



Smart
Energy
Systems
ERA-Net

Digital Platform Providers linking to JPP ERA-Net SES

Webinar June 2020, Online

Ludwig Karg, CEO B.A.U.M., Head of Knowledge Community Management



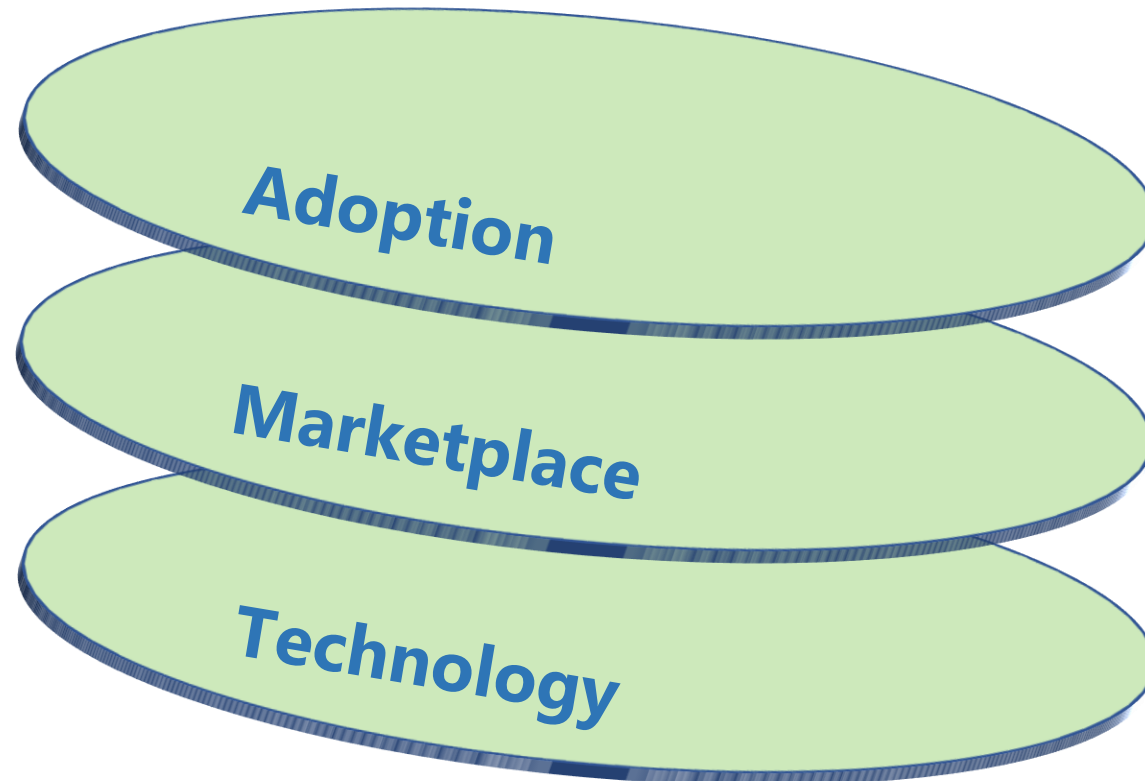
- Please mute your microphone when not speaking.
- Feel encouraged to switch on your video if you want to speak and while speaking – otherwise please switch off.
- The meeting will be **recorded**; the presentations will be made available to participants via expera.
- **Data declaration:** Please be aware that your name will be displayed in the list of participants as well as in the chat window.
- Please ask questions via the chat.





Introduction to the Joint Programming Platform ERA-Net Smart Energy Systems

Three Layer Research Model



Three Dimensions of Integration

cross sectoral integration:

- transport
- industry and trade
- municipal infrastructure
- agriculture
- ...

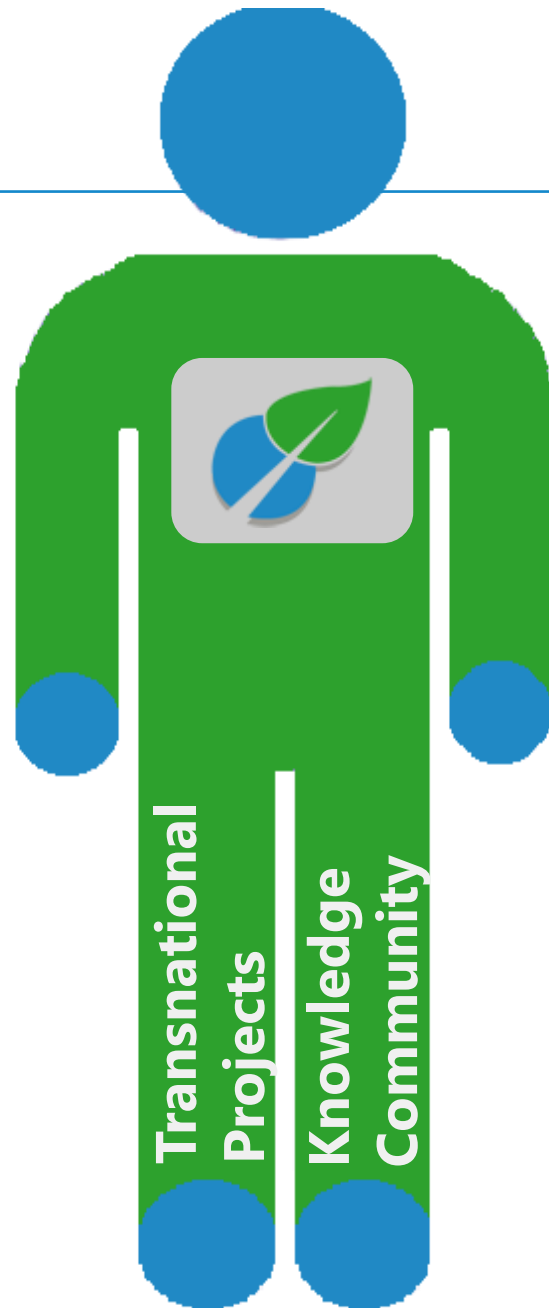
local and regional development:

- governance
- planning
- innovation system
- SMEs and startups
- transnational knowledge base
- ...

smart energy system:

- renewable energy
- distributed generation
- cross carrier synergies
- automation ...

