



EGNOS
in dangerous
goods
transport

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EGNOS
in dangerous
goods
transport



is a European Research & Development project
co-financed by the European Commission
through the FP7 funds and managed
by the European GNSS Agency

SCUTUM

is the European best practice
for the operational adoption
of EGNOS services
in the transport of dangerous goods
by road





EGNOS

is the European
Geostationary
Navigation
Overlay Service

EGNOS

improves the GPS position accuracy
and provides integrity information
over Europe and the Mediterranean area





EGNOS for road transport

Position accuracy enhancement

EGNOS Open Service enhances GPS position accuracy by 3 metres, and is free to users via the satellites' signal

EGNOS Commercial Service is distributed by the EDAS¹ server to professional users via terrestrial networks

EGNOS Commercial Service enables to augment the performances of the EGNOS Open Service by improving the availability of the EGNOS Open Service, and enhancing GPS position accuracy by 4 metres

Confidence in the position information

EGNOS Commercial Service enables to qualify and guarantee the GPS position information by exploiting the EGNOS integrity

GPS/EGNOS-enabled receivers are available for the mass-market and professional/automotive applications



¹ EGNOS Data Access Service

EGNOS

added value for the road transport of dangerous goods

Reliable tracking & tracing

using EGNOS Open Service and EGNOS Commercial Service

More precise localization

with respect to GPS alone

Guaranteed positioning

High safety and efficiency

Interoperability with Galileo

The European market of dangerous goods transport

About 77.000 million tonne-kilometres
of dangerous goods via road
in Europe in 2010²

About 60.000 million tonne-kilometres
of dangerous goods via rail
in Europe in 2010³





SCUTUM

the European
EGNOS best practice
for the transport
of dangerous
goods by road

2009

eni, a leading oil company, and the Ministry of Transport in Italy consider EGNOS Open Service and EGNOS Commercial Service to bring added value in operational use

2010

eni starts a stepwise adoption of EGNOS for the remote monitoring of tankers transporting dangerous goods in Italy

2011

more than 300 eni tankers transporting hydrocarbon and chemical products in Europe (Italy, France, Austria, Slovakia, Hungary, Romania, Czech Republic) are monitored with EGNOS Open Service and EGNOS Commercial Service

From 2011 onwards

eni plans to extend the use of EGNOS to the entire fleet and to other European countries



SCUTUM standardization

SCUTUM developed a technical standardization through a CEN⁴ Workshop

The CEN Workshop Agreement SCUTUM specifies the standard for the implementation of products and applications based on EGNOS Commercial Service

The Ministries of Transport in Italy and France validated the CEN Workshop Agreement SCUTUM, as part of a shared vision for EGNOS adoption and exploitation

SCUTUM snow-ball effect

ITS Directive

The Ministry of Transport in Italy is evaluating the compulsory use of EGNOS for the tracking & tracing of dangerous goods by road, in the frame of Italy's regulation implementing the European ITS Directive

National standard

The Ministry of Transport in Italy is exploring the possible evolution of the CEN Workshop Agreement SCUTUM into an Italian standard

Heavy Goods Vehicles

The French "éco-taxe poids-lourds" will be implemented by means of an EGNOS enabled satellite navigation system

Rail

eni considers the extension to the transport of dangerous goods by rail as a further step



SCUTUM
11 members
4 European countries

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