



Smart
Energy
Systems
ERA-Net

Joint Programming Platform ERA-Net Smart Energy Systems

Status Conference

15.10.2020, 10:00-13:30 CEST

1. Welcome
2. Updates & Outlook: JPP ERA-Net Smart Energy Systems
3. Farewell to new endeavors: results of concluding projects
4. Virtual market place with ending projects
5. Update on Knowledge Community approach
6. Interactive Lunch Break
7. Knowledge Community Meetings



WELCOME

Michael Hübner, Federal Ministry for Climate Action, Austria

Coordinator of JPP SES; Co-chair of SET-Plan Action 4 Implementation Working Group

Ludwig Karg, B.A.U.M., JPP ERA-Net SES Knowledge Community Management



>> MICall20



ERA-Net Smart Energy Systems

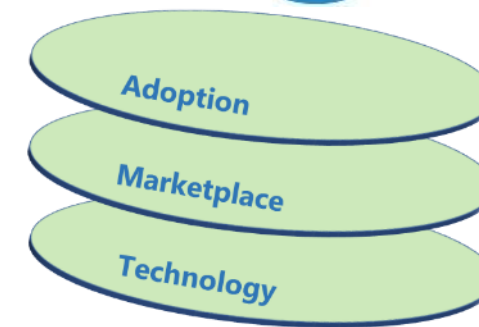
Joint Programming for Flourishing Innovation from Local and Regional Trials towards a Transnational Knowledge Community

Goal

Organize the learning to enable the right technologies, market designs and customer adoption to achieve the smart energy system vision & goals of Europe

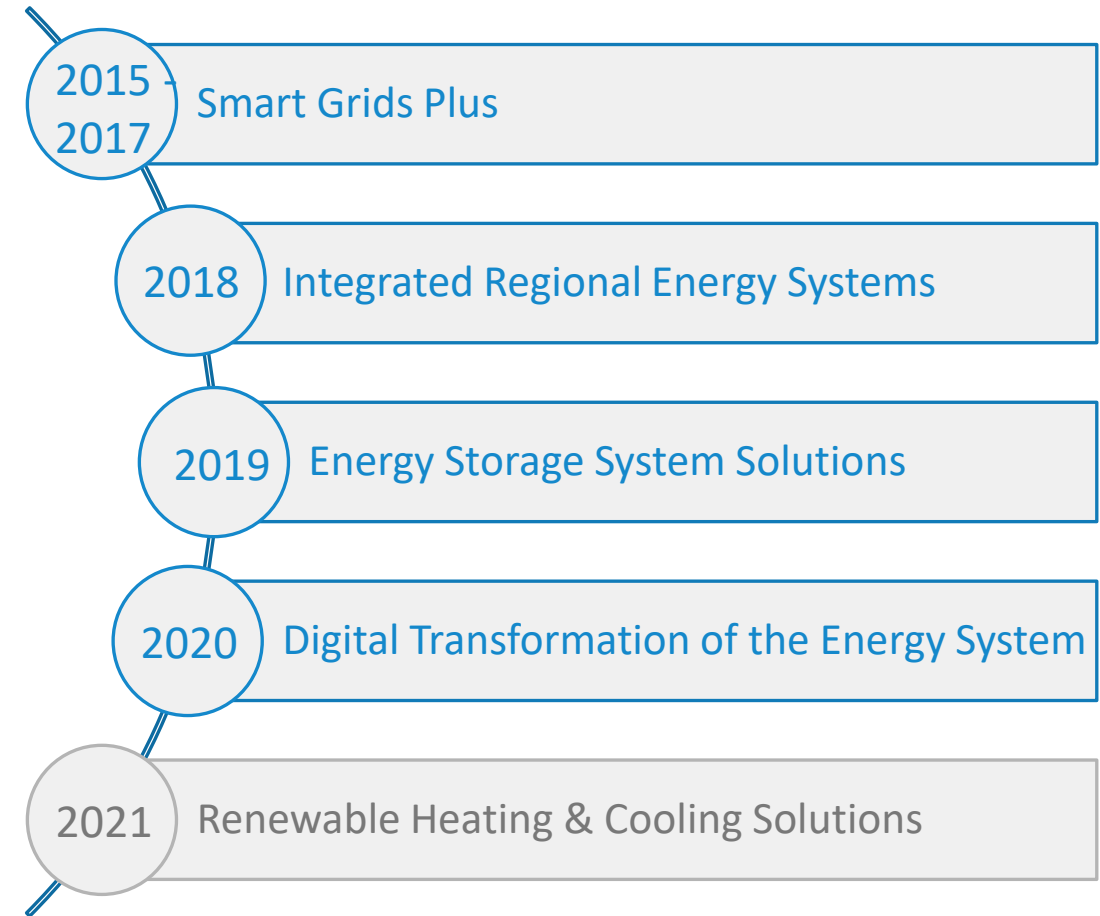
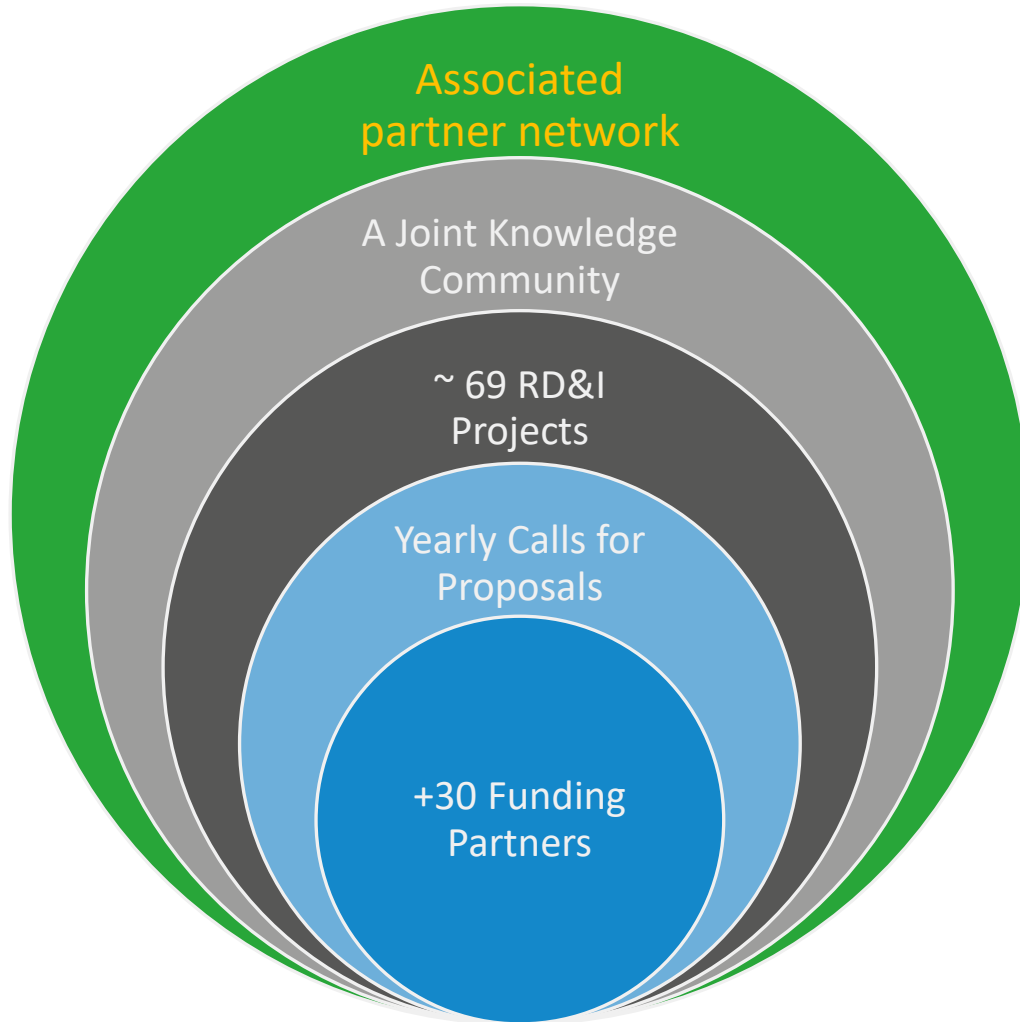
32 funding partners from 29 countries and regions

www.eranet-smartenergysystems.eu

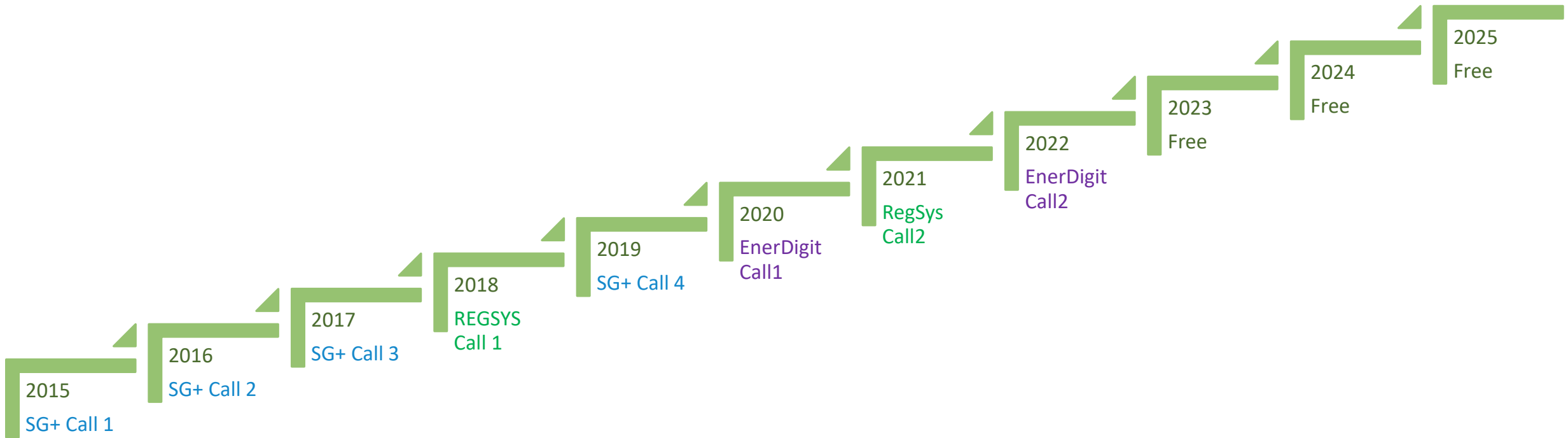


ERA-Net Smart Energy Systems has received funding from the European Union's Horizon2020 research and innovation programme under grant agreement No 646039 and No. 775970.

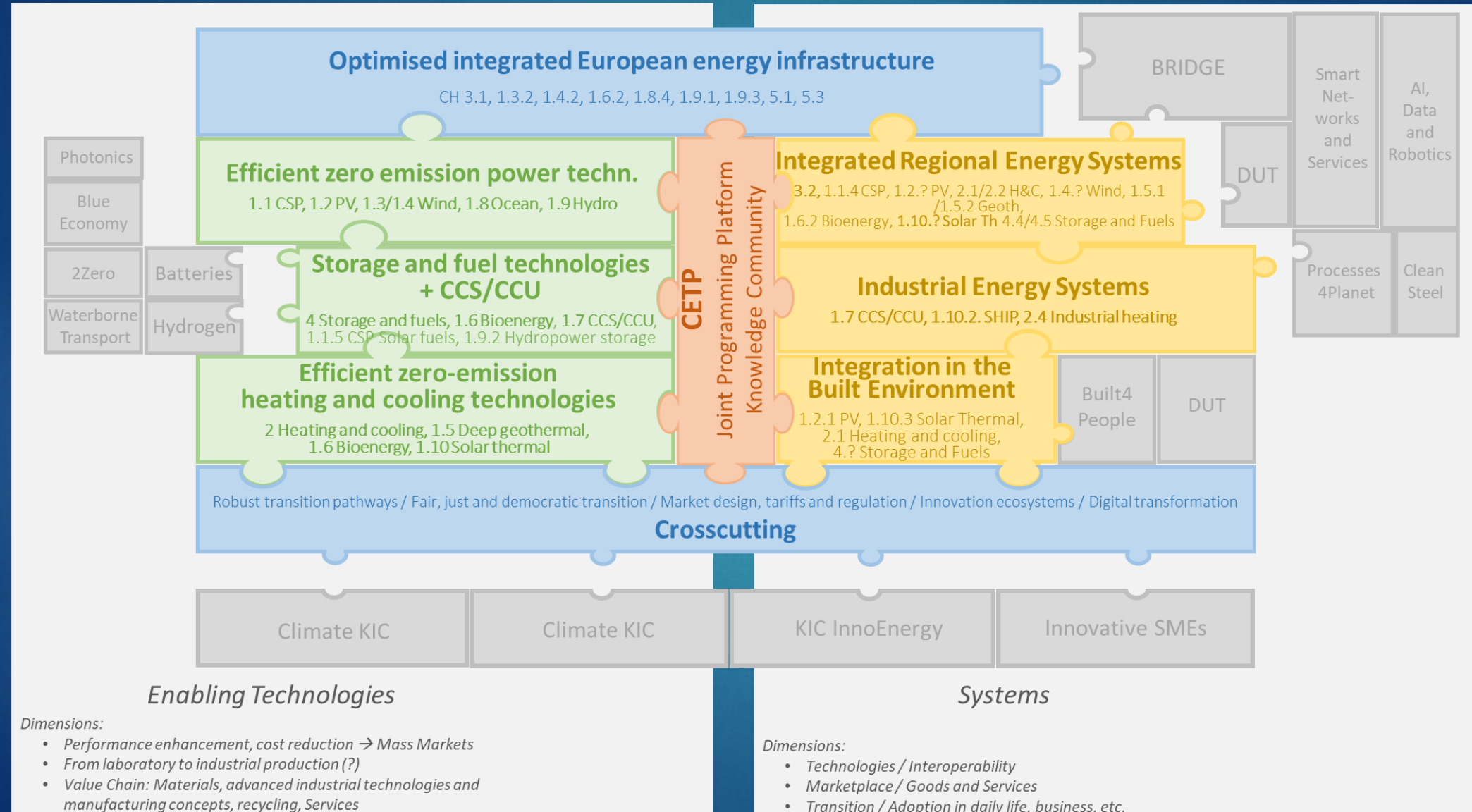
JPP SES - Enhancing Innovation on Smart Energy Systems