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

Communicating Platform, Partners and Projects

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



ERA-NET SMART ENERGY SYSTEMS INITIATIVE
TITLE OF THE DELIVERABLE
 VERSION X.X

xx Month 20xx

INTERNAL REFERENCE

Deliverable No.:	D.X.X (20xx)
Deliverable Name:	
Lead Participant:	
Work Package No.:	X
Task No. & Name:	X.XX
Document (File):	ERA-Net SES template, Deliverable.docx (UPDATE FILED!)
Issue (New) Date:	2018-05-09 (UPDATE FILED!)
Dissemination Level:	
Confidentiality (L1):	→ YELLOW (limited distribution)



Communication and Visibility Guide for ERA-Net Smart Energy Systems Funded Projects under focus initiatives Smart Grids Plus and Integrated Regional Energy Systems

April 2018

www.era-net-smartenergysystems.eu

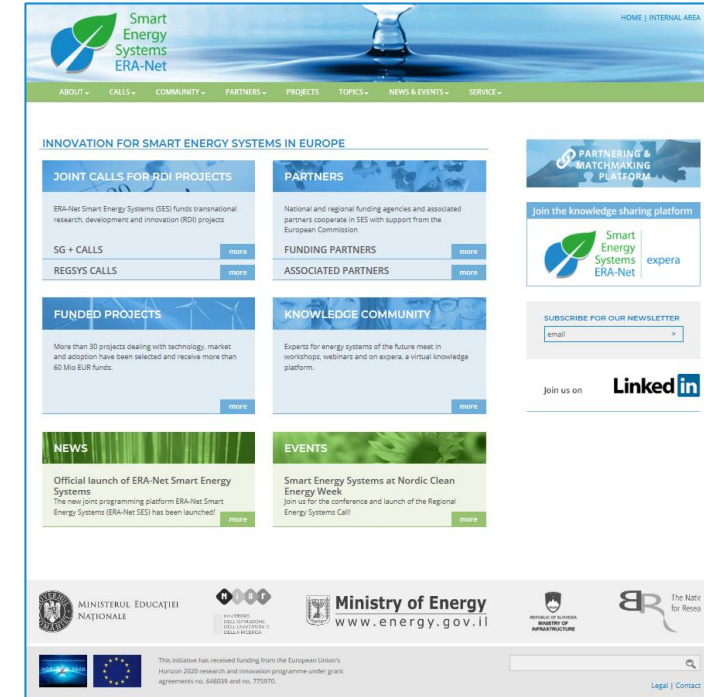
communications@era-net-smartenergysystems.eu

Introduction

With this document, our objective is to help ERA-Net SES projects achieve most effective communication and visibility with their project. With visibility, we are referring to those elements that can be used to present that your project or activity is part of the overarching ERA-Net SES initiative, for example the logo or the colour scheme of the initiative. By communication, we mean any effort that projects will take to reach their target audience, sending them a specific message through diverse media channels, or by giving a reference to the fact that their project is funded by our initiative. Adding the ERA-Net SES visibility to the dissemination and communication action of funded projects should bring additional value to the promotion of the project as well as provide a much larger platform for its dissemination.

General Regulations

Being part of the ERA-Net SES initiative, ERA-Net SES projects are expected to acknowledge and promote the vision of ERA-Net SES.



Smart Energy Systems ERA-Net

ABOUT | CALLS | COMMUNITY | PARTNERS | PROJECTS | TOPICS | NEWS & EVENTS | SERVICE

INNOVATION FOR SMART ENERGY SYSTEMS IN EUROPE

JOINT CALLS FOR RDI PROJECTS
 ERA-Net Smart Energy Systems (SES) funds transnational research, development and innovation (RDI) projects
 SG + CALLS [more](#)
 REGSYS CALLS [more](#)

PARTNERS
 National and regional funding agencies and associated partners cooperate in SES with support from the European Commission
 FUNDING PARTNERS [more](#)
 ASSOCIATED PARTNERS [more](#)

FUNDED PROJECTS
 More than 30 projects dealing with technology, market and adoption have been selected and receive more than 60 Mio EUR funds. [more](#)

KNOWLEDGE COMMUNITY
 Experts for energy systems of the future meet in workshops, webinars and on expera, a virtual knowledge platform. [more](#)

NEWS
 Official launch of ERA-Net Smart Energy Systems
 The new joint programming platform ERA-Net Smart Energy Systems (ERA-Net SES) has been launched! [more](#)

EVENTS
 Smart Energy Systems at Nordic Clean Energy Week
 Join us for the conference and launch of the Regional Energy System Call! [more](#)

