



Smart Grids Plus

ERA-Net

**FROM LOCAL TRIALS TOWARDS A
EUROPEAN KNOWLEDGE COMMUNITY**

Welcome!

The webinar will start shortly!



Smart Grids Plus

ERA-Net

**FROM LOCAL TRIALS TOWARDS A
EUROPEAN KNOWLEDGE COMMUNITY**

Fredrik Lundström
ERA-Net SG+ Vice-Chair
Programme Manager Swedish Energy Agency

AGENDA

- About the ERA-Net SG+ initiative
- 3rd Joint Call for Transnational RDD Projects
- Networking & Transnational Cooperation Support
- ERA-Net SG+ Knowledge Community
- Questions & Answers

About the Initiative

ERA-Net Smart Grids Plus

From Local Trials towards a European Knowledge Community



23 funding partners from
21 European countries
and regions involved



Austria, Croatia, Denmark,
Finland, Flanders, France,
Germany, Latvia, Lombardy,
Norway, Poland, Portugal,
Romania, Scotland, Slovenia,
Spain, Sweden, Switzerland, The
Netherlands, Turkey, Wallonia



Goal

Organize the learning to enable
the right technologies, market
designs and customer adoption
to achieve the Smart Grids
vision & goals of Europe

www.eranet-smartgridsplus.eu

ERA-Net Smart Grids Plus will be supported by
funding from the European Union's Horizon2020
research and innovation programme
under grant agreement No 64603.