Call- Schedule



Clean Energy Transition Partnership (CETP) under construction





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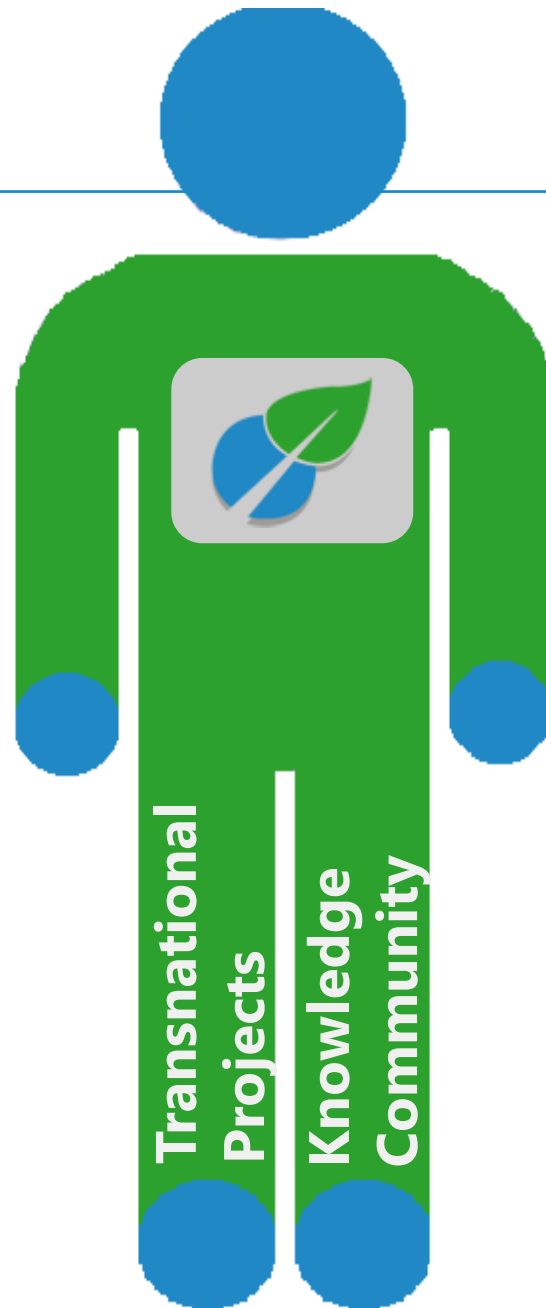
Updates & Outlook

JPP ERA-Net Smart Energy Systems



What you should know about the initiative

Walking on two Legs



- Transnational Projects

- national funding with EU top-up funds
- selected in ERA-Net Calls
- communication and evaluation by Support Team

- Knowledge Community

- from and for the ERA-Net SG+ projects
- national and international experts
- unique networking and knowledge base

Projects funded so far

5 calls

69 projects

more than 100 Mio €

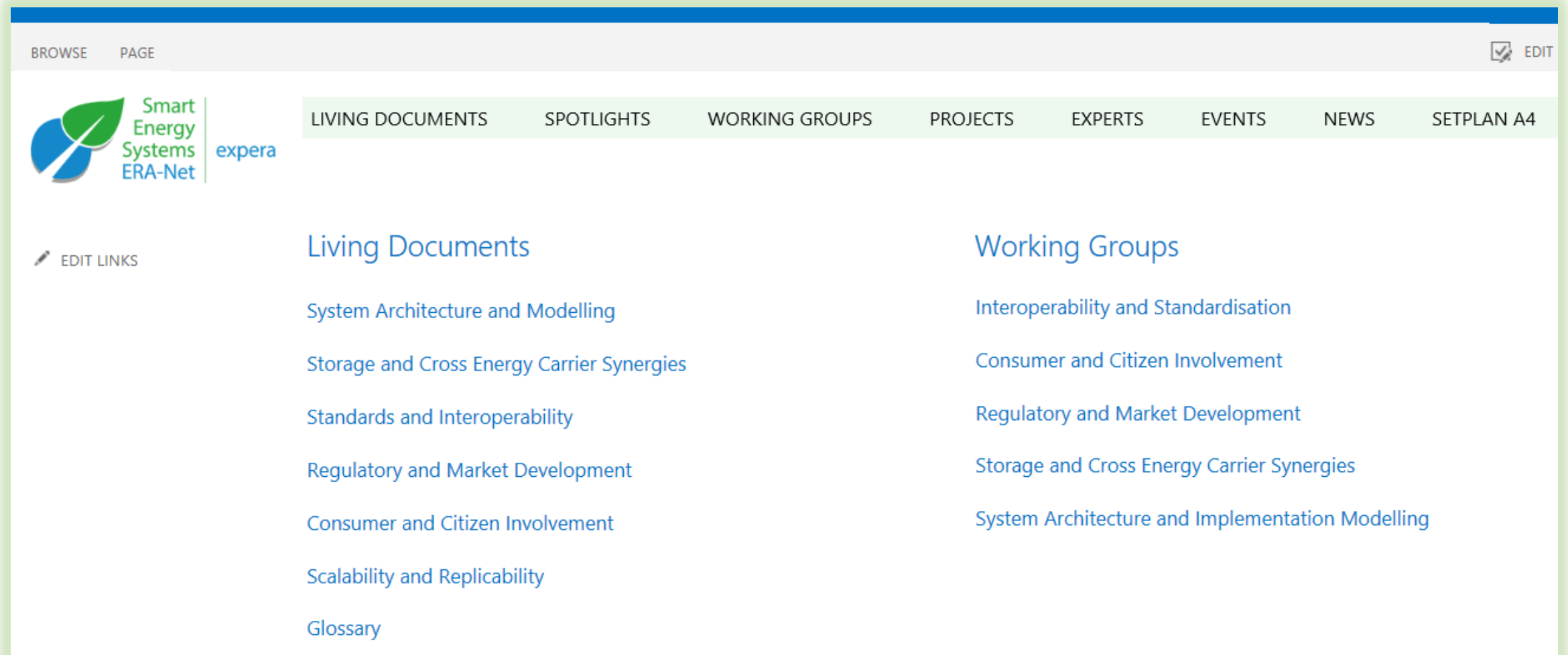
The ERA-Net SES Knowledge Community

MEMBERS

- ERA-Net SES projects
- National and transnational projects
- International RDD projects
- Smart Grids practitioners
- Agenda setters and policy makers

TOOLS

- Living Documents
- Working Groups
- Project Profiling („Evaluation“)
- Expert Repository
- Spotlights and Policy Briefs



The screenshot shows the expera knowledge platform interface. At the top, there are navigation links for 'BROWSE' and 'PAGE', and an 'EDIT' button with a checkmark icon. Below this is a horizontal menu with the following items: 'LIVING DOCUMENTS', 'SPOTLIGHTS', 'WORKING GROUPS', 'PROJECTS', 'EXPERTS', 'EVENTS', 'NEWS', and 'SETPLAN A4'. On the left side, there is a logo for 'Smart Energy Systems ERA-Net' and the text 'expera'. Below the logo is an 'EDIT LINKS' button with a pencil icon. The main content area is divided into two columns. The left column is titled 'Living Documents' and lists the following topics: 'System Architecture and Modelling', 'Storage and Cross Energy Carrier Synergies', 'Standards and Interoperability', 'Regulatory and Market Development', 'Consumer and Citizen Involvement', 'Scalability and Replicability', and 'Glossary'. The right column is titled 'Working Groups' and lists the following topics: 'Interoperability and Standardisation', 'Consumer and Citizen Involvement', 'Regulatory and Market Development', 'Storage and Cross Energy Carrier Synergies', and 'System Architecture and Implementation Modelling'.

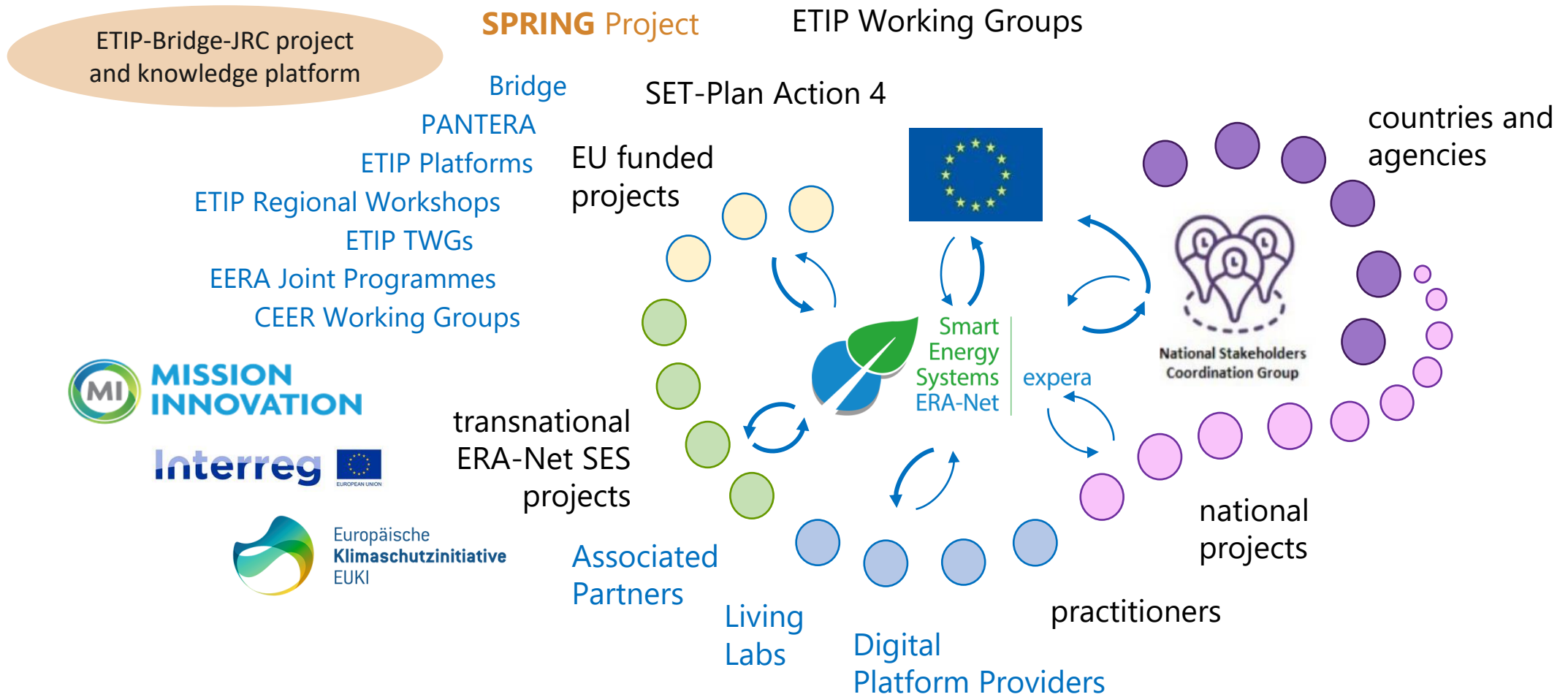
Associated Partner Programme

Joining forces with different kinds of non-funded cooperation partners to ...

- jointly foster development of technology and business solutions
- make sure that projects meet real needs of energy efficiency and energy transition processes
- link local and regional level to overall energy system
- connect to business domains way beyond the energy sector
- give RDD consortia confidence that their results will be adopted.

Involvement of Associated Partners will not only improve the quality of the funded RDD projects but also increase their overall impact.

JPP ERA-Net SES Linking Worlds



Example: Taskforce on Energy Communities



Taskforce leaders:
Leen Peters, Ludwig Karg

- Crosscutting work in the framework of Bridge
- What happens in the different MSs?
 - Good and inspiring examples
 - Analysis on legal existing and upcoming framework
- Recommendations expected
 - Replicability and upscaling needs and potentials
 - Research and demonstration needs
- Working Group “Regional Matters” with Taskforce “Local Energy Communities”
- Knowledge Generation from and for JPP SES projects
- Spotlights and Policy Briefs
 - for academia
 - funding programs
 - legislation (on MS level)
 - practitioners (energy, ICT)

Join us on expera for the co-creation of knowledge >>> <https://t1p.de/usr9>
(comment and edit living documents, participate in surveys, support creation of recommendations)



Communicating the Platform and the Projects

- Website
- Communication material (roll-ups, leaflets etc.) describing
 - initiative
 - projects
 - knowledge platform expira
- Communication guidelines for projects




Website Screenshot: The website features a navigation menu (ABOUT, CALLS, COMMUNITY, PARTNERS, PROJECTS, TOPICS, NEWS & EVENTS, SERVICE) and sections for 'INNOVATION FOR SMART ENERGY SYSTEMS IN EUROPE', 'JOINT CALLS FOR RDI PROJECTS', 'PARTNERS', 'FUNDED PROJECTS', and 'KNOWLEDGE COMMUNITY'. It also includes a 'PARTNERING & MATCHMAKING PLATFORM' and a 'SUBSCRIBE FOR OUR NEWSLETTER' form.

