



Smart
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ERA-Net Smart Energy Systems

Welcome!

The webinar will start soon.



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Webinar on RegSys call

June 14, 2018, 14-15h CEST

Agenda

- About ERA-Net Smart Energy Systems
- 2018 Joint Call on Integrated Regional Energy Systems
- Knowledge Community & Associated Partners
- Networking & Transnational Cooperation Support



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About ERA-Net Smart Energy Systems

ERA-Net Smart Energy Systems - Background

A transnational Joint Programming Platform to Initiate Co-Creation and Promote Energy System Innovation



Need for a fundamental transformation of our energy systems towards a sustainable, low carbon and climate friendly economy.

The EU's ambition is to become a leader in renewable energy. Strong, innovative and competitive European companies should provide the technology and services needed to deliver energy efficiency and low carbon energy solutions inside and outside Europe.

ERA-Net SES - The Mission

A transnational Joint Programming Platform to Initiate Co-Creation and Promote Energy System Innovation

- ERA-Net SES is a Research, Development and Innovation (RDI) initiative.
- It initiates and awards transnational Research, Development and Demonstration (RDD) projects.
- In addition, it shares best practise to build a European Knowledge Community (KC).



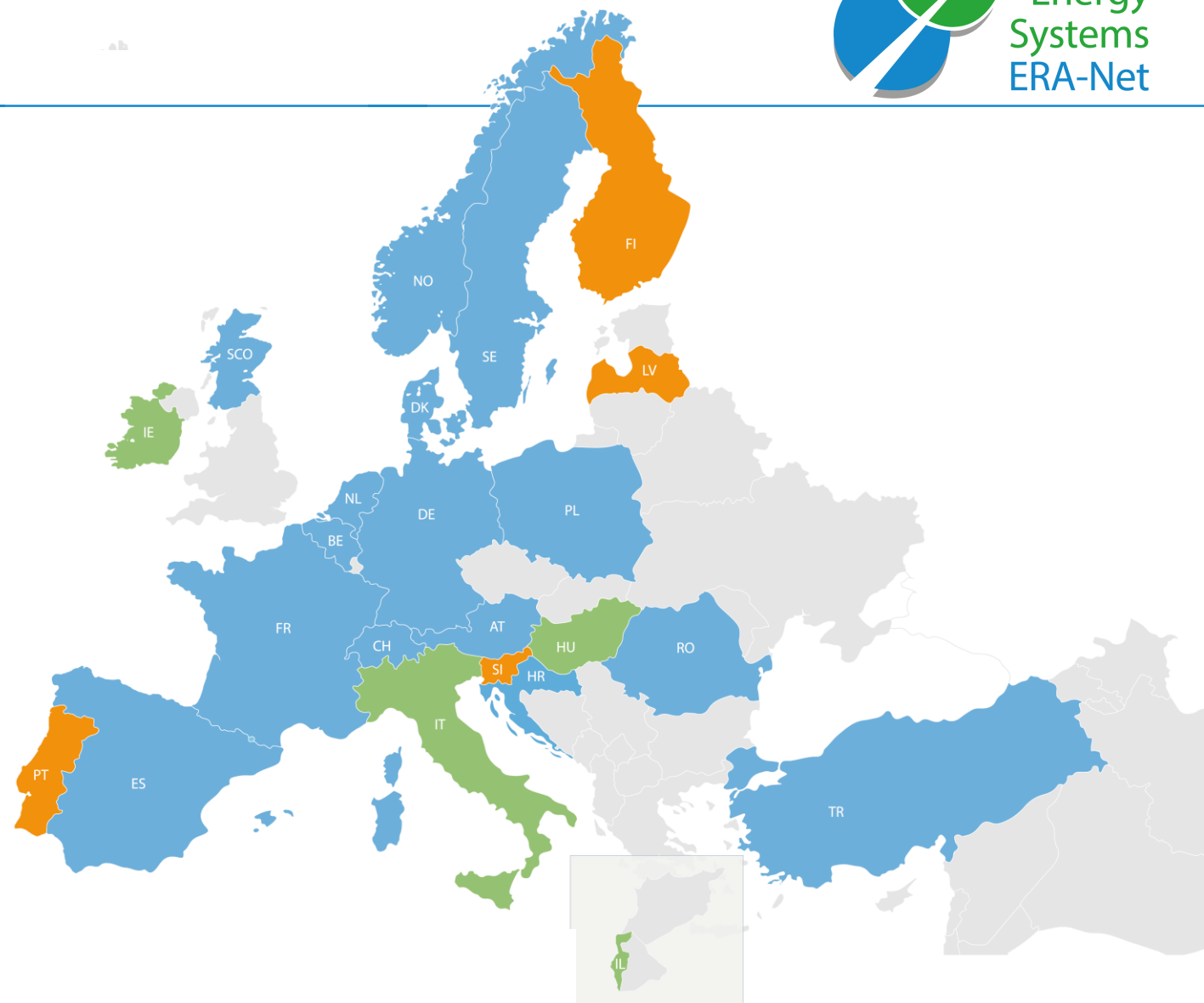
ERA-Net SES Funding Partners

30 funding partners from 23 European countries and regions involved

Austria
Belgium (Flanders/Wallonia)
Croatia
Denmark
France
Finland
Germany
Hungary
Ireland
Israel
Italy (Lombardy)

Latvia
Norway
Netherlands
Poland
Portugal
Romania
Scotland
Slovenia
Spain
Sweden
Switzerland
Turkey

- both focus initiatives
- focus initiative „Integrated Regional Energy Systems“ (RegSys) only
- focus initiative „Smart Grids Plus“ (SG+) only



ERA-Net SES – The Goal & Status Quo

A transnational Joint Programming Platform to Initiate Co-Creation and Promote Energy System Innovation



