



NETWORK OF RESEARCH PILOT LINES FOR LITHIUM BATTERY CELLS

LiPLANET Training sessions

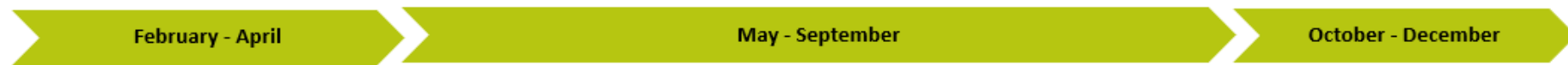
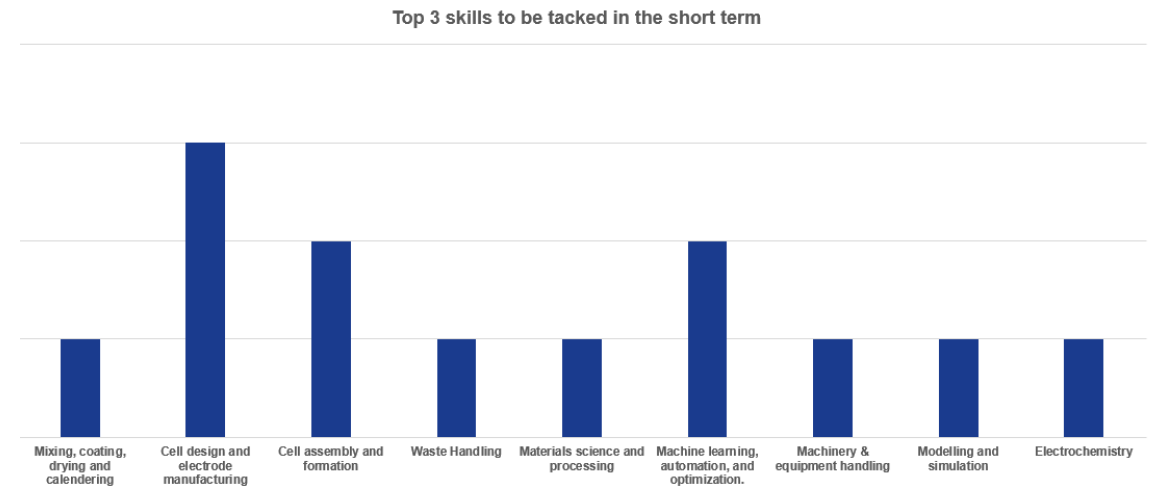
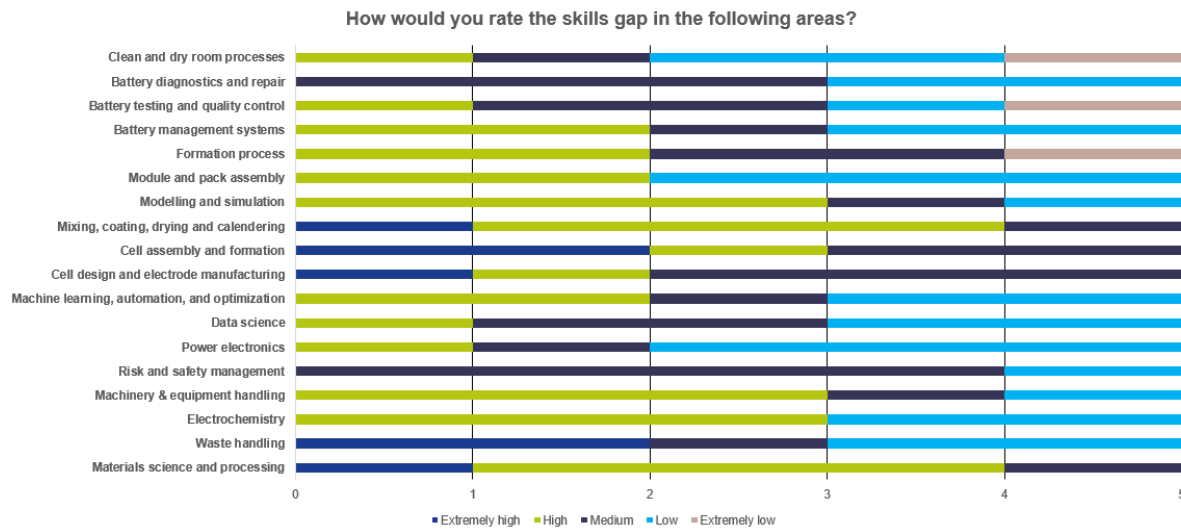
Dimitra Maleka, 01-07-2021



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LiPLANET Training sessions

- Facilitating trainings around Li-ion cell manufacturing for knowledge transfer among the network - Engineers, researchers and other interested stakeholders
- Skills and knowledge gaps identified through a survey and interaction within the consortium



