

From MENTORE to SCUTUM: Towards the use of EGNOS for the management of the dangerous goods transports



EGNOS for dangerous goods transports



Outcomes from various R&D projects demonstrations:

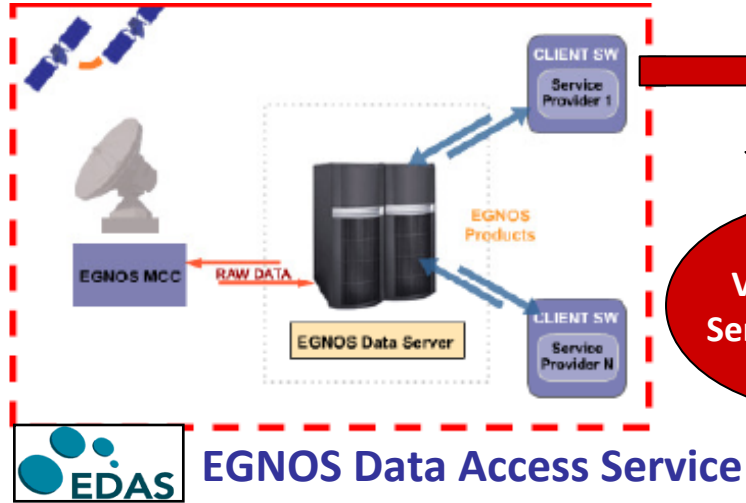
- EGNOS for land applications: **combination of EGNOS OS (i.e. from SiS) and EGNOS CS (distributed via EDAS)**
- Target: **professional/ regulated markets** in road and freight transport
- Priority: **tracking & tracing services for dangerous goods transports**

EGNOS benefits for dangerous goods transports:

- EGNOS OS → Better accuracy
- EGNOS CS/EDAS → Higher confidence/guarantee on position
Enhanced availability
- Adding value to GPS now, and preparation to Galileo

State of play of EGNOS use for dangerous goods transport

- **Needs and interest** of end-users and institutions
- **EGNOS OS adopted** in nation operational best cases
- **EGNOS CS/EDAS pre-commercial solutions** available and validated



EGNOS data (real-time):