Communication and Visibility Guide: Titled 'Communication and Visibility Guide for ERA-Net Smart Energy Systems Funded Projects under focus initiatives Smart Grids Plus and Integrated Regional Energy Systems', dated April 2018. It provides guidelines for project communication and visibility.

Title Page: 'ERA-NET SMART ENERGY SYSTEMS INITIATIVE TITLE OF THE DELIVERABLE VERSION XX', dated 'xx Month 20xx'. It includes an 'INTERNAL REFERENCE' table:

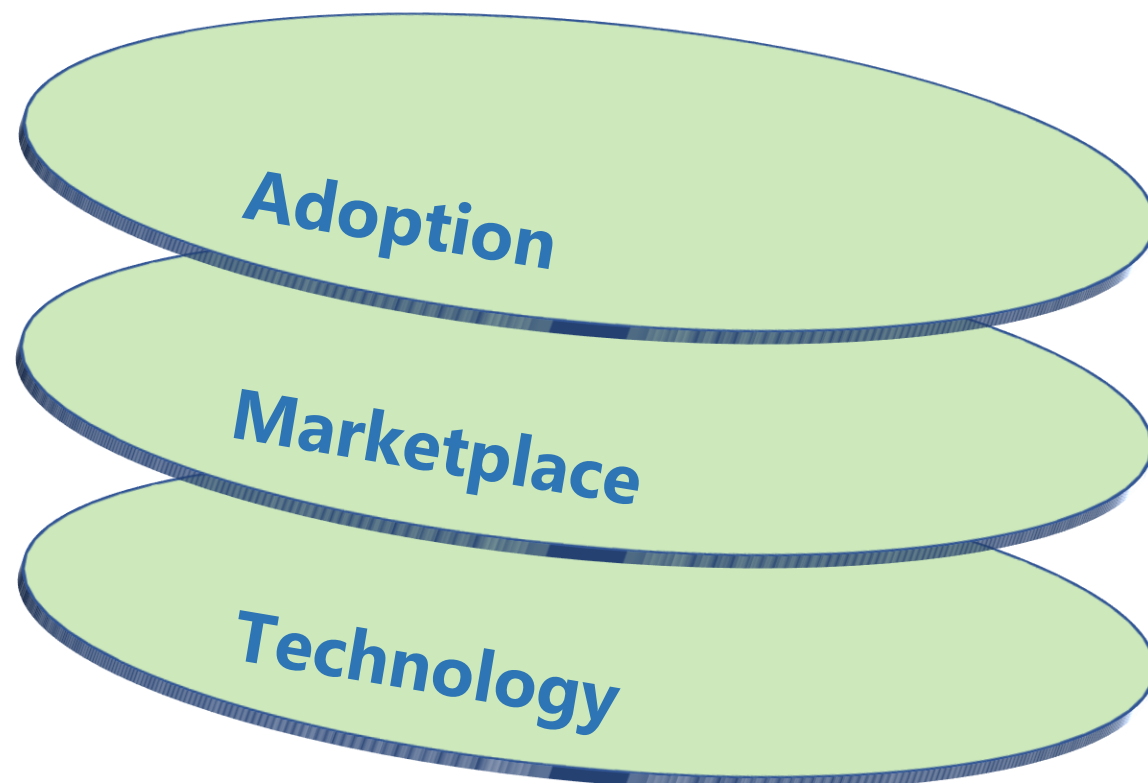
Deliverable No.:	D.XX.20xx
Deliverable Name:	
Lead Participant:	
Work Package No.:	
Task No. & Name:	
Document (FP):	ERA-Net SES Template_Deliverable_4thE (UPDATE FILED!)
Issue Date:	2018-01-01 (UPDATE FILED!)
Dissemination Level:	
Confidentiality (TLP):	++ YELLOW (in final distribution)

Leaflets: Several project leaflets are shown, including 'SMARES', 'GROSBAS', 'Stable', 'MATCH', and 'enlig', each detailing specific smart energy system initiatives.



Looking back

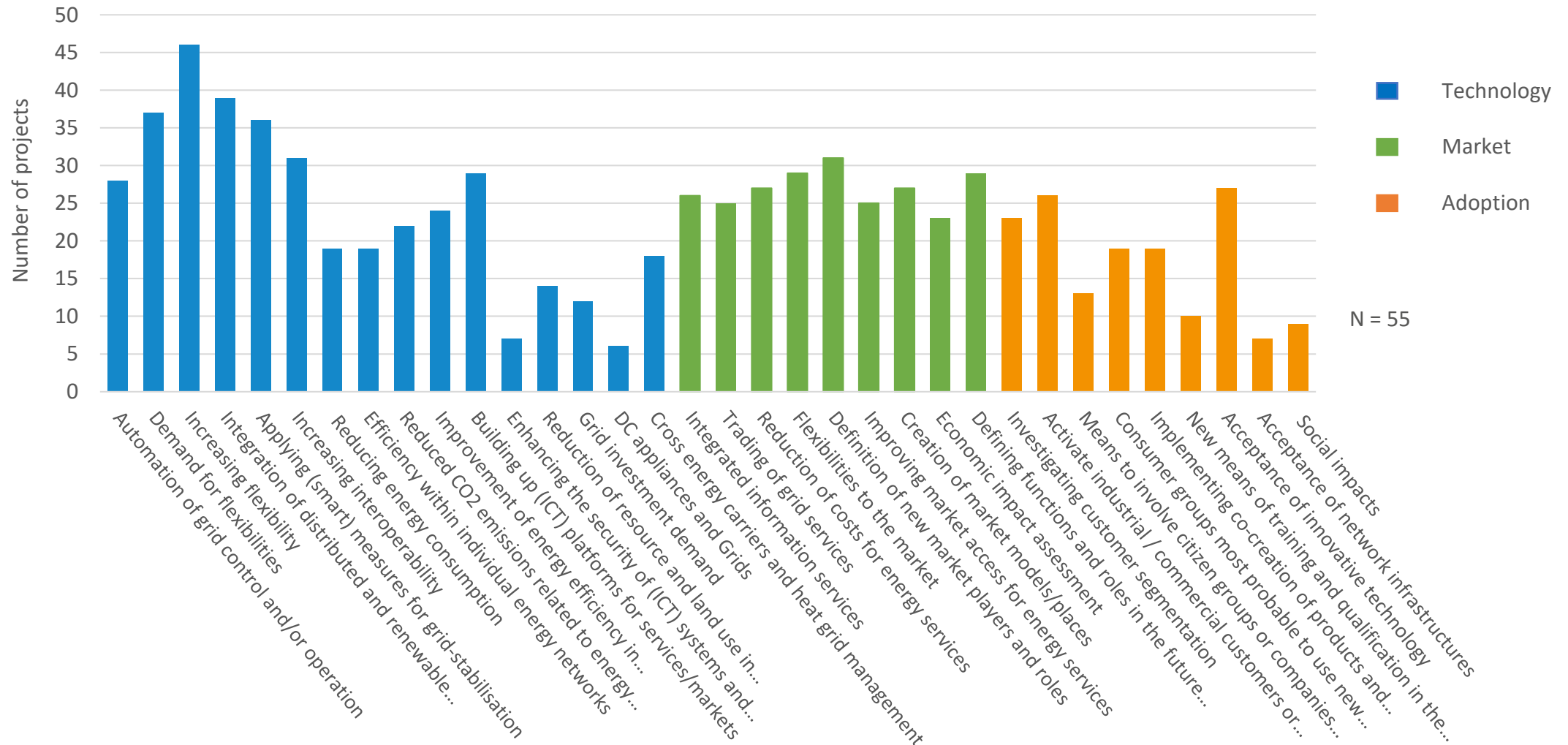
Three Layer Research Model



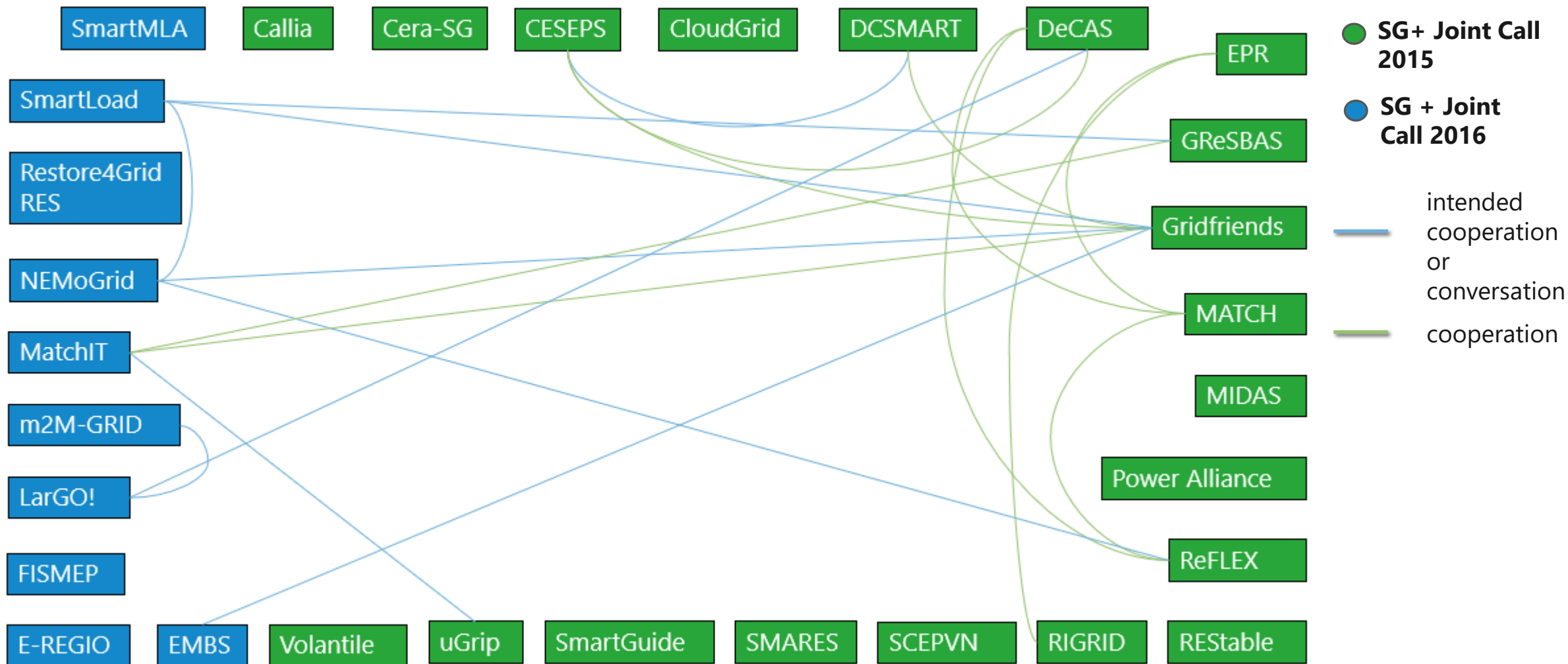
Distribution of topics tackled in layers

SG+ Joint Call 2015, 2016, 2017 and RegSys Joint Call 2018

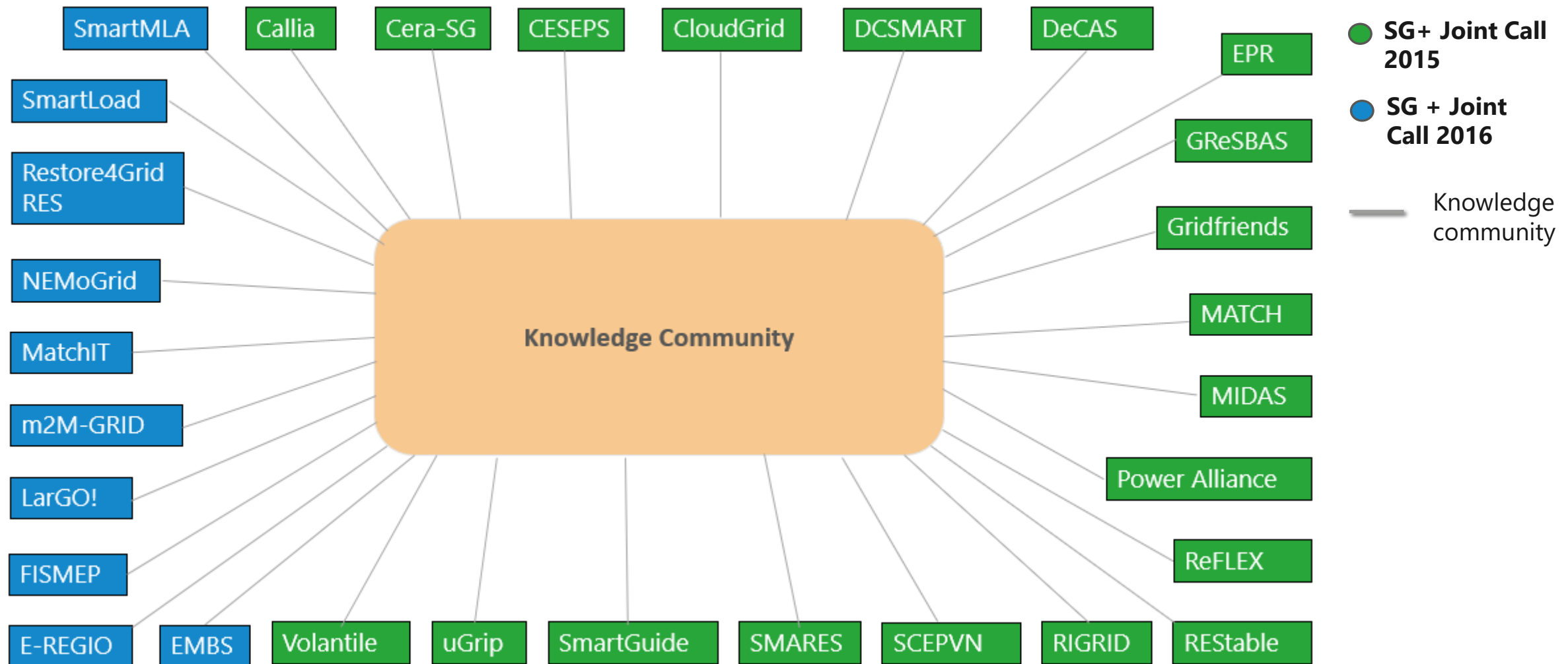
Topics covered by all Joint Calls (SG+ 2015, 2016, 2017 and RegSys 2018)