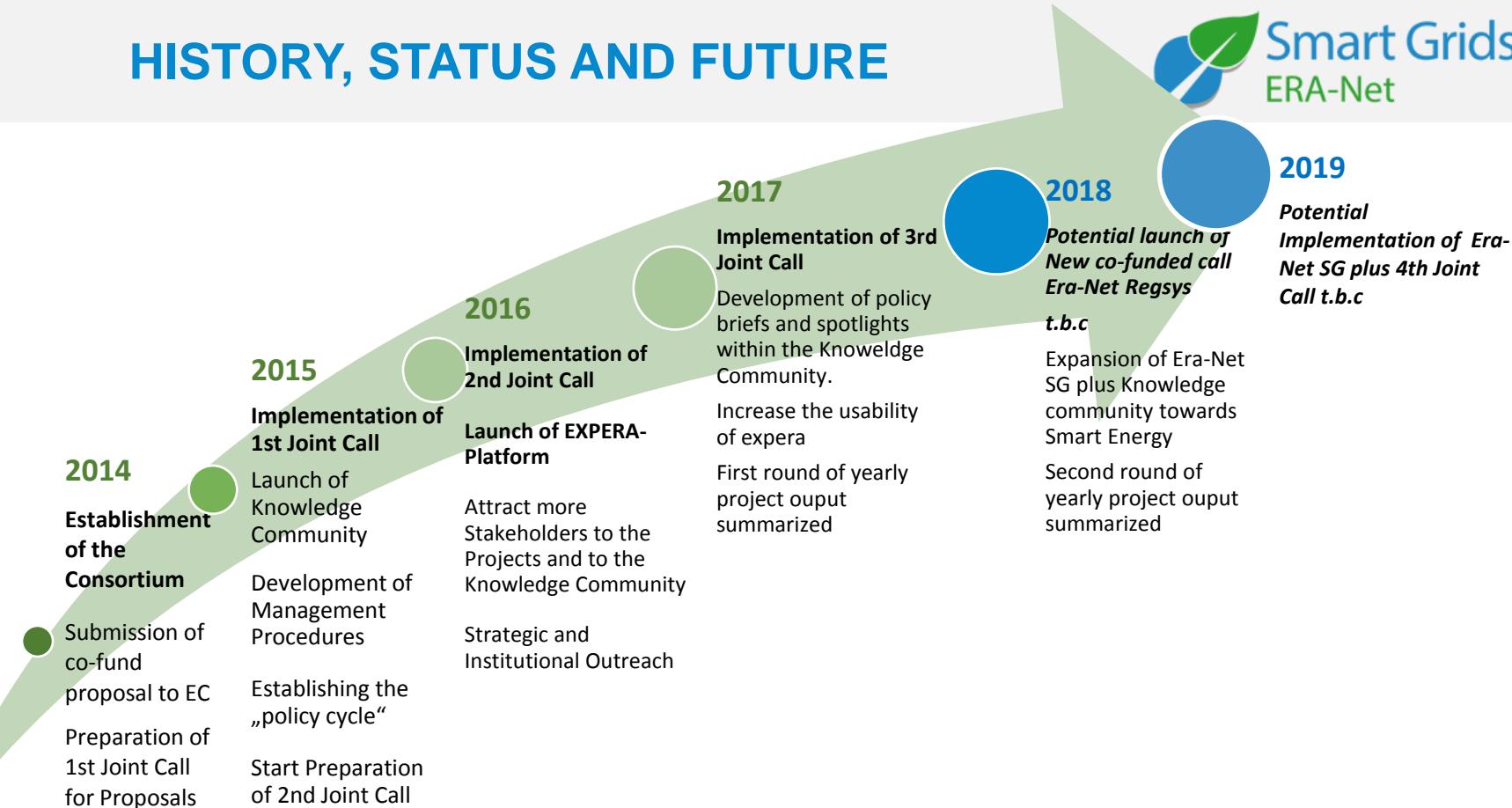


 **Smart Grids Plus**
ERA-Net

HISTORY, STATUS AND FUTURE



Smart Grids Plus
ERA-Net



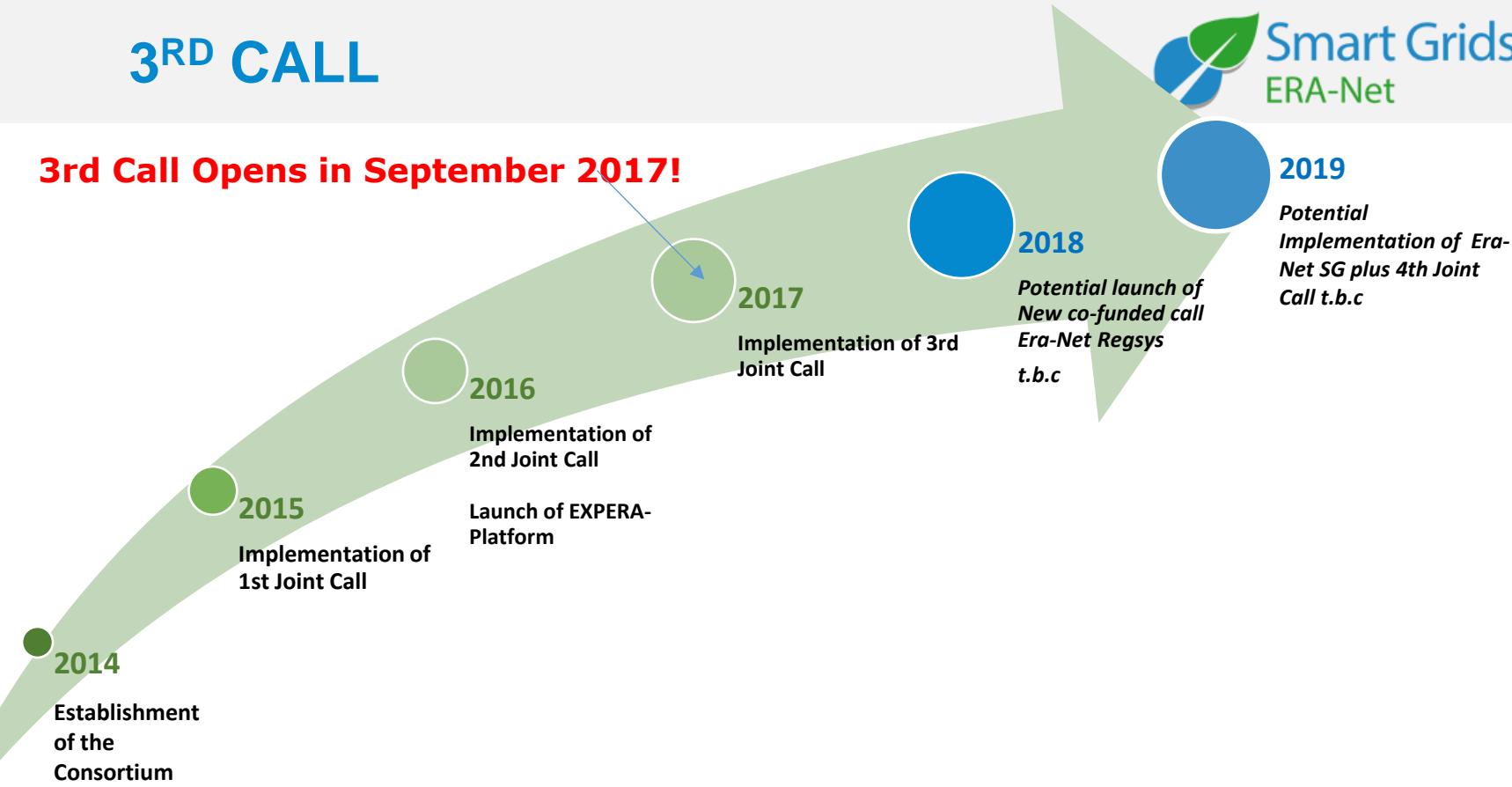
3rd Joint Call for Transnational RDD Projects on Smart Grids