- RIMS raw observations
- SBAS messages

Value-Added Service Provider



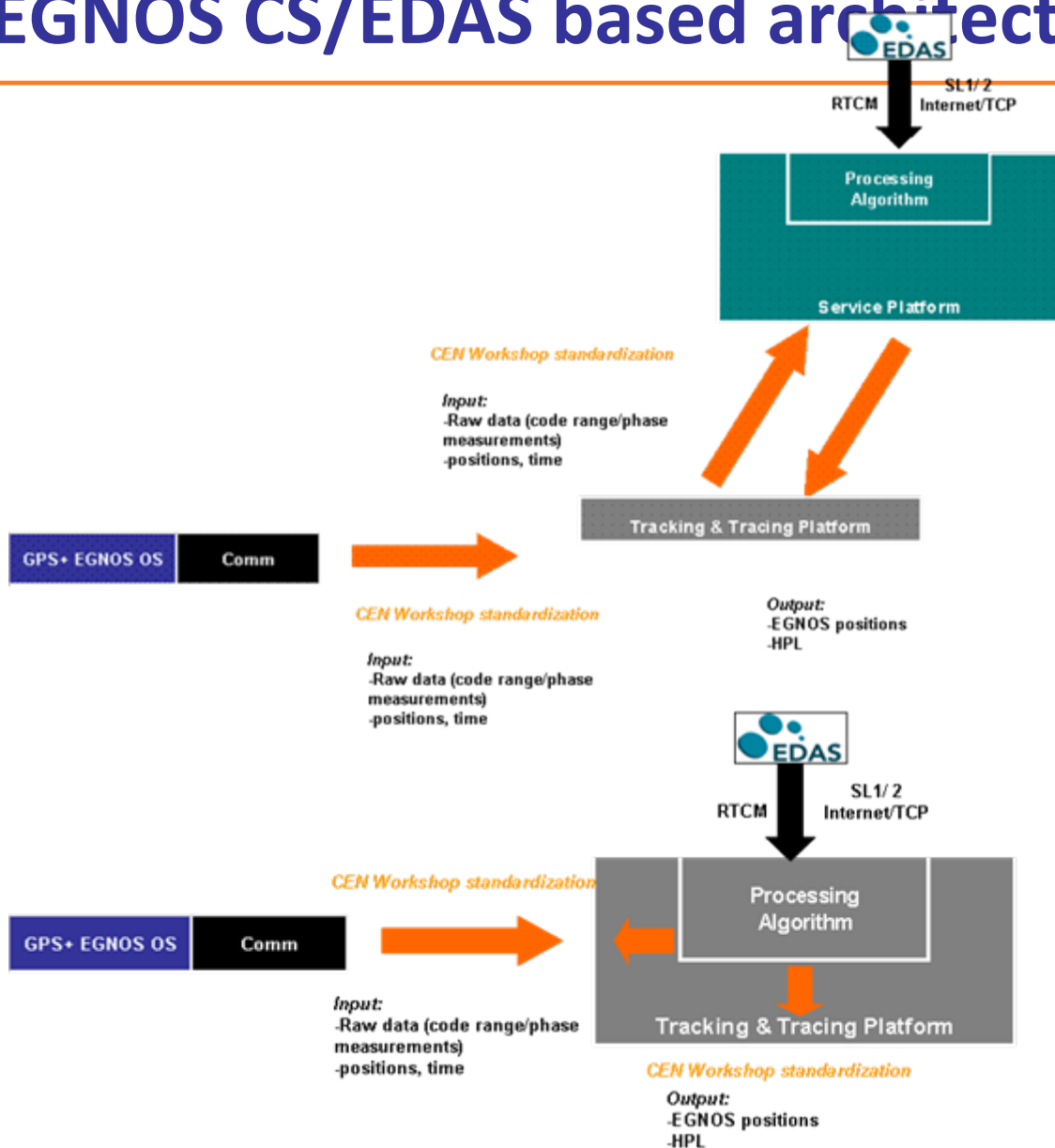
End users



User-specific information

- EDAS distributes EGNOS raw data to VAS SPs connected to it, in real-time, within guaranteed delay and controlled access
- VAS SPs implement solutions/ create products built on EGNOS data (such as delivering of EGNOS data via different telecommunication means and value added services exploiting EGNOS integrity)

EGNOS CS/EDAS based architectures



- Processing in the VAS SPs that deliver value added services to end-users tracking & tracing platform

