













Question 1

What is disruptive technologies?













Question 2

What is the impact of disruptive technologies?















DISRUPTIVE TECHNOLOGIES

Originally defined by Prof. Clayton M. Christensen "A new technology that unexpectedly displaces an established technology" (1995)

Ground-breaking product, service or technology that makes the existing ones obsolete

2003: Disruptive innovation



DISRUPTIVE TECHNOLOGIES EXAMPLES

Personal Computer

E-mail

Cell phones

Social Media

















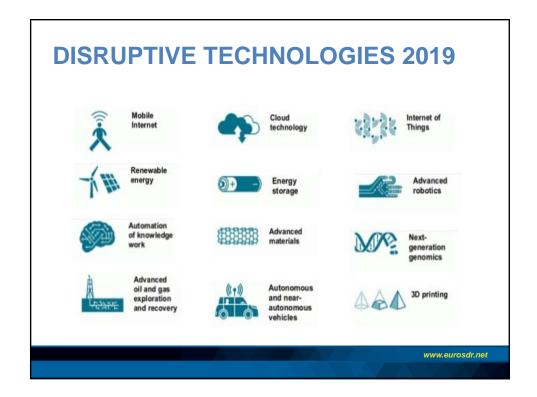




DISRUPTIVE TECHNOLOGY

Are typically

- Cheaper
- Smaller
- Simpler, and
- More convenient to use
- Accessible to new users





































Hey, this is new and exciting



Yeah, seen this all before

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Two Predictions...

"Books will soon be obsolete in the public schools. Scholars will be instructed through the eye. ... Our school system will be completely changed inside of ten years."



Thomas Edison - 1913

"In from three to eight years we will have a machine with the general intelligence of an average human being. I mean a machine that will be able to read Shakespeare, grease a car, play office politics, tell a joke, have a fight. At that point the machine will begin to educate itself with fantastic speed. In a few months it will be at genius level and a few months after that its powers will be incalculable."



Marvin Minsky - 1970





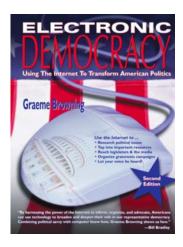








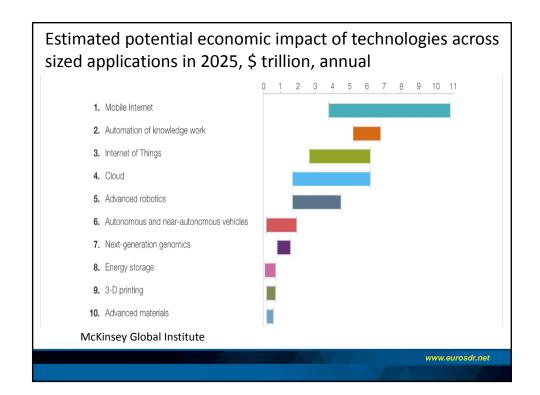
The Problem of Hyperbole



The mechanics of hyperbole in four easy steps:

- 1. Pick a technology
- 2. Make a world-changing/ disrupting prediction
- 3. Cherry pick some case studies to 'prove' your point
- 4. Write a book.

In particular - Disruptive technologies are no exception









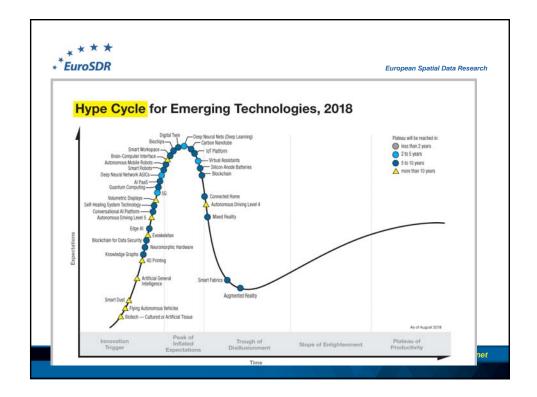






IMPACTS OF DISRUPTIVE TECHNOLOGIES

- Implications for individuals and societies
- Implications for organisations
 - Creates new products and services
 - Shifts surplus from producers to consumers!
 - Changes in organizational structures
- Implications for Economies and Governments
 - Poses new regulatory and legal challenges





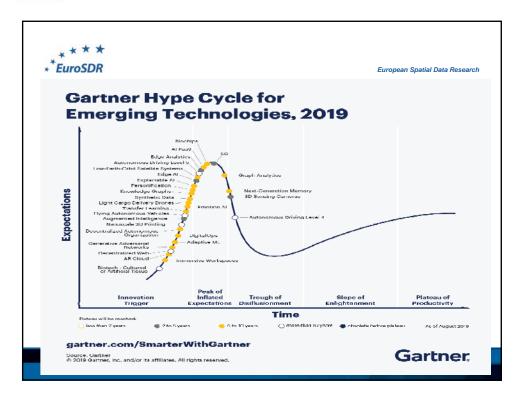


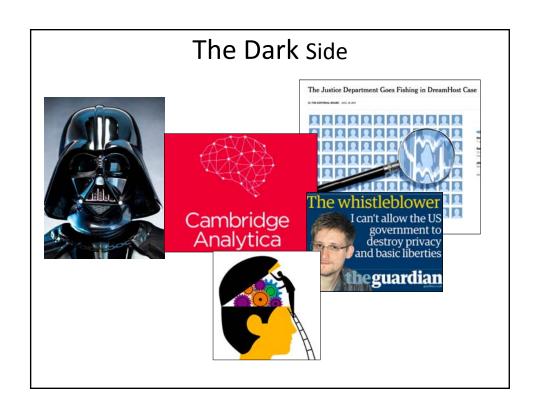


























The Dark Side



Threats/risks include:

- Wrong investments
- Market loss
- De-anonymisation
- Unethical usage
- Citizens' privacy
- Discrimination
- Exclusion
- Illegal usage
- Misplaced trust

and not least...

Misguided public policies

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Take control of disruptive technology risks



EDUCATE

yourself about disruptive technology, terminology, innovations, and relevance to your company.



EXPAND

your network and foster collaboration through cross-functional teams and relationships and with outside experts.



PUSH

for investments in relevant data and analytics tools and skilled people to use them.



CONSIDER

the wider impacts — beyond cybersecurity — of distruptive technology on your company's risk profile.

Melissa Gale, 2017













Yes, disruptive technologies are new and yes, they may turn out to be valuable It would be wise not to expect miracles and radical changes Need to think carefully about how you use a specific disruptive technology One part of a much larger and more complex set of (data) issues If you torture technologies long enough they will confess to anything

