

GAINN4MED

Meeting of the Scandinavian-Mediterranean Core Network Corridor

24 June 2021

*Ministry of Sustainable Infrastructures and Mobility - Directorate General for Port Authorities
Supervision and Maritime and Inland Waterways Transport*



ITALY AND CEF TRANSPORT PROJECTS

The **Connecting Europe Facility (CEF)** has been supporting the construction of infrastructure for alternative fuels since 2014, by co-financing several projects with the common goal of pursuing the **decarbonisation of transport**. The support mainly concerned recharging/refueling stations, but also storage, adaptations of terminals for bunkering operations, LNG supply networks and small-scale production units.

According to EC's latest report "State of the art on alternative fuels transport systems in the European Union" (2020), in total, 131 projects have received grants for over 983 million euros, in the face of 3.26 billion euros of total generated investments, expecting to deliver along the TEN-T core network approximately 12,000 charging points for electric vehicles, 275 LNG filling stations, 424 for CNG and 51 for Hydrogen.

Italy has actively and successfully participated in all the calls for proposals launched since 2014.

Within the 2014-2020 CEF programme, 90 actions involving Italian beneficiaries or entities operating in Italy have already been approved by the Commission, for a total of 1.6 billion euro of co-financing, against over 4 billion euro of planned investments.

These also include the projects of the **GAINN_IT Initiative**, promoted by MIT and co-financed by the CEF as a "Global Project" – meaning a broad and defined project, made up by technically and financially separated Actions that contribute to the achievement of a common and complex objective.



THE GAINN4MED PROJECT AT A GLANCE

Co-funded by CEF Transport Call 2016 and **coordinated by MIT DGVPTM**, GAINN4MED is a study project with pilot interventions that aims to support the diffusion of LNG in Italy in a market start-up phase, contributing to the decarbonisation of road transport through the transition to innovative and sustainable technologies.

The Action, through its activities, covers the construction of C-LNG refuelling points in strategic nodes of the TEN-T core network, the test of the intermodal logistics chain by ISO containers, the analysis of the possible use and deployment of Bio-LNG, the voluntary training of operators of the GAINN4MED's network and the development of a Business Plan in a medium and long-term scenario.

