49th ASECAP DAYS

Decarbonizing Road Infrastructure : Challenges, Perspectives and Actions in Tough Economy

ASECAP DAYS
BRUSSELS 2022

Hotel Marriott Grand Place, Brussels

24 – 25 November 2022

ASECAP DAYS

BRUSSELS 2022

C-ITS V2I implementation in Italy paves the way for a new generation of mobility services

Sabino Titomanlio
Commercial Director, Movyon
Autostrade per l'Italia Group

MOVYON
Tech the Future

Successful pilot with Volkswagen

34
Roadside units ITS-G5

52 km
(Firenze, Bologna)

500
Vehicles/day *

200k+
Cooperative Awareness Messages/day*

Coming soon 2023:

Genova A10 – 52 km

Firenze-Bologna – 86 km

Ready for «over-ip» service

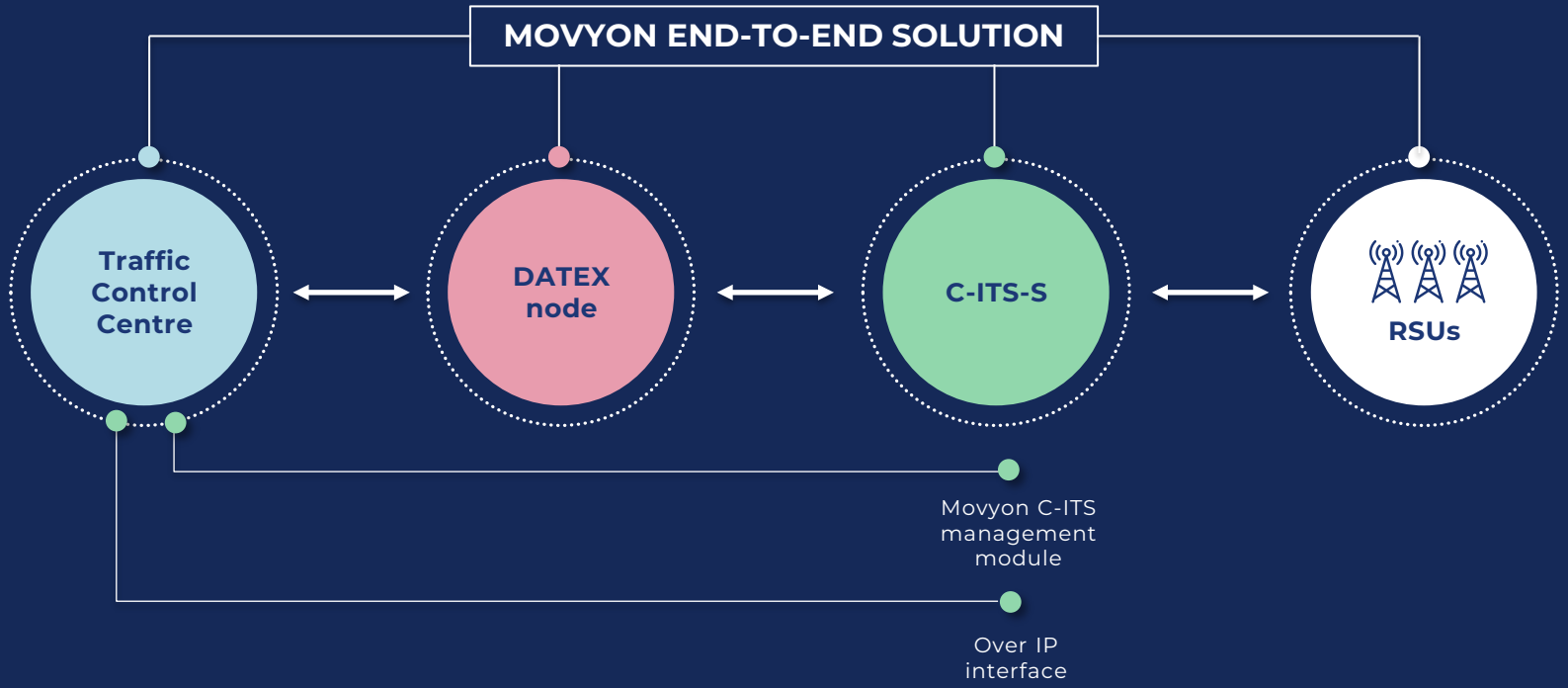
Compliant with C-Roads specifications

Contract with C-ITS PKI *(Trusted Secure Source)*

**data from Jul to Oct 2022*

MOVYON

C-ITS system architecture



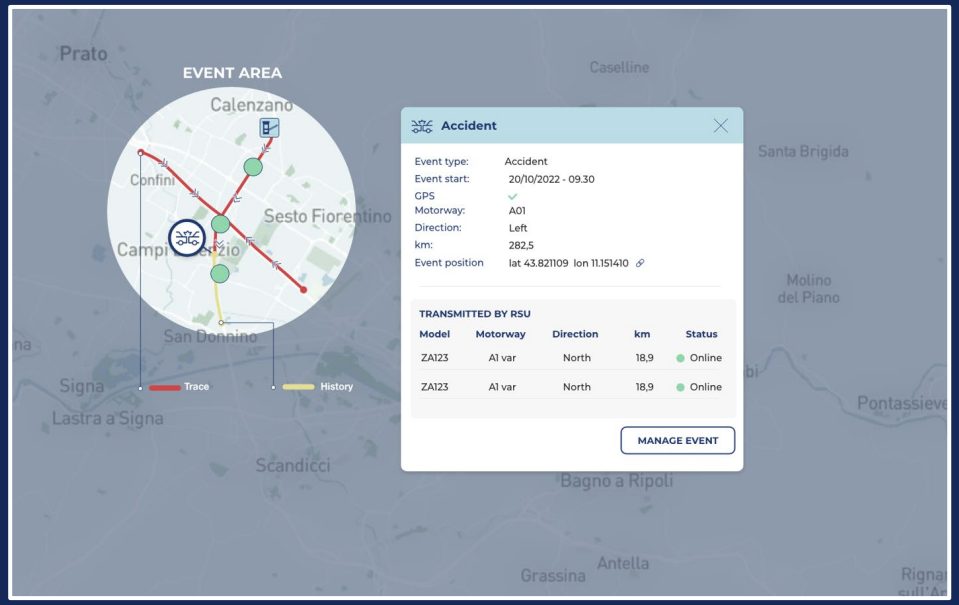
V2X Roadside Equipment

C-ITS roadside unit **entirely designed and manufactured by Movyon Electronics**, the Movyon brand working on critical hardware equipment used in Movyon's solutions.

- Dual-Mode: DSRC/802.11p and C-V2X
- Compliant with all V2X standards
- 5.9 GHz Radio: 1 x IEEE 802.11p / C-V2X (3GPP Rel. 14/15)
- Receiver sensitivity up to -97 dBm (802.11p)
- Quad core CPU 1200 Mhz , 2 GB DDR RAM, 8 GB Flash
- PCIe expansion slot for optional modem (LTE or 5G)
- GNSS module (GPS, Galileo, GLONASS, Beidou)
- Ethernet with PoE (48V PoE 802.3at)
- **NO licensed 3rd party software used in the firmware**
- Secure key storage
- ITS G5 Software stack
- Browser GUI for configuration, diagnostic and SW update
- IP67 enclosure protection
- CE RED compliant
- Operating temperature: -40 to +75°C

MOVYON

C-ITS management module



Picture shows C-ITS management module currently integrated with Movyon Traffic Management Platform

C-ITS management module entirely developed *in house*.

It can be easily adapted and customized to the specific needs of the concessionaries and integrated with any other software platforms (e.g. service providers).

