

Intelligent Transport Systems (ITS) for Road

Intelligent Transport Systems (ITS) are essential to achieving the EU's vision of seamless transport for both passengers and freight. The availability of 'open' and high quality transport data will provide substantial improvements in performance of transport networks, operations and services, whilst fostering their connectivity and facilitating collaboration.

In recent years ITS have been playing a crucial role to achieve the EU objectives for transport safety and sustainability. ITS services are now widely used across Europe and they drive transport efficiency at both local and international levels.

When ITS are applied to road transport, also linking it with other modes, they increase safety and capacity through higher interoperability and better use of the existing infrastructure, with subsequent financial and environmental benefits.

Through the harmonisation and continuity of pan-European services across Member States, ITS contribute substantially to the creation of the single European Transport Area.

EUROPEAN UNION FUNDING for ITS

ITS projects receive European support from a number of different sources. Two of these are directly managed by the European Climate, Infrastructure and Environment Executive Agency (CINEA):

Connecting Europe Facility

CEF Transport supports trans-European infrastructure and new technologies. CEF has already provided over EUR 500 million of funding for ITS, triggering investments of more than EUR 1.3 billion for the deployment of ITS and C-ITS services in Europe. The EU will continue to make ITS one of its priorities in the future, in line with its commitment to making the road sector safer, greener and more competitive through smart solutions.

> 2021-2027 CEF budget for transport:
EUR 25.8 billion

> look for CEF & H2020/HE in [CINEA's Website!](#)

Horizon 2020 / Horizon Europe

Since 2014, CINEA has supported transport and energy R&I projects with a total budget of EUR 6.7 billion from Horizon 2020, the EU's R&I programme for 2014-2020, of which EUR 98 million available for ITS projects. In 2021-2027, CINEA implements Cluster 5 'Climate, Energy and Mobility' from the new Horizon Europe programme. ITS research and innovation activities are mainly included in Destination 6, within the areas of Multimodal and Sustainable Transport Systems for passengers and goods, and Cooperative, Connected and Automated Mobility (CCAM).

> 2021-2027 Horizon Europe's Cluster 5
(Climate, Energy, and Mobility) budget:
EUR 9.6 billion



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Intelligent Transport Systems (ITS) for Road

CEF ITS

The Connecting Europe Facility supports the implementation of ITS Corridors and the deployment of harmonised Cooperative Intelligent Transport Systems (C-ITS) services across the EU. It also contributes to the implementation of EU policies and regulations (i.e. the ITS Directive and its delegated acts), for example the eCall service.

Interoperable and seamless ITS services imply a continuous cooperation among EU Member States and other stakeholders, technical harmonisation, and investments in ITS infrastructures that are stimulated and supported by CEF funding managed by CINEA.

C-Roads

The C-Roads platform is a joint initiative of European countries and road operators which are testing and installing C-ITS services.

The C-Roads platform supports the deployment of C-ITS services (along highways and in urban areas) ensuring they are all harmonised and interoperable across all the countries involved. C-ITS services improve significantly the safety and efficiency of road transport, thus contributing to the Green Deal objectives and helping cities to address the problems associated with growing urbanisation.

There are already [more than 2,000 C-ITS stations in operation!](#)

The project deploys ITS services to improve the efficiency and safety of freight traffic and foster digitalisation of the mobility system along the Scandinavian-Mediterranean and North Sea-Baltic TEN-T Corridors, covering metropolitan areas in Germany, Italy, The Netherlands, Belgium, Ireland and Latvia. The project will further expand digital infrastructure, roll-out C-ITS, remove bottlenecks on open roads and tunnels and implement digital corridor management as well as multimodal services. It will ultimately increase traffic safety, reduce congestion and environmental pollution.

Funding:
EUR 65.7 million

January 2021 → December 2025

MERIDIAN

I HeERO & sAFE
eCall (emergency call from vehicles) is a mandatory safety system that will reduce the number of fatalities as well as the severity of injuries caused by road accident. These two projects ensure that the European public emergency Services (PSAPs) are able to handle eCalls across Europe and that vehicles can be retro-fitted with this system.

I HeERO Funding:

EUR 13.1 million

January 2015 → March 2018

sAFE Funding:

EUR 2.7 million

January 2019 → December 2021

TANGENT
TANGENT is improving knowledge on multimodal transport flows and innovative mobility solutions in cities. The project is developing new tools for optimising traffic operations in a coordinated way, considering both automated and non-automated vehicles, passengers and freight transport. TANGENT solutions will help pilot cities achieve reductions in travel times, CO2 emissions and accidents, and increase uptake of public transport and active modes.

Funding:
EUR 4.8 million

September 2021 → August 2024

TANGENT

PODIUM
PoDIUM defines automated road transport use case scenarios for developing a set of key physical and digital infrastructure (PDI) technologies. Standardised C-ITS messages will be integrated to support advanced functionalities, while new designs of Road Side Units and On Board Units will allow advanced environmental modelling and digital twins based on locally generated data. Overall, this will help achieve higher levels of automation.

Funding:
EUR 9 million

October 2022 → September 2025

PODIUM

H2020 | Horizon Europe

Horizon 2020 funded ITS research and innovation projects covering a broad spectrum of topics such as network and traffic management, ticketing, parking management, door-to-door travel information and Mobility as a Service (MaaS).

In Horizon Europe, ITS topics aim to support the upgrade of the transport system in order to better respond to global challenges such as climate change, environmental hazards, digitalisation and cyber security.

MOBIDATALAB

MobiDataLab aims to foster the sharing of data amongst transport stakeholders. It develops both a knowledge base and a cloud solution aimed at improving the findability, accessibility, interoperability and reusability of mobility data. These assets will help entities bound by ITS Directive-based Commission Regulations to meet their obligations on data sharing, such as data accuracy and neutrality obligations.

Funding:
EUR 3 million

February 2021 → January 2024