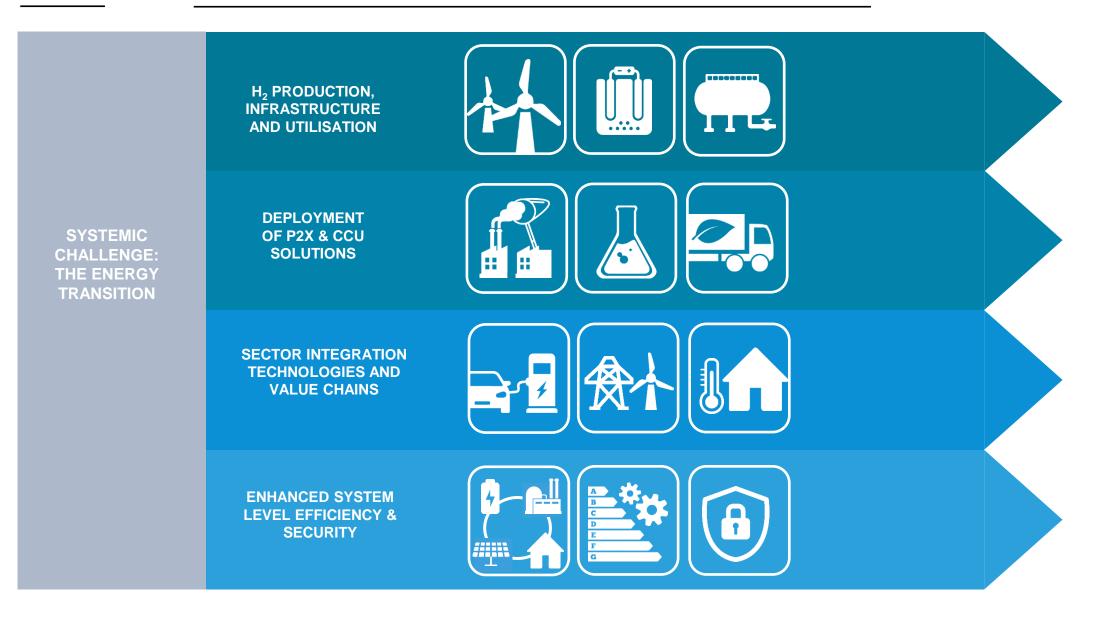


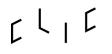
# Market shaping – What is it about?

- Improvement of current market or creation of new market
- The goal is to create a favorable business environment
- Market shaping requires deep understanding of the players and the mechanisms in the market and how to cooperate and influence them
  - Operational environment
  - Key stakeholders' and value chains' needs and expectations
  - Potential resistance
- Market shaping approach helps companies and ecosystem actors to produce a common roadmap and an implementation plan for the necessary activities, possible and feasible to influence and develop in the markets and operational environment

