# BATTERY 2030+ At the heart of a green and connected society

A Large-Scale Research Initiative on Future Battery Technologies

Director: Prof. Kristina Edström, Uppsala University, Sweden



BATTERY 203+

## The important rechargeable battery today The lithium ion battery





#### Dramatic decrease in cost per kWh



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# HIGH EXPECTATIONS ON A FOSSIL-FREE SOCIETY





#### Where can we expect the next battery technology breakthrough?



## Another way of picturing the batteries of the future





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 957213.

### What is needed to enable breakthroughs in terms of sustainability?

- More research on how to accelerate the finding of new battery materials and battery concepts based on new methods to make them:
  - Utilize the strength in combining modeling, machine learningen and AI with strong high throughput experiments
- The new battery regulation can be a support with tough requirements for recycling (in worst scenario this will hamper development) concepts



# BATTERY 2030+ IN EUROPE







#### INVENTING THE SUSTAINABLE BATTERIES OF THE FUTURE

**Research Needs and Future Actions** 

Prof. Kristina Edström

Department of Chemistry – Ångström Laboratory Uppsala University

Kristina .edstrom@kemi.uu.se

The roadmap is available online http://battery2030.eu



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