Partnership & Matchmaking Platform
 Join the knowledge sharing platform

Smart Energy Systems expera

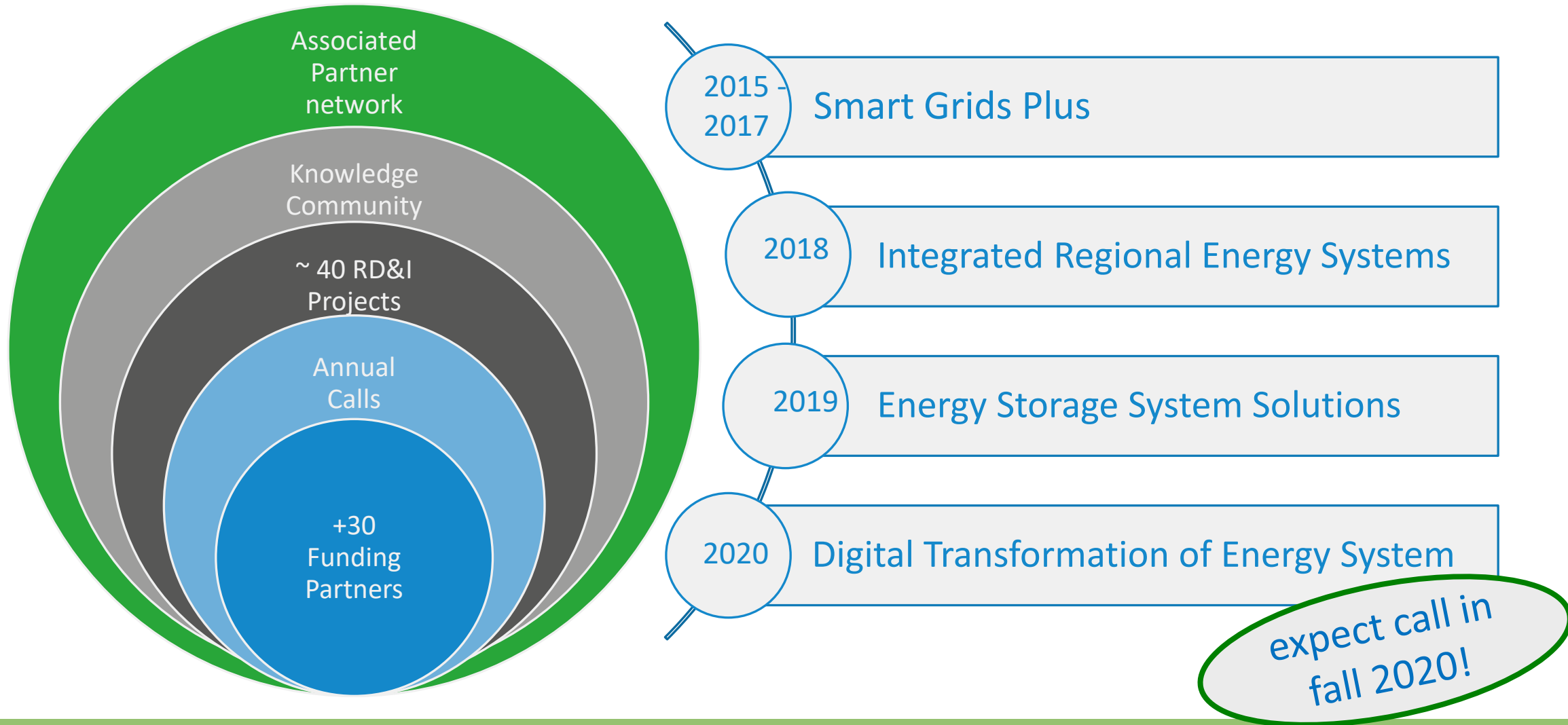
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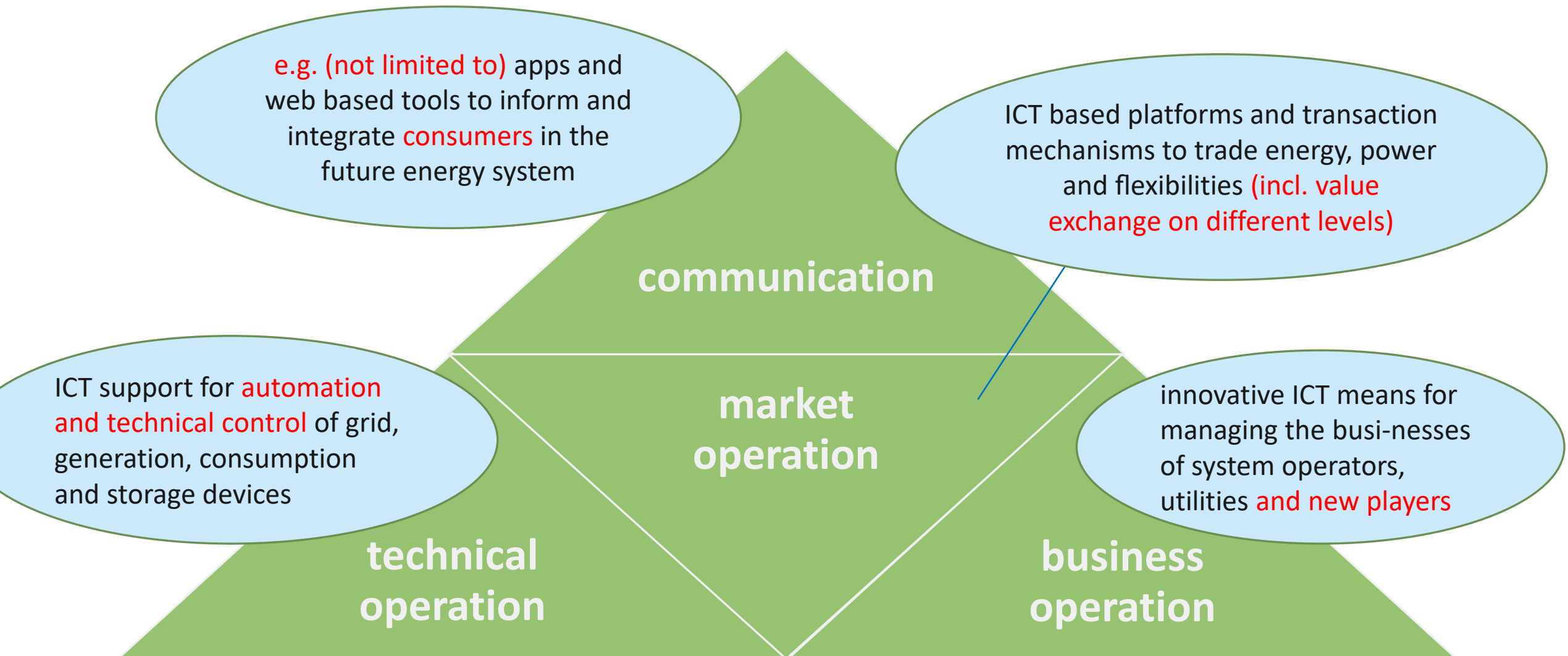
MINISTERUL EDUCAȚIEI NAȚIONALE | MINISTERUL ENERGIEI | REPUBLICA ROMÂNIA