Facilitating sustainable growth



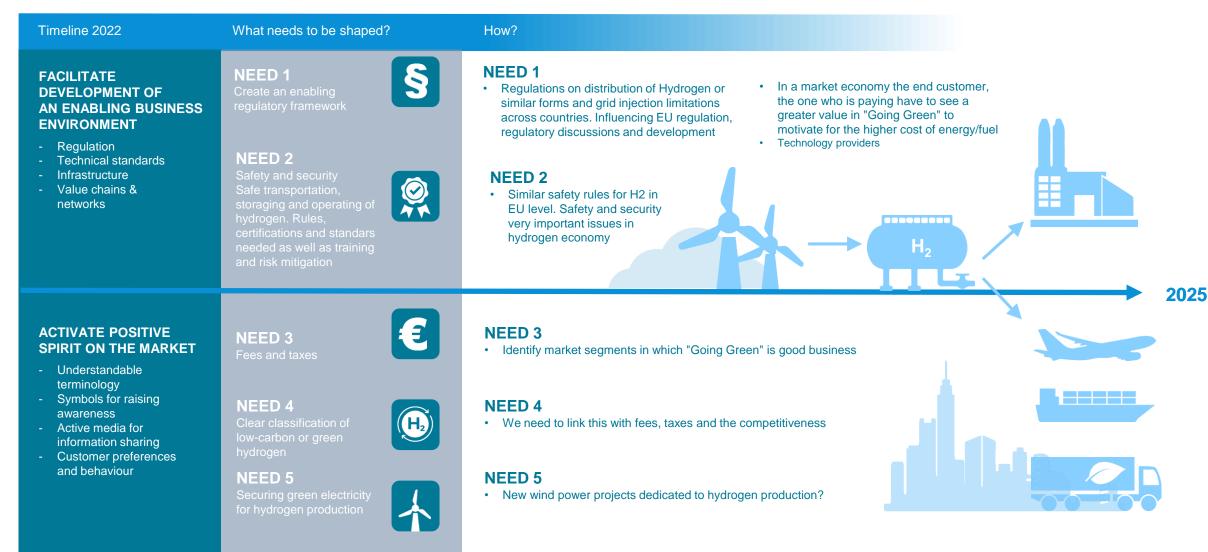






# H<sub>2</sub> PRODUCTION, INFRASTRUCTURE AND UTILISATION









Timeline 2022	What needs to be shaped?	How?
<ul> <li>FACILITATE DEVELOPMENT OF AN ENABLING BUSINESS ENVIRONMENT</li> <li>Regulation</li> <li>Technical standards</li> <li>Infrastructure</li> <li>Value chains &amp; networks</li> </ul>	NEED 1 Create an enabling regulatory frameworkImage: Second	<ul> <li>NEED 1</li> <li>Engage private sector in the preparation work of new legislation by e.g., co-producing policy recommendations and white papers with industries to support the public authorities in their work. Address key missing items or restrictions from the current regulation.</li> <li>Join relevant roundtables for regulation in Europe to influence EU-level regulatory discussions and development.</li> <li>NEED 2</li> <li>Take in best practices from international projects and create clear instruction for permitting for local authorities.</li> <li>Organize sharing and learning sessions with regions</li> <li>Engage industries and rescue services into co-creation and sharing of best practices</li> <li>Take in learnings from international projects</li> </ul>
<ul> <li>ACTIVATE POSITIVE SPIRIT ON THE MARKET</li> <li>Understandable terminology</li> <li>Symbols for raising awareness</li> <li>Active media for information sharing</li> <li>Customer preferences and behaviour</li> </ul>	NEED 4Create acceptance among general public	<section-header></section-header>



## SECTOR INTEGRATION TECHNOLOGIES **AND VALUE CHAINS**



#### Timeline 2022

FACILITATE

**BUSINESS** 

- Regulation

- Infrastructure

networks

- Value chains &

AN ENABLING

ENVIRONMENT

**DEVELOPMENT OF** 

- Technical standards

#### What needs to be shaped?

NEED 1

NEED 2

NEED 3

NEED 4

NEED 5

NEED 6

#### How?

#### NEED 1

• Research organizations: Value chain analyses, e.g., side streams, waste heat utilization, etc.

#### NEED 2

• Aggregators between the existing actors – every stakeholder should win

#### NEED 3

- RDI projects, promote digitalization
- IT startups based on utilization of big data, IoT, etc.

#### NEED 4

- · Digital platform, requires RDI.
- Smart EV charging as first step, V2G follows

#### NEED 5

Centralized / distributed heat pumps & storage

#### NEED 6

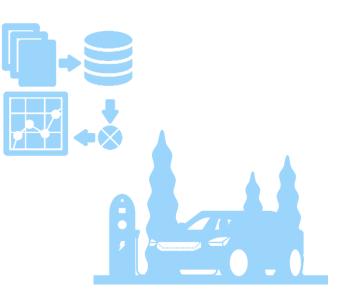
NEED 7

Messages to decision-makers. Big picture needed

• Easy to use products, market communication about benefits, practical examples

#### NEED8

- Demand-response, incentives to customers for using their premises / buildings as heat storage
- · EV-batteries as flexibility assets of the power grid
- Local energy communities & efficient urban solutions



GreenE2 Comms group + Energy industry associations

2025

#### **ACTIVATE POSITIVE** SPIRIT ON THE MARKET

- Understandable
- Symbols for raising awareness
- Active media for information sharing
- Customer preferences and behaviour

# **NEED 7**





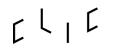
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# ENHANCED SYSTEM LEVEL EFFICIENCY, **RESILIENCE & SECURITY**



Timeline 2022

#### What needs to be shaped?

NEED 1

NEED 2

NEED 3

How?

#### NEED 1

- Develop standards eq. Gaia X
- Identify revenue generation streams and business models

#### NEED 2

Better collaboration with telecommuni-• cation researchers and energy experts

## NEED 3

E

Governance and regulations

#### NEED 4

Digital twin pilots for Finnish energy ecosystem

### NEED 5

• Platforms for integrating prosumers

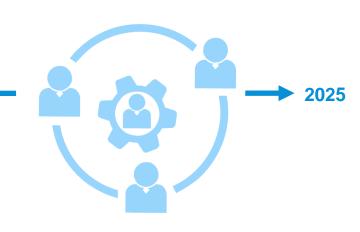
#### NEED 6

Usage of data for managing volatility

#### NEED 7

- Create a communication plan and • strategy for prosumers
- Models for forecasting consumption, production and pricing





#### FACILITATE **DEVELOPMENT OF AN ENABLING BUSINESS** ENVIRONMENT

- Technical standards

- Value chains &

NEED 4

NEED 5

NEED 6

NEED 7

#### **ACTIVATE POSITIVE** SPIRIT ON THE MARKET

- Understandable
- Symbols for raising
- Active media for information sharing
- Customer preferences and behaviour