



ERA-NET SMART ENERGY SYSTEMS INITIATIVE

CO-CREATION SESSION ON RESEARCH NEEDS AND RESEARCH SOLUTIONS

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1 BACKGROUND AND PURPOSE

On 23rd of May, the new joint call by ERA-Net Smart Energy Systems (ERA-Net SES) for RDD projects on integrated energy systems (RegSys) was launched supporting innovative ideas with a funding budget of € 33.3 million (for details check https://www.eranet-smartenergysystems.eu/Calls/RegSys_Calls/RegSys_Joint_Call_2018).

ERA-Net SES follows an integrated, interdisciplinary Three Layer Research Model and supports RDI activities that cover multiple layers and integration of sectors (see an explanation I annexes A and B of the call text).

Flux50 is an Associated Partner of this Initiative and strives help "need-owners" and "solution providers" in developing transnational projects for this Research, Development and Innovation (RDI) program.

On June 7, 2018, Flux50 invited for an information and match-making event (https://flux50.com/events/eu-funding-matchmaking-for-smart-energy-systems-brussels). In the course of that event, representatives of the ERA-Net SES initiative presented the funding opportunity and led a co-creation session with potential applicants. This documentation displays the results of that session without further commenting.



2 LIST OF PARTICIPANTS

| Name | Institution | Country |
|-------------------------|--|--------------------------|
| Annelies Desmet | all-round ninja at June | Antwerp, Belgium |
| Ariane Decramer | Account manager & internationalisation at Flux50 | Bruxelles, Belgium |
| Bart Meersman | Owner at S2ENSO | Lokeren, Belgium |
| Bernard Germay | Project Funding Manager at CMI | Seraing, Belgium |
| Christopher Cruys | Business Support Coordinator at Brainbridge Utilities Alliance | Antwerp, Belgium |
| Davide Garufi | Business Developer at THERMOVAULT BVBA | Genk, Belgium |
| Dimitrios Thomas | PhD Candidate at UMONS at University of Mons | Mons, Belgium |
| Emilia Motoasca | ZAP (Prof.dr.ir.) at KU Leuven - TC Gent | Gent, Belgium |
| Eric Vermeulen | Marketing & Communication at haulogy | Braine-Le-Comte, Belgium |
| Erwin De Ley | Director at SupportSquare NV | Gent, Belgium |
| Frank Vermeulen | Founder at Creamo | Lokeren, Belgium |
| Frederik Loeckx | General Director at Flux50 | Bruxelles, Belgium |





| Gabriela Tatian | Business development assistant at Eurideas | Brussels, Belgium |
|------------------------------|--|---------------------|
| Giel Valkeneers | Director at house of projects | Merchtem, Belgium |
| Heidi Lenaerts | Account manager at Flux50 | Bruxelles, Belgium |
| Jan Gilot | Business Development Manager at Flux50 | Bruxelles, Belgium |
| jan jaeken | director at Samen Klimaatactief + FLUX50 | Hove, Belgium |
| kris baert | Business Development Electrical Networks at KU Leuven / EnergyVille | Genk, Belgium |
| kris van Daele | CEO fifthplay at fiftyhplay NV | Antwerp, Belgium |
| Lieve De Doncker | business developer at imo-imomec | Diepenbeek, Belgium |
| Lieven Demolder | Project leader at DuCoop | Ghent, Belgium |
| Luc Picard | Business Dev mng at ABB | zaventem, Belgium |
| Ludwig Karg | B.A.U.M. Consult CEO, Head of ERA-Net SES Support Team | München, Germany |
| Maarten Bijnens | Marketing at Flux50 | Brussels, Belgium |
| Marco Franchin | EU Account Manager at Paragon Europe | Mosta, Malta |
| Martin Vanandruel | Conseiller à l'Innovatoin at Volta Knowledge | Engis, Belgium |
| Michael Hübner | Coordinator ERA-Net Smart Energy Systems at Austrian Ministry of Transport, Innovation and Technology | Wien, Austria |
| Nick Deknudt | Assistant Manager at Flux50 | Brussels, Belgium |
| Patrick Devos | Business development at Flux50 | Brussels, Belgium |
| Paul BRICOUT | Project Engineer at Cluster TWEED | Liège, Belgium |
| Pavlos-Zinon Dimi- trakos | EU Projects intern at Paragon Europe | Mosta, Malta |
| Pedro Pattijn | business unit manager at Ingenium | Brugge, Belgium |
| Pernille Dagø | EU Consultant at South Denmark Region | Brussels, Denmark |
| Peter Droege | CEO at Liechtenstein Institute for Strategic Development GmbH | Berlin, Germany |
| Raf Callaerts | Raf Callaerts, Lawyer at Fieldfisher Lawyers LLP | Brussels, Belgium |
| Sarah Malevé | Manager Public Funding at imec | Leuven, Belgium |
| Serge Peeters | Business and Relationship Development at VITO NV | Genk, Belgium |
| Stefaan Aelbrecht | Product Development Management & Strategic Partnerships at OpenMotics | Gent, Belgium |
| Stefaan Beauprez | Business Unit Manager at Brainbridge Utilities Alliance | Antwerp, Belgium |
| steve mifsud | Technical Attache Gozo Regional Affairs at Permanent Representation of Malta to EU | Bruxelles, Belgium |
| Sven Penninck | Pitlane Manager at SF1 bvba | Oudenaarde, Belgium |
| Tuya Beyers | Association Expert VisitFLANDERS CB at Visit Flanders | Bruxelles, Belgium |
| Vermeulen Frank | Founder at Creamo | Lokeren, Belgium |
| | | |



