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Alpine Space



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H2MA

The evolution of CLEAN HYDROGEN



Perspectives from
production to use
in mobility and
industry

29th of October 2025
Venezia Heritage Tower
(Marghera, Venice)



A Transalpine Hydrogen Routes plan for Torino Metropolitan Area and western Alps regions

H2 infrastructures investment coordination amongst France, Italy and Swiss Alpine Regions

CITTA METROPOLITANA DI TORINO – dott. Giuseppe ESTIVO



Metro City of Torino – H2MA Challenges



1. Increase the capacity-building of the staff in the Sustainable Mobility Office on hydrogen topics-based logistics and transport systems in the CMTO area, with a view to reducing carbon emissions and contributing to improved air quality, through the adoption of a Sustainable Urban Logistics Plan for the Metropolitan City of Turin (PULS), with a particular focus on local public transport.
2. To develop transalpine hydrogen routes in synergy with investments made in neighboring regions (AURA - FR, Vaud – CH, Lombardy IT, Valle d'Aosta – IT, and Liguria – IT) along the TEN axes crossing the Piedmont region and to develop a hydrogen strategies to be included in the CMTO Sustainable Logistics Plan
3. Definition of an alliance with stakeholders to continue the work after the H2MA project

Increase the capacity-building



Thanks to the H2MA project, the Metropolitan City of Turin has been able to equip itself with sustainable logistics tools that have enabled it to include the topic of “hydrogen” in its mobility planning tools.

The construction of a hydrogen refueling station in Turin is a key element in decarbonizing long-haul logistics, which currently has a significant impact on local systems in terms of the number of vehicles and emissions.

Furthermore, thanks to the dialogue and discussion established with project partners, local stakeholders, and neighboring Alpine regions, it has been possible to identify complementary and synergistic investment needs that will make it easier to comply with European regulations and accelerate the development of hydrogen logistics in the Alps.



Transalpine H2 Routes in Alps - update fall 2025

Today, three HRS are expected to be activated in the southwestern part of the region (Casale Monferrato, Tortona, Arquata).

Investments by the AURA region (Lyon, Grenoble, Annecy, Chambéry), Vaud (Lausanne, Switzerland), and Lombardy (Arluno, Rho, Malpensa, Milan) have been confirmed.

Based on the tool developed within the H2MA project, it has been determined that there is a need to construct at least two hydrogen refueling stations to serve heavy-duty transport.

This strategy will be incorporated into the development measures of the Sustainable Logistics Plan.



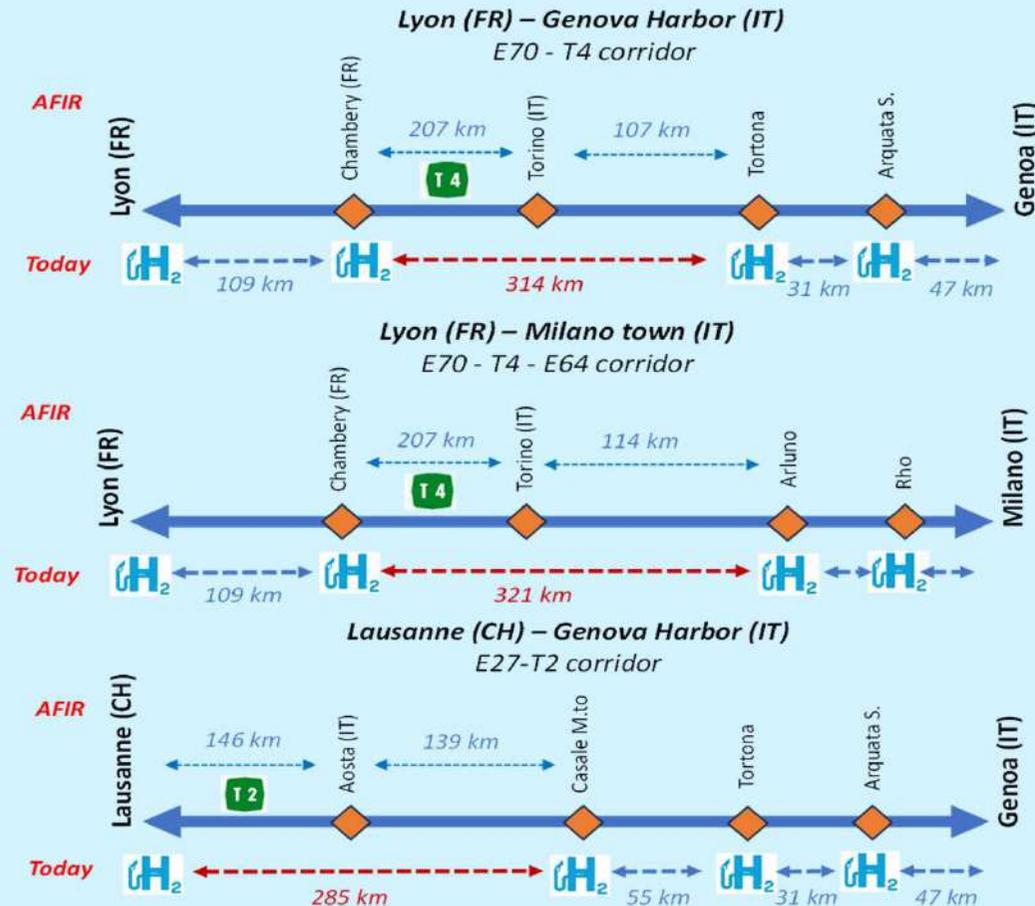
Accomplishing AFIR regulation obligations – new HRS needed

The AFIR regulation requires the construction of an HRS station every 200 km on TEN road corridors and in the main urban areas crossed by them.

At least one HRS station in Turin and the reopening of the HRS in Aosta would be necessary.

Heavy vehicle traffic in Piedmont, averaging 9,600 per day in Turin along the Lyon-Milan corridor, is an incentive to make these investments.

Further investments could be envisaged in southern Piedmont (Cuneo) for the connection with the container port of Vado (COSCO hub) and the PACA-FR region.



CMTO SULP and stakeholder engagement

This strategy will be incorporated into the development measures of the Sustainable Logistics Plan. Engagement of stakeholders through the signing of the MoU and the MoC



Engagement of stakeholders through the signing of the MoU and the MoC





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Giuseppe ESTIVO

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<http://www.cittametropolitana.torino.it/cms/europa-e-cooperazione/sez-eu/progetti-europa/progetti-eu-2021-27/progetto-h2ma%20>