

**Interregional partnership for Smart Specialisation on
ADVANCED MATERIALS FOR BATTERIES FOR ELECTRO-MOBILITY
AND STATIONARY ENERGY STORAGE**

Regional meeting in Ljubljana

Venue: National Institute of Chemistry, Hajdrihova 19, 1000 Ljubljana, Slovenia

Date: Tuesday October 1st

Please register on-line at: <https://forms.gle/Y2y4fhtr1ZDEintM8>

1. Goal of the meeting

This meeting is one of a series of meeting organised during the autumn 2019 and hosted by regions (in regions, not Brussels) to **take stock of progress** and **plan further developments**. The meeting will also **identify further interest** of regional stakeholders for participating in AMBP PILOTs and investment projects.

The goal remains to **identify innovation investment projects** of a collaborative nature (bringing partners from different regions/countries). Following the PILOT meetings, this event will further build the investment portfolio of projects. As a reminder, to possibly unlock access to European Support/Funding, a project should:

- Be an industrial innovation (TRL6+) project
- Aim to achieve commercialisation in the end of the project (TRL9),
- Be driven **by industry** with the ambition to commercialise and scale-up,
- Involve a minimum of **3 regions from 3 different countries**,
- Demonstrate synergies between private and public actors,
- Generate **cross regional added value**.

Once an investment project is identified, partners will be asked to provide **1)** a first draft description of their project features, and as a second step, **2)** a real project Business Plan (from costs to revenue projections).

2. Audience of the meeting

Please note the meeting is for all: representatives from regional industry interested in knowing more about the partnership, clusters and Research and Technology Organisations (RTOs), as well as policy representatives.

3. Organisation of the meeting

The meeting will be divided into **1)** taking stock of progress, **2)** planning further developments and **3)** operationalisation of PILOT 5 project.

- 1. Taking stock of progress:** for the Partnership, the 6 PILOTs, the portfolio of investment projects, their reporting, etc... Regions willing to present actions not tackled by the partnership at the moment (such as norms, industry / academia collaboration, training, etc), regions not included, etc... are invited to provide ideas with 2/3 slides max per region
- 2. Planning further development:** future actions within PILOTs and others not tackled yet. For example: regional meetings to raise interest and progress on business cases. Regions willing to propose actions for the future direction of the partnership are invited to provide ideas with 2/3 slides max per region
- 3. Operationalisation of PILOT 5 project:** For a selected group of attendees, the description of an investment project.

4. Submission of industry-driven proposals

We welcome additional proposals to be submitted by participants ahead of the meeting. Each proposal should be of max. 3 slides and should use the appropriate .ppt format attached to this invitation.

Name of the investment project

- 1. Proposing organisation** (name, location) and **Topic/subject** (note that only TRL6+ projects will be considered, with a commercialisation perspective)
- 2. Activities / Partners:** current/missing (partners, activities, technologies) and **key activities** of your innovation investment project
- 3. Overall total project costs** estimate ;and funding needs (estimate) and why publicly supported **investment** is needed

Please send your proposals to: emmanuel.boudard@n-able.io (Deadline for proposals submission: **Wednesday 25th of September**)

5. Agenda

09:00 – 09:30	<i>Registration & Welcome coffee</i>
09:30– 10:00	Welcome and opening the meeting <ul style="list-style-type: none">➤ Introduction, Robert Dominko (National Institute of Chemistry)➤ AMBP introduction, Emmanuel Boudard (N-ABLE)
10:00– 11:30	Tour de table <ul style="list-style-type: none">➤ Partnership presentation, Emmanuel Boudard (N-ABLE)➤ PILOT representatives presenting progress on their PILOT: meetings, investment projects developed, difficulties, support needed, and way forward, PILOTs 1 &3, Victor Trapp (Bavaria)