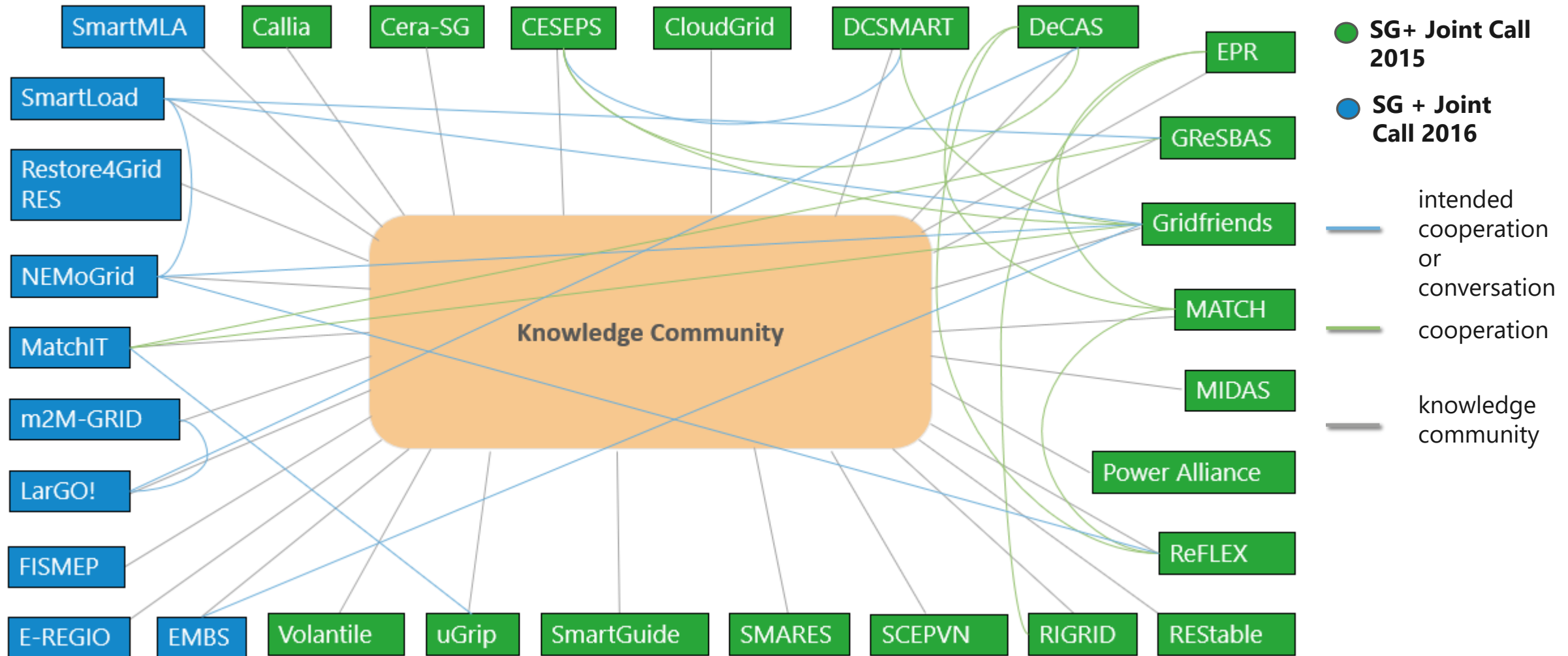
Cooperation between projects



Cooperation between projects via Knowledge Community



Cooperation between projects via Knowledge Community



Joint Programming Platform ERA-Net Smart Energy Systems Focus Initiative Smart Grids Plus

Success stories from Joint Calls 2015 and 2016 projects

The Brochure

https://eranet-smartenergysystems.eu/global/images/cms/Content/Projects/EraNetSES_ProjectBrochure_JointCalls201516.pdf

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The Brochure



Projects' Key Exploitable Results Interactive Energy and Infrastructure

RIGRID Result

[RIGRID VR-tool is a modular application for technical and socio-economic planning and operation of new emerging energy infrastructures in rural areas. Technical solutions of microgrid structures can be visualized using Virtual Reality tool. Thus several scenarios can be tested to find optimal placement of PV, wind, storage, lines, cables. Active participation of citizens in the planning process increase acceptance of new infrastructure and accelerates investment.

Partners for Further Development and Uptake

- Rural regions/ municipalities
- Energy clusters/ cooperatives
- Engineering/ design offices
- RES investors/ Energy system operators

More Information

<https://www.youtube.com/watch?v=DQKcRqpyKk8>

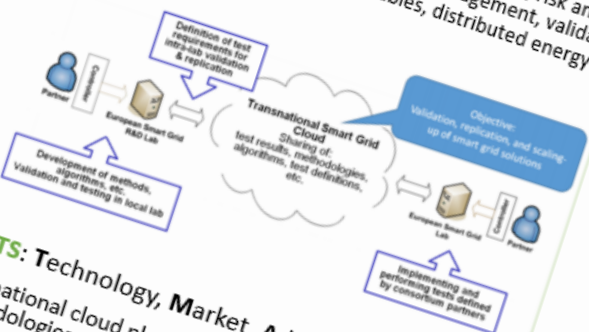
https://www.researchgate.net/publication/325988031_Multi-Criteria_Planning_Tool

MATCH

Cluster: Resilience

Transnational cloud for interconnection of demonstration facilities for smart grid lab research & development

TOPICS smart sockets, grid resilience, ancillary services, risk and benefit analysis, converter interoperability, energy management, validation of grid lab results, grid lab cooperation, renewables, distributed energy resources, AC/DC hybrid grids



RESULTS: Technology, Market, Adoption

- Transnational cloud platform for smart grid labs with data, methodologies, test results and catalogue of resources
- List of parameters and requirements for converter interoperability evaluation
- Comprehensive map of ancillary services including technical evaluation
- Method for evaluation of risks and benefits of providing ancillary services by prosumers
- Market design for many participants on supply and demand side and renewables integration
- Catalogue of recommended actions for safeguarding grid stability
- Catalogue of recommended system management strategies

Partners for Further Development


- Operators and users of grid labs
- Research and development community of ancillary services
- (Potential) providers of ancillary services
- Experts in regulatory issues relevant for ancillary services
- Experts in payment schemes and incentives for ancillary services
- Developers of converters
- Grid operators
- Developers and planners of market models

Technological Readiness Level

■	■	■	■	■
■	■	■	■	■
■	■	■	■	■
■	■	■	■	■

2016 → 2019

Project Duration: 2016 -2019
Contact: michael.calder@no.abb.com
Budget: Total: € 2,300,000.-
Funding: € 1,900,000.-
Partners: NTNU (Norway), Chalmers (Sweden), ZHAW (Switzerland), IPE (Latvia)
Project Website: <http://www.eranet-cloudgrid.eu/>







Card Deck 2015

2016

[SmartLoad](#) (DE, CH)

[FISMEP](#) (DE, RO, SE)

[m2M-GRID](#) (FR, SE, NL)

[LarGo!](#) (AT, DE, SE)

[NEMoGrid](#) (CH, DE, SE)

[MatchIT](#) (SE, NL)

[E-REGIO](#) (NO, SE, NL)

[RestoreGrid4RES](#) (AT, DE)

[EMBS](#) (AT, DE)



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Looking forward

Projects selected for MICall19

- Find our MICall19 projects on our website [here](#)

ADHERE; New STEPS; USC - Flex Store; I-Greta; MOBISUB; H2 CoopStorage; CrossChargePoint; DEVISE; AISTOR; IFAISTOS; MESH4U; Power-2-Transport; HED-LiS; BIO-NRG-STORE

>> MICall20



**MISSION
INNOVATION**

accelerating the clean energy revolution



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Participating countries & regions



Call procedure timings		
Proposal phase	Call opens	Q4 2020
	Compulsory registration of interest deadline	Q1 2021
	Full proposal submission deadline	Q2 2021
	Project selection	Q2-Q4 2021
Project phase	Project start date	Q4 2021

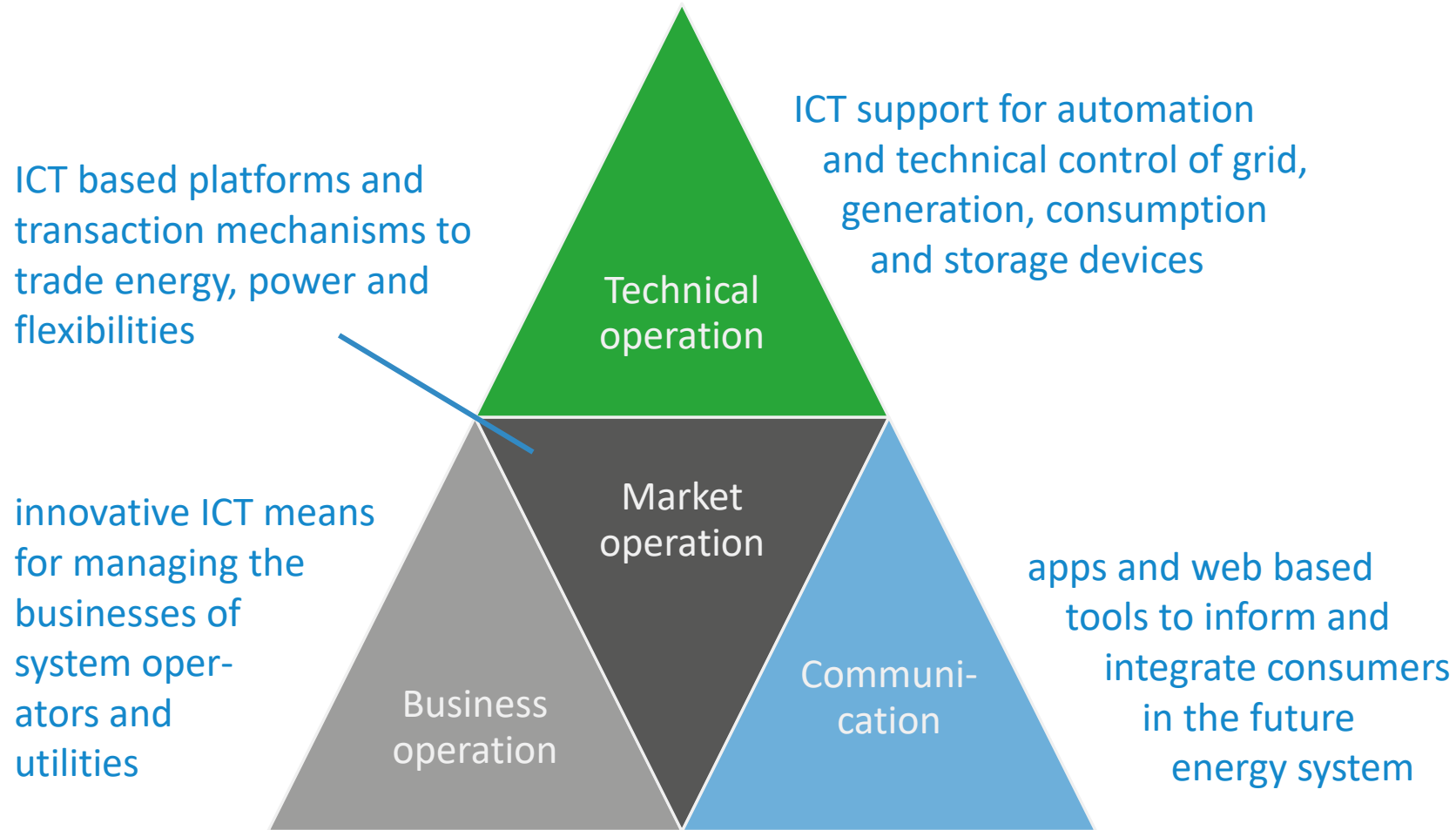
Join now the Matchmaking for Joint Call 2020 (MICall20): <https://jpp-ses-matchmaking-micall20.eranet.b2match.io/>

Challenges

Projects are expected to address key challenges and opportunities relating to the main objectives such as:

- Social sustainability
- Energy and ICT infrastructure
- Energy marketplaces, business models and communication

Dimensions for deploying digitalisation in the energy system



The supporting eco-system for projects

- **Living Labs**

user-centred and open innovation ecosystems often operating in a territorial context, integrating concurrent research and innovation processes (co-creation), potentially relying on a public-private-people partnership.

