



Alliance for
Internet of Things
Innovation

SMART NETWORK AND SERVICES PARTNERSHIP

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Webinar IoT – Driving Europe's technology leadership

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IoT vertical domains in SNS



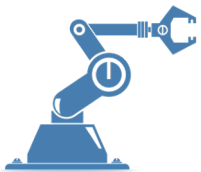
Smart
buildings



Smart agriculture



Healthcare



Smart
manufacturing



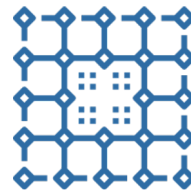
Smart cities



Public safety



Connected and automated
mobility & transportation



Smart grids
(energy, water,
gas)



Media &
entertainment



IoT in the workstreams of the SNS Partnership

Stream A

Smart communication components, systems and networks for beyond 5G systems

- Network architecture
- Interfaces
- Device management

Stream B

Continuous research for radical technology advancement

- IoT devices and components
- Edge computing
- Security
- AI

Stream C

SNS Enablers and Proof of Concepts

- Experimental infrastructure
- PoCs with vertical applications

Stream D

Large Scale SNS Trials and Pilots with Verticals

- Experimentation
- Replication
- Deployment



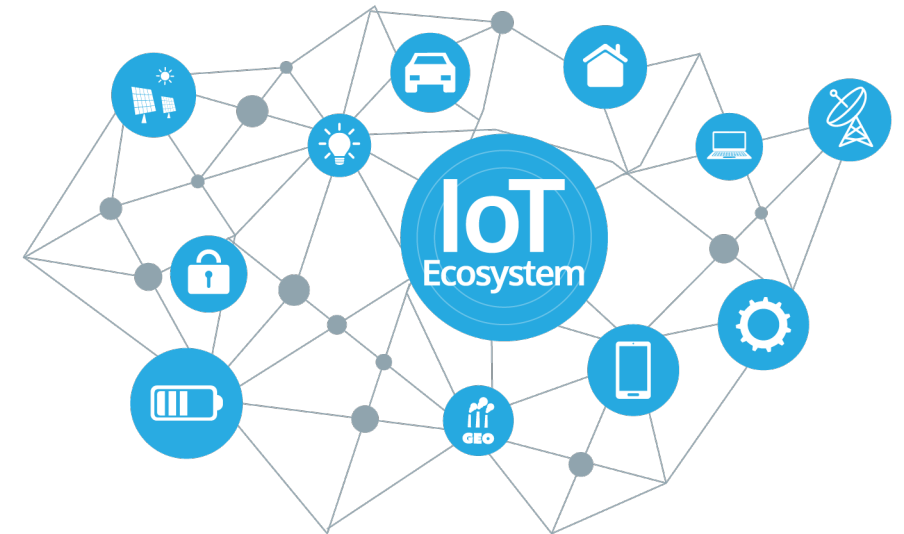
Opportunities and challenges ahead

1. Collaborative research
2. Green deal targets
3. Human-centricity and SDGs commitments



1. Collaborative Research

- Variety of business models
- Devices
- Real-life requirement definition and validation
- Secure and trusted network-to-applications interfaces
- New device management techniques adapted to distributed IoT architectures supporting open IoT ecosystems



2. Green deal commitments

For SNS platforms:

The **GHG reduction** in 2020 – 2030:

- Mobile network operators -45 %
- Fixed network operators -62 %
- Data centre operators -53 %

Energy efficiency increase (compared to 1990 levels):

From 20 % in 2020 to \geq 32,5 % in 2030

For vertical domains:

Assisting the verticals in achieving specific targets



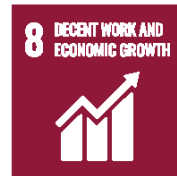
3. Human-centricity and SDGs commitments