3RD CALL



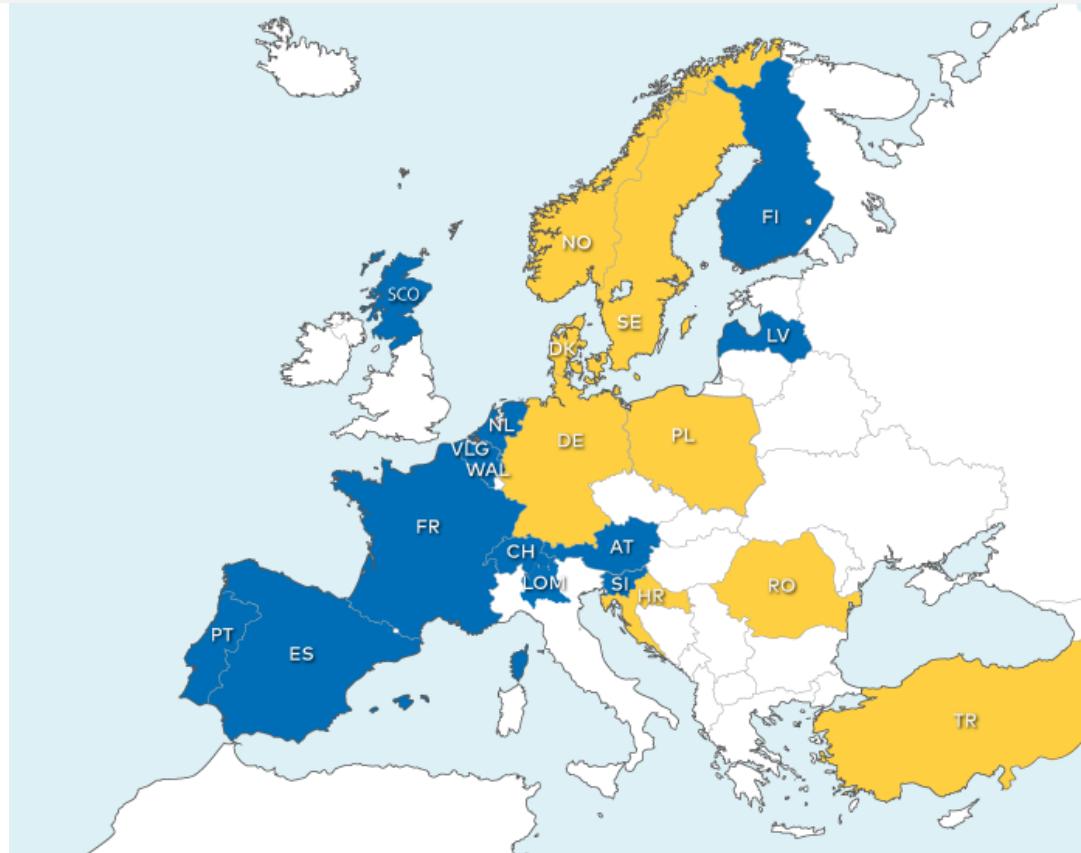
Smart Grids Plus
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3rd Call Opens in September 2017!



