

# Industrial parks as hydrogen hotspots

## Case Kokkola

24.1.2023

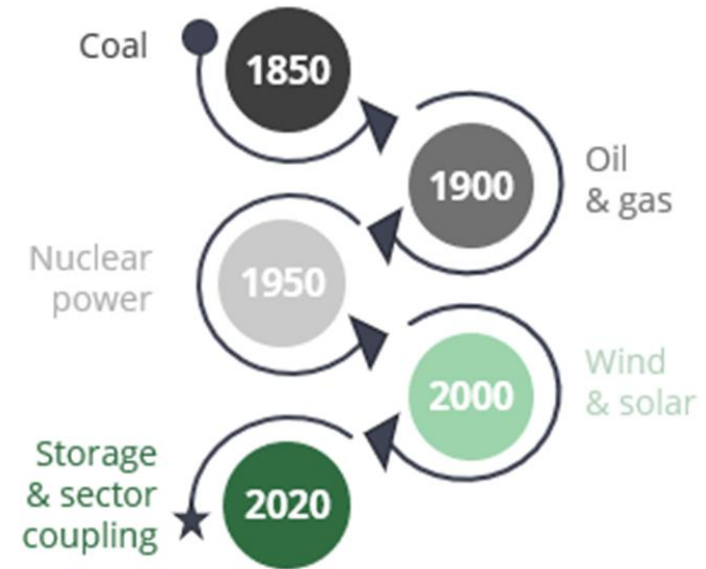
# A project developer in the hydrogen economy

ROOTED IN RESEARCH – THE 100% RENEWABLE ENERGY SYSTEM

**SMART ENERGY ALAND**

**GROWTH ENGINES**  
FUNDING FOR THE FORERUNNERS OF A MARKET DISRUPTION

**AIMING AT BUSINESS ACTIVITIES AMOUNTING TO BILLIONS OF EUROS**



# First Large Scale Green Ammonia projects



- Location: Naantali
- Capacity 100 MW, status: Concept design
- First green ammonia project in Finland
- Estimated start of operation: 2026
- Estimated investment 250 milj. €



- Location: Kokkola
- Capacity 300 MW, status: Planning started
- Largest green H2 announcement in Finland
- Estimated start of operation: 2027
- Estimated investment ca 500 milj. €



# Why Kokkola?

- Kokkola Industrial Park – KIP: The largest inorganic chemical industry ecosystem in Northern Europe with existing relevant services and industrial infrastructure
- Emerging green hydrogen hub with experience: e.g. **Woikoski, Hycamite**
- Experience in handling ammonia: e.g. **Yara**
- Large port operations
- Located on the upcoming Nordic Hydrogen Route
- Large wind power developments in the region
- Active in the BotH<sub>2</sub>nia initiative and the Finland National Hydrogen Network

