**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*](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.

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| *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**](mailto:emmanuel.boudard@n-able.io) **(Deadline for proposals submission: Wednesday 25th of September)**

#### **5. Agenda**

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| 09:00 – 09:30 | *Registration & Welcome coffee* |
| 09:30– 10:00 | Welcome and opening the meeting   * Introduction, Robert Dominko (National Institute of Chemistry) * AMBP introduction, Emmanuel Boudard (N-ABLE) |
| 10:00– 11:30 | Tour de table   * 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)  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)   * Presentations on actions not tackled by the partnership at the moment (norms, industry / academia collaboration, training, etc), regions not included, etc…   *Presentation and discussion of several presentations with the aim to agree on a clear list of actions* |
| 11:30-12:00 | Coffee break and bilateral meetings to progress on innovation investment projects |
| 12:00-12:30 | Tour de table   * Stakeholders (or their representatives) presentations on possible (industry-driven) investment projects not discussed so far   *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* |
| 12:30-13:30 | *Working lunch* |
| 13:30-14:00 | Feedback for Stakeholders (or their representatives) presentations on possible (industry-driven) investment projects |
| 14:00-15:00 | Tour de table   * 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…   *Presentation and discussion of several actions with the aim to provide a clear list for actions* |
| 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**

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| # | 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]](#footnote-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]](#footnote-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. [↑](#footnote-ref-1)
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) [↑](#footnote-ref-2)