ERA-NET SMART GRIDS PLUS INITIATIVE

3RD CALL



- ✓ 21 Countries/regions
- ✓ 8 Countries/regions in the 3rd Call, budget 8.5 Mio €
- ✓ Additionally developing collaboration with Israel. Israeli partners can apply public national funds for participation in the third call

3RD CALL PARTICIPANTS



Country/region	Organisation name	Acronym	Contact person
Croatia	Environmental Protection and Energy Efficiency Fund	FZOEU	Maja Rajcic
Denmark	Energy Development and Demonstration Programme	EUDP	Wickie B. Lassen
Germany	Forschungszentrum Jülich GmbH	PtJ	Paul Kunzemann
Norway	Research Council of Norway	RCN	Erland Eggen
Poland	National Centre for Research and Development	NCBR	Jolanta Drozdz
Romania	Executive Agency for Higher Education, Research, Development and Innovation Funding	UEFISCDI	Marius Mitroi
Sweden	Swedish Energy Agency	SWEA	Fredrik Lundström
Turkey	The Scientific and Technological Research Council of Turkey	TÜBİTAK	Önder Zor

- Promote piloting and demonstration in the field of smart grids.
- Focus on validation, scale-up and replication.
- Integrating the three research layers of *Stakeholder/Adoption, Marketplace and Technology*.
- Pushing solutions meeting Technology Readiness Levels 5-6 to TRLs 6-7.

Call Topic

- ERA-Net Smart Grids Plus will promote piloting and demonstration in the field of smart grids. Projects shall develop technologies, systems and solutions that make it possible for energy systems to supply, host and utilize up to 100% renewable energy.
- Focus will be given to validation, scale-up and replication. The three research layers of *Stakeholder/Adoption*, *Marketplace* and *Technology* should be an integrated part of this focus.

The main challenges are:

- Enabling an increased flexibility of the power system to cope with the growing share of intermittent, variable and decentralised renewable generation and managing the complex interactions between large energy stakeholders and local/regional energy stakeholders.
- Increase network capacity to support increased generation and transmission resulting from renewables and in support of the internal energy market.
- Provide information, services, market architectures and privacy guarantees to support open markets for energy products and services, whilst facilitating the active participation of customers.

Examples on desirable project characteristics:

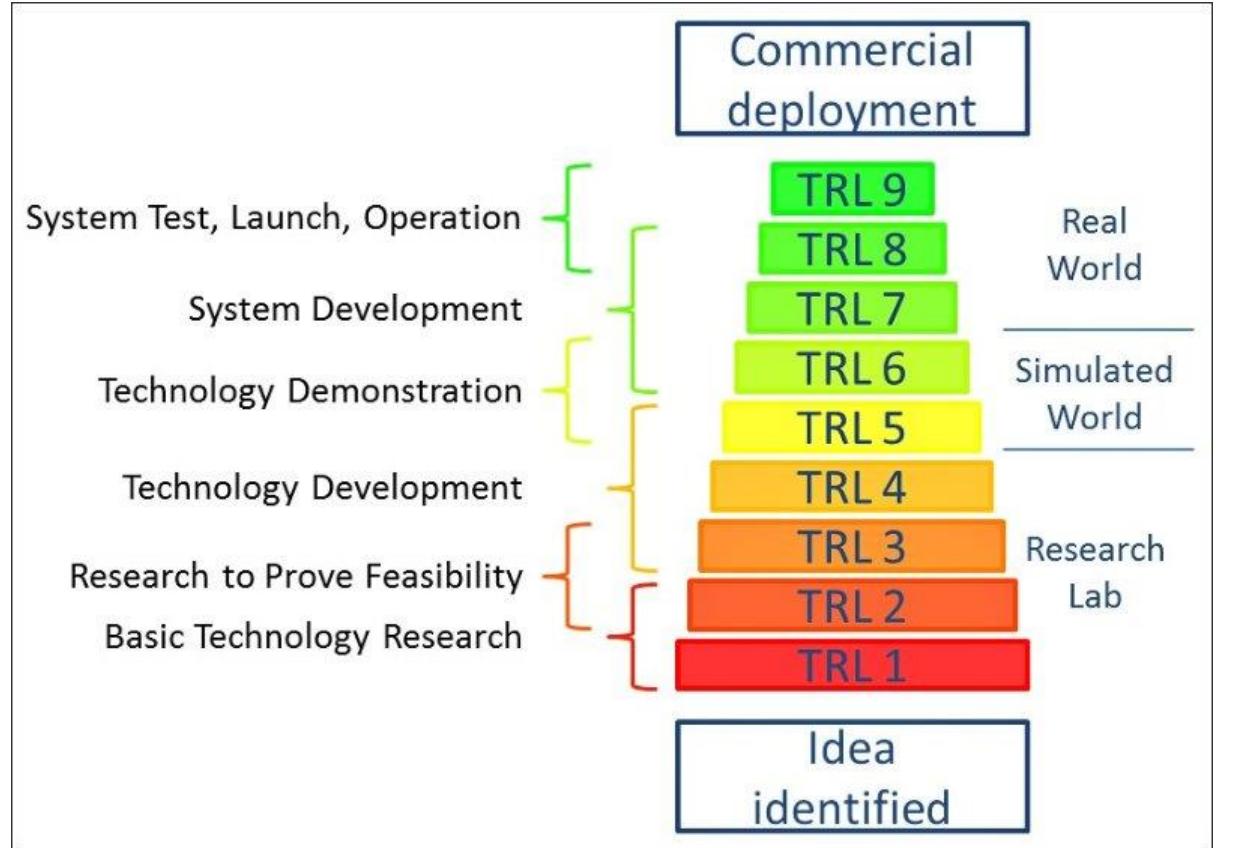
- Meta-analysis, cross-cutting issues of existing demonstration projects
- Comparative validation of technologies and concepts of existing demonstrations
- New demonstration project
- Further development of technologies and concepts