**KOKKOLA**  
**INDUSTRIAL PARK**

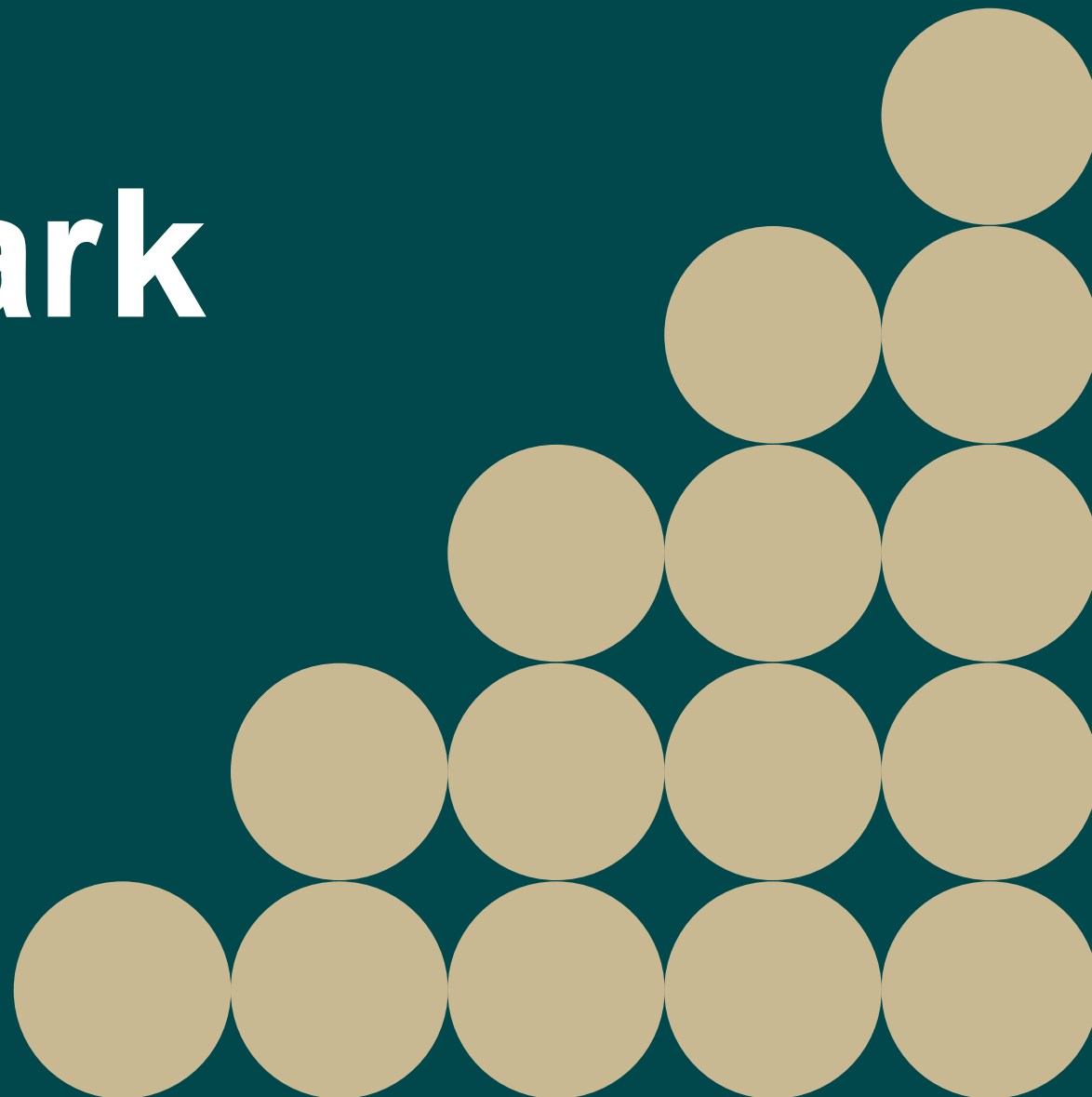
  
**Kokkola**  
**Karleby**

NORDIC  
HYDROGEN  
ROUTE  
BOTHNIAN BAY

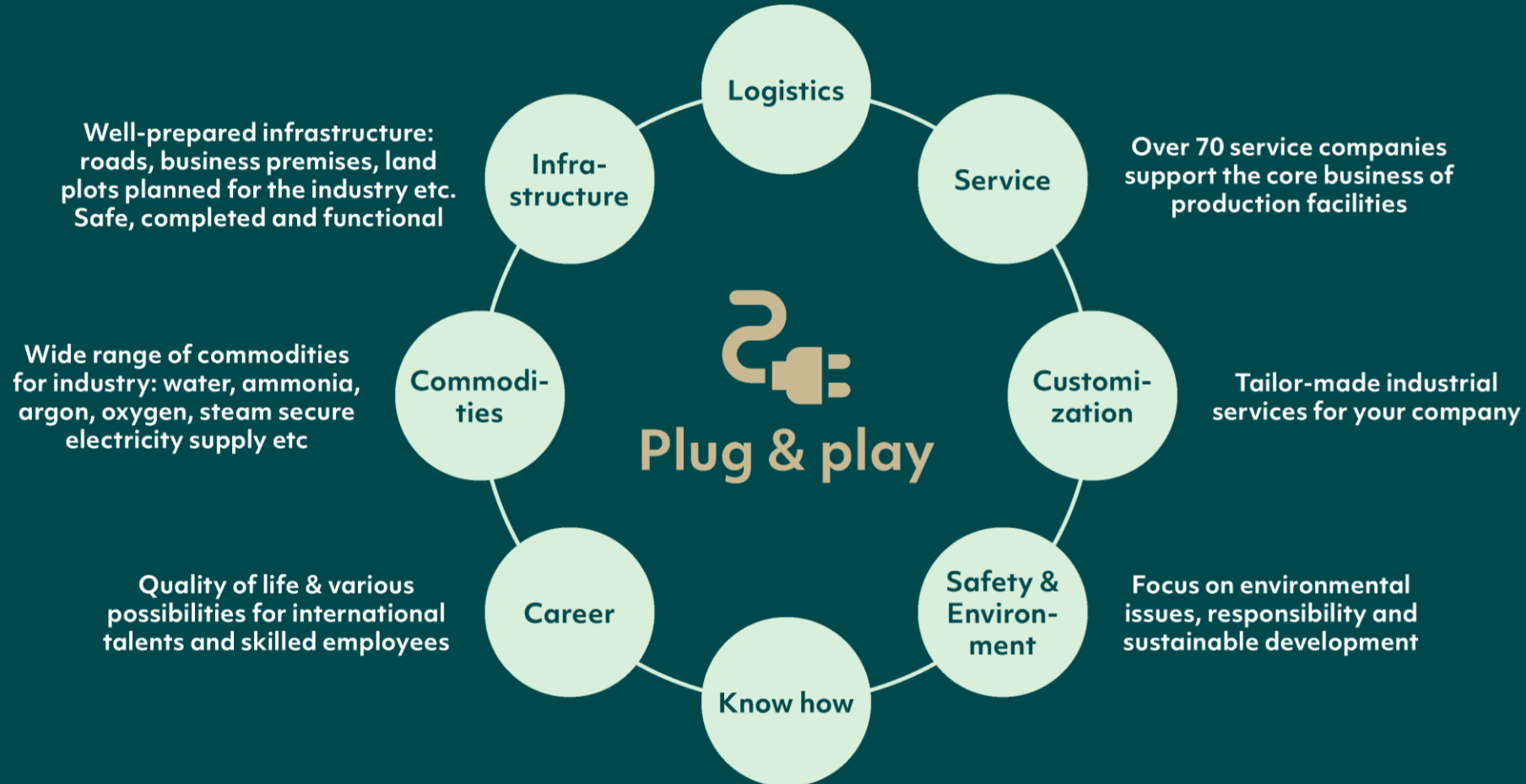
**KIP**  
INFRA

**BotH<sub>2</sub>nia**

# Kokkola Industrial Park



# Plug and play



# Kokkola Industrial Park (KIP) Northern Europes biggest chemical cluster.



**Facts**  
Workers 2300  
Companies 70+  
Export value 1,5 billion €/year  
Over 30 different commodities  
available.

8.2.2023

(City of Kokkola)

- Drives decarbonization
- Supports regional economic development
- Enables an independent energy future