	<p>PILOT 2, Santiago Cuesta (CASTILLA Y LEÓN) PILOT 4, Mario Sanchez (Basque Country) & Amaya Igartua (Valencia) PILOT 5, Robert Dominko (West Slovenia) PILOT 6, Simon Perraud (Auvergne Rhone Alpes)</p> <ul style="list-style-type: none"> ➤ Presentations on actions not tackled by the partnership at the moment (norms, industry / academia collaboration, training, etc), regions not included, etc... <p><i>Presentation and discussion of several presentations with the aim to agree on a clear list of actions</i></p>
11:30-12:00	Coffee break and bilateral meetings to progress on innovation investment projects
12:00-12:30	<p>Tour de table</p> <ul style="list-style-type: none"> ➤ Stakeholders (or their representatives) presentations on possible (industry-driven) investment projects not discussed so far <p><i>Presentation and discussion of several projects with the aim to provide clear connections within the partnership (PILOTs 1 to 6 projects) and guidance for further developments of the projects</i></p>
12:30-13:30	<i>Working lunch</i>
13:30-14:00	Feedback for Stakeholders (or their representatives) presentations on possible (industry-driven) investment projects
14:00-15:00	<p>Tour de table</p> <ul style="list-style-type: none"> ➤ Stakeholders presentations on future actions within PILOTs and others not tackled yet. For example: regional meetings to raise interest and progress on business cases, or virtual meetings, etc... <p><i>Presentation and discussion of several actions with the aim to provide a clear list for actions</i></p>
15:00-15:30	Coffee break and bilateral meetings to progress on innovation investment projects
15:30-16:45	Side event to progress on PILOT 5 investment project (possibly others)
16:45-17:00	Conclusion and next steps – toward the next regional meeting and development of the investment projects
17:00-19:00	Brokerage event: bilateral meetings
20:00-22:00	Informal dinner

6. Current portfolio of projects

#	Project leaders	PILOT / PROJECT	Known / tentative PARTNERS	Progress status
1	Baikowski /CEA Contact: Livia Marra	PILOT 6 Efficient manufacturing process for speciality alumina for Li-ion batteries	ERAS, Linn High Term	Provide description
2	Carbone Savoie Contact: Xavier Fleury	PILOT 6 Artificial @graphite for battery anode material	AMG-GK, CS additive, FAAM, CEA LITEN, Fraunhofer	Develop description
3	Manz Italy srl / ART-ER Contact: Lorenzo Calabri	PILOT 6 Battery Module Manufacturing Enabling Technologies	UniBo, Bi-Rex, Marposs, Kaitek	Provide description
4	Marposs / ART-ER Contact: Lorenzo Calabri	PILOT 6 In process Testing for electrodes, cells and assembly	UniBo, Competence Center, Manz Italy, Bettery	Provide description
5	ENWIRES / CEA Contact: Olga Burchak	PILOT 6 NextBatt4EU (Next battery for Europe) -Novel anode and cathode materials for 3b generation of lithium-ion batteries	Arkema, Torrecid, ITE, AIT, Ulm, Fraunhofer, Leclanché	Develop description
6	MTB / CEA Contact: MTB	PILOT 3 Battery recycling process	To be developed, numerous interest	Provide description
7	Fraunhofer Contact: Victor Trapp	PILOT 1 Modular processing platform (MPP) for Gen4	Long list ¹	Develop description
8	Fraunhofer Contact: Victor Trapp	PILOT 3 Tracing / transportation of recycled LiB	To be developed	Provide description
9	National Institute of Chemistry Contact: Robert Dominko	PILOT 5 Network of prototyping & testing centers	Long list ²	Develop description
10	CEGASA Contact: Estibalitz Crespo	PILOT 4 Development and upscaling of Zn-air batteries	To be developed	Provide description

¹ Material companies: Heraeus, EVONIK (DE), UMICORE (DE, BE), SOLVAY, AVESTA (BE)

LiB cell company: blue solutions, SAFT(FR)- stage 2 (tbd)

R&D: SKZ (polymer processing), ISC (electrolytes, battery know-how, semi-manual Gen4 line (DE), CEA (FR) testing, Bologna region (IT) for equipment/ automation, others tbd

Equipment: EXYTE, Coperion (DE), Valencia region (for printing) (ES); Bologna region (IT), others tbd contractor company for equipment – Bologna region? (mainly stage 2)

Materials companies: provide electrolytes and active materials

Equipment manufacturers: processing equipment, dry room etc.

ISC/ SKZ: Gen 4 MPP & investigate processing, CEA testing etc.

² Viken (Norway) – Vestlandet (Norway) - Sustainable Energy Norwegian Catapult Centre, Elkem, SINTEF;

Basque region (Spain) - CIC Energigune, TEKNIKER;

Castilla y León region (Spain) - CIDAUT, Foundation for Transport and Energy Research and Development, ICAMCYL, Institute for Business Competitiveness of Castilla y León;

Auvergne Rhone Alpes region (France) – AXELERA, CEA, SERMA Technologies;

Lombardy (Italy) - RSE (Ricerca Sistema Energetico), CNR (National Research Council of Italy);

Emilia Romagna (Italy) - Valencia (Spain) - Andalusia region (Spain) - Aragon (Spain)



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**MINISTRSTVO ZA GOSPODARSKI
RAZVOJ IN TEHNOLOGIJO**



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