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# SALAMANDER Project

## Smart Sensors and Self-Healing Functionalities Embedded for Battery Longevity with Manufacturability and Economical Recyclability

Samson Y. Lai, PhD on behalf of the SALAMANDER consortium

Group Leader, Materials Development

Battery Technology Department

Institute For Energy Technology, Kjeller, Norway

Battery 2030+ Roadmap Workshop

27 June 2024

Oslo, Norway

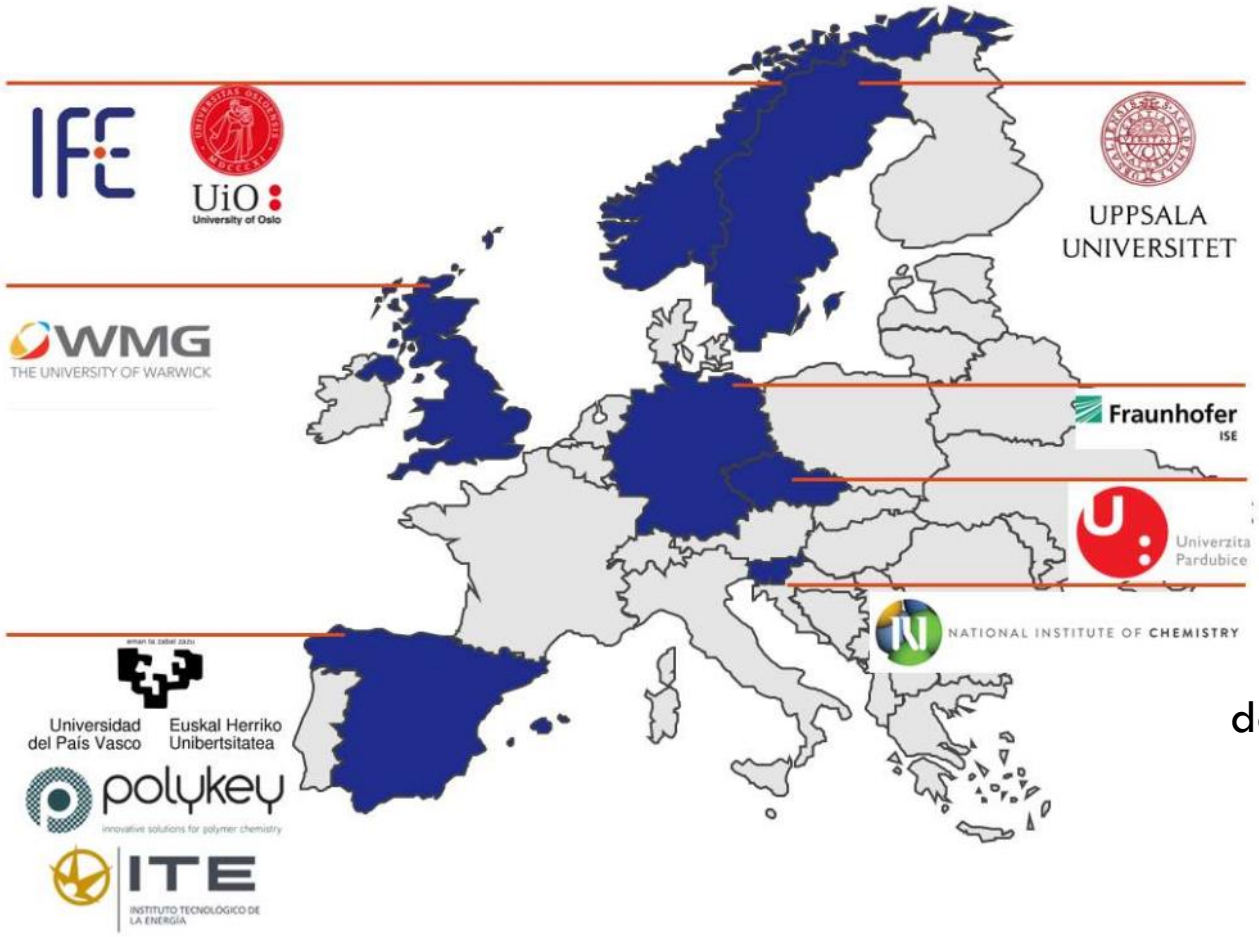
# Consortium Partners

**Who is in your Consortium?**

Anode development
