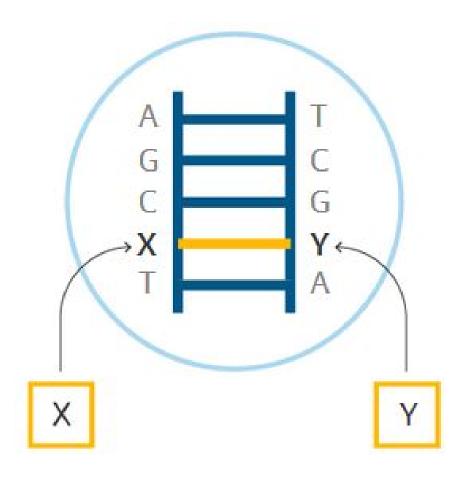


Categories of human gene therapies

- Genomic prediction
- Stem cell therapies
- Somatic therapies
- Hybrid therapies
- Mithocondria replacement
- Germline therapies

Synthetic life – bacteria (2010), yeast (2017)





Adaptive, evolving neural network: AlphaGo

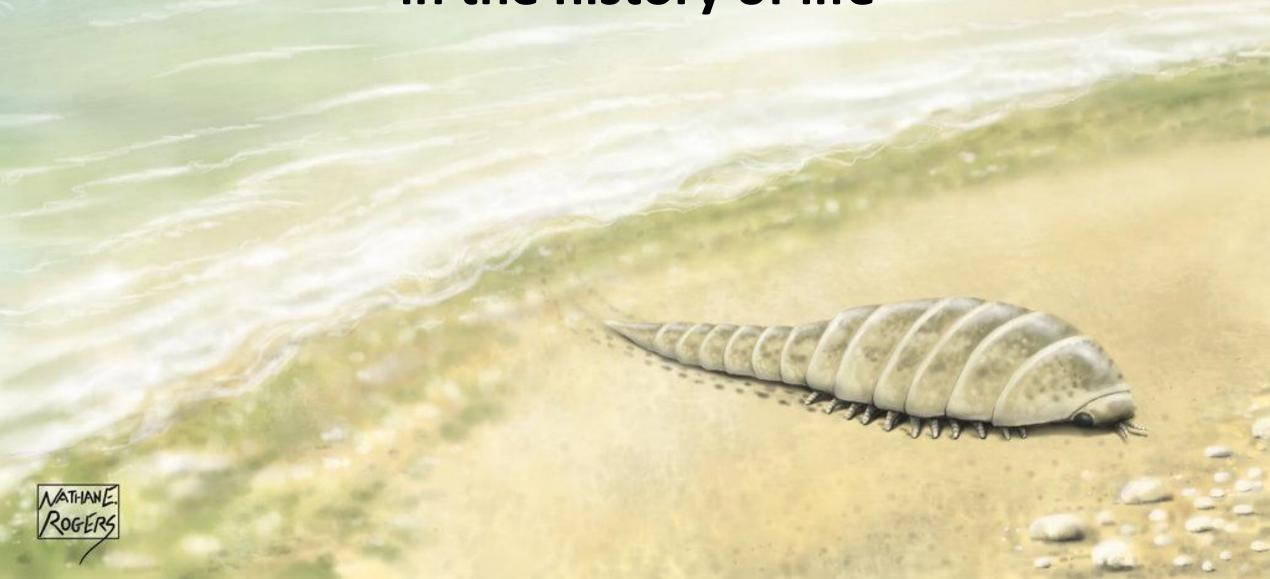