- Development of technologies, systems and solutions enabling regional and local energy systems to supply, host and utilize up to 100% renewable energy by 2030, with sustainable use of local and global resources.
- Previous calls:
 - ✓ 33 projects – partners from industry, network and infrastructure providers, research and academia, regions and cities (funds > 60 MEUR).
 - ✓ Success rate : ~40%
 - ✓ Application size: ~30 pages



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2018 Joint Call on Integrated Regional Energy Systems

ERA-Net SES 2018 joint call on integrated regional energy systems (RegSys)

- **Deadlines: Project outline - September 11, 2018**
 - Full project proposal - November 2, 2018
 - Funding decision - March 8, 2019
- Call budget: ~33 MEUR (including EC top-up funding)
- Transnational collaboration: 19 countries/regions involved
- **Submission through the application portal available through the ERA-Net SES webpage**
- **NB!**
 - Check national/regional funding agencies requirements for additional national/regional applications. These should be submitted directly to the relevant funding agency through their national/regional submission system.



(for details check: www.eranet-smartenergysystems.eu/Calls/Regsys_Calls/RegSYS_Joint_Call_2018)

ERA-Net SES – RegSys call focus

Fundamental transformation in regional and local energy systems and networks:

- increasing uptake of new and improved technologies for decentralised energy systems
- the boosting digitalisation and associated business models
- major changes of the current societal trends



Supply solutions to identified specific critical needs within a local/regional energy system, where a **“need-owner”** is identified and involved in the solution development.

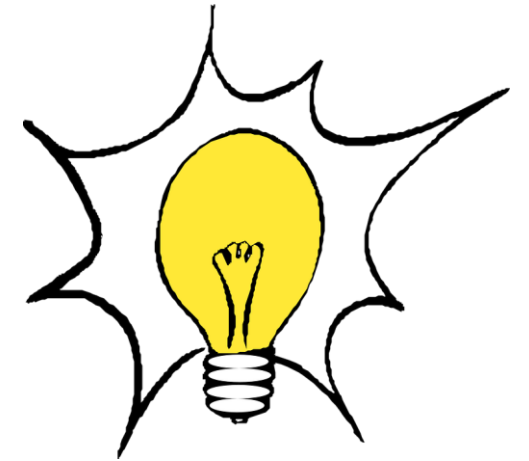
„need-owner“: an entity (e.g. public agency, local/regional authority, energy grid manager/owner, company, building owner etc.) that seek a solution to a specified need (problem) within its area of operation.



Deadline project outline: 11 September 2018

Extent → max 2-3 A4 pages, including:

- scope of the project
- general time-line and goals
- initial project partners
- amount of funding applied for from the individual regional/national funding agencies (including additional/in-kind funding)



Projects start before 15 December 2019, project end by 15 December 2022
(i.e. max duration 36 months, min duration 24 months).

ERA-Net SES – Advisory period

Compulsory advisory period: 18 September – 2 November 2018

- 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

Contact details for your national/regional contact points:

www.eranet-smartenergysystems.eu/Calls/Regsys_Calls/RegSYS_Joint_Call_2018

Full proposal deadline: 2 November 2018

RegSys call proposals are asked to elaborate on:

1. Identification of needs and “need-owner(s)”:

- process and methodologies for identifying critical needs
- collaboration with the most significant “need-owner(s)” and other stakeholders

2. Description of R&I activities and co-creation of solutions (main part):

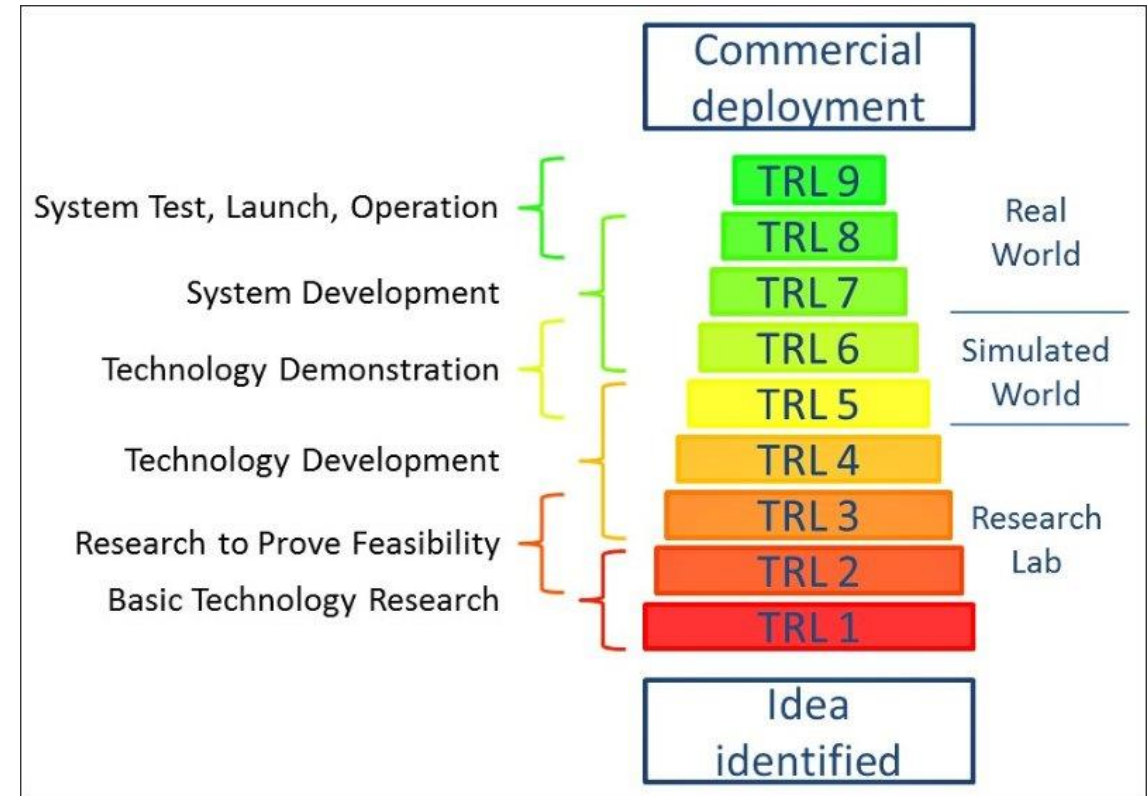
- activities in the fields of research, development and demonstration and/or real environment testing
- chosen processes and methods for collaboration between project partners, “need-owner(s)” and other stakeholders
- how “need-owner(s)” and relevant stakeholders should participate to ensure that the viewpoints, knowledge and expertise of the “need-owner(s)” and relevant stakeholders are involved in all stages. (*solutions’ co-creation process*)