- **Digital Platform Providers**

ICT partners that provide source code, software as a service, executable packages with interfaces or field installations to be used by JPP SES projects for free or against service charge



Contact the Joint Programming Platform

Office ERA-Net Smart Energy Systems

office@eranet-smartenergysystems.eu

Call Management

callmanagement@eranet-smartenergysystems.eu

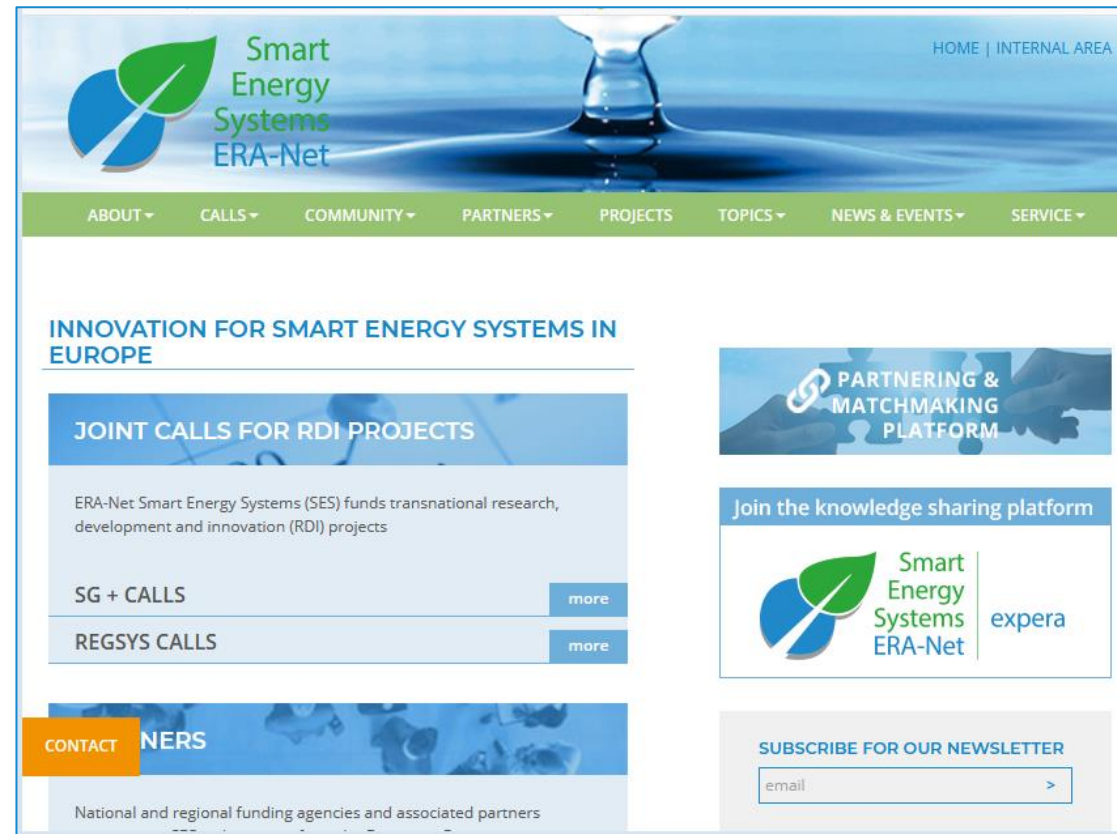
Knowledge Community

knowledgecommunity@eranet-smartenergysystems.eu

Coordination

Austrian Ministry for Transport, Innovation and Technology

Coordinator: Michael Hübner



The screenshot shows the website's header with the logo and navigation menu. The main content area features a section titled "INNOVATION FOR SMART ENERGY SYSTEMS IN EUROPE" with a sub-section "JOINT CALLS FOR RDI PROJECTS". Below this, there are two rows of links: "SG + CALLS" and "REGSYS CALLS", each with a "more" button. To the right, there is a "PARTNERING & MATCHMAKING PLATFORM" section and a "Join the knowledge sharing platform" section featuring the "expira" logo. At the bottom right, there is a "SUBSCRIBE FOR OUR NEWSLETTER" form with an email input field and a submit button. The footer of the website includes a "CONTACT" button and the text "NERS National and regional funding agencies and associated partners".



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Farewell to new endeavors

Results of concluding projects

1) Hear about remarkable results of

A) RestoreGRID4RES

B) EMBS

C) FISMEP

D) RELflex

E) SMART-MLA

2) Afterwards:

Meet the projects in their booths on a virtual market to discuss the results



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RestoreGRID4RES

Results of concluding projects

Project Outline: Results

Results

Technology

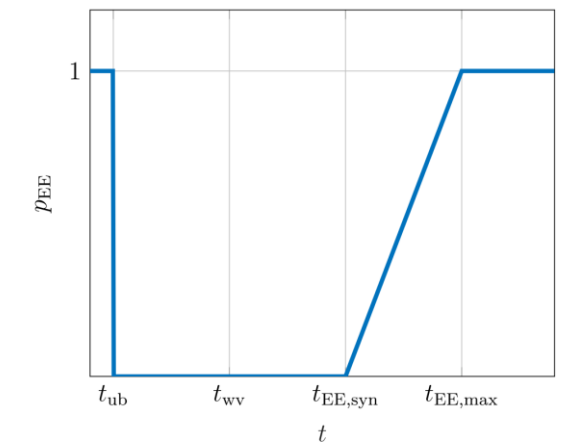
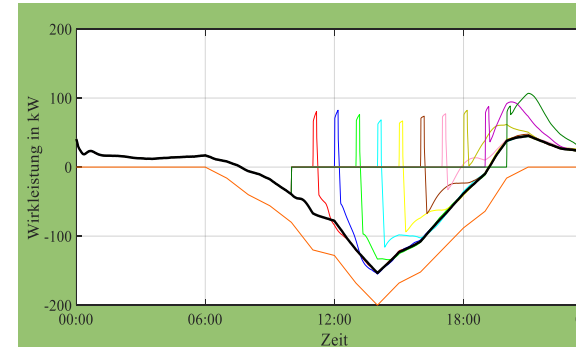
- Modelling artificial LV- and MV-grid models
- Residual load models for restoration process studies
- Restoration tools coping high shares of renewables

Market

- Specification and implementation guidelines for restoration tools
- Design of future grid restoration strategies

Adoption

- Overview on grid restoration challenges coping high shares of renewables





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EMBS

Energy Management Building Set

#demand response #interoperability #energy cooperatives

Runtime: August 2017 – June 2020

Project Outline: Results

Results

- ICT Architecture in an heterogeneous multi-vendor system
- Energy monitoring and controlling architecture
- Forecast tool to optimize the provision of thermal and electric energy
- Automated control application for local optimization based on different data sets (price, weather, consumption)

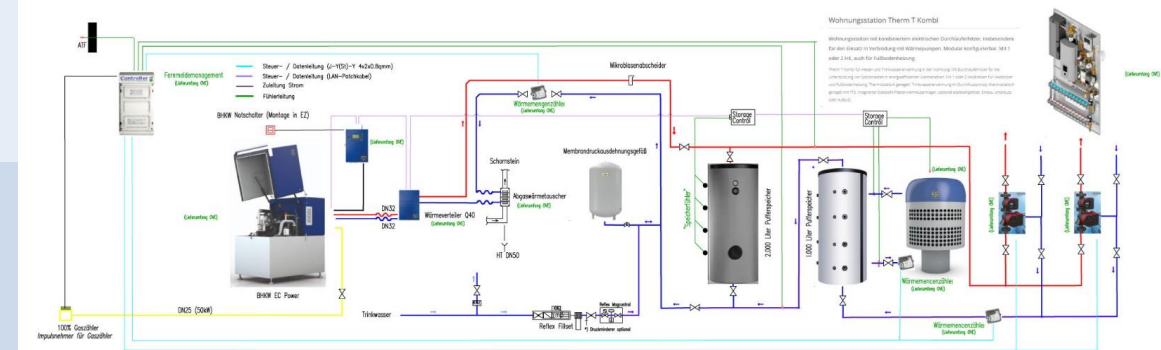
Technology

- Optimizing KWKG benefits
- Sensitivity analysis for CO2 pricing, e.g.: EEG Umlage

Market

- EMBS Prototype installation at partner side
- EMBS Backend installation (Security, Firewall, Backup)

Adoption





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FIWARE for Smart Energy Platform

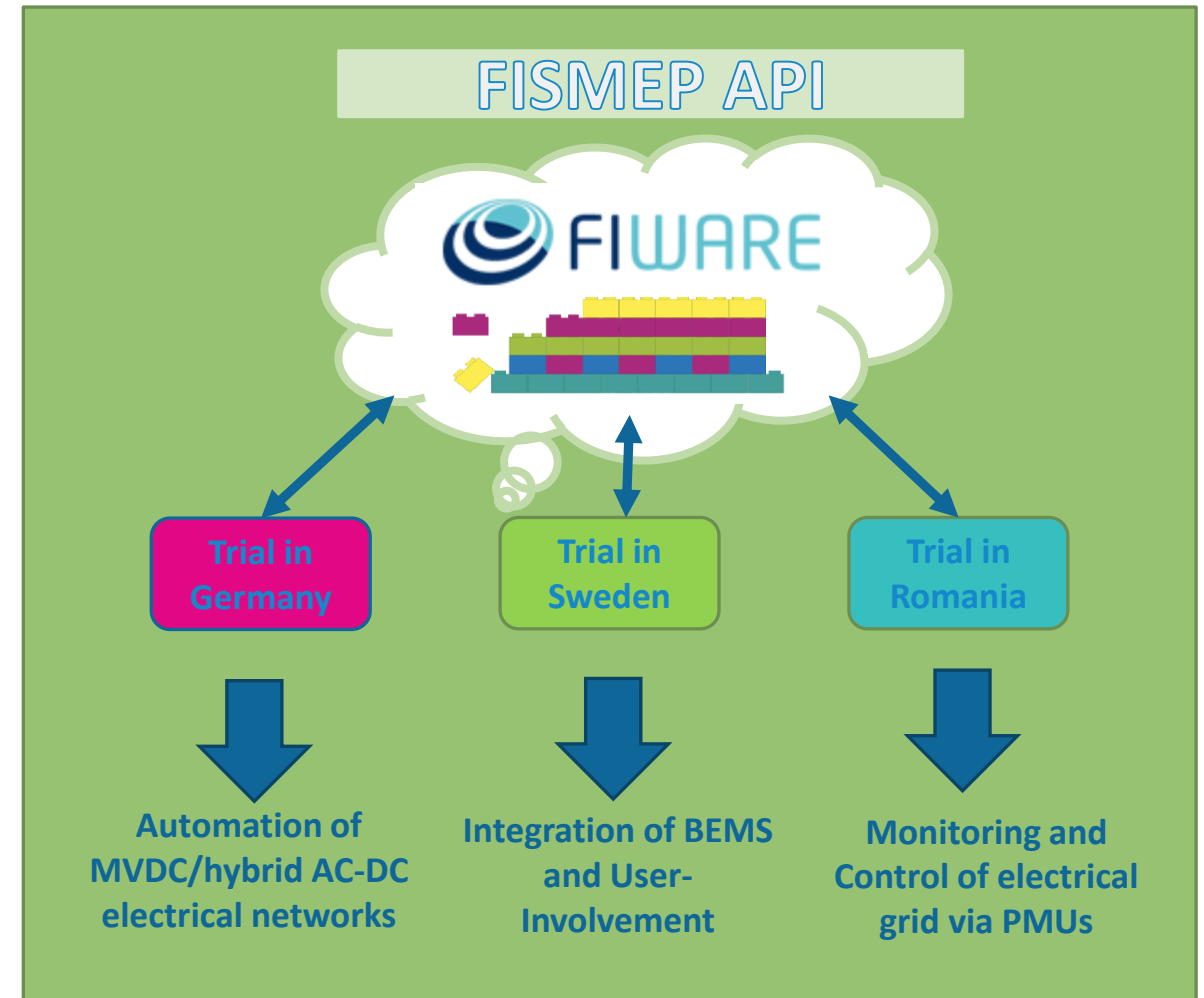
FISMEP- FIWARE for Smart Energy Platform



#FIWARE # Cloud # Smart Energy Platform

Runtime: December 2017 – November 2020

Project Outline: Results

Results	
Technology	<ul style="list-style-type: none">• Design and implementation of service restoration in MV network• Distributed architecture and semantic included platform• District Heating Energy Management (CESO)• ERO app for the residents energy usage
Market	<ul style="list-style-type: none">• Innovative SOA platform as open source• Test sites dimension is suitable for platform complex testing
Adoption	<ul style="list-style-type: none">• Use case evaluation with standards like SAREF and other ontologies• Customers are engaged to test flexibility• Supporting new business models for e.g. customer involvement



A background image of a water droplet falling into a pool of water, creating ripples. The background is a soft, light blue gradient.A logo consisting of a green leaf shape overlapping a blue circle, with a white diagonal line crossing through the circle.

