

#### Vihreän ammoniakin tuotantoa ja käyttö Jussi Ylinen

27.1.2025



Established for green hydrogen and ammonia project development.

### 2021

As a result of Elomatic's internal development. Meridiam has joined to support the development.

Immediate incremental commercial applications with synthetic products.

Target to scale up production with the world-class engineering capability



#### Finland is a favorable place for green hydrogen and ammonia production



Ambitious roadmap for cost efficient renewable electricity production



World class water and electricity supply



Industry experience in energy, maritime and chemicals



Stable environment for investments with ambitious carbon neutrality targets



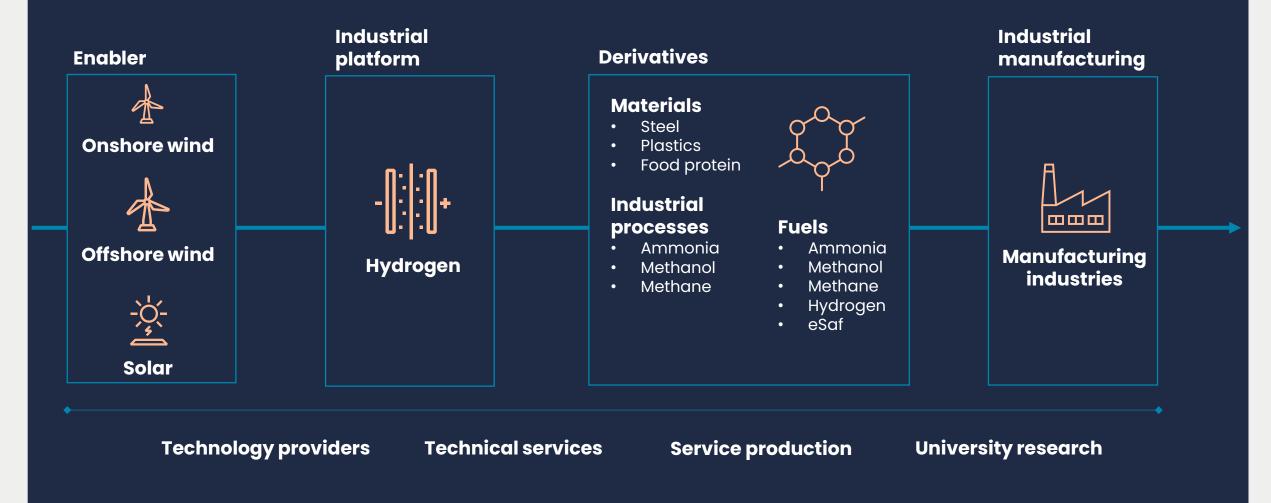
Utilization of the excess heat in the district heating



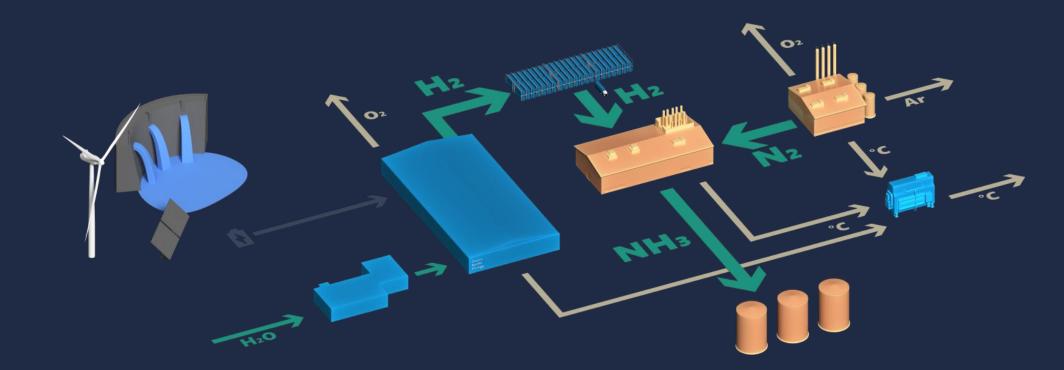
World class knowledge in engineering, research and digital solutions



## Renewable electricity creates a wide range on new industrial potential to Finland







Availability of renewable energy will relocate the ammonia production

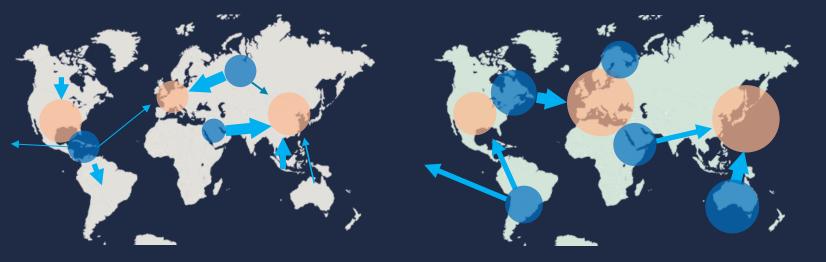


# Ammonia is part of global chemical markets – and decarbonization will reform its structure

Share of global CO2-emissions

2%

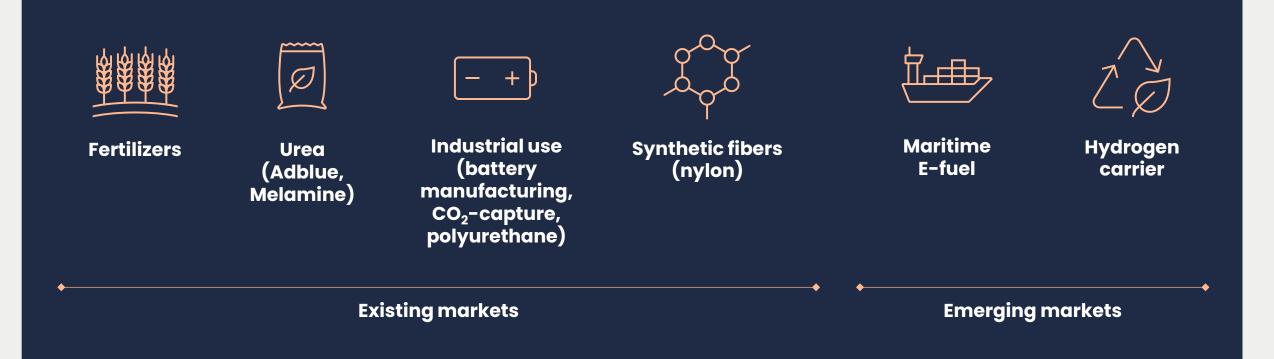
Current gray ammonia market structure Estimated green ammonia markets







# Green ammonia replaces fossil-based ammonia and enables new carbon neutral solutions



Green North Energy

#### Green North Energy's project portfolio has a significant impact on Finland and Europe



Number of new jobs created (permanent and construction phase)

Annual CO<sub>2</sub>- emission reduction 1 million tons

Role in self sufficiency in the food production and in the future maritime logistics

An anchor enabler for new chemical process investments to Finland



On the mission to accelerate the green transition with green fuels and chemicals