This initiative has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements no. 646039 and no. 775976.

What we do: Enhancing Innovation on Smart Energy Systems



MICall20: Unleashing the potential of digital transformation for the energy transition (much more than Smart Grids!)



Clean Energy Transition Partnership (CETP)

Stakeholder Groups Dialogues



(Use pictures as links to living documents, fora, etc.)

Discussion
Forum

- Presentation Kick-off Meeting
- Video Tutorial: Concept Stakeholder Group Dialogues (~20min)
- Video Tutorial: Practicalities, incl. Roles of Contributors (~10min)
- Video Tutorial: Editors Methodological Approach (~8min)
- WebMeeting Schedule and Login Data
- Initial Questionair to IWGs and ERA-Nets
- List of Editors, Co-Authors and WebMeeting Presenters

Clusters - Overview

Renewable Technologies 1	Renewable Technologies 2	Heating & Cooling Solutions	System Integration	Storage Systems and Fuels	Crosscutting
<ul style="list-style-type: none"> • IWG PV • IWG CSP • IWG Wind • IWG Bioener • ERA-Net Solar • ERA-Net Bioener • ERA-Net DemWind 	<ul style="list-style-type: none"> • IWG Geothermal • IWG CCUS • IWG Ocean Ener • ERA-Net Geother • ERA-Net Ocean • ERA-Net ACT 	<ul style="list-style-type: none"> • IWG 5 Eff Buildings • IWG Geothermal • IWG Bioener & Fuel • IWG 4 Systems 	<ul style="list-style-type: none"> • IWG 4 Systems • IWG 5 Eff Buildings • IWG 3.2 ConsServ • IWG Wind • IWG PV • IWG Bioener & Fuel • ERA-Net SES • ERA-Net PV • ERA-Net DemWind 	<ul style="list-style-type: none"> • IWG 5 Eff Buildings • IWG Bioener & Fuel • IWG 4 Systems • ERA-Net Bioener • ERA-Net SES 	<ul style="list-style-type: none"> ➢ Circularity ➢ Digitalisation ➢ Social Aspects • All IWGs and ERA-Nets