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RELflex - Renewable Energy and Load Flexibility in Industry

**#Load and RES Flexibility # SMEs- small industry
DSM/DSR in EMS**



Project Outline: Results

(Expected) Result(s)

Technology

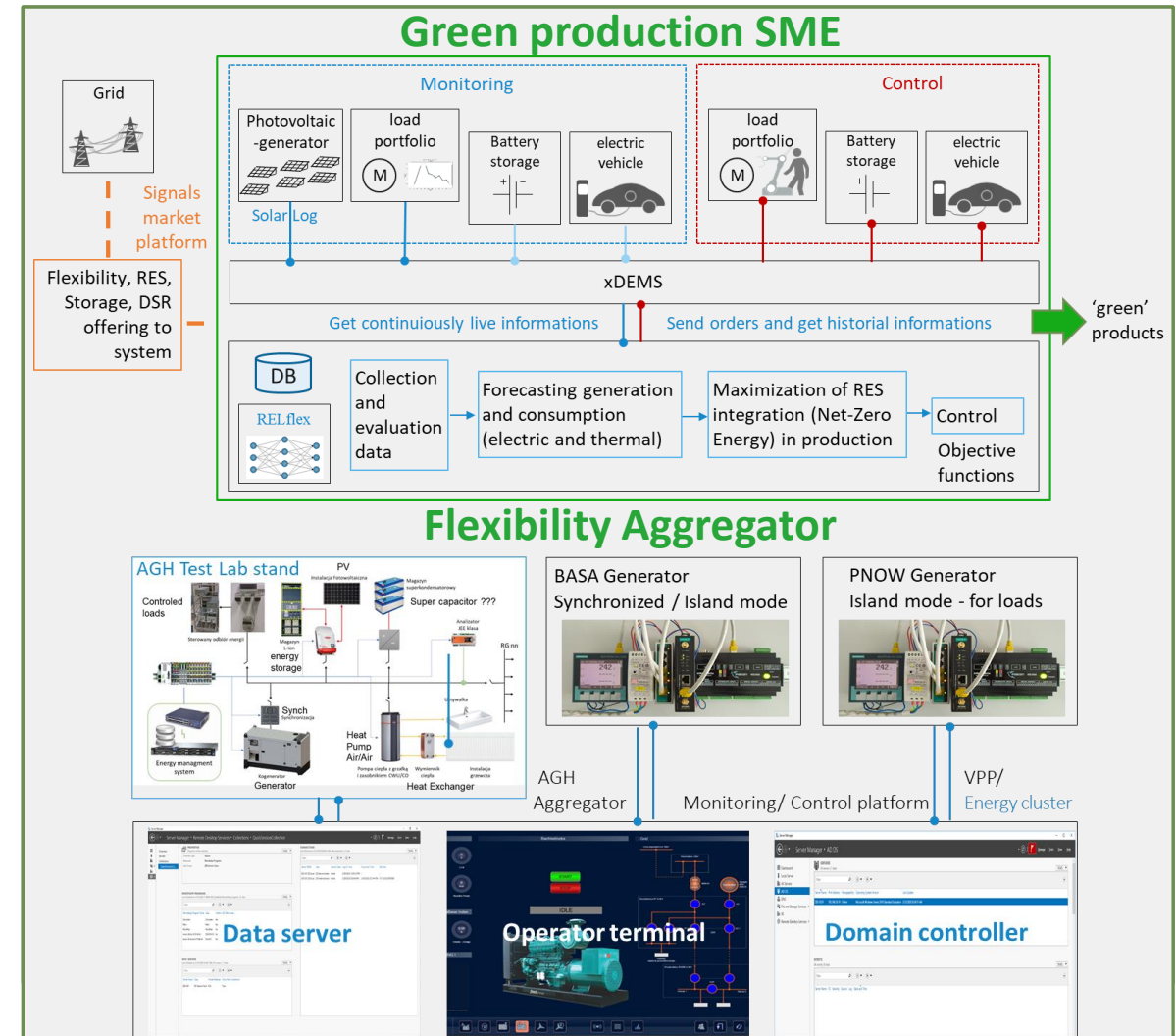
- HW and SW solution for flexibility in SMEs with RES and reserve energy sources
- xDEMS with DSM/DSR functions
- Net-Zero-Energy-Factory

Market

- ICT communication interfaces and business interfaces to
- flexibility platforms, energy trading

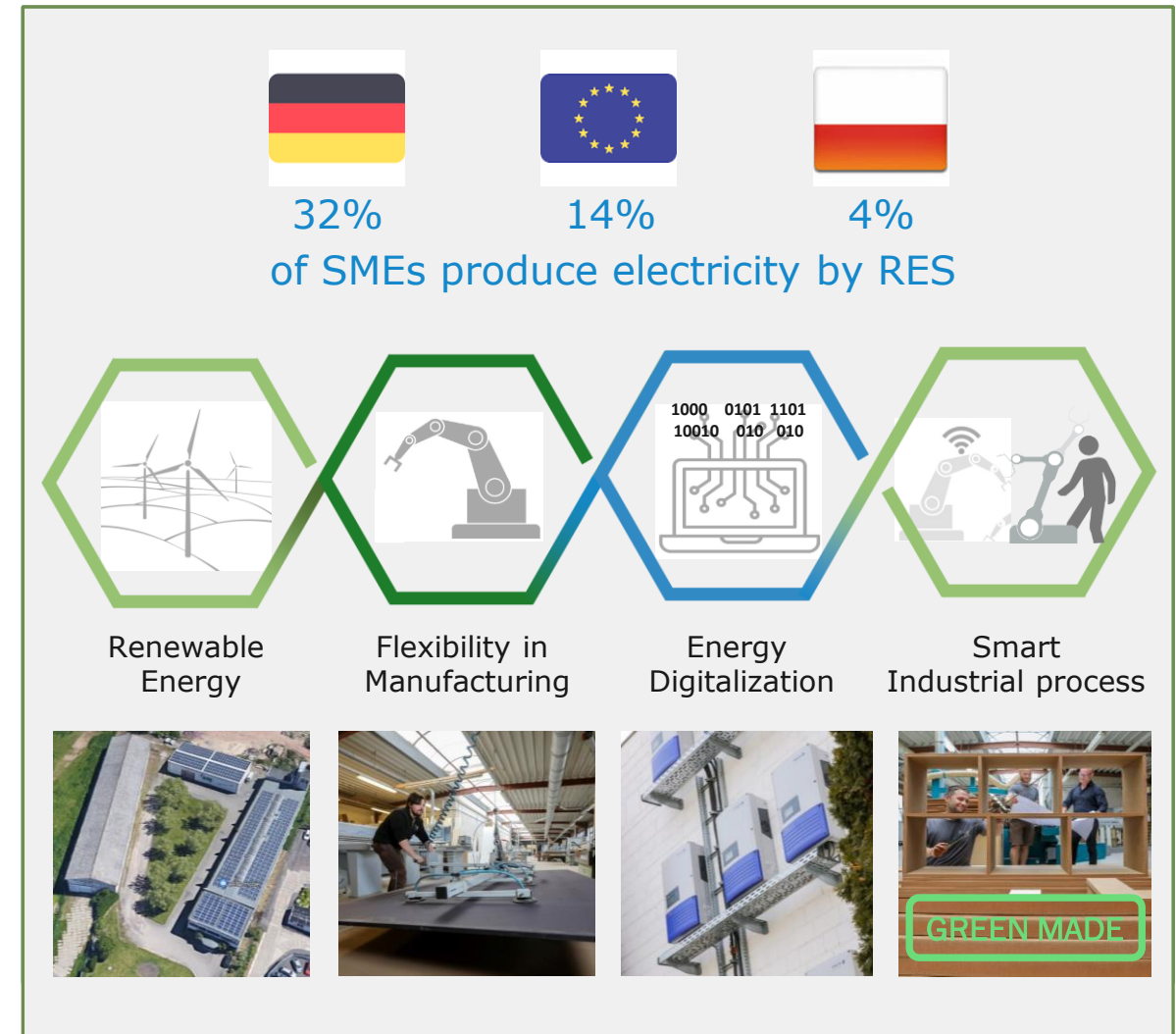
Adoption

- Net-Zero-Energy-Factory
- 'green' products
- flexibility acceptance by employees → load follows generation



Project Outline: Implementation

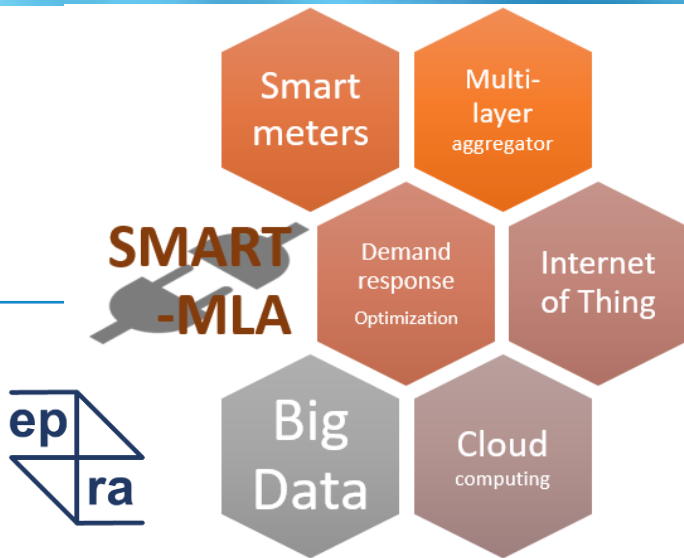
- flexibility of energy-relevant industry processes at SMEs via dynamic management of controllable loads, RES generation and storage
- aggregate reserve generation units in a virtual flexibility plant for offering DSR services to the system operator
- level of integration for flexibility, Flexgraphs
- analysis of market architectures to offer flexibility information and services
- acceptance among stakeholders, operators, customers incl. their preferences, participation and interest for flexibility offer



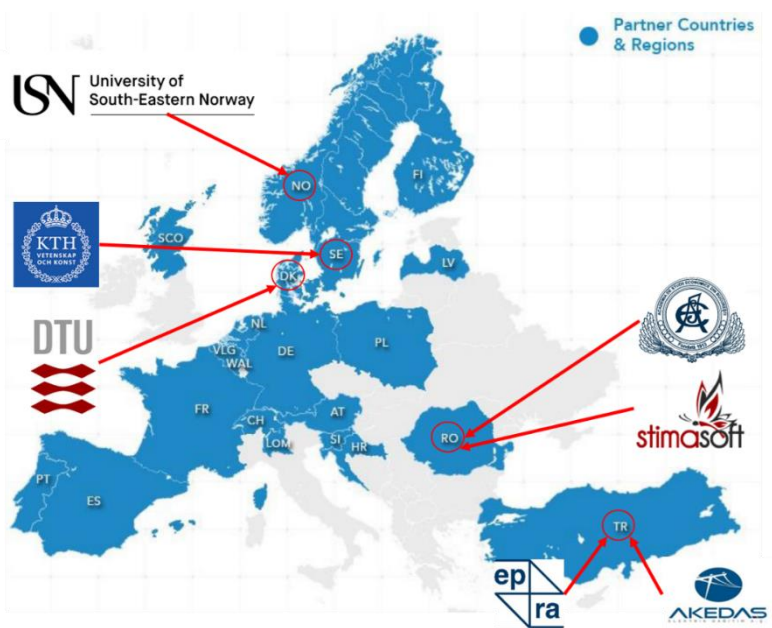
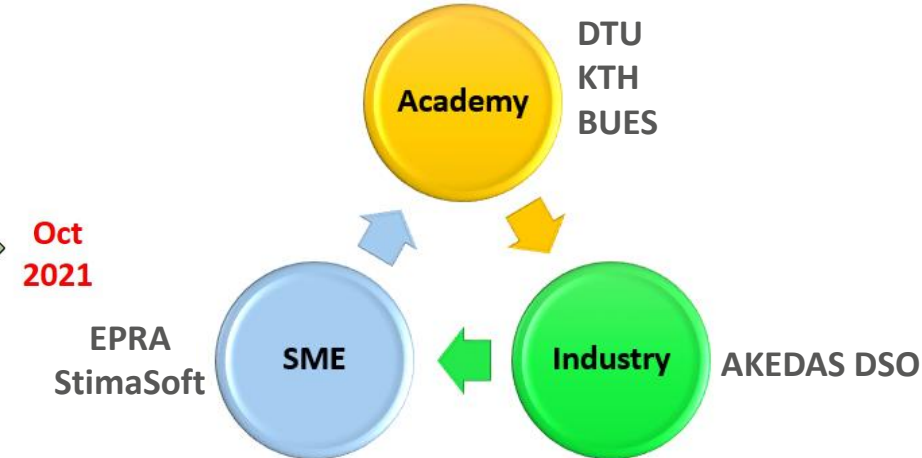
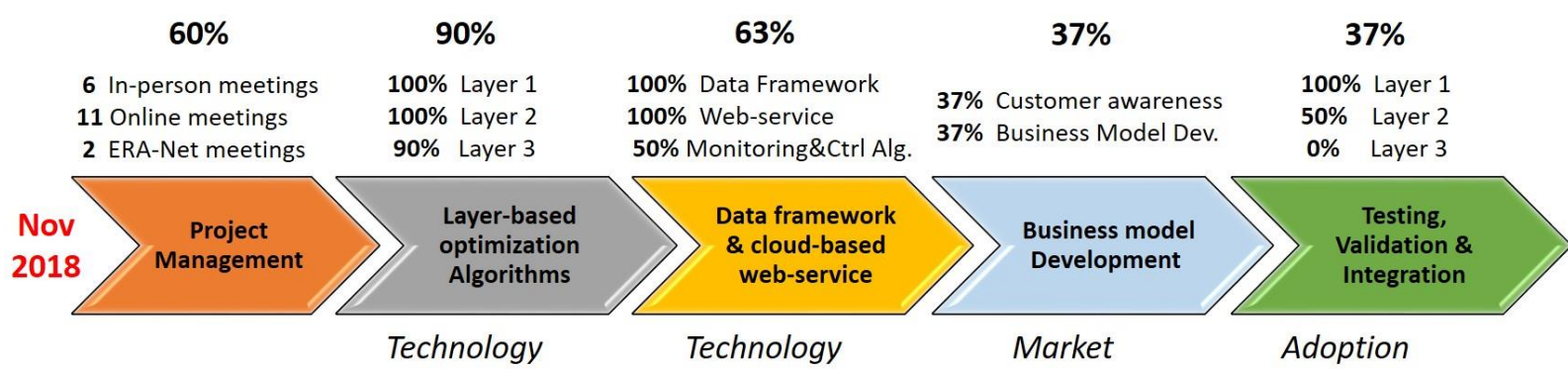
Multi-layer Aggregator Solutions to Facilitate Optimum Demand Response and Grid Flexibility (SMART-MLA)

Aggregator, Demand Response, Flexibility

<http://smart-mla.stimasoft.com>



Project Outline



Layer 3: Aggregation in Wholesale Electricity Markets – AWEM
(Monitor / Optimize / Control / Bidding / Market Clearing / Settlement)

Layer 2: Community Aggregator with Control
(Monitor / Optimize / Control / Settlement)