Characterization

Cell integration
and production

Self-healing
functionality




Self-healing
functionality

Battery
management
system

Sensor
development

Cathode
development

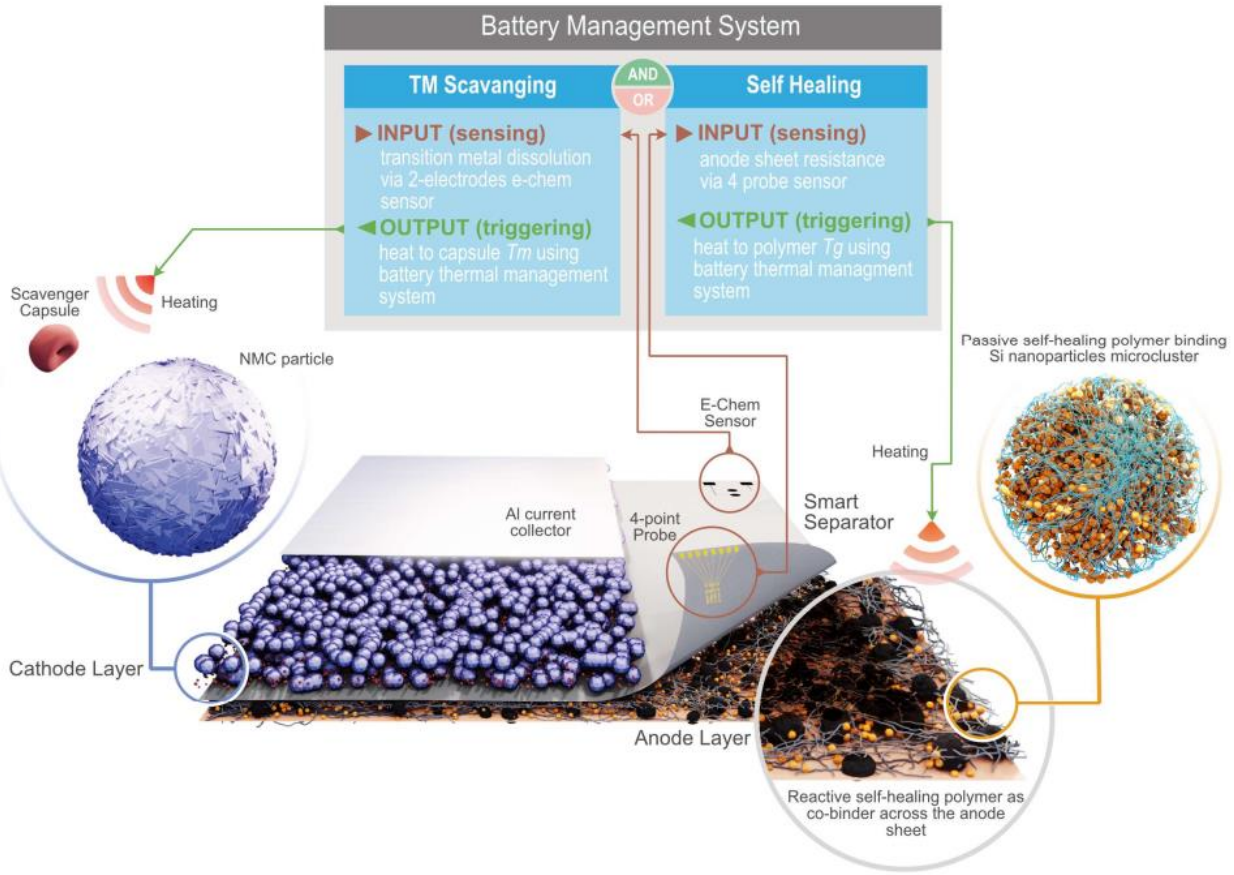
# SALAMANDER Concept

**Si microcluster // NMC622 battery chemistry**

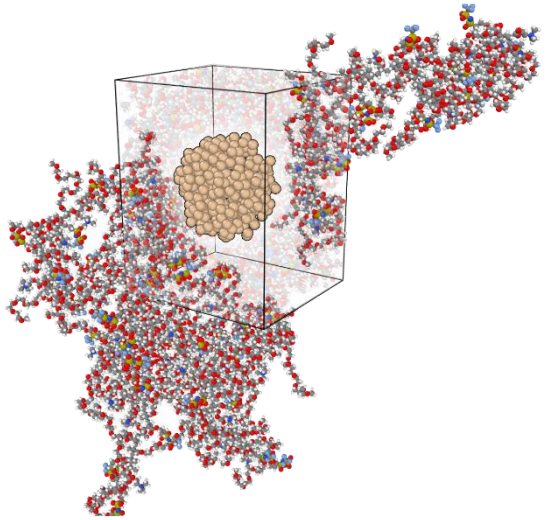
**Three self-healing functionalities**

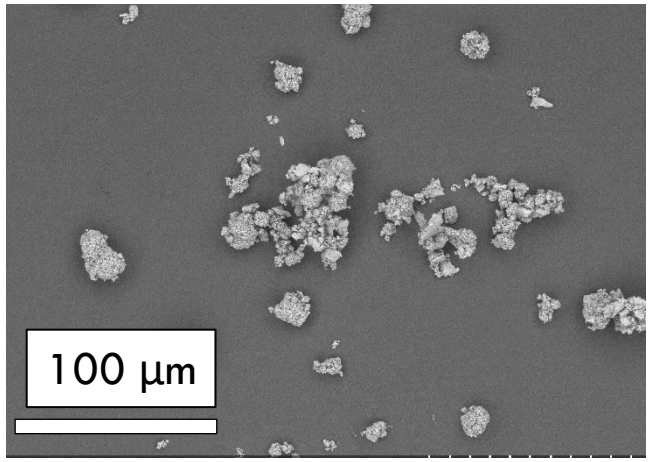
**Thermally triggered**

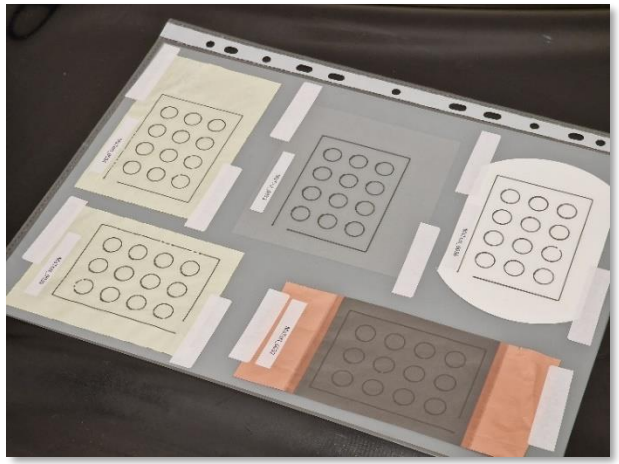
**Three sensors**

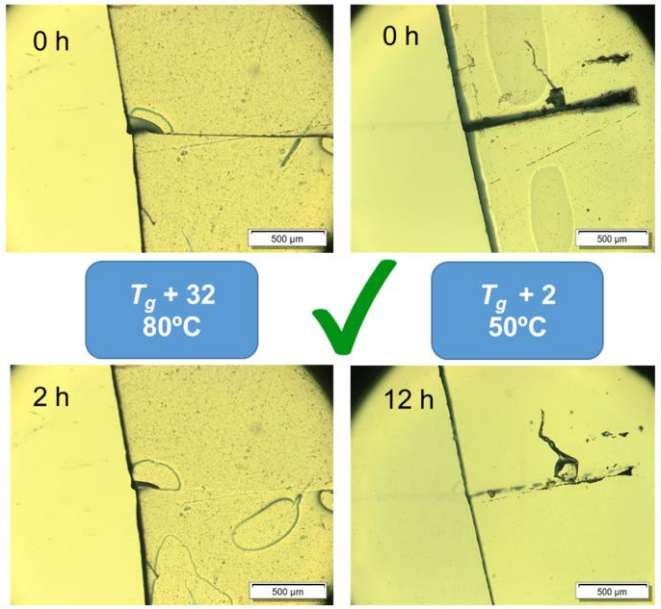


