DIGITALISATION - OPPORTUNITIES AND CHALLENGES
The digital revolution is far more significant than the invention of writing or even printing.

Douglas Engelbart (1925 – 2013)
Digitalisation is challenging research.

Research is challenging digitalisation.

Helene Hellmark Knutsson
Minister of Education and Research

Gothenburg, March 13, University of Gothenburg, Seminar on Digitalisation
What is digitalisation?

- The integration of digital technologies into everyday life by the digitisation of everything that can be digitised.¹

- The use of digital technologies to change a business model and provide new revenue and value-producing opportunities; it is the process of moving to a digital business.²

- One of the – if not the – defining characteristics of the contemporary era ("the new economy, society, and culture….").³

¹BusinessDictionary ²Gartner research ³Culture Digitally, Manuel Castells (2010)
Digitalisation landscape

Consumers

Benefits
- New business
- Welfare
- Increased life quality
- Knowledge
- Democracy
- Sustainability

Threats
- Massive loss of jobs
- Decreased life quality
- Less freedom
- Loosing privacy
- New segregations
- Security threats...

Opportunities Challenges

Providers
- Healthcare
- Transport
- Production
- Smart cities
- Education
- ...

Enablers
- New technologies
- New processes
- New organisations
Digitalisation – Opportunities and challenges
The four themes & sessions

Digital Sustainability
Sustainable development with the aid of ICT; security, privacy, safety.

Connected World
Advanced communication between systems, between systems and people, between people

Data Driven Innovation
Managing large amounts of data, evidence-based decisions, new business opportunities.

Automated Society
Autonomous and intelligent systems and intelligent automation of processes.
Distinguished speakers

March 15
AM

March 15
PM

March 15 Mingle

Welcome

Researchers
Philosopher
Managers and Experts
from industry
Public sector experts
Publicist, Entrepreneur
Innovation agency director
Digitalisation Experts

March 16
AM

March 16
PM

What is digitalisation for you?
We also think on the future…

Chalmers DigiLab for schools

Digitalisation challenges in Chalmers Areas of Advance

- Building Futures
- Energy
- Life Science
- Production
- Transport
- ICT

School children meet digitalisation challenges
Get the schedule and follow the program!

The Program Brochure

Live streaming

App: CHALMERS D1G1T1SAT10N

http://www.chalmers.se/en/areas-of-advance/ict/events/digitalisation/Pages/Live-streaming.aspx
The organising committee

Ivica Crnkovic, Professor, Software Engineering, ICT Director
Urban Nuldén, Associate Professor, Applied Information Technology
Morten Fjeld, Professor, Interaction Design
David Sands, Professor, Software Technology
Jan Smith, Professor, Computer Science
Giuseppe Durisi, Associate Professor, Information theory
Elisabeth Kegel Andreasson, Administrative officer
Malin Ulfvarson, Communications officer

Anna Kelly, the moderator

Enjoy the program!
“It will no longer be the big fish eating the small fish. It will be the fast fish eating the slow fish – agility over scale.” —Klaus Schwab
I'm fascinated by the idea that genetics is digital. A gene is a long sequence of coded letters, like computer information. Modern biology is becoming very much a branch of information technology. Richard Dawkins

The digital revolution is far more significant than the invention of writing or even of printing. Douglas Engelbart

Douglas Carl Engelbart was an American engineer and inventor, and an early computer and Internet pioneer

The digital native doesn't send a letter to the editor anymore. She goes online and starts a blog. Rupert Murdoch
In the new world, it is not the big fish which eats the small fish, it’s the fast fish which eats the slow fish.

Klaus Schwab
Founder and Executive Chairman
World Economic Forum