THREE LAYER RESEARCH MODEL



- Prefer projects that cover more than one of these three research layers.
- Projects covering stakeholder/adoption and/or marketplace layers as well, will be given priority over single layer projects.
- Projects should therefore clearly state goals for the stakeholder/adoption and marketplace layers in relation to technological issues.

TRL DEFINITIONS



3RD CALL TIMELINE



- Proposal phase: 14 September – 14 November 2017, 14:00 CET
 - Compulsory advisory period 14 September – 14 November 2017
- Project partner adjustment phase: 27 November – 1 February 2018, 14:00 CET
- Evaluation phase: 8 February – 9 April 2018
- Selection phase: 10 – 24 April 2018

All transnational applications are managed and submitted through the central ERA-Net Smart Grids Plus Electronic Submission System accessible through www.eranet-smartgridsplus.eu. National/regional application requirements are handled on a national/regional basis.

- Receive feedback from funding agencies.
 - Scope, eligibility, priorities and desirability.
- Opportunity to revise the project proposal, partners and obtain necessary information on specific funding agency requirements.
- Information on whether any project partner(s) must also submit a full *national/regional* proposal.

- **Project must be transnational by nature**, involving at least two independent entities and from at least two different countries of the ERA-Net Smart Grids Plus partners.
- The project must submit a full project proposal, adhering to both the ERA-Net Smart Grids Plus initiative's and the involved national/regional funding agencies' requirements.

Project partners must contact their national/regional contact points during the compulsory advisory period.

Networking & Transnational Cooperation Support

Partner Search & Matchmaking Platform



ERA-Net Smart Grids Plus Partner Search & Matchmaking Platform

- Present your cooperation profile
- Search & find cooperation partners
- Link to representatives of the SG community
- Participate in Matchmaking Events

A screenshot of the website for the ERA-Net Smart Grids Plus Partner Search & Matchmaking Platform. The page has a blue header with the ERA-Net Smart Grids Plus logo and navigation links for Home, Participants, Matchmaking Events, About Matchmaking, FAQ, and Contact. A green button on the right says "Register for this event open until 31 Dec 2016". Below the header is a large banner with a water droplet image and the text "WELCOME TO ERA-NET SMART GRIDS PLUS PARTNER SEARCH & MATCHMAKING! Establishing cooperation with members of ERA-Net Smart Grids Plus Community". The main content area features three cards: "Presenting your cooperation profile" (a person speaking at a podium), "Searching & Finding cooperation partners" (a group of people in a meeting room), and "Meeting at Matchmaking Events" (people networking). At the bottom, there's a section titled "PARTICIPANTS" with a table showing the number of profiles for various countries: Austria (69), Belgium (1), Bosnia-Herzegovina (1), Bulgaria (2), Croatia (4), Czech Republic (1), Denmark (4), Finland (8), France (1), Germany (1), Greece (1), Hungary (1), Italy (1), Lithuania (1), Malta (1), Netherlands (1), Norway (1), Poland (1), Portugal (1), Romania (1), Slovenia (1), Spain (1), Sweden (1), Switzerland (1), Turkey (1), and UK (1).

Upcoming Matchmaking Event

EUW 2017, October 3-5, 2017, Amsterdam

360 partner profiles
28 countries

Join us at <http://www.b2match.eu/smartgridsplus> !

