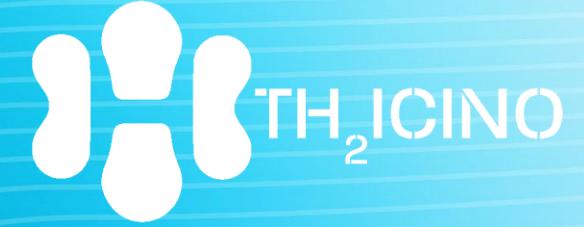


# TH2ICINO

## Introduction for Offtakers



Towards H2ydrogen  
Integrated Economies

# TH2ICINO – Clean Hydrogen Partnership

(Towards H2ydrogen Integrated eConomies In NOrthern 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



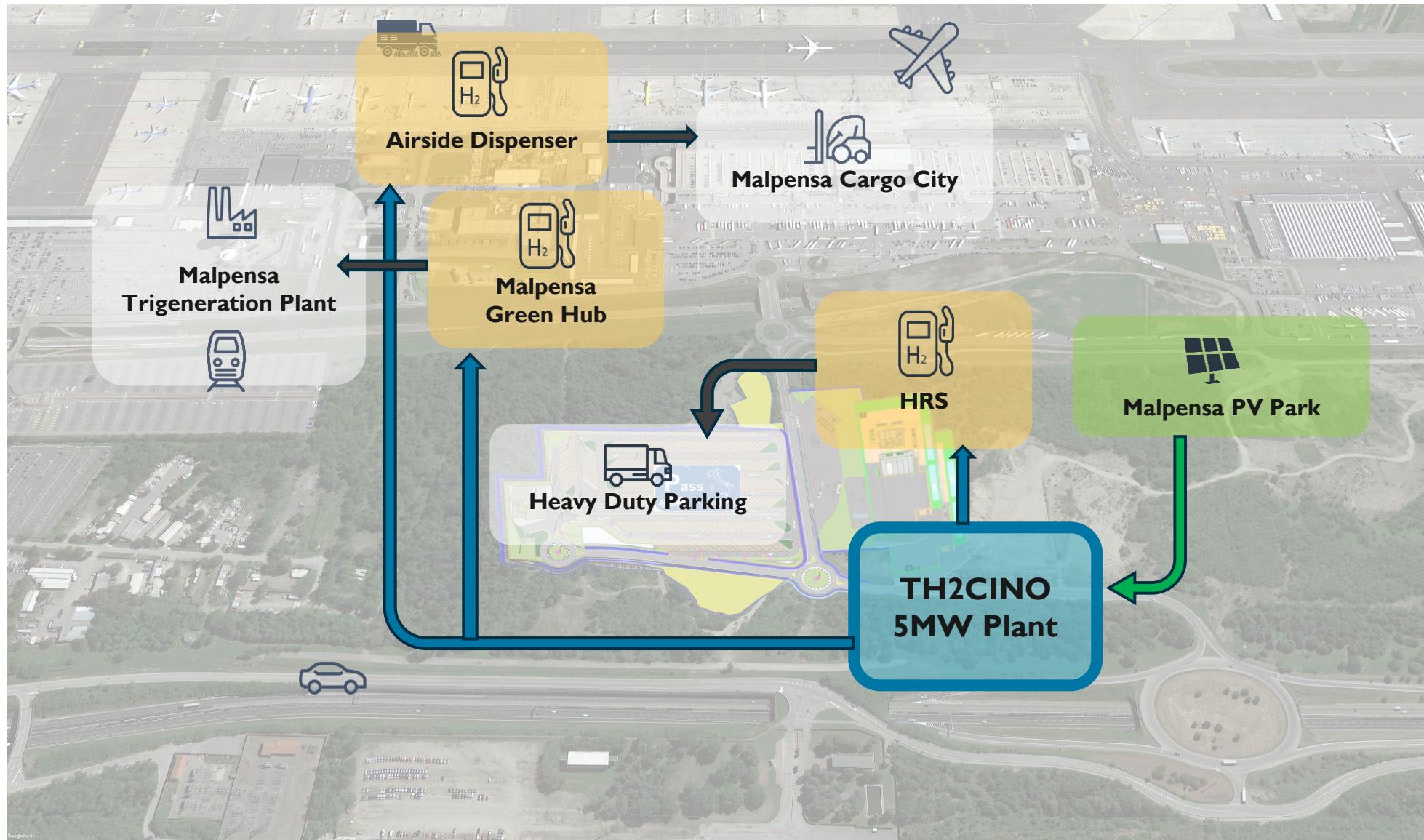
## Scope of work

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 **Hydrogen utilization in different sectors such as industry and ground mobility in airport context**, developing also a **Master Planning Tool (MPT)** to financially derisk hydrogen projects and support **expansion and replication across Italy and the EU**.



# TH2CINO – Ecosystem



# 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**

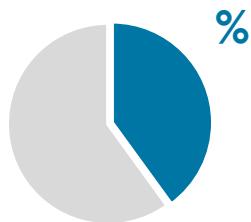
*Strategic sector coupling for EU Green Airports 2030 strategy.*

**TRAINING**



# TH2ICINO – Project timeline

## Airport Ground Support Equipment (GSE)



Baseline

Planning and Retrofitting

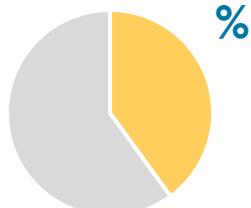
Monitoring and Evaluation

0%

100%



## Hydrogen Ecosystem



Design & Development

Implementation

Running and Monitoring

0%

100%



## Master Planning Tool



Module's Development

Integration and Deployment

0%

100%



# TH2ICINO – Current status and next steps

Current status



## Airport GSE

- Ongoing feasibility analysis
- Open discussions with retrofitters and GSE suppliers

## Hydrogen Ecosystem

- Increasing offtakers engagement
- Masterplan modification procedure and permitting activities

## MPT

- Core modules modeling and optimization

Next steps



- Begin the retrofitting activities

- Expand Off-taker commitment
- Conclude Masterplan modification and permitting

- Integration in the model and validation of TH2ICINO input





# GRAZIE!

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