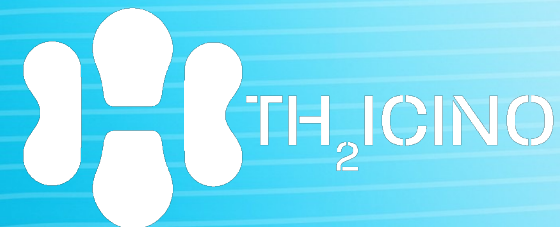


# TH2ICINO

## Introduction for Offtakers



November 2025



**Towards H<sub>2</sub>ydrogen  
Integrated Economies**



# TH2ICINO – Clean Hydrogen Partnership

(Towards *H*2ydrogen *I*ntegrated *e*conomies *I*n *N*orthern Italy)

## General information

<b>Duration:</b>	4 years (from Sept. 2023 to Sept. 2027)
<b>EU granted budget:</b>	7.4 M€
<b>Total investment:</b>	18.5 M€
<b>Coordinator:</b>	RINA
<b>Partners:</b>	9 partners from 4 countries



## Scope of work

TH2ICINO aims to develop an **Airport-centered Hydrogen Valley at Malpensa**, integrating a **5MW PEM electrolyzer** for hydrogen production and distribution via truck.

The project focuses on **ground mobility, Hydrogen Refueling Stations (HRS)** in airport context developing a **Master Planning Tool (MPT)** to financially derisk hydrogen projects and support **expansion and replication across Italy and the EU**.