ERA-Net SES – Project Set-up

3. Scaling up, replication and dissemination strategy:

- potential for subsequent scaling up, replication and achieving market-readiness (TRL 8-9) for the solutions developed in the course of the project and reaching up to TRL 7.



ERA-Net SES – Project Requirements

Criteria for project proposals (excerpt Ch. 4.1) – the projects should :

- be **transnational** by nature, involving at least two independent participants from two different countries (whereof at least 1 EU member state), participating in the joint call.
- implement the **Three-Layer Research Model** encompassing Stakeholder/Adoption, Goods and services and Technology (see Annex A)
- address the **Three Dimensions of Integration** – Smart Energy Systems, Local and Regional Development and Cross Sectoral Integration (see Annex B)



ERA-Net SES – Project Requirements

- address **critical needs** within a specific regional/local energy system and involve regional/local “need-owner(s)” to ensure market viable solutions. Aspects of **replicability and transferability of solutions** should be considered.
- address diversity and inclusivity perspectives related to gender, ethnicity, age, socio-economic status, physical abilities, political beliefs, geography etc. throughout the project.

National/regional eligibility criteria must be respected in addition to the ERA-Net SES RegSys project requirements (see Annex C). It is mandatory that they contact their respective national/regional contact points.



ERA-Net SES – Three Layer Model



Stakeholders / Adoption – *overcoming: why do or don't we do it?*

(innovation and transition processes with stakeholders, consumer acceptance, education, policy, retail, community and society, social research, etc.)

Goods and Services – *structuring: how do we organize it?*

(business models, regulatory framework, market design with new goods and services, economic research etc.)

Technology – *enabling: which technology do we need?*

(incl.: how can we make technologies from other sector available for the energy system? -telecommunications, machine learning, cross energy carrier solutions, grid automation, technological research etc.)