Networking Events



ERA-Net SG+ Networking Event at European Utility Week 2017

- Matchmaking Event (6 meetings in 90 mins)
- 3rd Joint Call Launch & Info Desk
- Public Presentation & Community Event

3rd Joint Call Webinars

- September 14, 2017, 3pm-4pm CET
- October 12, 2017, 3pm-4pm CET

Save-the-date!
3 - 5 October 2017
RAI Amsterdam, The Netherlands



Further details at www.eranet-smartgridsplus.eu/news-events

ERA-Net SG+ Funded Projects



Project Profiles of 1st & 2nd Joint Call

1st Call - 21 projects from 19 regions/countries

[Callia](#) , [CERA-SG](#) , [CESEPS](#) , [CloudGrid](#) , [DCSMART](#) ,
[DeCAS](#) , [EPR](#) , [GReSBAS](#) , [Gridfriends](#) , [Match 2](#) , [MIDAS](#) ,
[Power Alliance](#) , [ReFlex](#) , [REStable](#) , [RIGRID](#) , [SCPEVN](#) ,
[SMARES](#) , [SmartGuide](#) , [SmartIAN](#) , [uGrip](#) , [VOLATILE](#)

A screenshot of the ERA-Net SG+ website. The header includes the ERA-Net logo and the text "Smart Grids Plus ERA-Net". The main content area shows a navigation menu with links like "HOME", "ABOUT US", "JOINT CALLS" (which is expanded to show "3rd Joint Call 2017", "2nd Joint Call 2016", and "1st Joint Call 2015"), "KNOWLEDGE COMMUNITY", "NEWS & EVENTS", "DOWNLOADS", and "CONTACT". A search bar at the bottom left says "Search I Amprint". On the right, there are two sections: "INTERNAL AREA" and "NATIONAL CONTACTS". The central content area is titled "1st Joint Call for Transnational RDD Projects on Smart Grids" and states "The call has closed in June 2015!". It describes the call's purpose to promote piloting and demonstration in the field of smart grids. A list of approved projects is provided, along with a link to the outcome document. A sidebar on the right lists "Approved Projects of the 1st Joint Call" and "21 projects from 19 regions/countries were approved in the call". A footer at the bottom right lists the names of the 21 projects, each with their acronym and location.

2nd Call – 9 projects from 11 regions/countries

[SmartLoad](#) , [FISMEP](#) , [M2M-GRID](#) , [LarGo!](#) , [NEMoGrid](#) ,
[MatchIT](#) , [E-REGIO](#) , [RestoreGrid4RES](#) , [EMBS](#)

profiles available at
<http://www.erenet-smartgridsplus.eu/joint-calls/>

Increasing Transnational Outreach



ERA-Net SG+ Website

www.eranet-smartgridsplus.eu

Partner Search & Matchmaking Platform

www.b2match.eu/smartgridsplus

Knowledge Sharing Platform expera

www.smartgridsplus.eu

Linked-In

<https://www.linkedin.com/in/eranet-smartgridsplus/>

Newsletter Registration

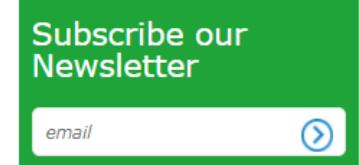
www.eranet-smartgridsplus.eu

News & Events

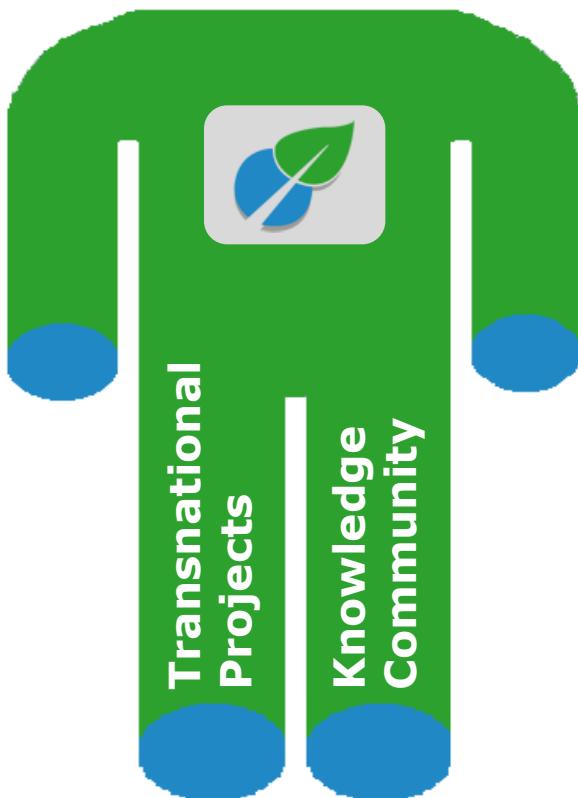
www.eranet-smartgridsplus.eu/news-events/