Concept for the Dialogues



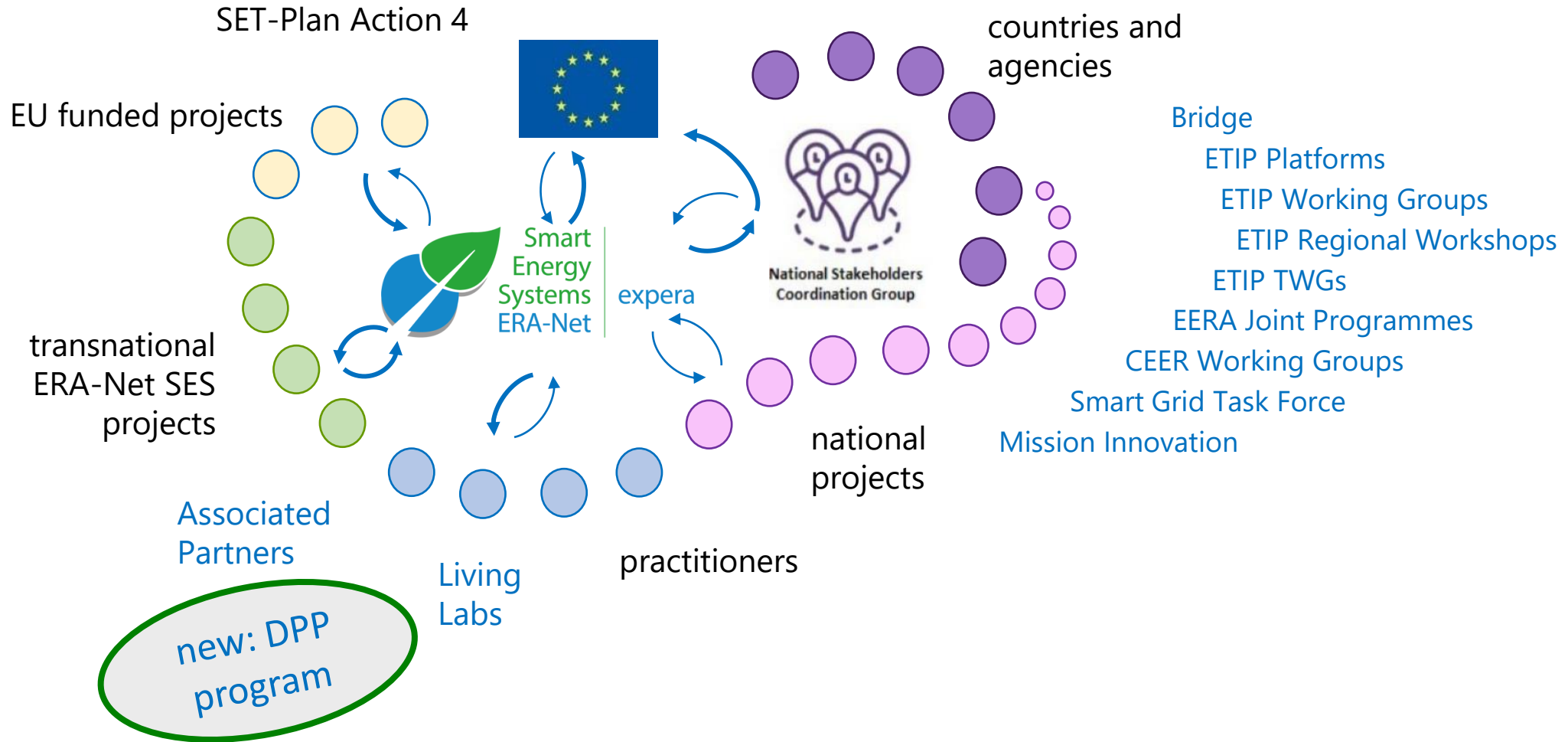
Roles- How I can contribute



expera Guide



JPP ERA-Net SES Linking Worlds





Involving ICT and Digital Platform Partners

Motivation and Objectives

- Project consortia often do not have access to existing and established digital platforms
- Connecting their solutions to these platforms could help to create much more impact also beyond the lifetime of the funded project
- ERA-Net SES wants to support project consortia by
 - making it easier to find and make connection to such digital platforms
 - working with platform providers to create special offerings to project consortia
- Project consortia will always be free to develop their own platform or connect to platforms that have not been scouted by this process.

Layered Architecture

Products for end-user market:

energy cost analysis, inhouse power billing, peer-to-peer energy trading, regional payback system, ...

Supporting software unit for specific business cases:

Visualising, prognosis, interpreter for smartmeter data, ...

(Energy system) specific software components:

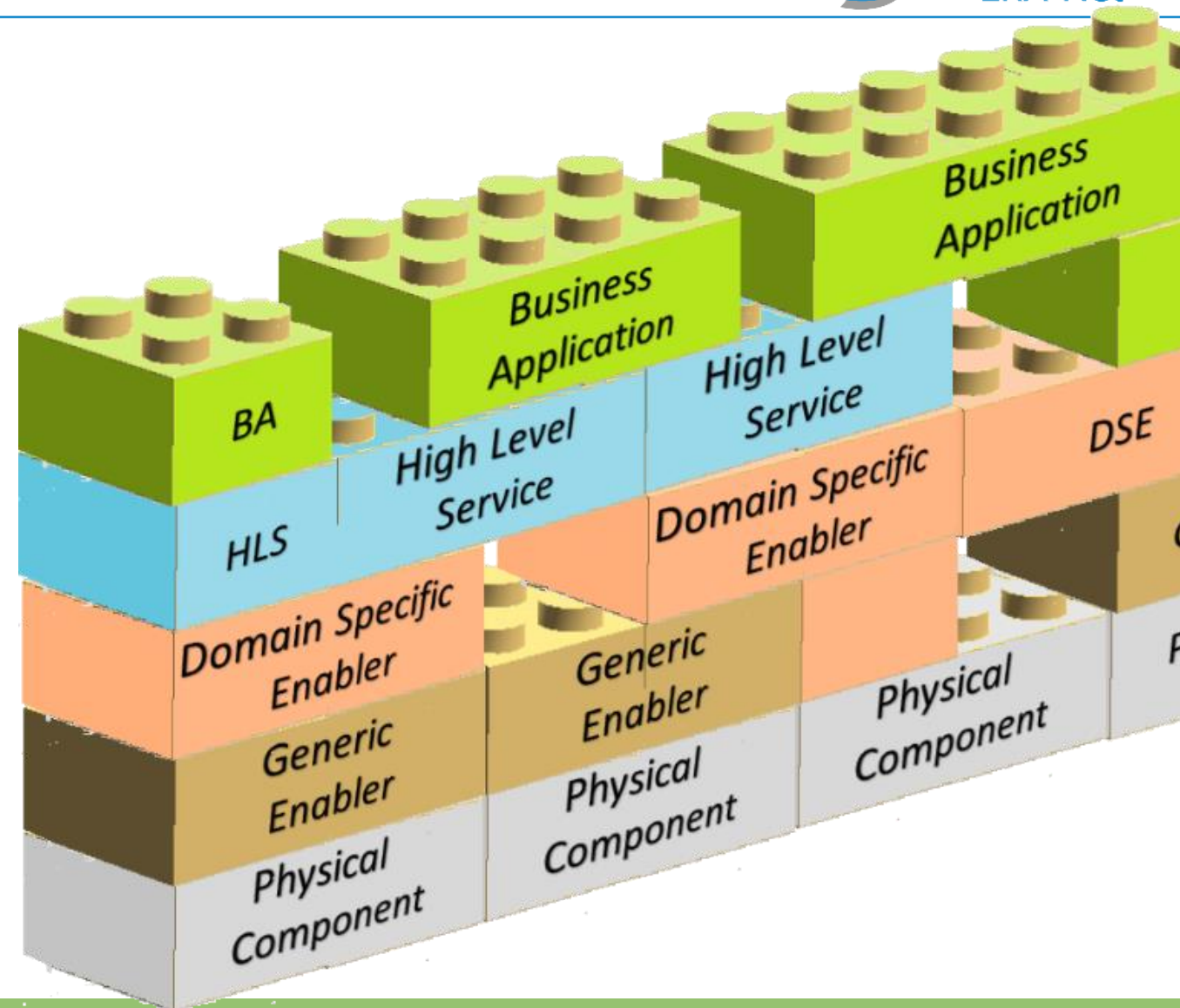
SCADA-System, hybrid-cloud for substations, energy generation monitor, smartmeter data manager, ...