Identified skill and knowledge gaps



Define topics & content development by experts



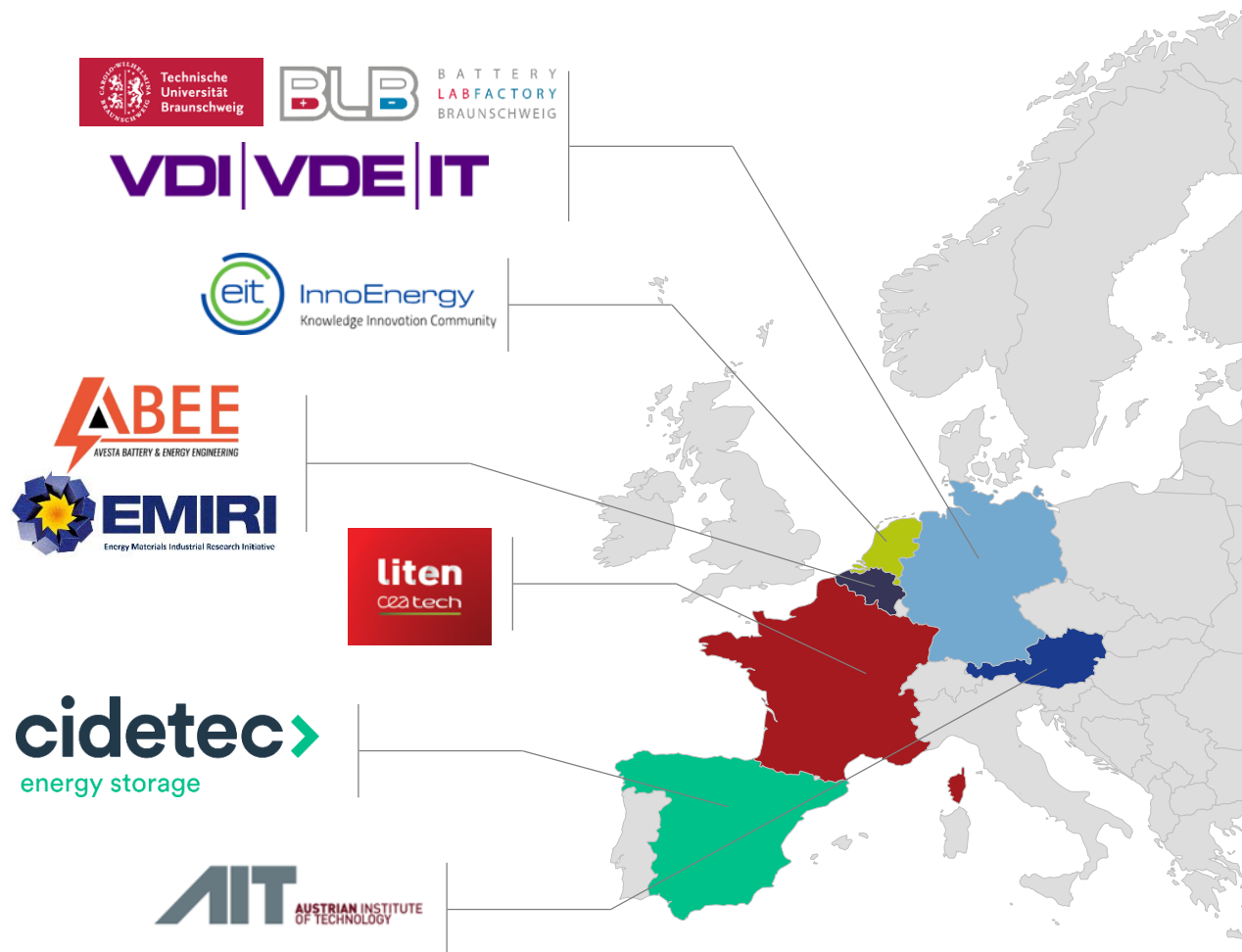
Delivery and facilitation of trainings

LIPLANET Training sessions (October – December)

- Virtual sessions via Zoom
 - **Cell design and electrode manufacturing**
 - Deep dive into each process step
 - **Digital skills in battery manufacturing – Part 1 & Part 2**
 - Digitalization as a key enabler for a more efficient battery production
 - **Fundamentals of electrochemical modelling for Li-ion batteries**
 - Basic understanding on the modelling of an electrochemical cell
 - **Modelling and simulation of cells**
 - Use of models (continuum, ML, surrogate) for battery design, parametrization, prediction of lifetime and performance
- Video lessons
 - **Electrode manufacturing** (4 video lessons)
 - Step by step process from a pilot line
 - **Simulation of cells**
 - Introduction to simulation of electrochemical cells
 - **Battery production process**
 - Introduction to the battery production process and the main steps



The LiPLANET consortium at a glance



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