ERA-Net SES – Three Layer Model

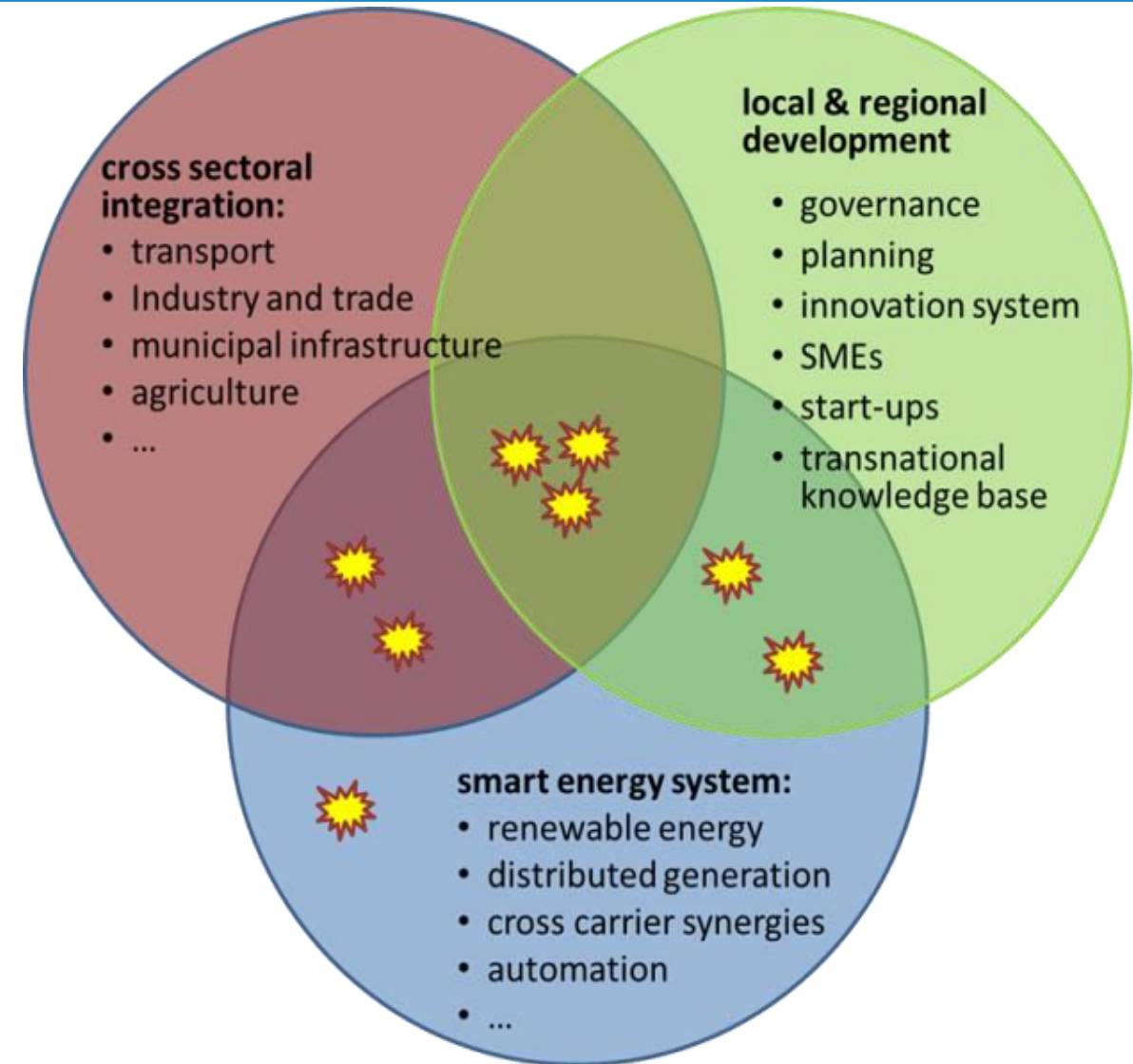


- Prefer projects that cover more than one of these three research layers (ideally all three).
- Projects covering stakeholder/adoption and/or goods and services layers as well, will be given priority over single layer projects.
- Projects should therefore clearly state goals for the stakeholder/adoption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

ERA-Net SES – Three Dimensions of Integration

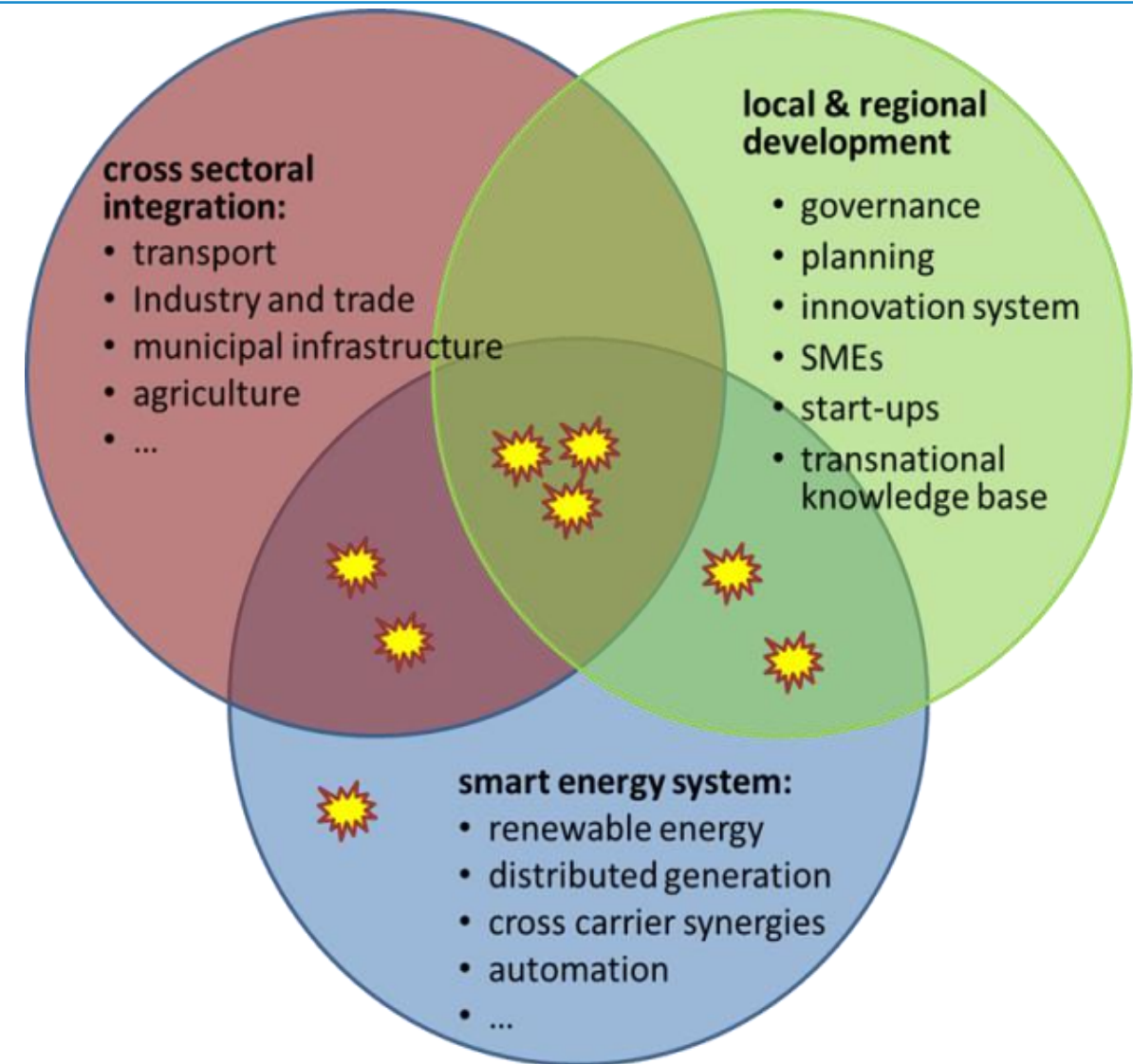
“Seeing the whole picture”

- **Smart energy systems** → integration of infrastructure and services with energy systems
- **Local & regional development** → connecting the RDD projects with local and regional need-owners and service suppliers and the joint development of new solutions
- **Cross sectoral integration** → connecting smart energy activities with local and regional economic sectors in a fully integrated energy system



ERA-Net SES – Three Dimensions of Integration

- Projects have to cover at least the “Smart Energy System Integration” dimension
- ERA-Net SES will prefer projects that cover more than one of these three dimensions of integration (ideally all three)
- Projects covering additional dimensions of integration will be given priority



ERA-Net SES – Full Proposal Evaluation

The evaluation and eligibility process comprises three steps:

1. National/regional eligibility check

The projects will be considered on a national/regional basis, governed by national/regional funding agency regulations.

