

## Welcome to the TH2ICINO newsletter!

Dear readers,

We are thrilled to share with you the very first edition of the TH2ICINO newsletter.

Over a year has passed since the project began and we are excited to bring you updates on our progress and results.

But first, do you remember what TH2ICINO is about? We are laying the foundation for **an ecosystem dedicated to producing, storing, distributing, and utilizing hydrogen in Northern Italy, in the vicinity of Malpensa Airport.**

[Watch this short video](#) to refresh your memory:



Where are we now?

► **Planning and design of the hydrogen valley** - Partners have spearheaded efforts in conceptualizing the Valley's infrastructure, including regulatory studies, green energy cost analysis, and hydrogen production modeling. Plans include the installation of a 5-MW electrolyzer capable of producing approximately 76 kilos of green hydrogen per hour. This will support both sustainable mobility (30 kg/h) and industrial needs (40 kg/h). Three production scenarios have been developed, integrating photovoltaic energy and grid electricity to optimize costs and meet the goal of hydrogen price below €4.5/kg.

► **Safety and permits** - We are developing an integrated safety plan while obtaining necessary permits for the Valley at Malpensa Airport, with construction set to begin in the second half of 2025.

► **Vehicles retrofitting** - We are analyzing airport buses and ground vehicles to identify the best candidates for hydrogen retrofitting, like *Ambulifts* and *Pushbacks*.

► **Manufacturing industry engagement** - Local partners in the province of Varese are engaging stakeholders, particularly manufacturing companies in hard-to-abate sectors, to ensure sufficient hydrogen demand.

► **Master Planning Tool** - We are creating a decision-support tool to guide the development of TH2ICINO and replicate its success in other regions.

[For more details read here.](#)

We are excited to continue this journey with you towards a more sustainable future.

Since we're here, happy holidays!

Warm regards,

The TH2ICINO Team



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