S3 Wireless ICT Partnership Kick off event

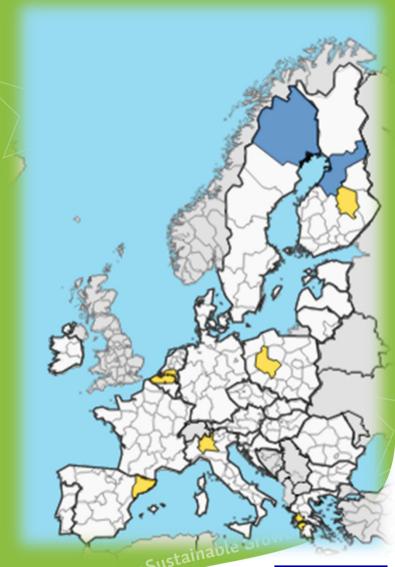
21.1.2021

POHJOIS-POHJANMAA Council of Oulu Region









Leverage from the EU 2014–2020



S3 Wireless ICT

Agenda

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- Introduction to the results of questionnaire
- Discussion of the models
- 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 Local

Steering committee strategy and operational coordination

Technical scientific committee - scientific orientation and technical

deployment

working groups coordinating activities at local level

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

Annual action plans



Action Items

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O O Action 1

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

<u>sessions</u>

O O Action 2

General meetings:

- contents
- timetable
- calling together

O O Action 3

Projects:

- -meetings
- coordination
- taking part

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Action 4

Dissemination with other partnership

Programme for Susta





Results of the mapping exercise Regional priorities

	1.	2.	3.	4.
Health	Pohjois-Savo North Brabant	Emilia-Romagna Norrbotten Western Greece	Oulu Region	Catalonia Lombardy
Future Sustainable Industry	Emilia-Romagna Flanders Lombardy Norrbotten	North Brabant	Catalonia Pohjois-Savo Western Greece	Oulu Region
Autonomous vehicles		Catalonia Fanders Lombardy Oulu Region	North Brabant	Emilia-Romagna Norrbotten Pohjois-Savo Western Greece
Smart city/region	Catalonia Oulu Region Western Greece	Pohjois-Savo	Emilia-Romagna Flanders Lombardy Norrbotten Leve	Western Greece North Brabant tainable Grown A A A A A A A A A A A A A A A A A A A
Gitte Meriläinen	1.2.2021		LI 201	European Ur 14-2020 European Regional Development Fund

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 endusers

- 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 Programme for Sustainable Growth and Jobs **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.



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** though 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.
- Jerns
 Programme for Sustainable Growth and Jobs **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)



Smart city/region

www.sustainable-bus.com

 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**
 - of smar Programme for Sustainable Growth at 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.
- o proj programme for Sustainable Grow Exchange information related (for example) to ongoing projects or strategic initiatives carried out.