2. Transnational evaluation of the project proposals

In the evaluation phase a panel of at least three independent experts will evaluate each project proposal. The independent expert panel will evaluate the proposals based on three main criteria:

- a) Excellence
- b) Impact
- c) Quality and efficiency of the implementation

More detailed explanation of each criterion in Annex F.

No preference is given to projects with partners from numerous different countries/regions.

ERA-Net SES – Full Proposal Evaluation

3. ERA-Net SES selection and outcome

The final step of the evaluation process is a joint meeting of the ERA-Net SES consortium to select projects for funding according to the ranked list from the independent experts. The outcome will be reported to the applicants by the 8 March 2019.





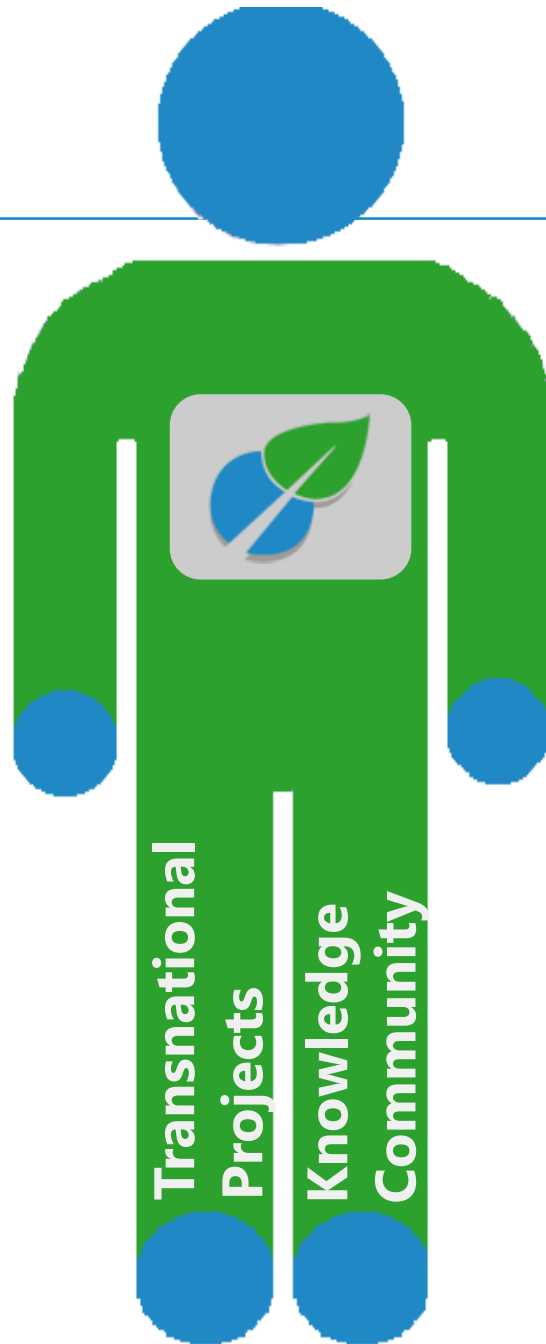
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Knowledge Community and Associated Partners

