



GREEN DEAL AND DIGITAL

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AIOTI Signature Event Webinar
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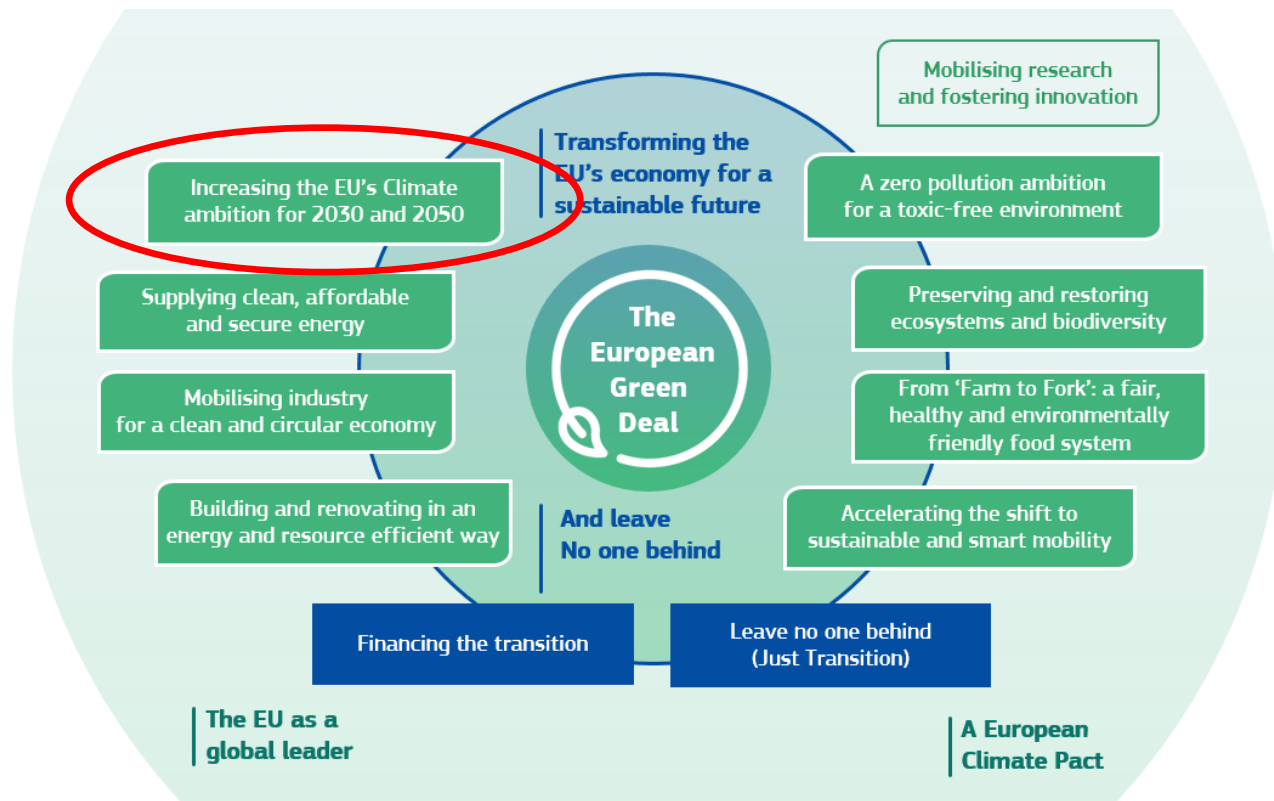
Commission Priorities



- *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'

European Green Deal



Digital & 17 Sustainable Development Goals (SDGs)



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)



European Digital Strategy – 19.2.2020

- A circular electronics initiative
- Sustainable data centres by no later than 2030

The European Green Deal

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

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



**Sensor-
Control
Infrastructure**



**Telecom
Infrastructure**



**Data
Infrastructure**



**Apps -
Services**



European
Commission

Thriving for Energy Efficiency

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



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