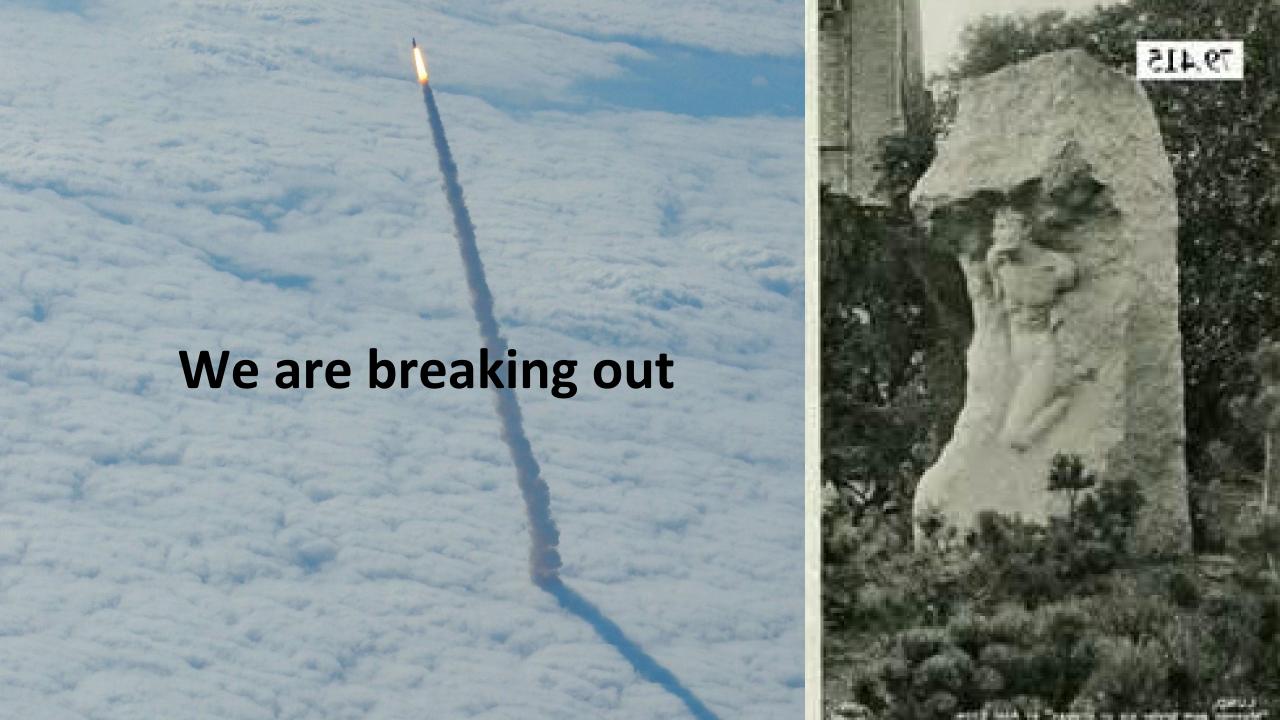
Champion professional Go player Lee Sedol (right) makes a move in his match against Google's artificial intelligence program, AlphaGo, at the Google DeepMind Challenge Match in Seoul, South Korea, Wednesday.

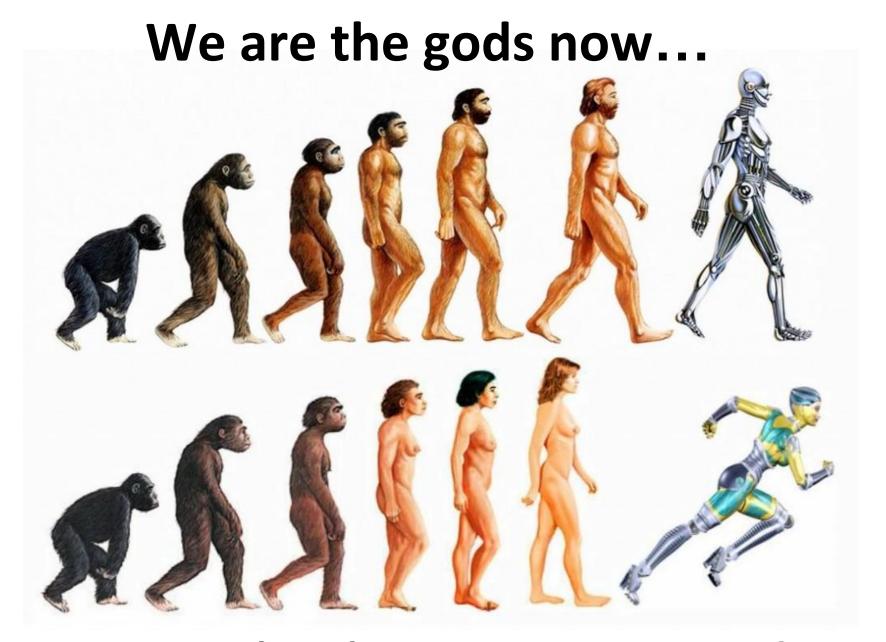
Mars is the only planet inhabited by robots











...so what do you want to create?