Usage area independent software components:

Internet of Things, big data analysis, authentication, security, ...

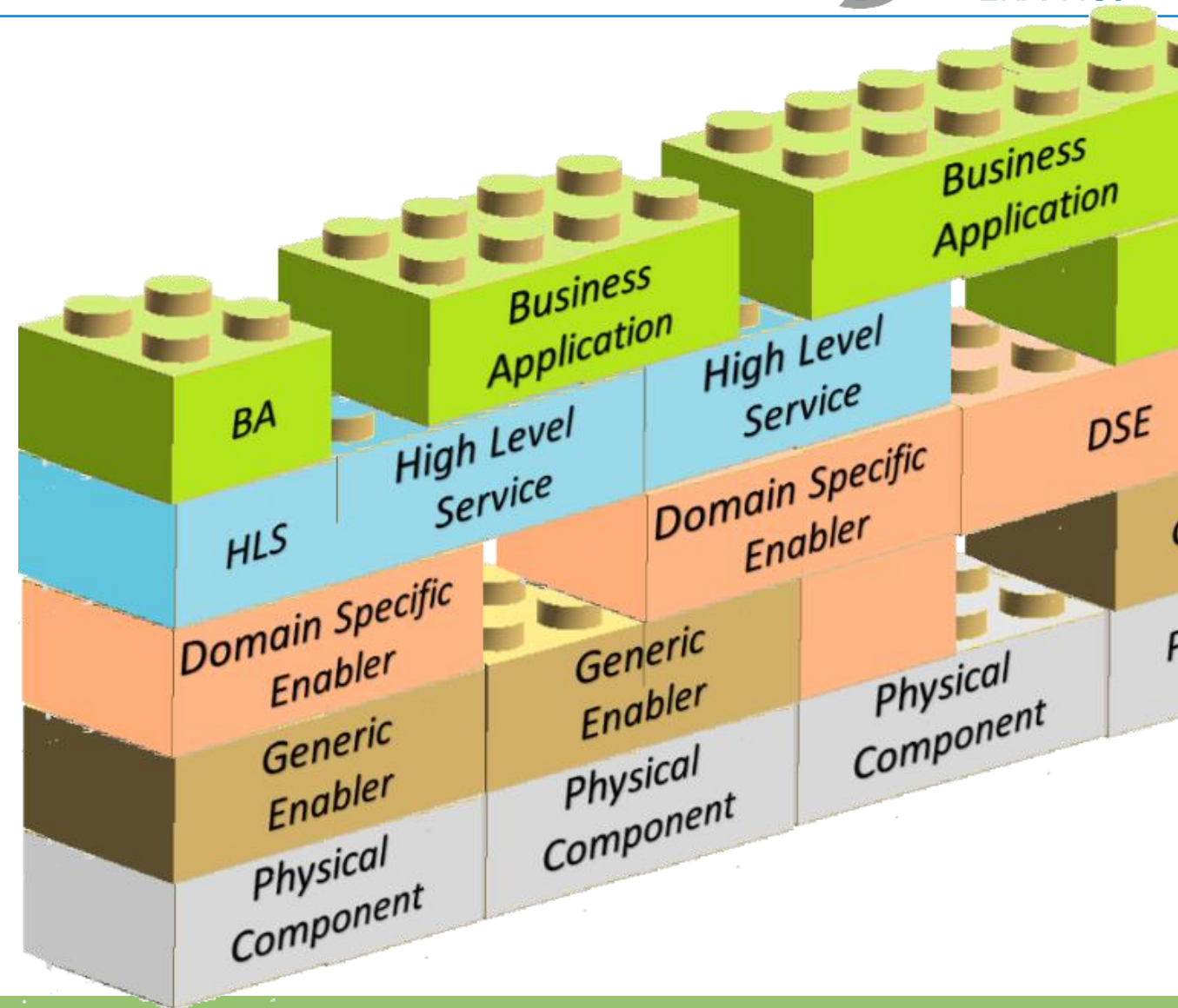
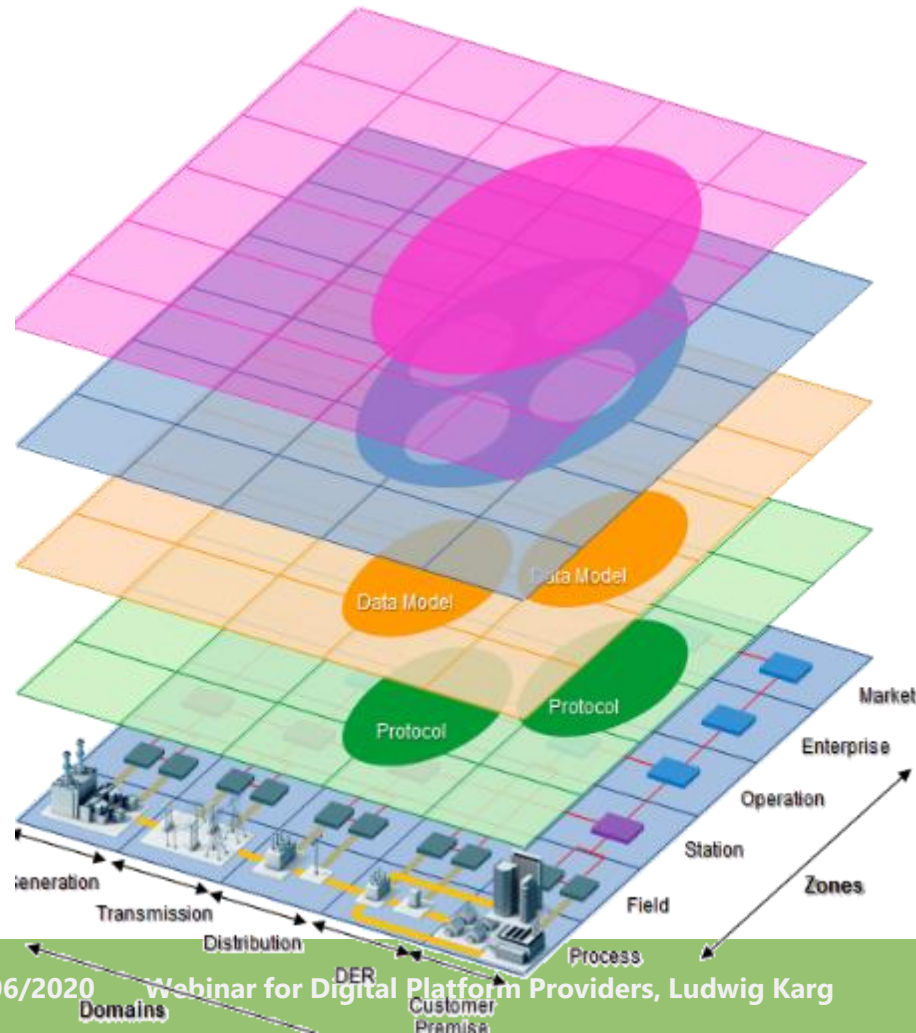
Physical entities incl. their control hardware:

