GREEN DEAL AND DIGITAL

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AIOTI Signature Event Webinar
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Commission Priorities

- A European Green Deal
- A Europe fit for the digital age
- An economy that works for people
- Protecting our European way of life
- A stronger Europe in the world
- A new push for European democracy

‘...a once-in-a-generation opportunity to ensure Europe leads the way on the twin ecological and digital transitions’. 
11 SDGs have positive link with digital
Examples of SDGs with strongest positive links:

- SDG 9 - Infrastructure, industry and innovation
- SDG 8 - Decent work and economic growth
- SDG 3 - Health and well-being

5 SDGs with unclear link: e.g. SDG 13 - Climate action

1 SDG with negative link: SDG 12 - Responsible consumption and production

- ICT has significant environmental impacts
- E-waste = material inefficiency, non-circularity of devices: strongest negative link
- Progress is needed on energy and **material efficiency** (durability, reparability, recyclability)

Digital Access Index (https://digitalaccessindex-sdg.gesi.org/)
New EU commitments to Greening ICT

European Digital Strategy – 19.2.2020
- A circular electronics initiative
- Sustainable data centres by no later than 2030

A European Strategy on Data -19.2.2020
- A Common European Green Deal data space
- EU data space for smart circular applications

Circular Economy Action Plan – 11.3.2020
- Regulatory measures for mobiles, tablets, laptops, printers and consumables chargers
- ‘right to repair’, including a right to update obsolete software
- EU-wide take back scheme to return or sell back old mobile phones, tablets, chargers
1. **Supplying clean affordable and secure energy** – Digitisation of decarbonised (smart) grids

2. **Mobilizing industry for clean and circular economy** - ICT sector needs to improve energy and material

3. **Building and renovating** – ICT can improve energy efficiency of buildings by 15-25%

4. **Accelerating the shift to sustainable and smart mobility** – digitally enabled Mobility as a Service, shared mobility

5. **From ‘Farm to Fork’** – Precision agriculture can lead to 25% savings in Fuel, 15% reduction in seeds and fertilisers.
EU FUNDS

EU BUDGET FOR 2021-2027 – 1074bn EUR

- Horizon Europe
- Digital Europe
- EU Space Programme
- InvestEU
- Modernisation Fund
- Innovation Fund

NextGenerationEU - 750bn EUR
EU Recovery and Resilience Facility

Flagship Projects
- Power up
- Renovate
- Recharge and Refuel
- Connect
- Modernise
- Scale-up
- Reskill and upskill
Digitising the Infrastructure: City 4.0

- Efficiency
- Performance
- Resilience
- Safety & Security
- Service quality

Sensor-Control Infrastructure
Telecom Infrastructure
Data Infrastructure
Apps - Services
Key challenge: flexibility (demand-side)

Key enabler: interoperability

- Goal: Delivering a fair deal for consumers
  - efficient integration of renewables
  - integrated smart home services through IoT
  - interoperable smart grids (production capacity optimisation)
Precision farming is delivers benefits already, but producers of pesticides and fertilisers are still quantity based driven.

New business model: protection of crop services enabled by IoT, Satellite services images, GPS, drones, robotics.

Chemical companies can increase profits by minimising the use of pesticides and fertilisers to only if/when needed.