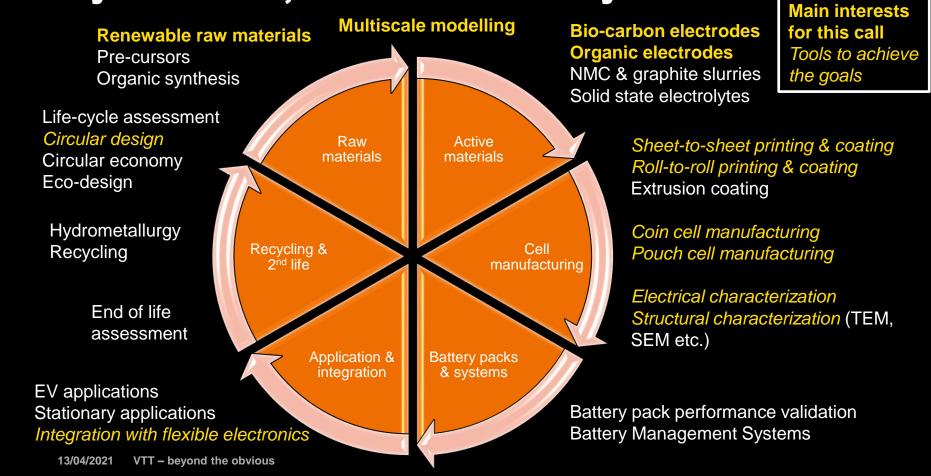


VTT can support research and industry within the whole battery value chain, in a circular economy fashion







Rotary screen printing



R2R calendaring





Battery assemblyCoin & pouch cell assembly under argon atmosphere

Vacuum oven



Coin cell press



Ar glove box



Vacuum sealing machine for pouch cells





(€ (MET)₃

Our main topics of interest Targeting TRL 1-4



Topic 1: Modelling for materials engineering, processing, properties and durability

<u>Deep learning</u> in battery materials design and development, property assessment and lifetime evaluation.

Topic 3: High performance composites

Functional (Bio)polymers in energy and environment applications.

Topic 4: Functional materials

- Next generation materials for batteries: solid state batteries, and materials and systems enabling high-power and/or high-energy, long-cycle-life operation, recyclable and biodegradable battery materials, bio-sourced materials, materials for flexible batteries, materials for structural batteries.
- Dynamic, self-healing smart materials to enable longer service lifetime like detecting defective components and local spots to be repaired in batteries and triggering self-healing processes.





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