SERVICES

Networking

- Contact network - Partner profiles for peer to peer ReLioS communication
- efficient and useful networking in demandoriented events
- direct exchange with stakeholders of the battery value chain
- international exchange, especially with South Korea
- Existing legal framework for a trustful exchange of information and cooperation (cooperation agreement)

Monitoring of relevant market trends and technology innovations

- Identification of relevant market trends and joint evaluation within ReLioS partner group
- Knowledge of relevant technology developments (topic radar/roadmap)
- Knowledge of relevant current funding programs

Joint public image

- Platform for effective external representation
- Realization of dedicated events/formats for professional community

OBJECTIVES

We are an association of companies and scientific institutions, which

- maintain an intensive exchange to **develop business opportunities** and initiate **research and testing projects**
- promote **regional cooperations**
- work on further development of value creation in Brandenburg and Germany in close cooperation with international leading partners
- increase the visibility of each individual and the common objective through a joint **external presentation.**

CONTACT

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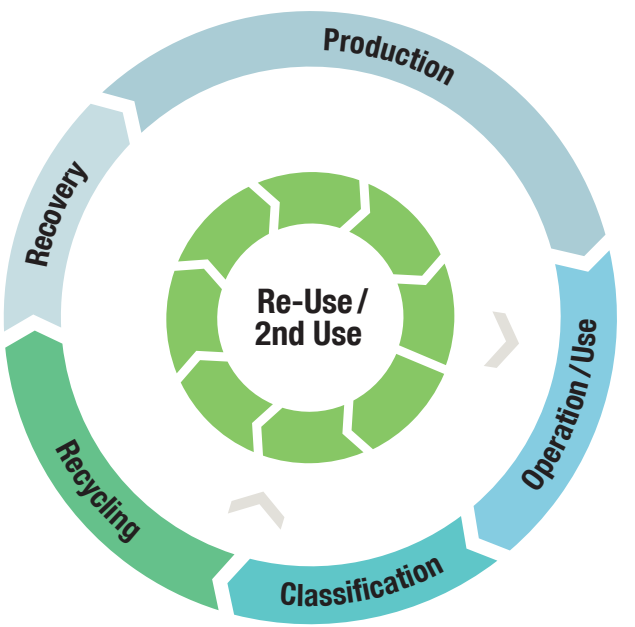
Vice Chairman: Prof. Jung-Hwa Lee, Berliner Hochschule für Technik, lee@relios.org

Executive Board: Antje Roettcher, Stöbich Brandschutz GmbH, roettcher@relios.org

RE-USE AND RE-CYCLING OF LI-ION-BATTERY SYSTEMS

ReLioS

ReLioS – Network for regionalization of circular economy for lithium-ion battery systems and future technologies



CHALLENGES – ADDED VALUE

The **battery value chain** includes a large number of different processes and technologies that must be continuously developed.

The first step is the **production** of battery materials, battery cells and complete battery-systems. This requires various forms of highly qualified **automation techniques** for battery cell production and system assembly. Throughout the entire value chain, important cross-sectional tasks include **logistics,** in particular transport and safe storage, as well as **fire protection**, both in the manufacturing process and in storage.

For new developments, **testing** and **classification** are the basis for safe use and are a mandatory prerequisite for the reuse of used batteries.

Recycling and **Reuse** will play a central role in raw material availability and affordability. New processes help to reduce raw material dependencies and secure supply chains.

Along with technological progress, **new battery technologies** have to be developed. Different competences in **analytics** and **characterization** are required for material development. **Digital solutions** for the consideration of the entire **life cycle** (battery passport, life cycle assessment) must also be developed and applied.

MEMBERS AND COOPERATIONS

Companies (SME & large enterprises) and **scientific institutions** from Brandenburg, Berlin and Germany

Cooperation with **Economic Development Agency Brandenburg (WFBB)**

ALLIANCES

- Verband Deutscher Maschinen- und Anlagenbau VDMA
- National Platform Mobility NPM, acatech – Deutsche Akademie der Technikwissenschaften e.V.
- Standardization organizations DIN, VDE
- ARENA 2036 e.V.
- Federal ministries (BMWK, BMDV)
- Korean companies and scientific institutions.