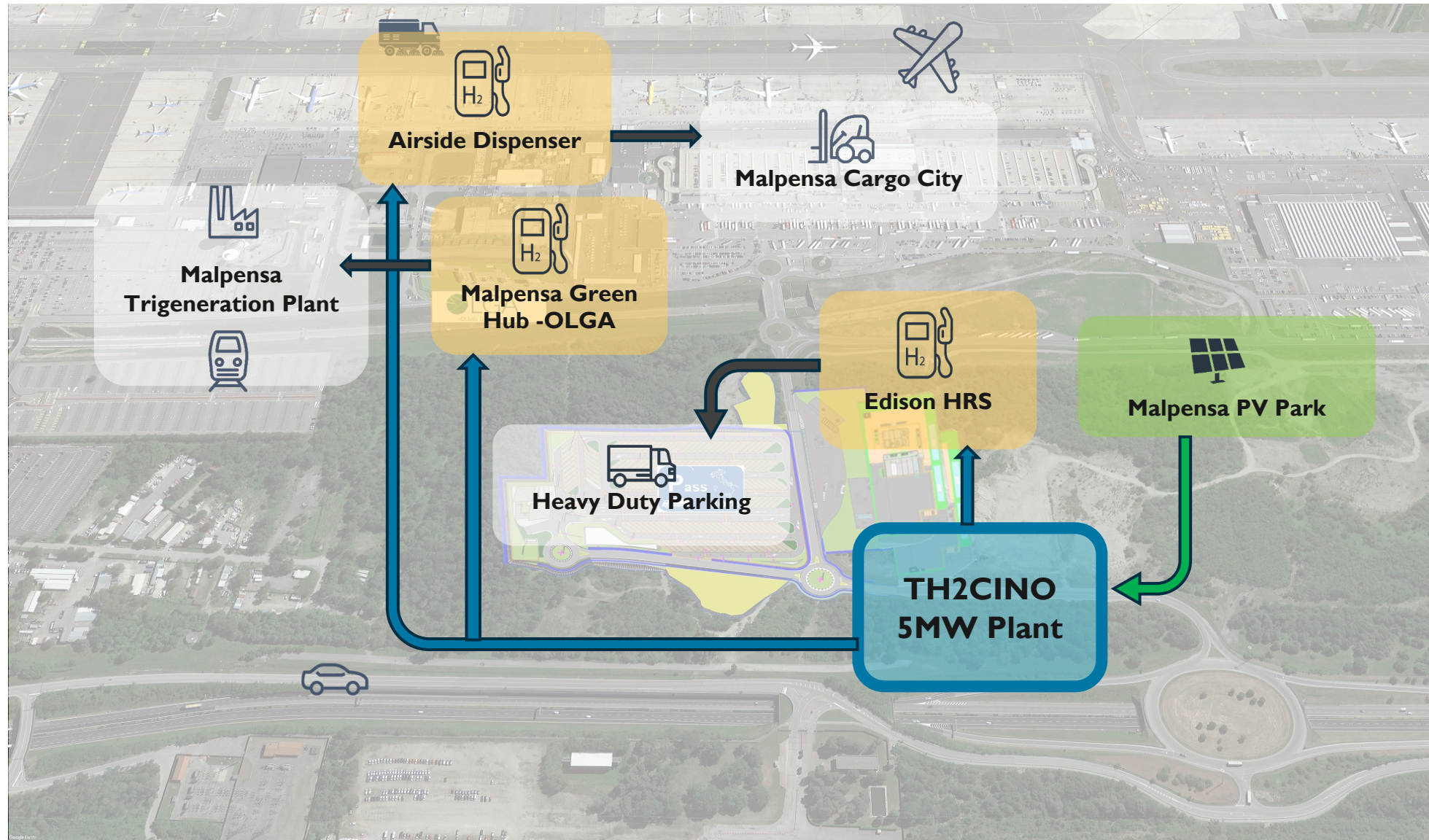


# TH2ICINO – Site





# TH2CINO – Site



# TH2ICINO – Objectives



**4400 tCO<sub>2</sub>/y**

*Equivalent to tons of  
CO<sub>2</sub> per year from  
1500 cars*

**DECARBONIZATION**



**500 tH<sub>2</sub>/y**

*Boosting the H<sub>2</sub> market*

**HYDROGEN  
PRODUCTION**



**> 2 sectors  
decarbonized**

*Mobility and Hard to  
abate sectors*

**DIVERSIFICATION**



**Airports**

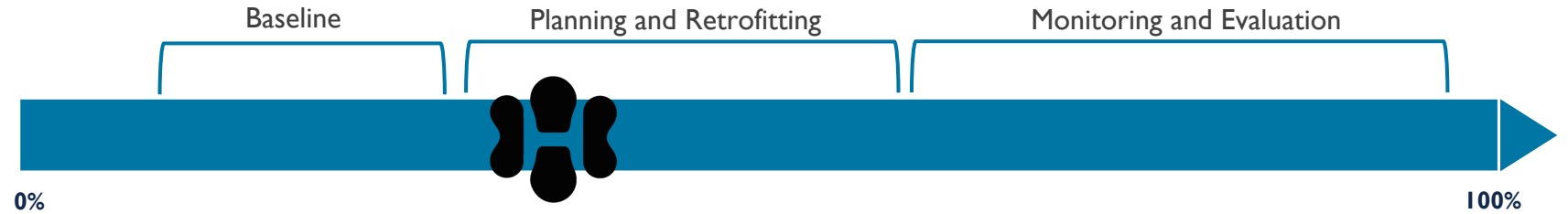
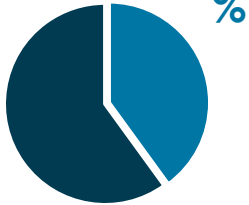
*Strategic sector coupling  
for EU Green Airports  
2030 strategy.*

**TRAINING**

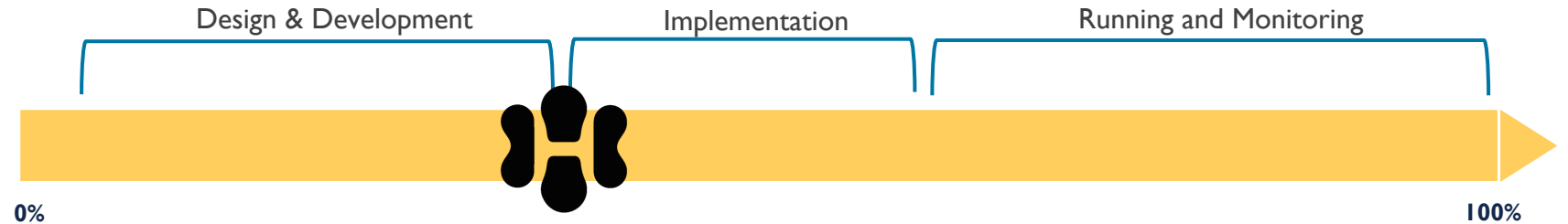
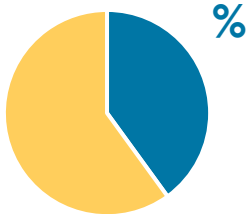


