



Introduction to the dimensions of digitalisation and the sectoral module: Digitalisation for the Green Deal

TRAINING
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Institutional Welcome

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Agenda - Warmup

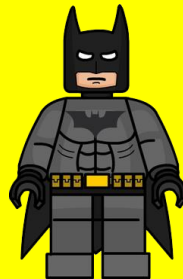
- Ice breaking exercise
 - **Stand Up Exercise**
- Participants expectations
- Welcome to participants

5 min



Ice Breaking Exercise

Where are you on the Digitalisation vs Environment axis?



Digital
Technology

Green Deal

ME

Modules / Agenda

Day 1

- Module 1: Introduction to Digitalisation
- Module 2: Digitalisation and Development Cooperation
- Module 3: Data and the Economy
- Module 4: The Economy of Digitalisation and entrepreneurship

Modules / Agenda

Day 2

- Module 1: Introduction to D4theGreenDeal
- Module 2: Impact of digital transformation on the environment and clean technologies
- Module 3: Digitalisation as an enabler for the Green Deal
- Module 4: Case studies and practical applications

House rules



No phones/emails



All questions welcomed



Participative training



Listen to other participants!



Ask yourself “what does this mean in my environment?”



Introduction to the dimensions of digitalisation

Module 1.1: Introduction to Digitalisation

Agenda

Module 1.1: Introduction to Digitalisation

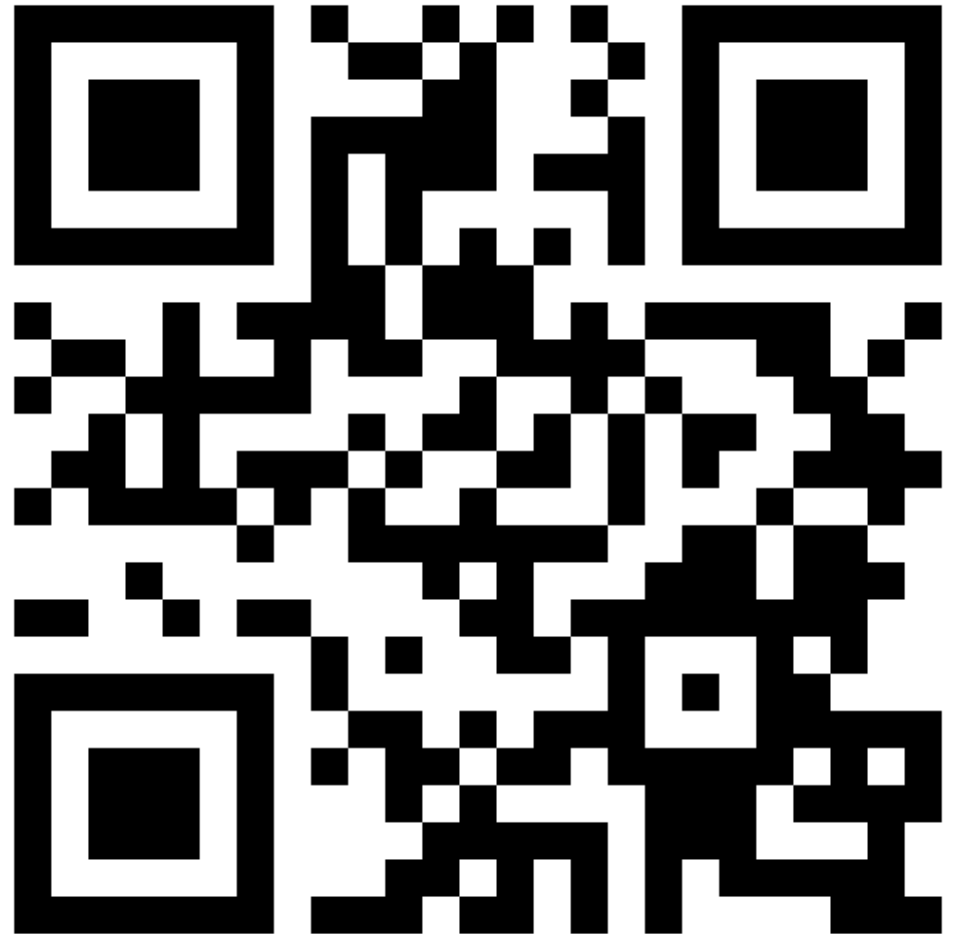
- Terms and Definitions
- Opportunities and Challenges
- Digitalisation affects all parts of our lives

Warm-Up A short quiz!

<http://etc.ch/Som6>



10 min





Terms and Definitions

- **ICT:** "Information and Communication Technologies" covers any product that will store, retrieve, manipulate, transmit, or receive information electronically in a digital form (e.g., personal computers, digital television, email, or robots).
- **Digitisation:** Digitisation is the process of changing from analogue to digital form” Therefore we are talking about **turning photos, movies or documents from analogue (paper based) forms into digital formats**, which is easier to replicate, share etc. It is important to distinguish digitization from digitalization.
- **Digitalisation:** One step up from digitisation and describes processes being conducted now digitally. May it be business processes or the way we interact personally and further. Example: Send emails or instant messages instead of letters.
- **Digital-Transformation:** Describing the transformative changes we see happening due to digitalization and digitization. Both lead to a complete transformation of Business Modells and the way we live and work.
- **Big Data:** Big data is high-volume, high-velocity and/or high-variety information assets that demand cost-effective, innovative forms of information processing that enable enhanced insight, decision making, and process automation.

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**Provide access to
information and
health services via
e-Health**



**boost education
via e-Learning**



**Create jobs and
boost economies**



**Promote participation and
inclusion with
e-Participation, e-Governance
and access to finance**

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Opportunities - Facts and Figures



66% of people in Africa will own a smartphone by 2025.

Productivity in developing countries could increase by up to **25%** in the long term if access to the Internet would be at the level of industrialized countries. This would create **140 million** jobs.



264 million people worldwide do not go to school.

1.4 billion textbooks and learning materials and many training courses are freely available on the Internet and offer educational opportunities.

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Challenges

**the digital divide
between those
who have access
and those who
don't**



**electrical waste is a
catastrophe for
nature and humanity**



**misuse
compromises
people's privacy
(data security)**



**Work is reshaped
by digitalisation
also threatening jobs**



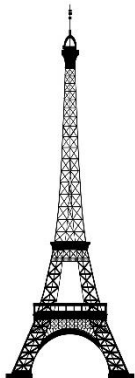
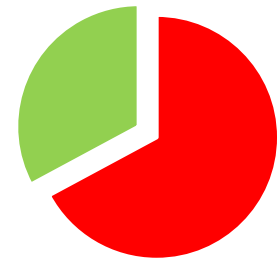
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Challenges - Facts and Figures



80% of the people in the least-developed countries are not using the Internet. Worldwide the proportion of women using the Internet globally is **48%** per cent, compared to **58%** of men.

Up to **2/3** of all current jobs in developing countries could disappear through digitally driven automation.



In 2016, **44.7 million** tons of e-waste were generated. This corresponds to about **4.500 Eiffel Towers**. Only **20%** of these devices contaminated with toxic substances are properly disposed of and recycled.