Food security
Local value chains



Access to health care
Pandemic management



Decent work, working conditions
Post-Covid recovery



Industry and R&D
infrastructure for SMEs



Access to public transportation
Air pollution



Electronics waste reduction
Organic electronics, circular economy



Energy savings and efficiency
GHG reduction
Disaster management

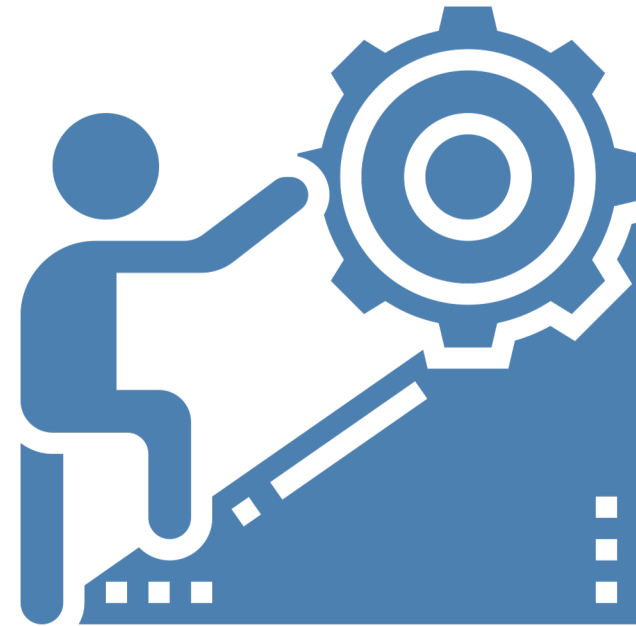


E-government
Security vs individual freedoms

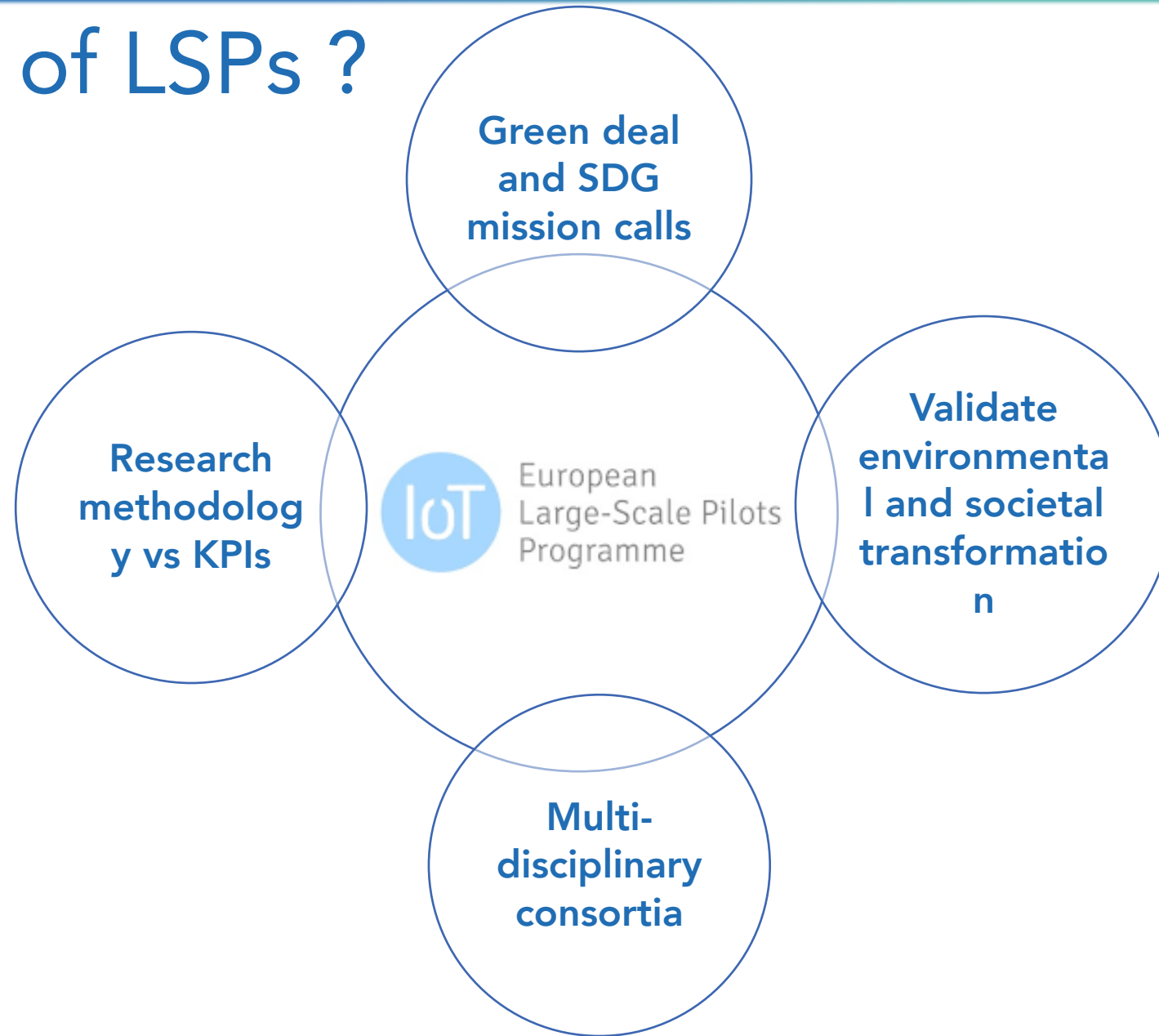


Collaborative research challenges

- Requirements:
 - Technical
 - Across verticals
 - Cross-vertical
 - Green deal commitments
 - SDG commitments
- Common language
- Multi-stakeholder value creation



New kind of LSPs ?



How to engage

For more information about AIOTI and how to join please contact AIOTI Secretariat at sg@aioti.eu or by phone +32 502 65 80. To apply to become AIOTI member, please visit our online [form](#).



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