# TH2ICINO – Project timeline

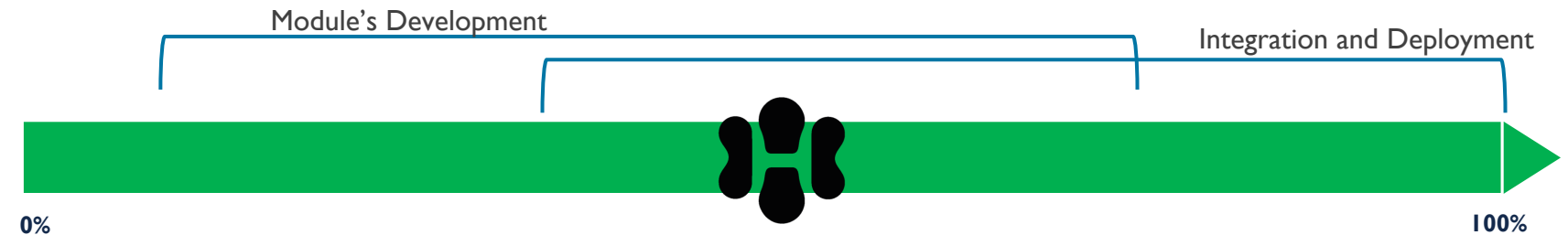
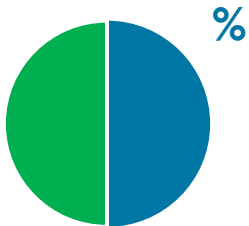
## Airport Ground Support Equipment (GSE)





## Hydrogen Ecosystem



## Master Planning Tool



# TH2ICINO – Current status and next steps

	Airport GSE	Hydrogen Ecosystem	MPT
Current status	 <b>Ongoing analysis on first vehicle to be retrofitted</b>  <b>Open discussions with other GSE suppliers</b>	<b>Offtakers engagement increasing</b>  <b>Starting of Masterplan modification procedure</b>	<b>Core modeling and optimization</b>
Next steps	 <b>Begin the retrofitting activities</b>	<b>Expand Off-taker commitment</b>  <b>Conclude Masterplan modification and permitting</b>	<b>Integration on TH2ICINO Valley input</b>