smartmeter, converter, charging station, battery management, ...



Layered Architecture

Smart Grid Architecture Model (SGAM)



Model for Involving ICT-/ Digital Platform Providers (DPP)

- Advanced ICT providers liaise with applying or running projects
- ICT Partners benefit from
 - **early access** to the initiative and excellent consortia
 - **high visibility** by formal descriptions of the value propositions on the DPP platform
 - matchmaking **opportunities** etc.
- Projects benefit from a variety of cooperation models
 - source code, free for JPP SES or with remuneration fee
 - software as a service, free or with remuneration fee
 - executable packages with interfaces
 - lab or field installation to be used by JPP SES project, with support, free of charge or against service charge

Basic set of qualification criteria

A qualified DPP ...


- offers a solution on the market or with very high technology and market readiness level (TRL ≥ 8 , MRL ≥ 8)
- provides well defined interfaces (API) to access the building blocks of the platform
- offers support for the deployment of the solution in multiple JPP SES projects
- offers access to existing implementation eco-systems, e.g. Living Lab, medium or large scale trial site
- is open to cooperate with the JPP SES coordination and call management

DPP on the matchmaking platform

ERA-Net Smart Energy Systems (SES) - Matchmaking for 2018 call for projects
23 May 2018 - 2 Nov 2018

Home Participate Marketplace Agenda Login Registration closed

PROFILE



Ulrich Ahle
CEO at [FIWARE Foundation e. V.](#)
Berlin, Germany

Other / ERA-Net SES Associated Partner link to detailed profile

FIWARE Foundation e. V.

non for profit organization managing the FIWARE ecosystem.
Actually participating in 14 funded projects.

INFORMATION & COMMUNICATION (ICT)

- Sensing and measuring
- Aggregator platforms
- Energy market platforms
- Peer-to-peer energy trading
- User awareness and decision support
- Enterprise services
- Security and resilience
- Horizontal platforms
- Software engineering

RESEARCH AND DEVELOPMENT

- Smart Grids
- Smart Markets and Regulation
- Smart Homes
- Smart Consumers

PROJECT - EXPECTED QUALIFICATIONS?

- Communication Technology
- Communication / Dissemination / Transfer

PROJECT - TYPE OF PARTNER(S) SOUGHT?

- Technology supplier / developer
- Innovation organisation

Registered on August 01, 2018

personal link to contact expert

short description of DPP

DPP profile on website



short description of DPP

short description of offering

link to expert database on expera


OUR DIGITAL PLATFORM PROVIDERS

By involving a **broad range of associated partners** from innovative start-ups and SMEs to incubators, big companies, ICT providers, deployment programmes and financiers to local governments, ERA-Net SES builds bridges in the entire innovation chain and **provides projects with valuable resources**. Such resources may include **expertise, tools, financial resources, or trial sites**. Thus, **research proposals which tackle real needs** can be defined and RDD consortia can be confident that their **results will be adopted**. Accordingly, the quality and achieved impact of the funded RDD projects is multiplied. Entities from business domains beyond the energy sector are invited, e.g. **municipal infrastructure, transport, trade and agriculture**.