Webinars

www.eranet-smartgridsplus.eu/news-events/



About the ERA-Net SG+ Knowledge Community



WALKING ON TWO LEGS

- Transnational Projects
 - selected in ERA-Net SG+ Calls
 - national funding with EU top up funds
 - supported by Support Team
- Knowledge Community
 - from and for the ERA-Net SG+ projects
 - national and international experts
 - unique knowledge base for our topic

SUPPORT
TEAM



ERA-NET SG+
PROJECTS

face-to-face and virtual meetings
working groups
profiling and feedback



Smart Grids Plus
ERA-Net
Knowledge Community
expera

Building a Knowledge Community



Members

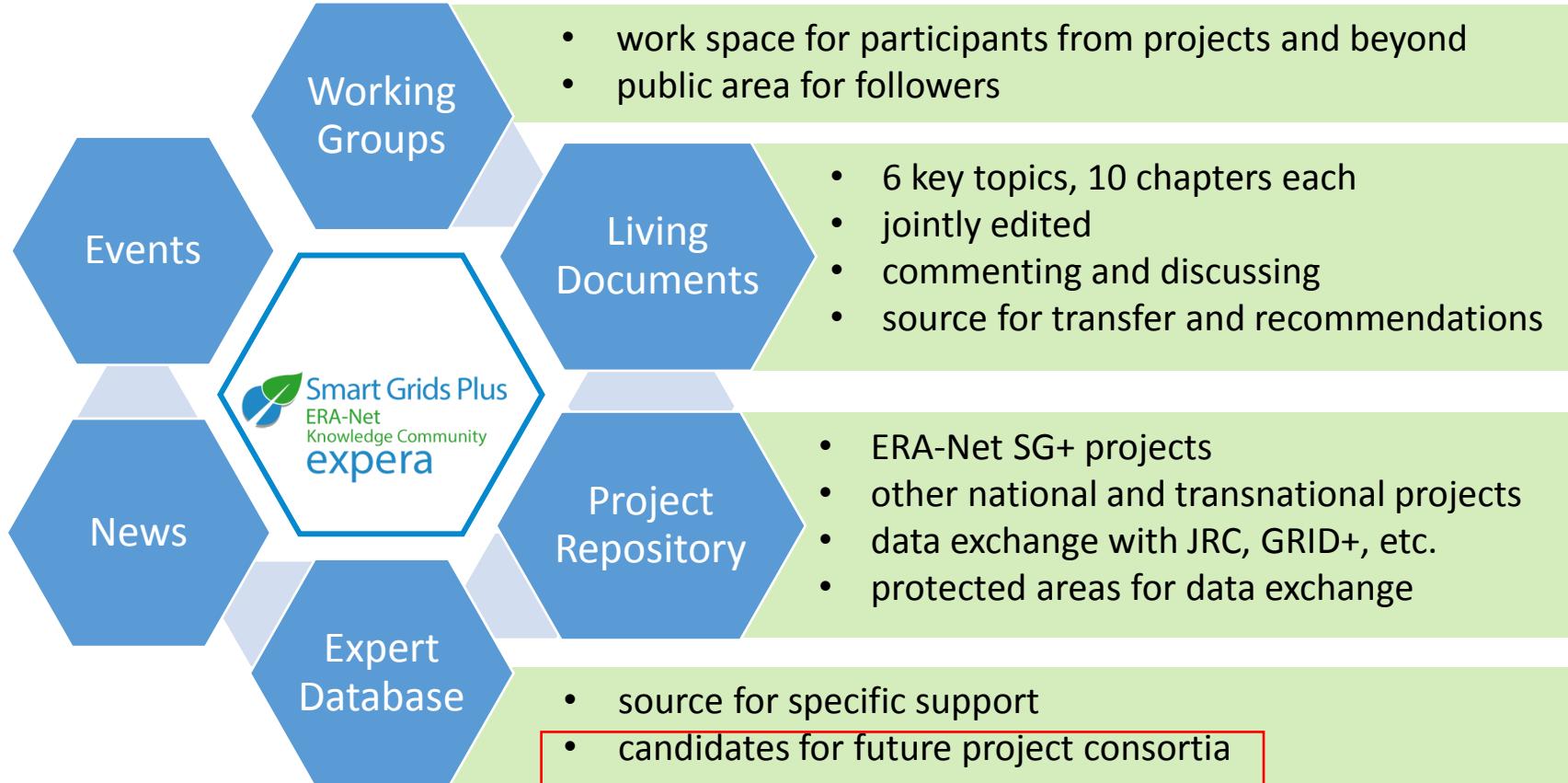
- ERA-Net SG+ projects
- (Trans-)National key projects
- International RDD projects
- Smart Grids practitioners
- Agenda setters and policy makers