# MOBILITY





# MOBILITY – Regulatory Milestones & Market Outlook

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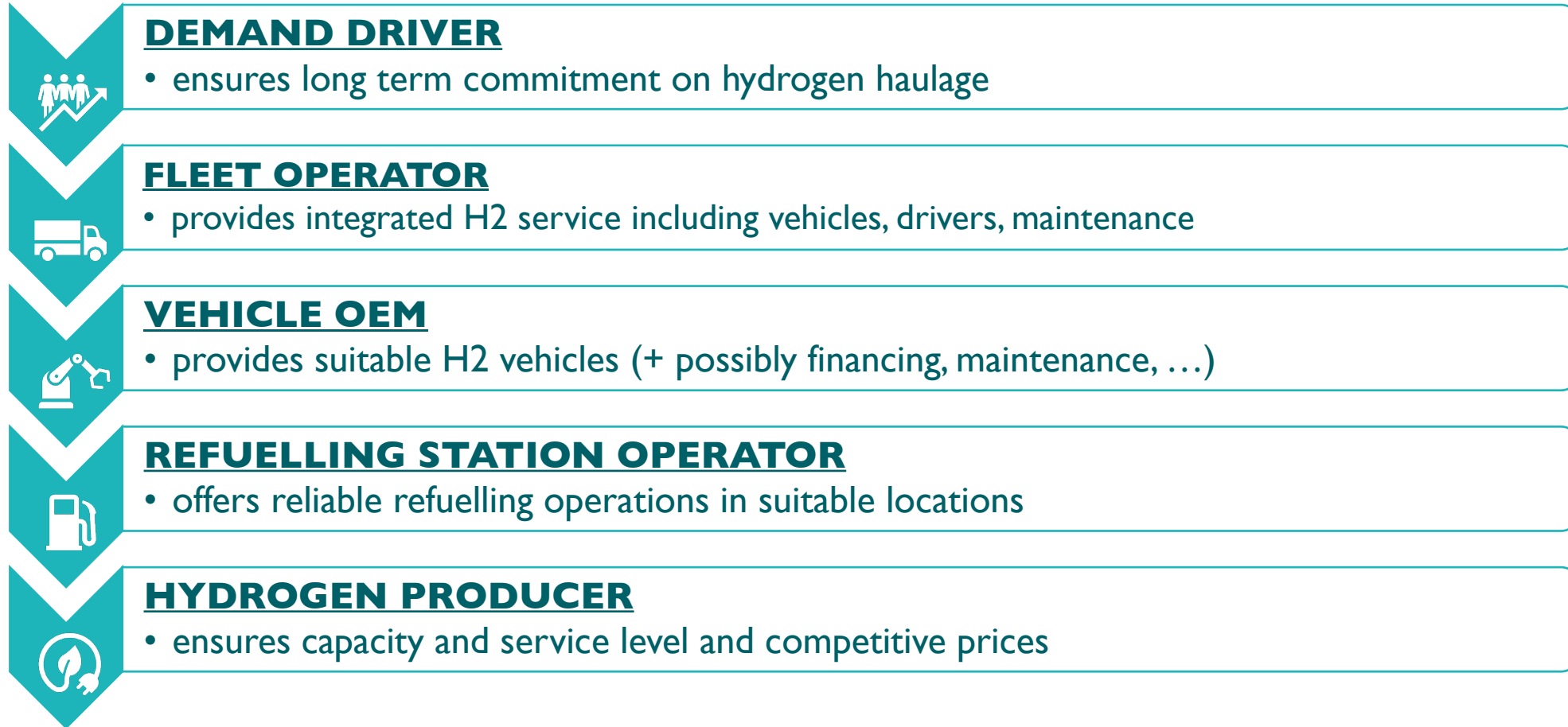
## What are the European and National targets for hydrogen vehicles?

- **RED III:**  
*42% RFNBO hydrogen in industry and 1% in transport by 2030*
- **AFIR:**  
*Hydrogen refueling stations every 200 km along the TEN-T network by 2030*
- **Market Outlook:**  
*≥1,000 HRS and ~45,000 hydrogen trucks in Europe by 2030*
- **Italian National H2 Strategy:**  
*2040-2050 up to 30% of energy for heavy transport*



# MOBILITY – Your contribute in the holistic approach

Joint forces is highly required:

