

# S3 Wireless ICT Partnership

## Kick off event

21.1.2021



**POHJOIS-POHJANMAA**  
Council of Oulu Region



Programme for Sustainable Growth

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2014–2020



# Agenda



- 1 Introduction to the results of questionnaire
- 2 Discussion of the models
- 3 Summary and Action Items



## Suggested models

### Very Loose model

Loose and flexible, in the beginning the leading regions in charge.  
Later we can think organising us better.

### Shared network governance

All partners make the decisions together and manage network activities (voting if decision affects all)

### Governing board model

Governing board:

- One presentative per region
- Coordinated by one region one or two years at a time

### Organised model

Steering committee  
-strategy and operational coordination

Technical scientific committee  
- scientific orientation and technical deployment

Local working groups  
coordinating activities at local level

**Calls for democases, each having a leading region(s).**

Annual action plans

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# Action Items

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## Action 1

Governing model:  
We will be working on with this matter in the following sessions



## Action 2

General meetings:  
- contents  
- timetable  
- calling together



## Action 3

Projects:  
- meetings  
- coordination  
- taking part



## Action 4

Dissemination with other partnership

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European Union  
European Regional  
Development Fund

# Results of the mapping exercise

## Regional priorities

	1.	2.	3.	4.
<b>Health</b>	Pohjois-Savo North Brabant	Emilia-Romagna Norrbotten Western Greece	Oulu Region	Catalonia Lombardy
<b>Future Sustainable Industry</b>	Emilia-Romagna Flanders Lombardy Norrbotten	North Brabant	Catalonia Pohjois-Savo Western Greece	Oulu Region
<b>Autonomous vehicles</b>		Catalonia Flanders Lombardy Oulu Region	North Brabant	Emilia-Romagna Norrbotten Pohjois-Savo Western Greece
<b>Smart city/region</b>	Catalonia Oulu Region Western Greece	Pohjois-Savo	Emilia-Romagna Flanders Lombardy Norrbotten	North Brabant

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# Project expectations by partners

## R&D

- R&D projects to **increase the TRL** of some technology and solution developed in research
- Systemic projects in which different **enabling technologies** and competences are combined in a multi-disciplinary and cross-fertilization approach to realize specific innovations in **priority areas of the regional S3.**

# Applied research with companies as partners or end-users

- projects should be designed and implemented in order to be **accessible to the SMEs** in a logic of regional and inter-regional value chains where the **big players integrate SMEs in a common medium/long-term innovation process**
- Introducing the companies into **new value chains**, with Wireless ICT as the enabling technology
- Projects with open calls for companies (for example Innosup type calls)
- Increase **R&D investments** and **innovation absorption** of local SMEs
- supporting the uptake of **novel technologies** by companies and users.
- Projects with use cases and/or pilots that allow the **consolidation of expertise and its replication** to help the industry to incorporate the technology. Use case example: neutral host deployment in cities.
- Promoting deployment

## Supporting companies' needs in terms of market and business analysis

- Market uptake / internationalization projects

## Outreach and dissemination projects

- **Knowledge exchange** and **technology transfer** among partners
- **Exchange of policy practices**, knowledge enhancement in the specific area to apply more focused policy measures in the sector
- **networking**/collaboration to identify the most potential collaboration

## Clear and supportive legislative framework

- Inter-regional projects at European scale should also aim at establishing **common standards and regulations**.

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## Piloting and infrastructure projects

- developing new **demonstration infrastructure, upgrading existing** ones and **connecting them** in a European network of technology infrastructure
- investing in the development of such demonstration infrastructure in various specialisation areas, which can be further improved and **open to inter-regional cooperation** through the future activities of the new Partnership
- **Basic infrastructure:** 5G infra, fibre network (= task of the private sector, but through close monitoring of progress the public sector might – need/want to – intervene filling in the gaps; + regional level to facilitate permits)
- Proven new technology through **demonstration projects** (also: to introduce the technology in new sectors/industries)
- Prepare **high-tech investments** in the region

## Health



- projects focusing on software and information technology by utilizing data analysis and artificial intelligence, virtual reality and added reality, measurement and sensor technology **combined with 5G connectivity**

## Future sustainable industry

- Sustainable industry related projects that are focusing on artificial intelligence, automation, robotization, efficient welding and assembly techniques, utilization of digital methods and **combined with 5G connectivity**.
- Future sustainable industry projects can focus also water safety where water **quality and process monitoring** happen wirelessly.
- **E-maintenance** (machines and engines with integrated diagnostic systems equipped with wireless communication systems)

# Autonomous vehicles

- Virtual & Augmented reality, cyber-physical systems, autonomous and connected vehicles (civil and industrial use)



[www.sustainable-bus.com](http://www.sustainable-bus.com)

# Smart city/region

- For Smart city and region focus of the projects are related to smart energy, water, and waste by utilizing AI combined with wireless sensor technologies and 5G with edge computing.

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# Test environments to be founded or further developed

- Urban environments to test urban mobility use cases
- Neutral host
- Private 5G networks in industrial environments
- Extension of the testing areas from production to the handling of materials in zero touch mode
- further development of the test environments for:
  - health and wellbeing, hospital environments
  - sustainable industry
  - smart mobility, transport test environment
  - 5G test networks
  - Smart Campus environment
  - Smart City environments, Living Lab platforms to better serve developing of smart city services or products

# Expectations for the partnership

- Build critical mass for avoiding research and innovation fragmentation.
- Take a real market uptake approach.
- Target SMEs together with big players.
- Benchmark solutions and approaches. Build common standards and regulations.
- Identify projects for the implementation of wireless ICT in our regions.
- Boost interregional cooperation by sharing experiences and knowledge, comparing local needs, sharing ideas, use cases and defining business models to start joint initiatives and projects to create value for our regions.
- Exchange information related (for example) to ongoing projects or strategic initiatives carried out.