expera



One Stop Shopping: The Knowledge Platform



LIVING DOCUMENTS GLOSSARY SPOTLIGHTS WORKING GROUPS PROJECTS EXPERTS EVENTS NEWS EXCHANGE COMMUNICATION EXCHANGE

Living Documents

System Architecture and Modelling

Working Groups

Interoperability and Standardisation

Involvement

Development

Cross Energy Carrier Synergies

Storage and Implementation Modelling

Search...

"expera experts" have indicated to actively participate in the Era-Net Smart Grids Plus Knowledge Community. They will contribute to the community by sharing their knowledge for the Living Documents and by using their scientific expertise and networking capacity they can help ERA-Net SG+ projects and other actors in the field of Smart Grids to improve their performance. Please note, that only registered experts can visit the platform in the definitive view (opens for full expert members only).

Aguiar

INESCTEC
Junior researcher

Group meeting in Spain

2nd ERA-Net SG+ Joint Call & expera successfully launched in Stockholm

Go, expera, go!

The Working Group on Storage and Cross Energy Carrier Synergies has started its work

1 - 5

ERA-Net Smart Grids Plus Joint Call 2017 – Webinar

Go Expera!

The Knowledge Community Platform

Expera, the cooperation platform of the ERA-NET Smart Grids Plus, allows for intensive communication between and cooperation of registered members of the Knowledge Community. With its Living Documents, Spotlights and access to Working Groups it is a unique opportunity for experts to exchange their knowhow, opinions and expectations.

Terms of Use

When using the expera platform you have agreed to the [conditions of use](#).

Expert search

storage

Preference for results in German ▾

Cubillo

Specialist in Energy **storage**, Microgrids and Power Electronics for renewables integration and application for ...
expera.smartgridsplus.eu/Lists/Experts/DispForm.aspx?ID=233

Tihon

in combustion, smart grids and energy **storage** -Co-manager of calls for proposal in e-Smart Grids ...
expera.smartgridsplus.eu/Lists/Experts/DispForm.aspx?ID=401

Olsson

LINKS AND RESOURCES



- **Website** www.eranet-smartgridsplus.eu (Newsletter !)
- **Call Information**
<http://www.eranet-smartgridsplus.eu/research-calls/>
- **National Contact Points**
<http://www.eranet-smartgridsplus.eu/contact/>
- “**Smart Grids Demo Snapshots**”, collection containing 34 key-demonstration projects from 18 participating countries and regions (www.eranet-smartgridsplus.eu)
- **Matchmaking Platform** where potential project partners can present themselves and organise b2b meetings (<http://www.b2match.eu/smartgridsplus>)
- **Knowledge Community**, meeting point **expera** - the Knowledge Sharing Tool (www.smartgridsplus.eu)

FUNDING PARTNERS



REPUBLIC OF SLOVENIA
MINISTRY OF
INFRASTRUCTURE



MINISTERUL EDUCAȚIEI
NAȚIONALE

FCT

Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INSSINO SUPERIOR



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra



Regione
Lombardia



MINISTÈRE
DE L'ÉCOLOGIE,
DU DÉVELOPPEMENT
DURABLE
ET DE L'ÉNERGIE



The National Centre
for Research and Development



Institute for the Promotion of Innovation
by Science and Technology in Flanders



Austrian Ministry
for Transport,
Innovation and Technology



Wallonie



SPW
Service public
de Wallonie



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



Scottish Enterprise



FOND ZA ZAŠITU OKOLIŠA I
ENERGETSKU UČINKOVITOST

fiscdi



The Research Council
of Norway



Federal Ministry
for Economic Affairs
and Energy



ENERGINET/DK

Tekes

NWO
Netherlands Organisation for Scientific Research

**Swedish
Energy Agency**



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