PROJECT'S MAIN FIGURES

Duration: 03/2016 – 09/2020

Total Budget: 9,300,000 Eur

% CEF co-financing: 50%

2 TEN-T Corridors:

- ✓ Mediterranean
- ✓ Scandinavian-Mediterranean

MAIN ACTIVITIES

Realization of C-LNG refuelling points

Real life trials & logistics

Study of the Bio-LNG supply chain

LNG voluntary training platform for road transport

PARTNERS COORDINATED BY MIT



THE GAINN4MED PROJECT: ACTIVITIES AND RESULTS

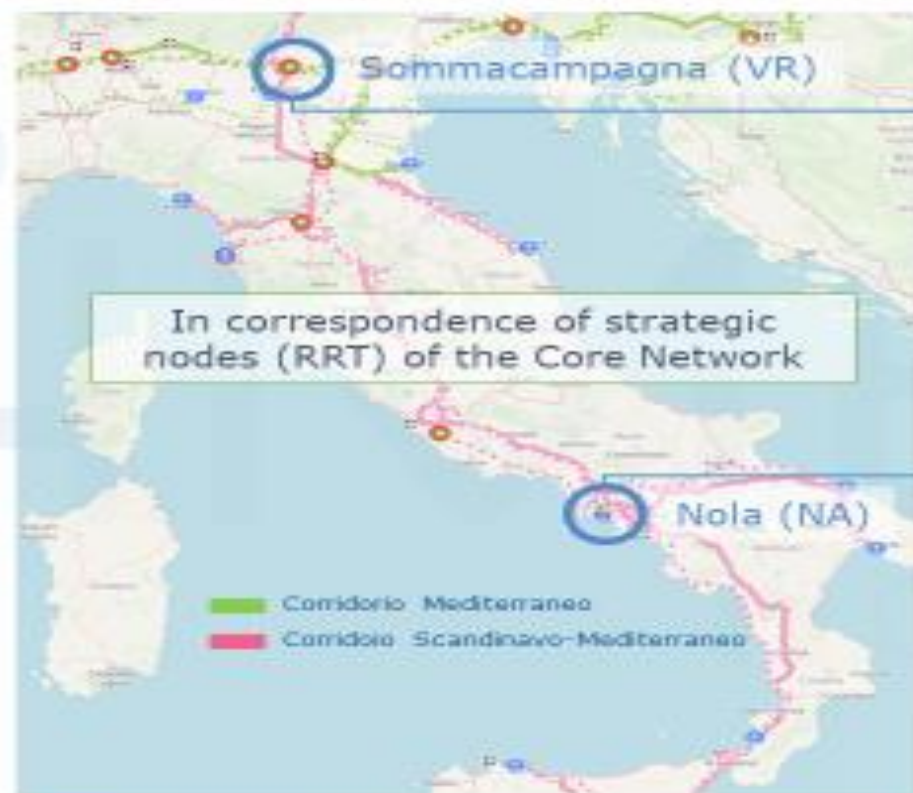
SPECIFIC OBJECTIVE: to start a progressive development of the Italian network of C-LNG refuelling stations for road transport and to overcome the lack of LNG infrastructures in the central-southern area of Italy guaranteeing at the same time the cross-border continuity in the Alpine passages.

Realization of C-LNG stations for autotractor

Real life trials and logistics

Bio-LNG Supply Chain Study

Competence Platform for LNG in Road Transport



RISULTATI E PARTNERS COINVOLTI



 **DALLA BERNARDINA** s.r.l.
FUEL SERVICE



 **ecos**



Cofinanziato dal meccanismo per collegare l'Europa dell'Unione europea

Activity 1

Elimination of bottlenecks in the supply of LNG to central and southern Italy and peripheral areas, through the construction of 6 L-CNG refuelling points at the following hubs of the Core Network: Verona, Prato (Florence), Nola (Naples), Bari, Messina and Cagliari with three safety zones (Marcianise (NA), Melzo (MI) and Padua)

Activity 2

Creation of innovative solutions based on LNG through:(a) the purchase and commissioning of multimodal cryogenic ISO Containers to support the stations envisaged in Activity 1b) the creation of security zones for the storage and emergency management of ISO containers, c) expand the use of LNG by contributing to the creation of an appropriate demand by developing a fleet of LNG-powered heavy vehicles.

Activity 3

Preparation of a business plan based on the experimentation in real situations of LNG solutions, with reference to the stations, the mobile logistics chain and the fleet of heavy vehicles

Activity 4

Promotion of the use of Bio LNG.To achieve the objective, guidelines and models for the use of Bio LNG will be developed and tests will be carried out in real situations.

Activity 5

Development of skills to carry out operations and use of LNG, through the creation of a learning platform for road operators

Activity 6

Dissemination and awareness

OUTCOMES

Realization of C-LNG stations for autotractor

Procedures for authorizations led to significant delays in the construction of roadside refueling stations and related activities. Moreover, during 2020 the COVID 19 pandemic certainly did not help.

The final outcome of the project was the construction of the stations of Sommacampagna (Veneto) and Nola (Campania). TEN-T Core network has new infrastructure assets to support the the decarbonisation of heavy transport

Real life trials e logistics

A first LNG intermodal logistics test has been carried out in the Mediterranean.

Operational Trials of the first GAINN4MED station were conducted and GAINN4MED Business Plan data were collected

Bio-LNG Supply Chain Study

The guidelines for the definition of the intermodal logistic chain of the Bio-GNL intermodal logistic chain aligned with the latest developments on requirements and incentives at national level

Competence Platform for LNG in Road Transport

The training needs of the GAINN4MED network have been defined through the elaboration of LNG courses intended as a voluntary supplement to mandatory training.

An innovative open source platform has been created for the online use of LNG courses for GAINN4MED network operators.

THANK YOU FOR YOUR ATTENTION

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For more information, please write to

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