ERA-Net SES universe – the holistic approach



Walking on two legs

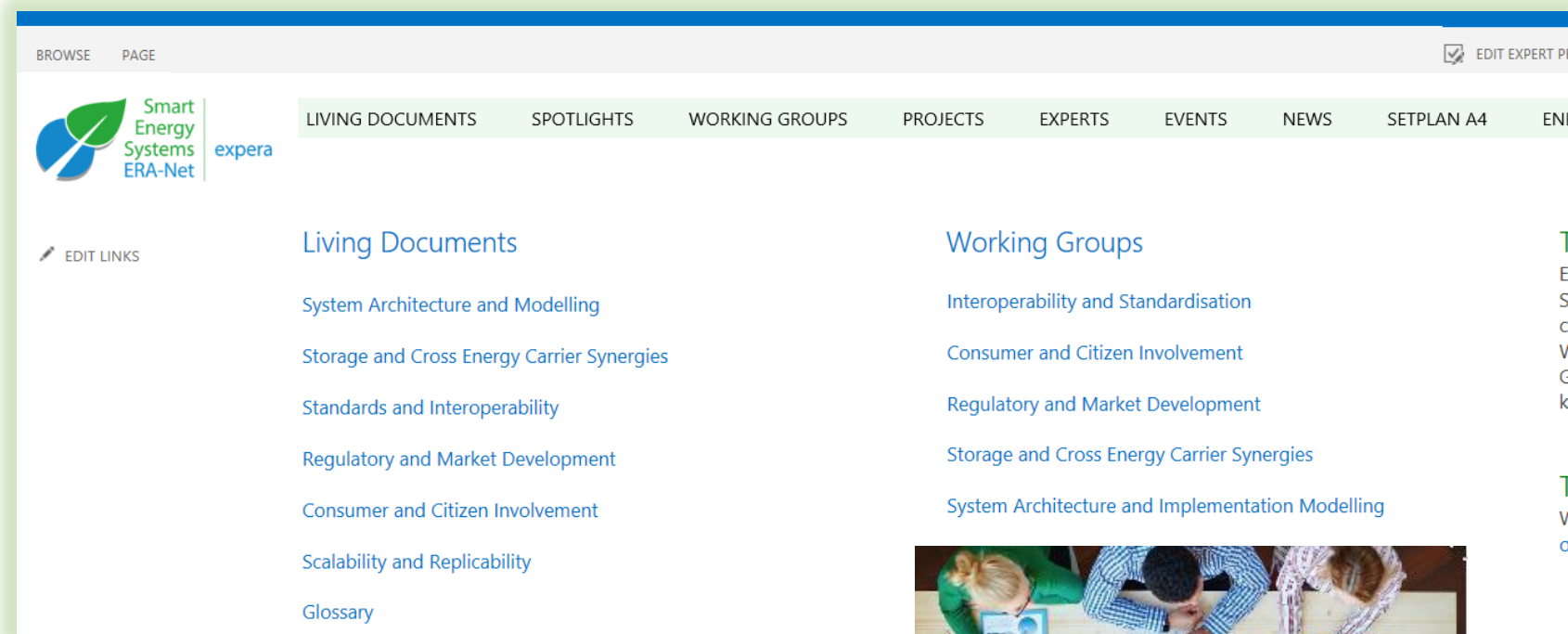


- Transnational Projects
 - national funding with EU top-up funds
 - selected in ERA-Net SES Calls
 - communication and evaluation by Support Team
- Knowledge Community
 - from and for the ERA-Net SES projects
 - national and international experts
 - unique networking and knowledge base

The Knowledge Platform *expera*

Members

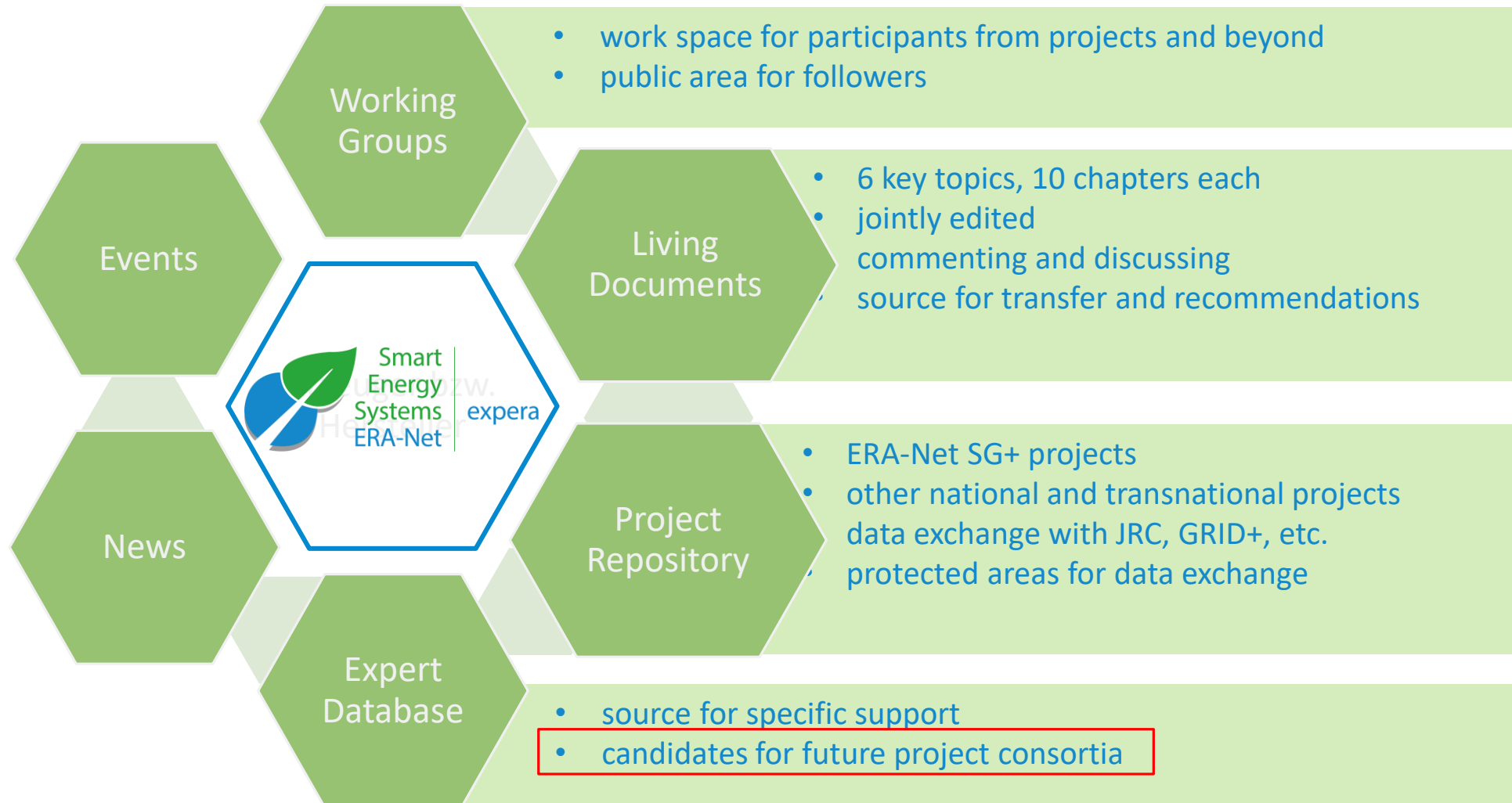
- ERA-Net SES projects
- (Trans-)National key projects
- International RDD projects
- Smart Grids practitioners
- Agenda setters and policy makers