Layer 1: Community Aggregator
(DR Optimization only / No Control)

Project Outline: Results

(Expected) Result(s)

Technology

- **Optimization algorithms:** Layer 1, 2, and 3
- **Forecasting algorithms:** Demand, renewable generation
- **Data framework:** Database design
- **Monitoring and Control algorithm:** IoT
- **Cloud-based web-service application tool**

Market

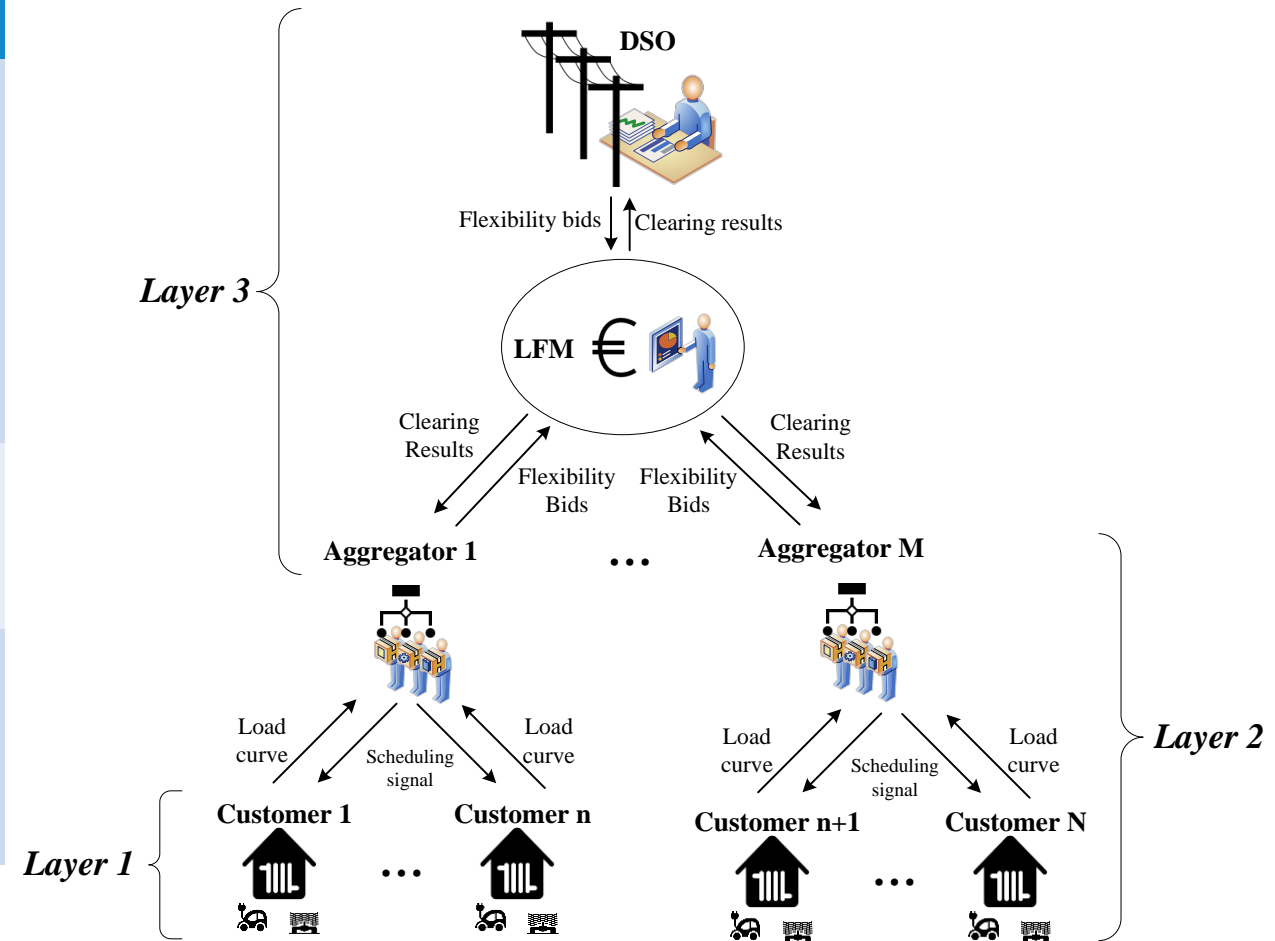
- Settlement mechanisms design and development
- Business model development

Adoption

- Web-service application
- Smart phone application
- Stockholder meetings

So far:

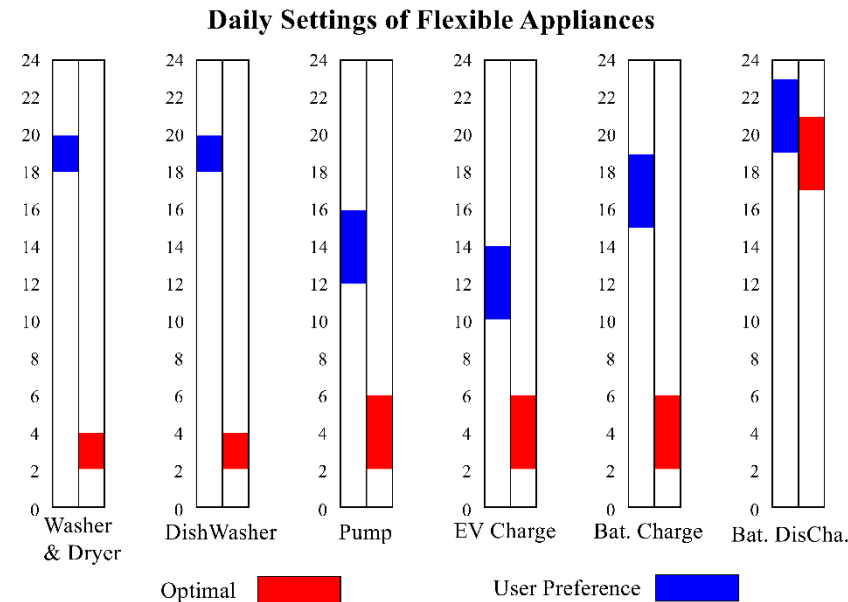
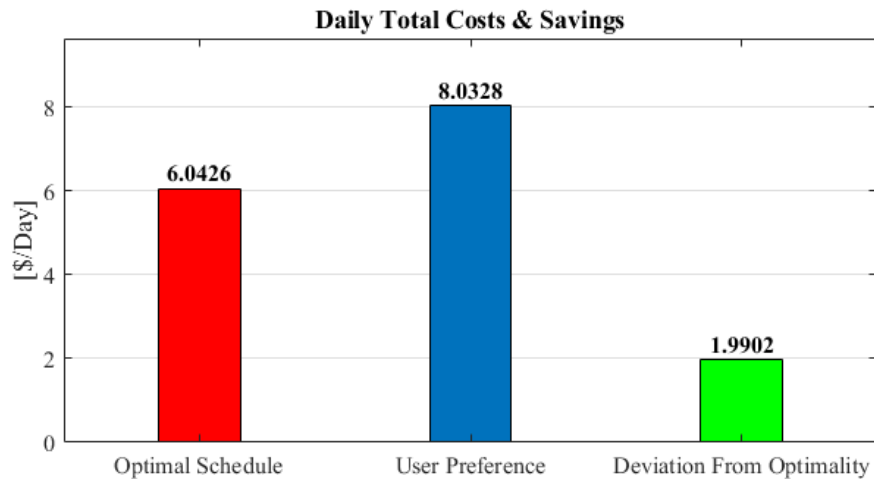
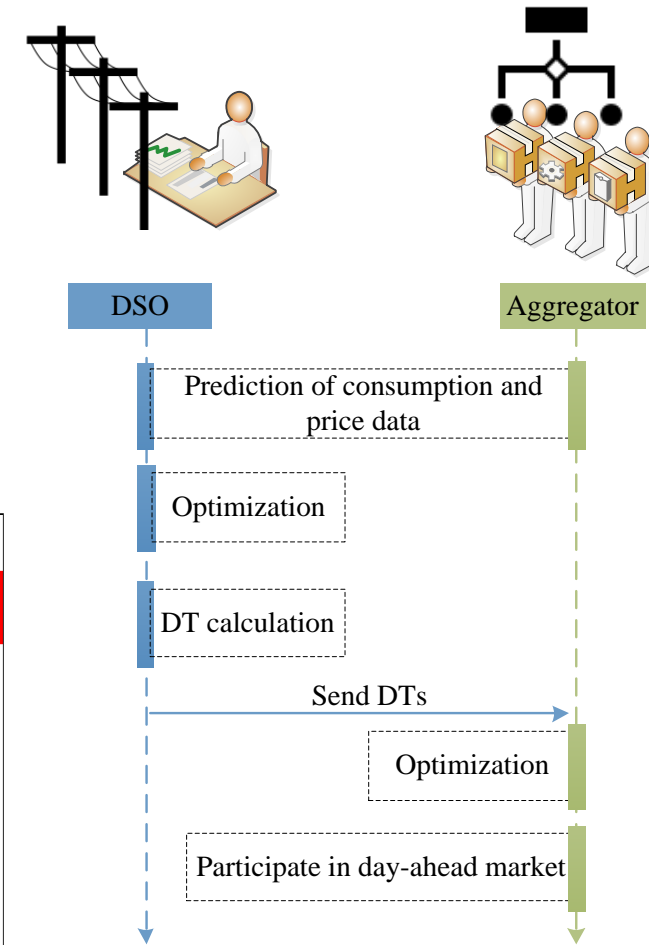
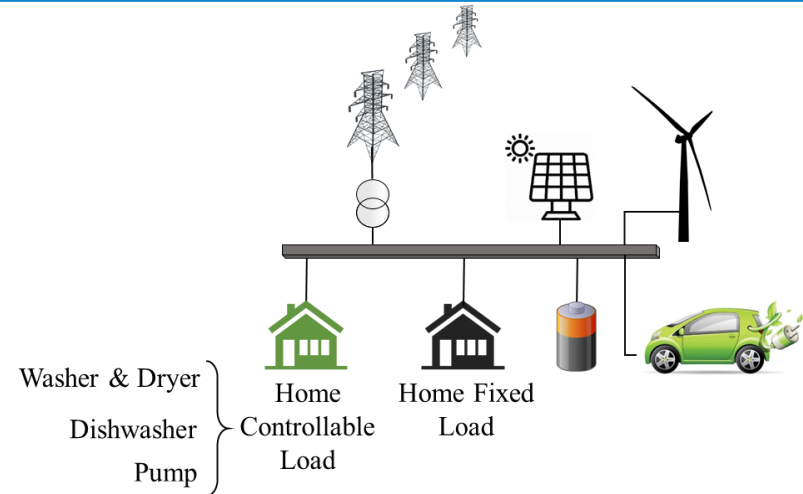
- ✓ 13 SCI paper
- ✓ 13 Conf. paper <https://smart-mla.stimasoft.com/>



Relation of the project to the session's topic

Flexibility and Market

- Three layers of flexibility
 - ✓ Consumer/Prosumer level
 - ✓ Aggregator level
 - ✓ DSO level
- Dynamic Tariff for Demand Response
- Local Flexibility Market





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Virtual market place

Getting to the booths on the Virtual Market Place

The next 45 minutes: Join a virtual market place booths with the presented projects:

Booth A)	RestoreGRID4RES	<u>support</u> : Ludwig Karg,
Booth B)	EMBS	<u>support</u> : Laura Börner
Booth C)	FISMEP	<u>support</u> : Dorothea Brockhoff
Booth D)	RELflex	<u>support</u> : Julia Chenut
Booth E)	SMART-MLA	<u>support</u> : Franziska Wirth

At 11:40 CEST we will bring you back to the main room for the next agenda points



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Knowledge Community Meeting

ERA-Net SES: Working Groups and Taskforces



System Architecture and Modelling (regional data stores, ...)

Storage and Cross Energy Carrier Synergies (heat & cold, CH₄, H₂, ...)

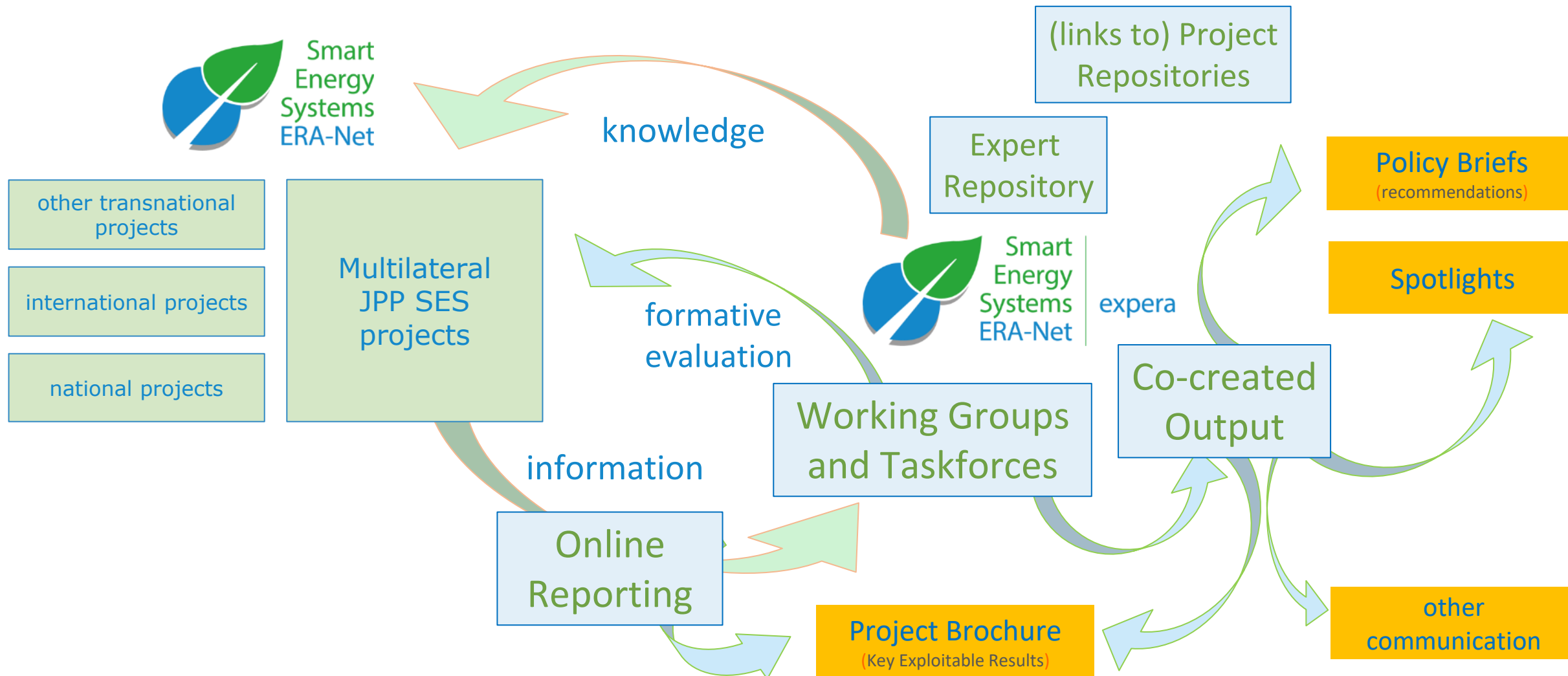
Interoperability and Standardisation (linking to IEC, IEEE, ...)