- Processing in the end-users tracking & tracing platform

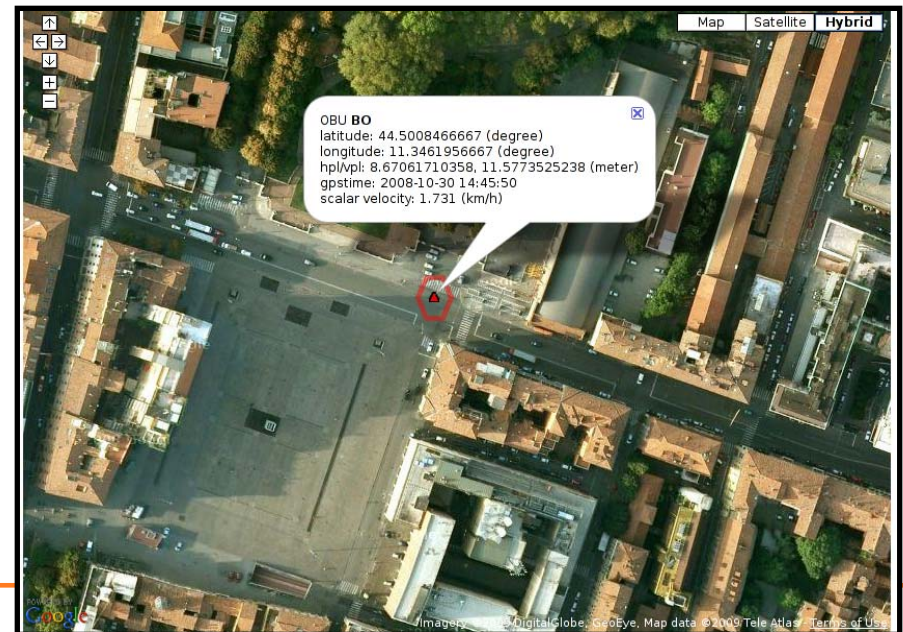
EGNOS CS/EDAS based services



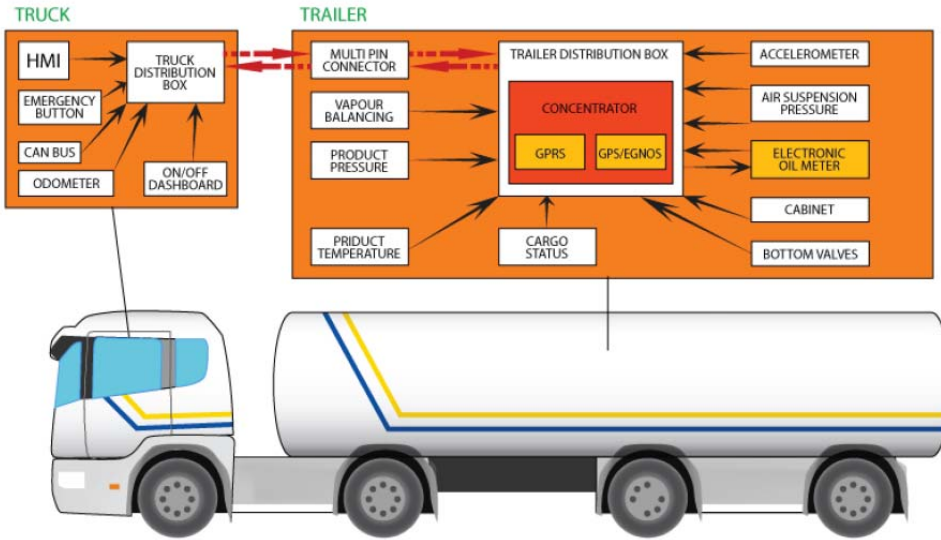
- Processing Algorithm is an EGNOS CS/EDAS product
- Provided services are:

Protection level (exploitation of the integrity) → confidence on the position to be used in applications driven by stringent constraints, in terms of safety and liability

SBAS corrections in case of difficult environment → enhanced availability of the EGNOS augmentation



MENTORE: EGNOS OS for dangerous goods transports

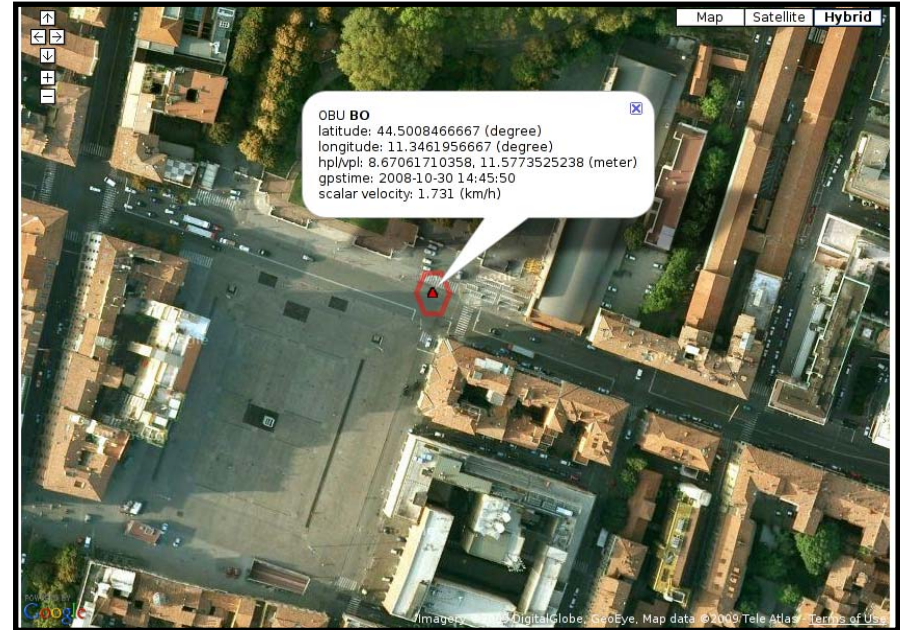


eni considered **EGNOS** enhanced stability and accuracy
interesting features for operational uses

