



#### Preparing the Battery Industry For Mass Exportation of Lithium-ion Batteries

Magnus Matre 28.September.2023 Battery Tech Expo



#### **Objective**

- Enhance your battery Logistics expertise
- Elevate the logistics priority in project planning

#### Agenda

- Logistic demand from the battery industry
- The complexity of battery logistics
- Future and present logistics challenges for the Nordic countries



## Logistics demand from the battery industry

- 150 Gigafactories in 6 years
- 20 Gwh factory require 10 000 containerloads
- Inbound raw materials
- Export of cells to customers
- Reverse logistics



## The complexity of battery logistics

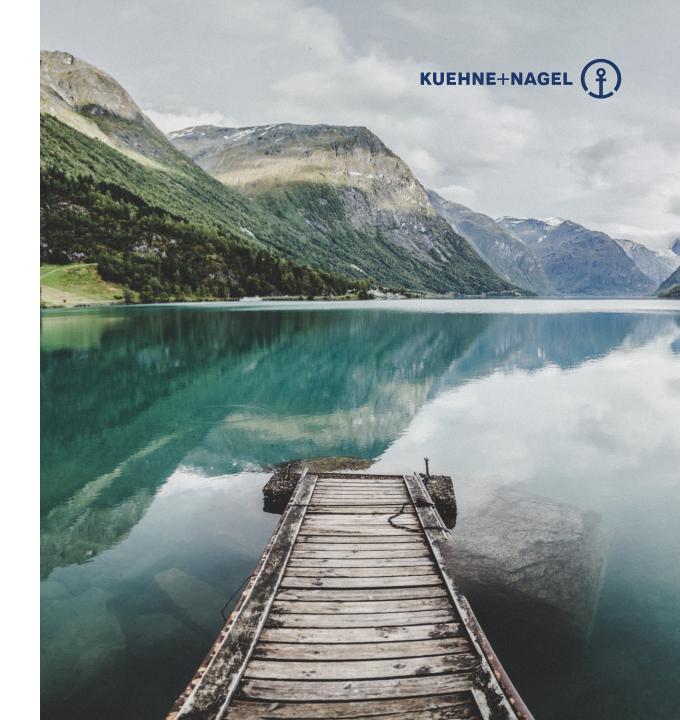
Ask the captain: Lithium batteries are a safety concern!

- Dangerous goods classification
- Transportation and storage of batteries call for special handling
- Dangerous goods Regulations set the minimum standards
- Sea freight carriers set their own DG regulations
- 80-90% of airlines define Lithium ion Batteries as Embargo



#### Present and future logistics challenges for the Nordic countries

- Long leadtimes to the nordic countries
- Infastructure not build out for expected volumes
- Feeder vessels supplying the nordic countries have low capasity
- Sustainability in the logistics sector to suport a green industry





## How do we overcome the challanges and at the same time maximize safety ?





# Let's get it done.

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