



Proposed project / Topic of collaboration

Energy Flexibility Ready Smart Buildings

TECES, Energy Cluster and Smart Building and Home including Wood Chain, Strategic Research Innovation Partnership

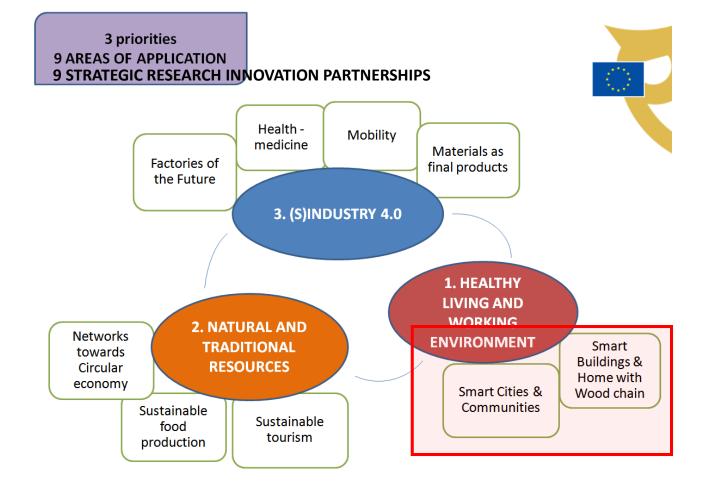




Interregional Pilot project Development and Interactive Discussion for next year Bilbao, 28th November 2018



Slovenian Smart Specialization Strategy (S4)



28.11.2018 | Bilbao, Spain | S3 Partnership Sustainable Buildings - Interregional Pilot project Development

1.) HEALTHY living and working Environment:

- Smart Buildings and Home with Wood chain
 - leaded by TECES
- Smart Cities & Communities
 - + Cross-cutting domain ICT enabling technologies
 - One of research area: Energy supply and utilities

2.) NATURAL and TRADITIONAL resources for the FUTURE

- Networks towards Circular economy
- Sustainable food production
- Sustainable tourism

3.) (S)Industry 4.0

- Factories of the Future
- Health medicine
- Mobility
- Materials as final products
 - + Cross-cutting domain enabling technologies nanotech, robotics, process control tehnologies, photonics - including micro and nano electronic components)

2



About TECES and SRIP

- TECES is a Energy Conversion and Energy Efficiency Cluster,
 - founded already in 2001
 - one of the first innovation measures of the Slovenian government to strengthen Slovenian electronics and electrical industry

Where linking creates synergy

- Active stakeholder in Slovenia's Smart Specialisation Strategy
- coordinator of Slovenian S3 Strategic Research Innovation Partnership Smart Buildings and Home including Wood Chain;

- Electric Drives, Mechatronic Systems
- Power Electronic Converters & Systems
- Electric Devices & Components
- Household Appliances & Systems
- Sustainable Building & Home
- Advanced Residential Units
- Smart Devices & Systems





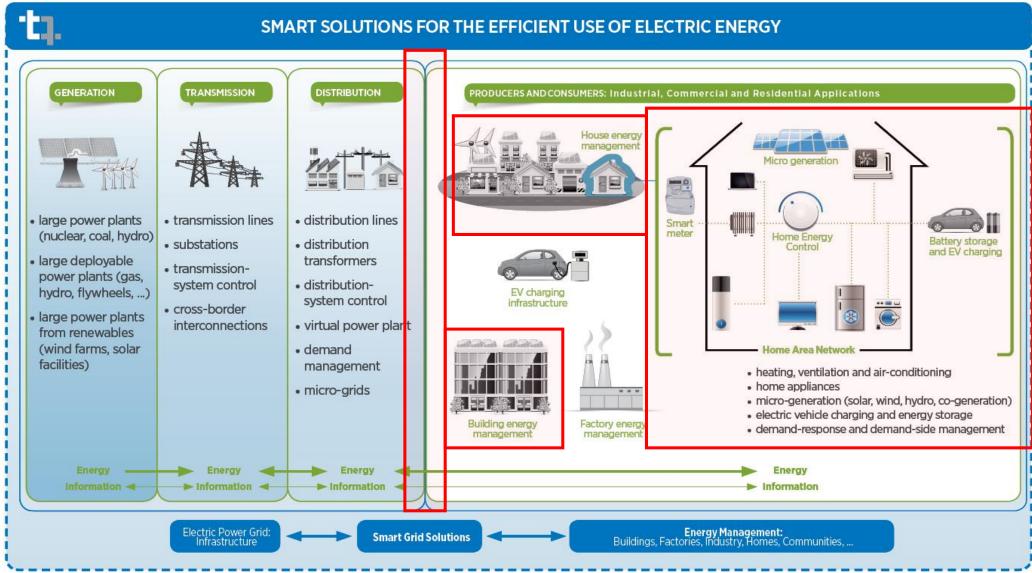
- HVACR Components & Systems
- Energy Generation, Conversion & Storage
- Energy Management Systems
- Smart Grids, Micro Grids
 - Active Building Management Systems
 - Wood and Forestry-Wood Product Chain
 - Advanced Non-Biogenic Construction Products





Energy Flexibility Addressing Areas





Energy Flexibility | Efficient Energy Conversion & Consumption | Energy Efficient Electrical Devices & Systems Smart Grids ←→ Smart Communities ←→ Smart and Sustainable Buildings and Homes



About Energy Flexibility Ready Smart Buildings



• Background

- EC introduced political frame for the introduction of energy flexibility market with the Winter package 2016 of Energy efficiency directive.
- Universal Smart Energy Framework (USEF) represents one of the possible market models for the introduction of energy flexibility
- National energy agencies (regulators) have already started activities related to the preparation of the legal framework for the energy flexibility market

• The aim of the proposed project / topic

 to analyse, evaluactive particition ate and demonstrate how buildings should be prepared for their on the energy flexibility market

Anexed: project / topic proposal in details







Contact information

Matej GAJZER, Managing Director .:. <u>matej.gajzer@teces.si</u> .:. +386 41 904 653 Prof. Dr. Gorazd STUMBERGER .:. <u>gorazd.stumberger@um.si</u>

TECES

Pobreška cesta 20, 2000 Maribor, Slovenia **T**: +386 2 333 13 50 ... **E**: info@teces.si ... **W**: www.teces.si