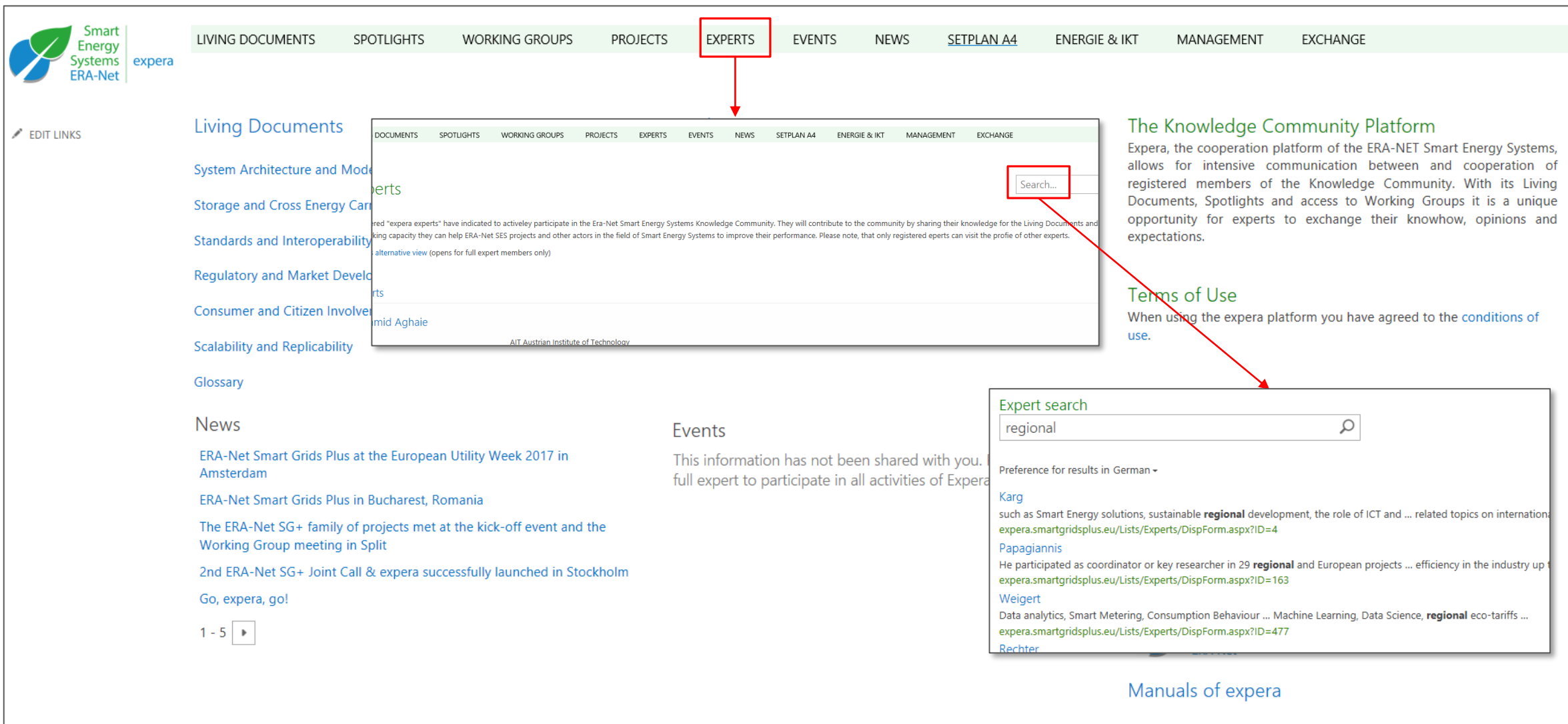
www.smartgridsplus.eu



„one-stop shopping“: the Knowledge Sharing Platform



expera – expert search function



EXPERTS

The Knowledge Community Platform
 Expera, the cooperation platform of the ERA-NET Smart Energy Systems, 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
 regional

Preference for results in German -

Karg
 such as Smart Energy solutions, sustainable **regional** development, the role of ICT and ... related topics on international
expera.smartgridplus.eu/Lists/Experts/DispForm.aspx?ID=4

Papagiannis
 He participated as coordinator or key researcher in 29 **regional** and European projects ... efficiency in the industry up t
expera.smartgridplus.eu/Lists/Experts/DispForm.aspx?ID=163

Weigert
 Data analytics, Smart Metering, Consumption Behaviour ... Machine Learning, Data Science, **regional** eco-tariffs ...
expera.smartgridplus.eu/Lists/Experts/DispForm.aspx?ID=477

Rechter

[Manuals of expera](#)

Associated Partners

Joining forces with many kinds of non-funded 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 stakeholders as Associated Partners does not only improve the quality of the funded RDD projects but increase their overall impact.

Roles of Associated Partners

- provide reach-out beyond involved funding agencies to get good projects and consortia and multiply results
- participate in co-creation of
 - concepts for projects (e. g. in order to get beyond traditional and R&D only approaches)
 - solutions during the run-time of a project (e. g. linking consortia to specific supporters)
 - networks and favorable mindsets for the success of the program and its projects
- shape projects to meet the partners needs at their best
- help start-ups and other candidates with limited experience to apply
- act as technical enablers (e. g. by providing software modules)
- co-finance ERA-Net SES projects
- support accompanying product development
- help taking solutions developed in ERA-Net SES projects to practice
- provide aggregated input to ERA-Net SES program and projects

marked in blue: key aspects for May 2018 call

List of Associated Partner Candidates (June 13, 2017)

Berlin Partner für Wirtschaft und Technologie	Germany
Business Support Centre Kranj	Croatia
Catapult Energy Systems	Scotland
Cluster CAP 2020 ASBL	Belgium
DURA – City of Dubrovnik Development Agency	Croatia
Edinburgh Centre for Carbon Innovation (ECCI), University of Edinburgh	Scotland
Eurosolar – The European Association for Renewable Energy	Europe
FIWARE Foundation	Europe
ICLEI European Secretariat	Europe
INiTS Universitäres Gründerservice Wien	Austria
KIC InnoEnergy Sweden	Sweden
Ravonja agencija Zagreb (Development agency Zagreb)	Croatia
Regional Energy Agency Kvarner	Croatia
Regionale Energie	Austria
Smart Innovation Norway	Norway
Wirtschaftsagentur Wien	Austria

... and many more!

Find all committed Associated Partners [at our website!](#)



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Networking & Transnational Cooperation Support

Further Webinars:

- July 12, 2018, 14:00-15:00 h CEST
- August 23, 2018, 14:00-15:00 h CEST

Register [here](#).