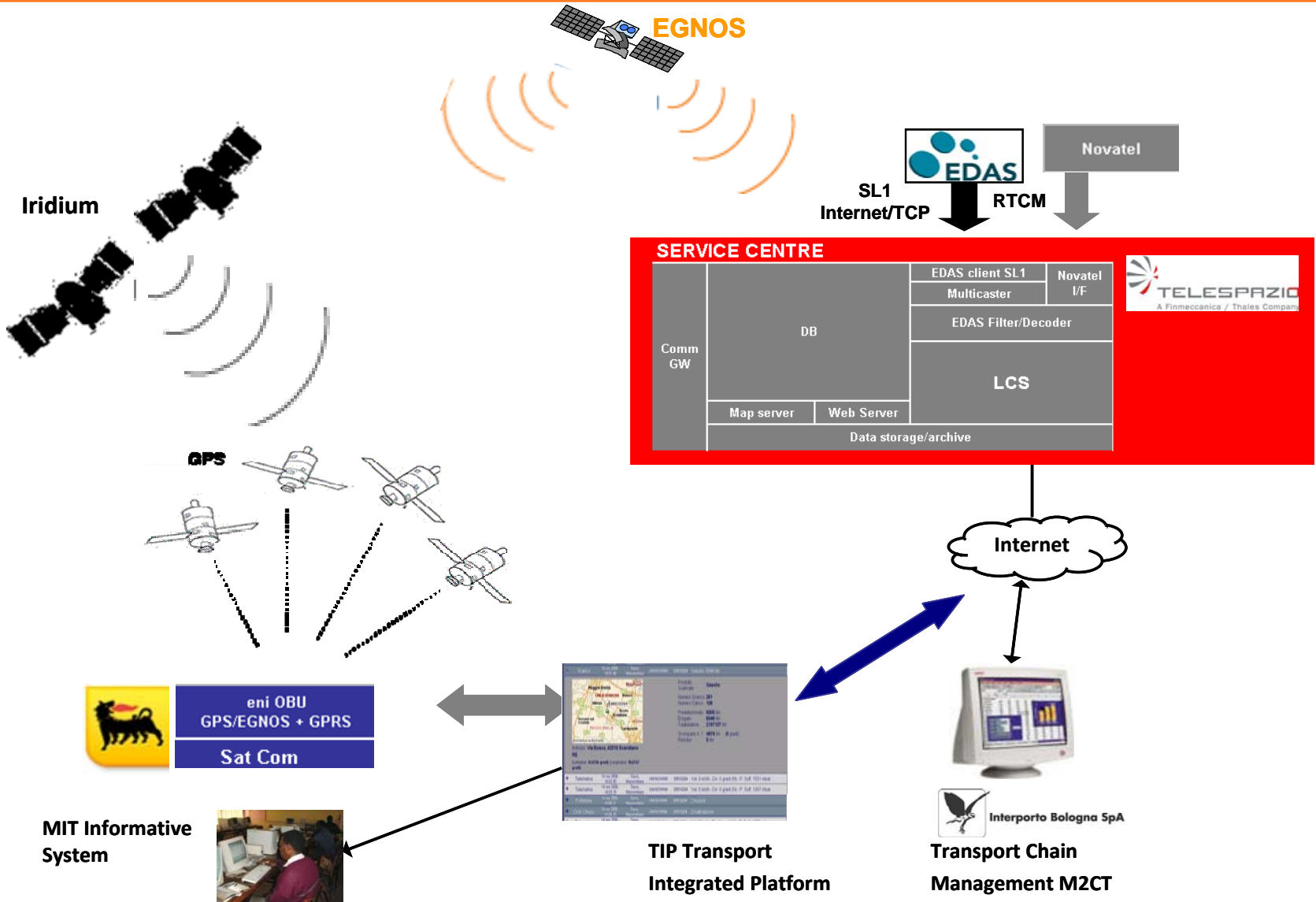
SCUTUM: EGNOS OS + CS for dangerous goods transports



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SCUTUM System



Facts and next objectives



Following MENTORE: eni adopted EGNOS OS to track operating fleet (presently more than 400 vehicles in Italy and France)

In SCUTUM: eni will use EGNOS CS/EDAS to track 225 operating vehicles in Italy, France and Austria (first 100 vehicles by end of November 2010)

Italy's and France's Ministries of Transport are involved in SCUTUM

CEN Workshop SCUTUM: launching a technical standardization



SCUTUM:

- Upgrades eni operational system from EGNOS OS to EGNOS CS/EDAS
- Extends it on a cross-border basis (France and Austria)
- Starts a EU-wide technical standardization for EGNOS CS/EDAS based services (CEN Workshop SCUTUM)

CEN Workshop SCUTUM

- Outcome: technical specification of the interfaces
- Timing:
 - September 2010/ KO
 - December 2011/ approval of CEN Workshop Agreement/end of project

Adoption on a voluntary basis

Contacts



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