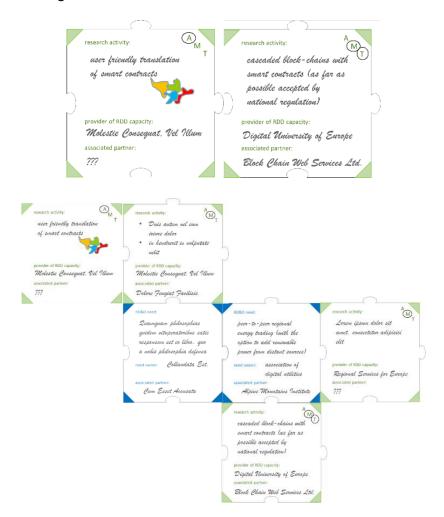


3 RESEARCH NEEDS AND RELATED PROJECT CONTENTS

Associated partners, need owners and potential associated partner candidates, were asked to fill "puzzle pieces" with identified RD&D needs, also displaying the need owner (see figure below).



In a next step, participants were asked to connect envisioned research activities to the previously identified research needs - thus combining the puzzle pieces in order to develop fruitful projects (see figure below).







4 RESULTS OF THE CO-CRETION SESSION

4.1 Identified Needs

| Puzzle piece | Summary of the need | Institution |
|---|--|---------------|
| That is the WDB what is the Impair of forecasting on the (cost) efficiency of an Energy Community (weather, mobilety, consumptions -> show to influence comsumption puttures (€?) | relation of forecasting and successful operation of an energy community potentials for influencing consumption patterns | VUB |
| - How to create age walk ecosyntem with what struturables? - guidelines? - How to consince individual citizens to perhispate? - How to involve the authorities and what is their note? - policy marking | roles of stakeholders in developing energy eco-system convincing citizens to participate involving authorities (policy making) | VUB |
| HOW CAN WE MAKE SMAKT SOLUTIONS PAYABLE? (RESIDENTIAL) need owner: VILLENTICEO) | smart, affordable, residential solutions | DSO (Vincent) |

