

U.S.-GERMAN STANDARDS PANEL 2018





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History

Agriculture as key factor for cultural progress and wealth



This Fourth Industrial Revolution is. however, fundamentally different. It is characterized by a range of new technologies that are fusing the physical, digital and biological worlds, impacting all disciplines, economies and industries, and even challenging ideas about what it means to be human.

Klaus Schwab, Founder and CEO World Economic Forum

Internet of Things

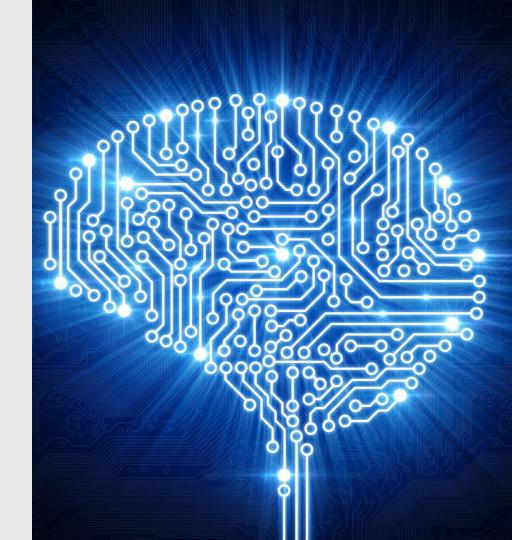
People and things are interconnected, producing huge amounts of data



Artificial Intelligence

Machine Learning: Porcessing data and getting new insights

Deep Learning
Recognizing
language and
images like a human



Blockchain

Safely exchanging any kind of information without a man in the middle



What is it all about?

Added Value from Data instead of producing Goods



Autonomous driving

Mobility as a service



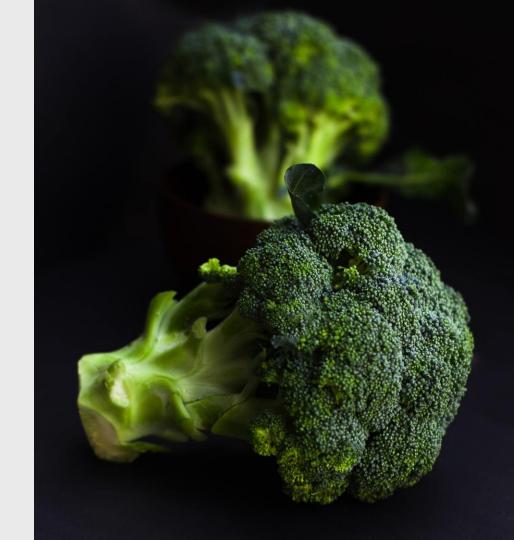
ShareConomy

Everything is a service.



Urban Farms

Designing the perfect environment



Supply chain

Everything is transparent



When will this ever stop?

When will this ever stop?

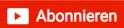
We have just started!



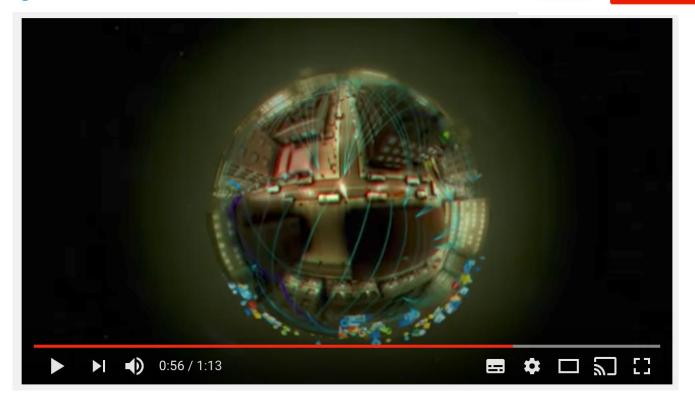
Technosphere We have just arrived!



Next Nature Network



481



Human or robot?

Boundaries are blurring



Looking for new ways instead of dead ends



Allow new thinking





Links

Planetary Bounderies:

https://de.wikipedia.org/wiki/Planetary_Boundaries

Machine Learning:

http://www.r2d3.us/visual-intro-to-machine-learning-part-1/

Deep Learning:

https://www.youtube.com/watch?v=o3RDCSJH2oo&list=PLDX3iJGAOVcndr-2N0dNnfRSzARxf3BRr&index=3

Blockchain:

http://bit.ly/2D6BDsH

John Deere: From Products to Platform

https://digit.hbs.org/submission/from-product-to-platform-john-deere-revolutionizes-farming/

Caleb Harper: Next Generation of Food

https://www.youtube.com/watch?v=cn5hnzwHUJY&t=299s

https://www.media.mit.edu/posts/build-a-food-computer/

https://foodbusinessschool.org/faculty/caleb-harper/#

Suply Chain with Blockchain:

http://bit.ly/2B2Paj8

Next Nature Network: We have just arrived:

https://www.youtube.com/watch?v=cn5hnzwHUJY&t=299s