Regulatory and Market Development (regional marketplaces, ...)

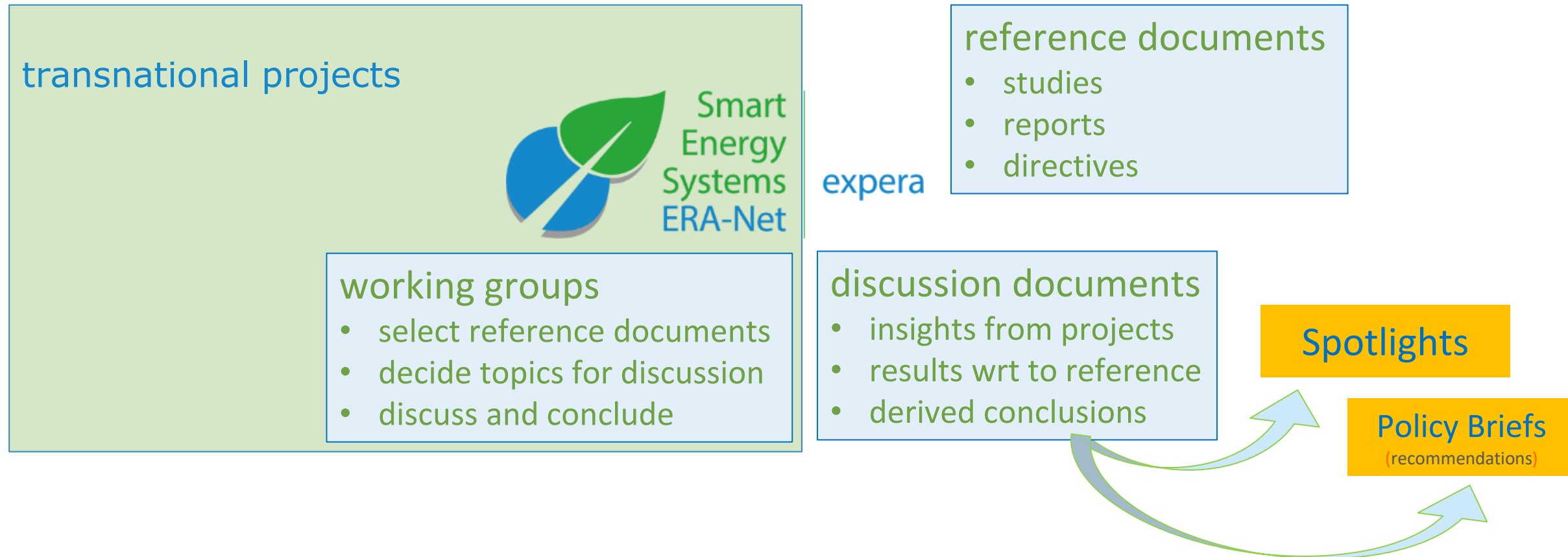
Consumer and Citizen Involvement (citizens, regional stakeholders,...)

Regional Matters (innovation, technology-transfer, new formats, regional investment ...)

Improved Knowledge Community Working Approach

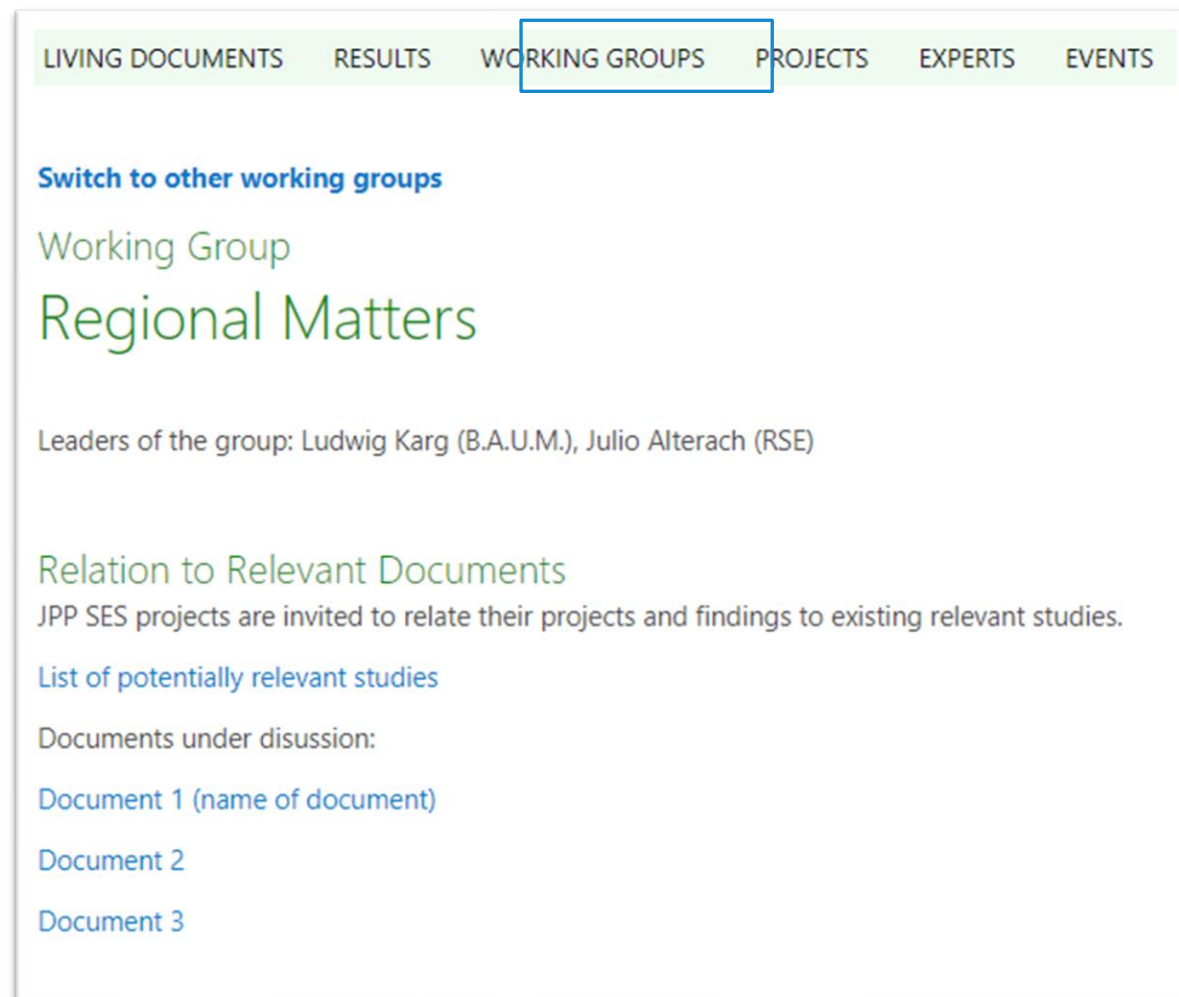


Relating JPP SES projects to the rest of the RDI world



The Discussion Documents (1)

- Collaboration Documents in Working Group Spaces on expera
 - link to reference document
 - selected topics for referencing
 - >>> reference per project
 - conclusions
- adjacent discussion fora



LIVING DOCUMENTS RESULTS **WORKING GROUPS** PROJECTS EXPERTS EVENTS

[Switch to other working groups](#)

Working Group
Regional Matters

Leaders of the group: Ludwig Karg (B.A.U.M.), Julio Alterach (RSE)

Relation to Relevant Documents
JPP SES projects are invited to relate their projects and findings to existing relevant studies.

[List of potentially relevant studies](#)

Documents under discussion:

- [Document 1 \(name of document\)](#)
- [Document 2](#)
- [Document 3](#)

The Discussion Documents (2)

- longlist for reference documents
 - proposals by projects and experts
 - proposals by support team
- voting and selection process
- max. 3 reference documents at a time

List of relevant documents

Working Group: RegioM

title	ETIP RHC 2050 vision for 100% renewable heating and cooling in Europe		
publisher/author	ETIP RHC (Renewable Heating and Cooling)	year	2019
topics			
link	https://www.rhc-platform.org/content/uploads/2019/10/RHC-VISION-2050-1-WEBSITE.pdf		
relevance	<p>Chapter 4 "100% RE Buildings"</p> <ul style="list-style-type: none"> • Exploiting existing infrastructures to facilitate the RHC transition • The large variety of H&C technologies can provide optimal solutions for any context • Sector coupling and energy storage are key elements enabling 100% RE in buildings • System solutions and consumer participation • Drivers for further RHC market uptake 		
interested			

📄 template for new entry

title	<full title>		
publisher/author		year	
topics	<keywords for content>		



An example

Key Point of Reference Document X: [Mice in Germany are white.](#)

Project A: We can [support this finding](#). Additionally, they usually have red eyes. In our investigations, vitamin D supplements of 1mg/g of weight have shown to prolong life of these white, red-eyed mice by about 6 months.

Project B: We [cannot confirm this](#). In the Bavarian alps, we found brown mice. Brown mice seem to be larger and have significantly longer life expectations.

Conclusion:

ERA-Net SES projects found that there are white and brown mice in Germany. While Brown mice have a longer life expectancy in general, white mice live longer with vitamin D supplements. It is important to [consider the brown mice for an integrated perspective](#).

Contributing to the Working Group

- Register for expira <http://www.smartgridsplus.eu>
- Register as member of the Working Group on expira or by writing to knowledgecommunity@eranet-smartenergysystems.eu
- Review list of reference documents and relate them to your project:
 - Which documents seem most relevant to you?
 - Do you know of further documents which could be related to?
 - What is your perspective on the key points of these documents?
Based on the experiences made in your project: do you (dis)agree? Why?



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Interactive Lunch Break

The next 60 minutes: Join a virtual lunch booth with:



Gantner

Booth A) Gantner Instruments monitors and controls data with fast edge devices for various energy applications - be it PV, EV, battery energy storage, wind or thermal power. By doing so, Gantner enables advanced smart energy services



Logarithmo

Booth B) Join our logarithmo lunch bar with good jazz to discuss your digital ideas and the technological platform for making them real! We provide the flexible data and digital service platform for a variety of Smart Energy and AI use cases in Europe – we are happy to discuss the fit for your ideas bilaterally



**EnerIT
innovation**

Booth C) Novel REAL-TIME bi-directional wireless PowerQualityAnalyzer & IoT Platform with Business Intelligence & Machine Learning features based solution having outstanding cost-value ratio for all segments



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Booth D) Get to know the ERA-Net SES Knowledge Community Team

At 13:00 CEST we will bring you back to the main room for the next agenda points



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Knowledge Community Meeting

ERA-Net SES Working Group Meetings from 13:00 – max. 14:00 – You will be allocated based on your registration

1 WG Consumer and Citizen Involvement Moderators: Dorothea Brockhoff & Laura Börner

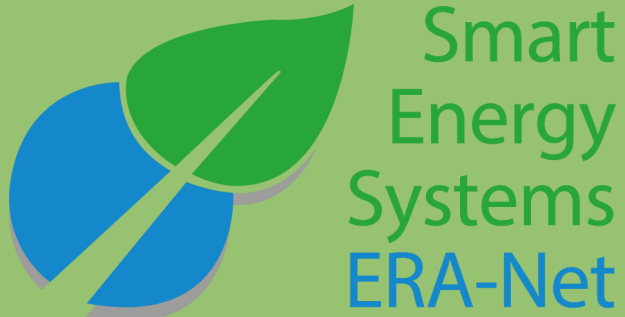
2 WG Regional Matters Moderators: Julio Alterach & Franziska Wirth

3 WG Regulatory and Market Development Moderators: Iva Gianinoni

4 WG Storage and Cross Energy Carrier Synergies Moderators: Minna Näsman

5 WG System Architecture & Implementation Modelling and Interoperability & Standardisation Moderators: Ludwig Karg

Funding Partners



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ADEME



FOND ZA ZAŠTITU OKOLIŠA I ENERGETSKU UČINKOVITOST



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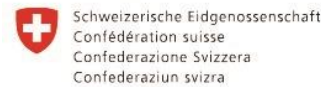


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