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| Puzzle piece | Summary of the need | Institution |
|--|---|-------------|
| GREENING OF HISTORICAL BUILDINGS / SITES? How to make classified / protected buildings & monuments more sustainable? -elactricity -heat / cold - ventillation / isolation - BIPY | Sustainable refurbishment of historical, protected buildings | |
| Can the solventing from PV/EV! The Controlled directing from PV/EV! How fast can you propheries NICLO GRIOS /LEC in A region) Are LEC the fatest way to reduce formil fuels) How to comin pugh by red Why to people you by red whey to people you by red puthery | methods to get from small trials to broad rollout will Local Energy Communities scale and speed up the process? | |





| Puzzle piece | Summary of the need | Institution |
|--|---|---|
| TECHNICAL Can the some stranger PHEVI HOW fast can you passesses NICAD GRIDS /LEC in the patent way to reduce form's fuch I book to gave put by red why to perfect you's fuch I way to reduce form's fuch I book to gave put by red why to perfect you by puttery to know of on the puttery to perfect you have any | How to integrate Second life Bethries - Technology: Row to control and manage different chemistries and state of health - How to create a mabble supply chain | VUB: Integration of 2 nd Life batteries to make LECs more successful |

4.2 Identified Research Activities

| Puzzle piece | Summary of the Activity | Institution |
|---|---|-----------------------------|
| - Implem. RV - systems & festing/monitoring A Leaven - Chent - RES LEASING BY FINANCIAL INSTITUTE Level: HOP | new financing models for PV and testing activities (leasing?) | HOP KU Leuwen / TC Ghent |
| on tooting UB, KUL-TC Shows. | | |

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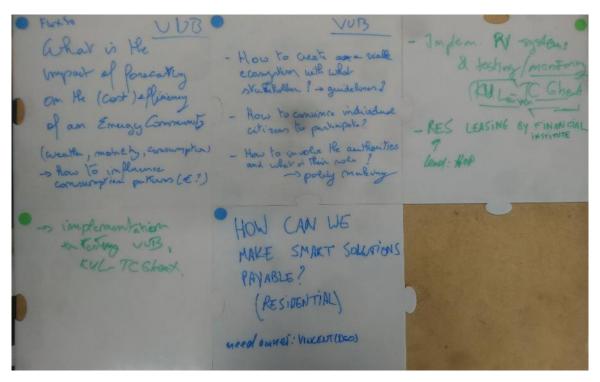


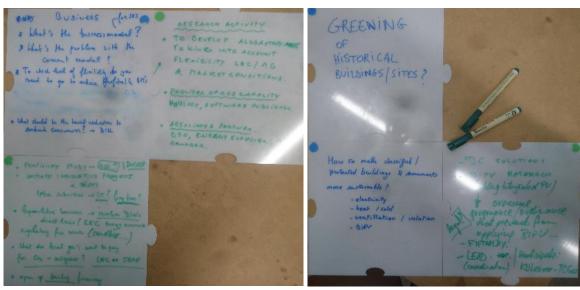
| Puzzle piece | Summary of the Activity | Institution |
|--|---|--|
| o femiliate 1 AND TO TO TO TO TO TO TO TO THE STATE I AND CONTINE PROGRETS Letter Substitute - Let? by from? o beparking however - invalue 350/s direct lines (LEC congressions) regulating free area (southour) . Was do bead gots want to pay for Car - migration? LEC et SEAP o open of banking from any (funcial markets) | existing feasibility study: trials don't scale >>> new study: alternative methods for scaling up and replications involve DSOs and regulators to test alternatives and compare potential effects of various ways of regulation ("sandbox project") relating smart energy efforts to local planning (SEAP vs. LEC) | DvCOOP |
| -DC SOLUTIONS -TBIPV RESEARCH (building integrated PV) + OVERCOUNT ance JOVERNAUCE ON CHEANCE Heart prevents from applying BIPV -FIFTHPLAY. -LEAD: HOP. Bankoipale: (coordination) KULEUVEN-TCGOT | DC solutions for existing buildings building integrated PV for protected buildings (BIPV) recommendations for governance to develop ordinances that do not prevent application of BIPV | HOP FifthPlay KU Leuwen / TC Ghent |
| ASSOCIATED PHATMER ASSOCI | methods to help LECs participate in the energy market with their flexibility | HAULOGY (Software Publisher) |





4.3 Matches









ERA-Net SES RegSys funding partners































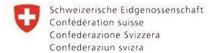


















Netherlands Organisation for Scientific Research





















REPUBLIC OF SLOVENIA
MINISTRY OF INFRASTRUCTURE

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