With the associated partners programme, ERA-Net Smart Energy Systems aims to foster the development of technology and business solutions that truly support energy efficiency and energy transition on a local and regional level while complementing and supporting the functionality of the overall energy system. Find more information about the concept and how to get involved [here](#).

Current Digital Platform Providers

We are pleased to announce the first of our selected associated partners. Click on a **logo for more details**.

Partner	Name and Mission	Category	Area
	FIWARE Foundation e.V. To develop an open sustainable ecosystem around public, royalty-free and implementation-driven software platform standards that will ease the creation of Smart Applications in multiple sectors.	business development	worldwide
	About FIWARE Foundation e.V. tbd		
	Support provided to ERA-Net SES Projects tbd		
	Contact Ulrich Ahle, CEO of FIWARE Foundation e.V. The confidential contact details of ERA-Net SES Associated Partners are available exclusively in our protected ex... ERA-Net SES knowledge community platform expera, funded ERA-Net SES projects can seek support. Please register to get access. For co-creating proposals for the 2018 RegSys joint call, please contact the associated partner via exp		
	CONTACT VIA EXPERA	CONTACT VIA B2MATCH	



link to detailed description of offerings

information card

link to matchmaking marketplace



Information Card for the DPP

FIWARE e.V.

DESCRIPTION

ex quam elementum justo, at faucibus libero ligula in est. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Donec semper ante id dui tincidunt, vitae suscipit sapien cursus. Proin et dapibus nulla, ac auctor nunc.

PLATFORM- / ICT-MODULES

modules	functions	interfaces	type of provision

HOW TO COOPRATE WITH US

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla laoreet non mi at lacinia. Pellentesque commodo tincidunt mi. Vestibulum at magna sit amet erat mattis fermentum at at metus. Vivamus nisi ex, ullamcorper at velit ac, faucibus convallis ante.

PRCING MODEL

Nullam tortor nisi, viverra id cursus nec, vulputate feugiat sapien. Cras in erat id arcu semper elementum nec nec magna. Fusce molestie, nulla ut dapibus maximus,

LOCATION

Åland, Finland

CONTACT

(e-mail, phone)

Flexens Ltd
 Aleks Haventinen +358 50 46 17 716
 Tuukka Vainio, +358 40 83 20 756

CONTACT VIA B2MATCH

CONTACT VIA EXPERA

WEBSITE ADDRESS

www.flexens.com





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Call for Expression of Interest for Digital Platform Provider Program

What we ask you to tell us ...

- company information
- why you would like to be a member of the Digital Platform Provider program
- contact to be displayed on matchmaking platform
- what you have to offer ...
 - technical
 - non-technical

Technical offerings of DPPs

	solutions	interfaces	type of provision
business applications			
high level services			
domain specific enablers			
generic enablers			
physical components			
supporting software			

type of provision		preference (1=yes ... 5=no way)
1a	source code, free for JPP SES	
1b	source code with remuneration fee	
2a	software as a service, free for JPP SES	
2b	software as a service with remuneration fee	
3a	executable package with interfaces, free for use in JPP SES project	
3b	executable package with interfaces, against remuneration fee	
4a	lab or field installation to be used by JPP SES project, with support and free of charge	
4b	lab or field installation to be used by JPP SES project, support against service charge	
other		
other		

Types of provision

- Some ways of providing and remunerating DPP offerings are predefined.
- What else could you imagine?

	comment
source code, free for JPP SES	
source code with remuneration fee	
software as a service, free for JPP SES	
software as a service with remuneration fee	
executable package with interfaces, free for use in JPP SES project	
executable package with interfaces, against remuneration fee	
lab or field installation to be used by JPP SES project, with support and free of charge	
lab or field installation to be used by JPP SES project, support against service charge	

Non technical offerings

- sharing experiences
- opening an existing (living)lab
- inviting for information days
- contributing to JPP SES Knowledge Community
- ???



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questions and answers

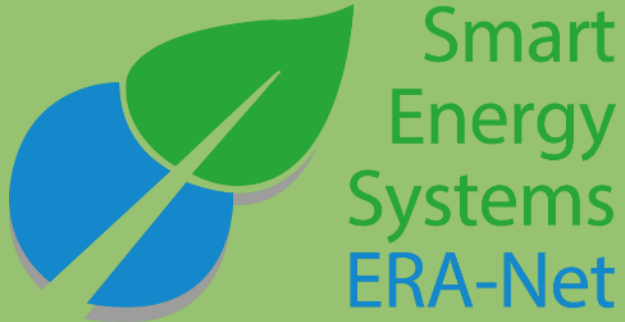


Join here!

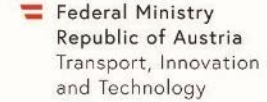
https://www.eranet-smartenergysystems.eu/Calls/EoI_Digital_Platform_Providers

For further questions, please contact us via:
office@eranet-smartenergysystems.eu

Funding Partners



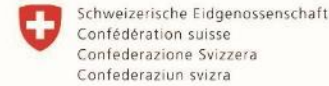
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ADEME



Agence de l'Environnement et de la Maîtrise de l'Énergie



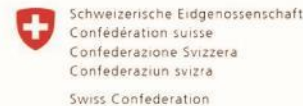
Swiss Federal Office of Energy SFOE



FOND ZA ZAŠTITU OKOLIŠA I ENERGETSKU UČINKOVITOST



NATIONAL RESEARCH, DEVELOPMENT AND INNOVATION OFFICE HUNGARY



Innosuisse – Swiss Innovation Agency



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