RENEWABLE RESOURCES IN BOTHNIAN BAY  
CAN ENABLE GREEN INDUSTRIALIZATION



**48 GW wind capacity**  
installed by 2040



E-fuels



Fertilisers



Green chemicals



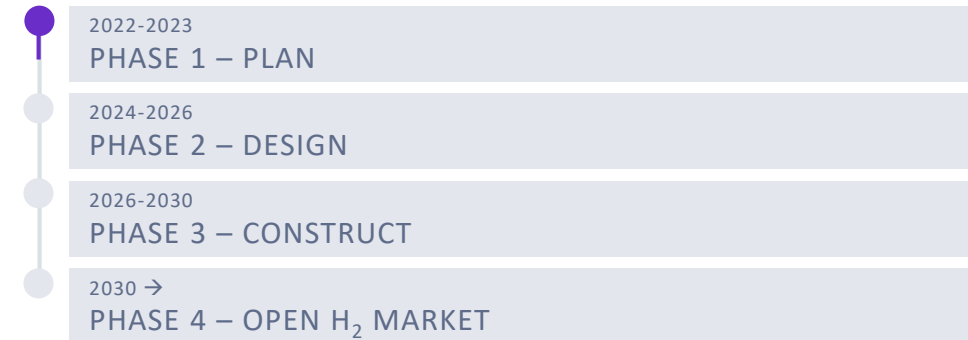
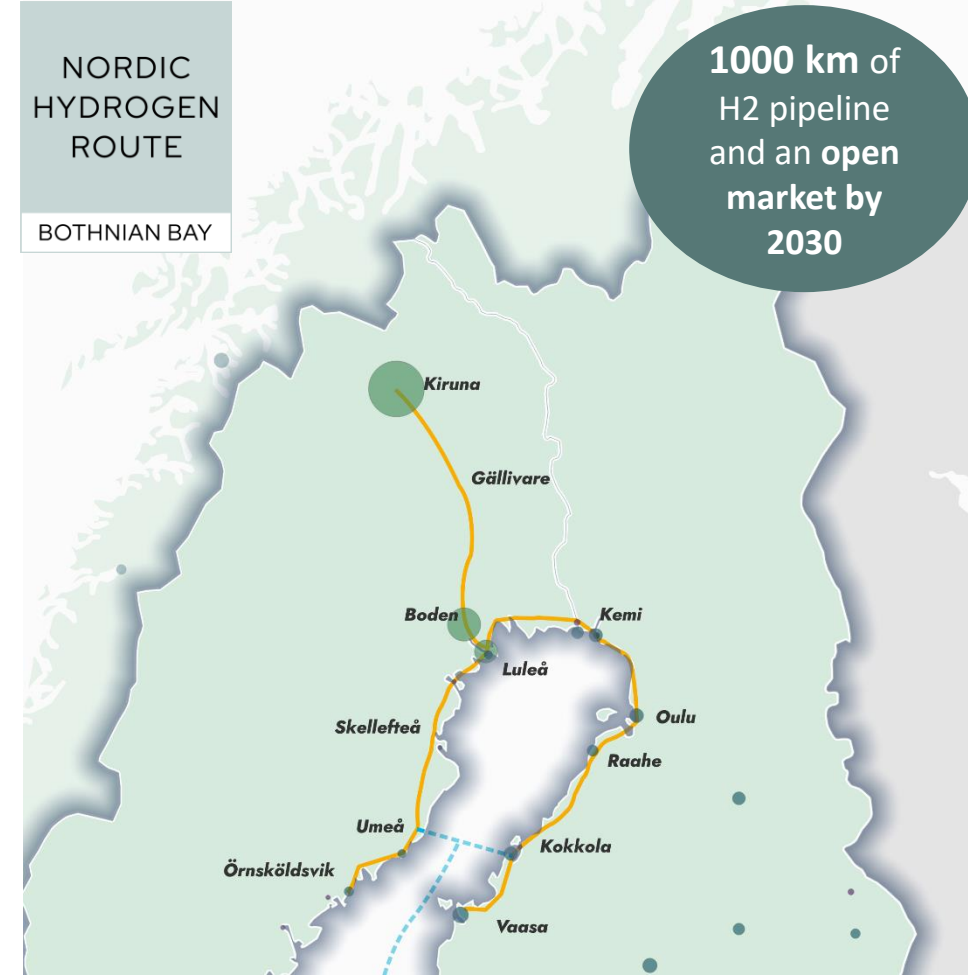
Iron, steel & metals


**65 TWh hydrogen**  
demand exceeded by 2050

NORDIC  
HYDROGEN  
ROUTE

BOTHNIAN BAY

**1000 km of  
H2 pipeline  
and an open  
market by  
2030**





# Thank you !

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