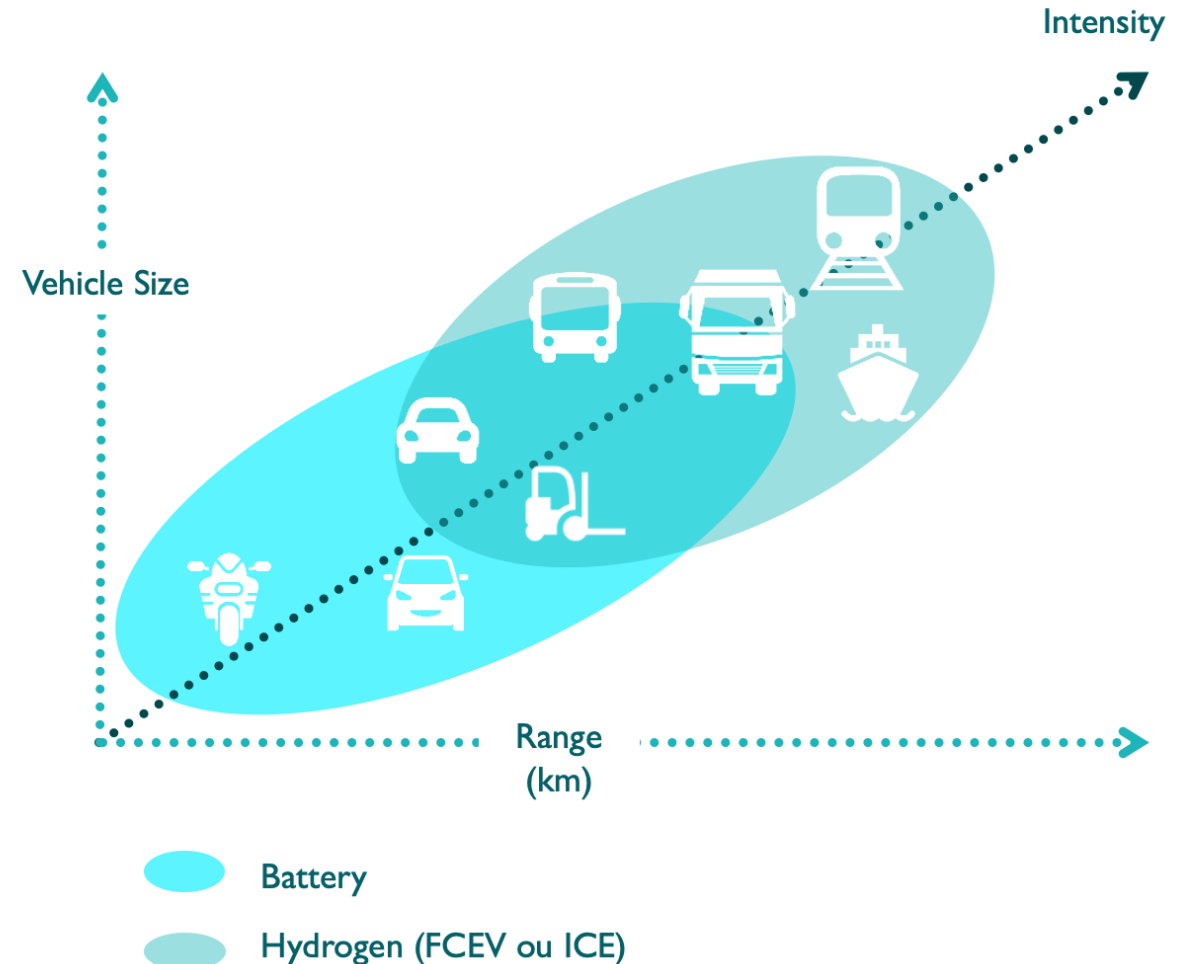




# MOBILITY – Hydrogen vs. Batteries: it's “and”, not “or”

## What are the best targets for hydrogen vehicles?

- Heavy Duty Mobility
- Intensive Use / High Availability
- Long Range required
- Fast refueling required
- Lack of grid power



# INDUSTRY





# INDUSTRY – Regulatory Milestones & Market Outlook

## ▶ What are the European and National targets for H2 based industries?

- **RED III:**  
*42% RFNBO hydrogen in industry and 60% by 2035*
- **Clean Hydrogen Observatory industrial hydrogen demand 2030:**  
*Up to 4–6 Mt/year for Europe and 0.1 / 5 Mt/year for Italy*
- **EU Hydrogen Strategy / REPowerEU:**  
*Target production of 10 Mt H<sub>2</sub> by 2030*
- **Italian National H2 Strategy:**  
*2040-2050 up to 18% of industrial energy*



# INDUSTRY – Regulatory Milestones & Market Outlook

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## ► Some Italian industries which are already using green H<sub>2</sub>

- **Italgas / Edison Energia / Granarolo**

Food processing, Sardinia, pilot blend of up to 20% green H<sub>2</sub>

- **Italgas (Hyround project)**

Energy / gas distribution; Sardinia; initial target of ~21 t H<sub>2</sub>/yr

- **Sapio / ECO+ECO (Porto Marghera)**

Hydrogen production & logistics hub; Veneto; around 500 t H<sub>2</sub>/yr planned.

- **Feralpi Siderurgica**

Steel production, Brescia, green H<sub>2</sub> use for decarbonisation of processes.







# THANK YOU!

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