No licensed third-party software is used.

History: area of the event
Trace: route entering the event area

MOVYON

Benefits

For customers

SAFER JOURNEYS

Context-sensitive and certified **data made available where and when are actually needed** make journey safer.

BETTER CUSTOMER EXPERIENCE

Data available in the car enable new services, improve experience and the perception of customers of being cared.

For concessionaries

REPUTATION AND VISIBILITY

Safer journeys improve reputation.

Vehicle infotainment might increase brand visibility for concessionaries and infrastructure managers.

FUTURE-PROOF

Conceive new business models to anticipate customer needs in smart mobility.

Ready for autonomous drive.

MOVYON

Movyon value for C-ITS

One-Stop-Shop for RSE and Platform

- Highly customizable and easily interoperable with the Traffic Control Centres of Concessionaries and with the platform of service and content providers
- Dual-Protocol (ITS-G5 and C-V2X) proprietary RSU entirely designed and manufactured by Movyon

Tested on a real motorway environment

Validated and approved by a primary carmaker already selling C-ITS equipped vehicles

MOVYON

Digital Engineering for Smart Mobility

We are an Italian company leader in development and integration of Intelligent Transport Systems Solutions and Centre of Excellence for Research and Innovation of Autostrade per l'Italia Group.

Our numbers

200+
highly skilled professionals

Active projects
in Europe, South America and Egypt

450+
Free Flow gantries and Stop&Go plazas in the world

460.000+
2021 events managed by Traffic Management Platform

2.000
bridges monitored with ARGO

Our solutions

Traffic and Safety Management

Infrastructure Management

Tolling

Smart Cities

Smart Roads

Video

CLIK HERE TO WATCH THE VIDEO

MOVYON

ASECAP DAYS

BRUSSELS 2022

THANK YOU FOR YOUR ATTENTION

Sabino Titomanlio
Commercial Director, Movyon
Autostrade per l'Italia Group