National and Regional Events:

- [Sweden, June 20, 2018, 10-12 CEST](#)
- [Scotland, June 27, 2018, 09:30-14:30 h BST](#)
- Italy, July 5, 2018, 09:30-16:30 h CEST

Also on [our website](#).

Partner Search and Matchmaking Platform:

- Present your cooperation profile
- Search & find cooperation partners
- Link to representatives of the ERA-Net SES community

Register [here](#).



ERA-Net SES – Web Information and Contact Points

ERA-Net SES Website

www.eranet-smartenergysystems.eu

Knowledge Sharing platform expera

www.smartgridsplus.eu

LinkedIn

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

Newsletter registration

www.eranet-smartenergysystems.eu

Webinars & other events

https://eranet-smartenergysystems.eu/News_Events/Events



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email

I agree to the [Privacy Policy](#).



ERA-Net SES - Contact the Initiative

Office

office@eranet-smartenergysystems.eu

Call Management

callmanagement@eranet-smartenergysystems.eu

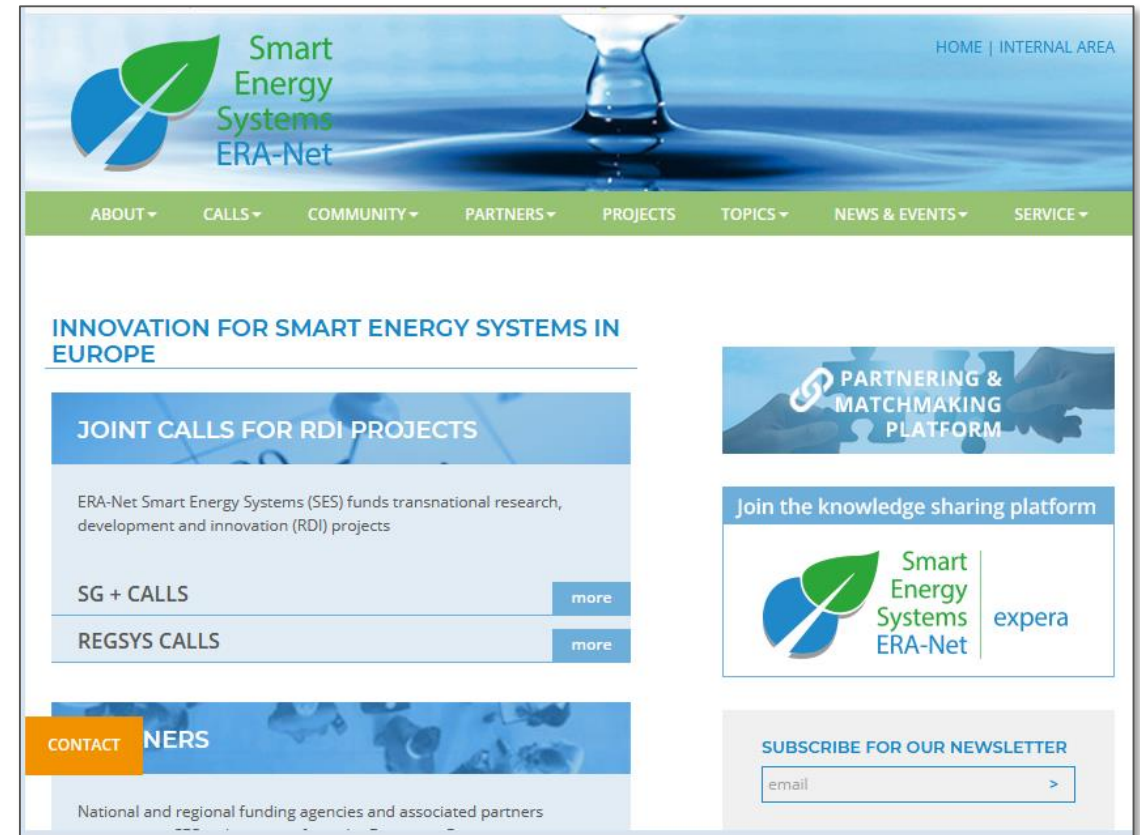
Knowledge Community

knowledgecommunity@eranet-smartenergysystems.eu

Coordination

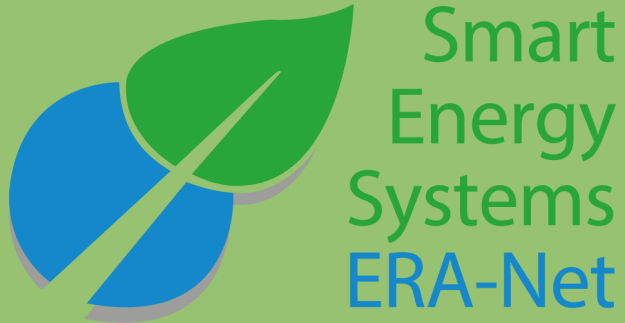
Austrian Ministry for Transport, Innovation and
Technology

Coordinator: Michael Hübner



The screenshot shows the website for Smart Energy Systems ERA-Net. The header features the logo and navigation links: HOME | INTERNAL AREA, ABOUT, CALLS, COMMUNITY, PARTNERS, PROJECTS, TOPICS, NEWS & EVENTS, SERVICE. The main content area is titled "INNOVATION FOR SMART ENERGY SYSTEMS IN EUROPE" and includes a section for "JOINT CALLS FOR RDI PROJECTS" with sub-sections for "SG + CALLS" and "REGSYS CALLS", each with a "more" link. A sidebar on the right contains a "PARTNERING & MATCHMAKING PLATFORM" section, a "Join the knowledge sharing platform" section with the "expira" logo, and a "SUBSCRIBE FOR OUR NEWSLETTER" section with an email input field.

Funding Partners



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