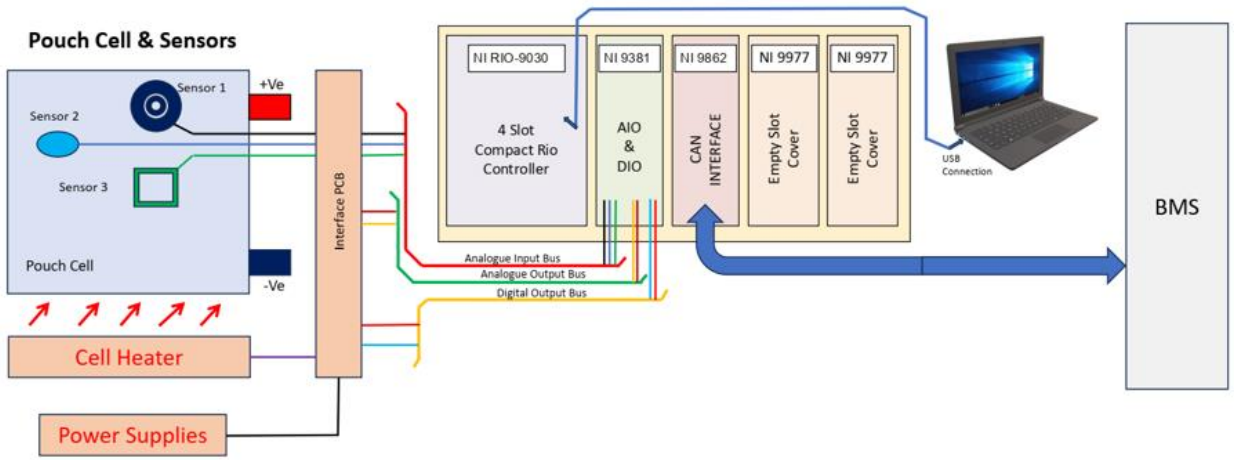
# Results so far







# Concluding Questions

1) **Which objectives of my project could be added to the roadmap goals?**

Formal objectives of the project are already in the roadmap

Informal new objectives – standards, practices focused on sealing around sensors

1) **What are the expectations of my project from the future roadmap?**

Define and prioritize areas of technical development

Identify alternative approaches when encountering roadblocks in development