

The use of DATEX II in the C-ITS reference architecture



About this presentation



About the C-ITS Reference architecture



C-ITS Services and DATEX II



C-ITS input to DATEX II

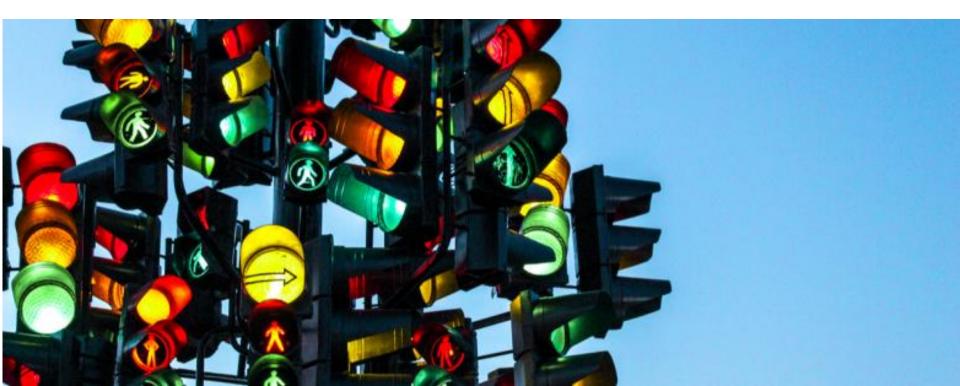
Conclusions

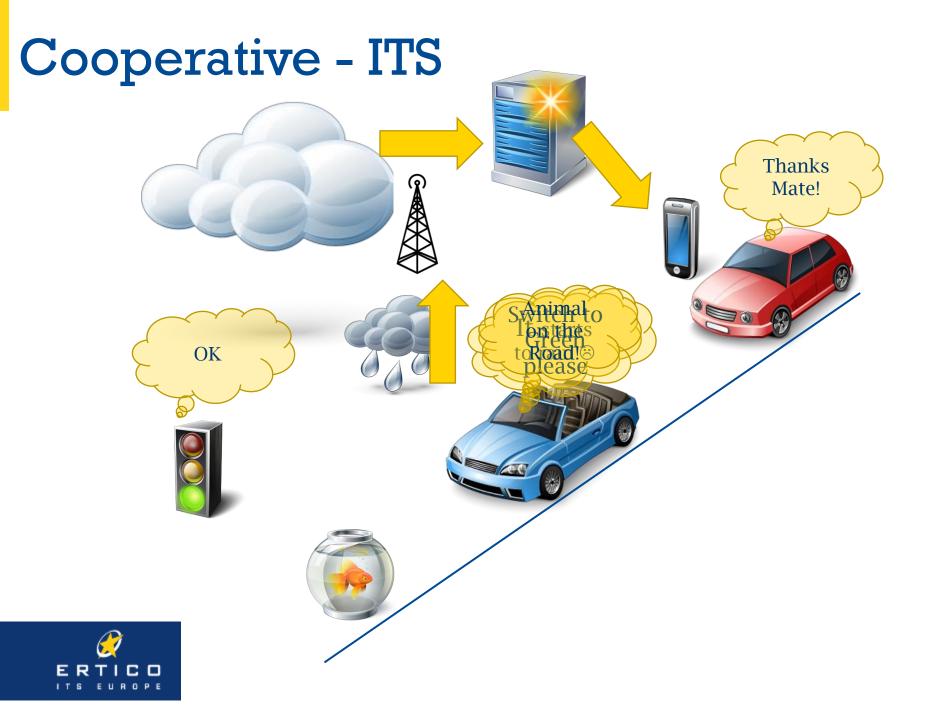






The C-ITS Reference Architecture









Testing of C-ITS Services



Cross-Border Harmonisation & Interoperability



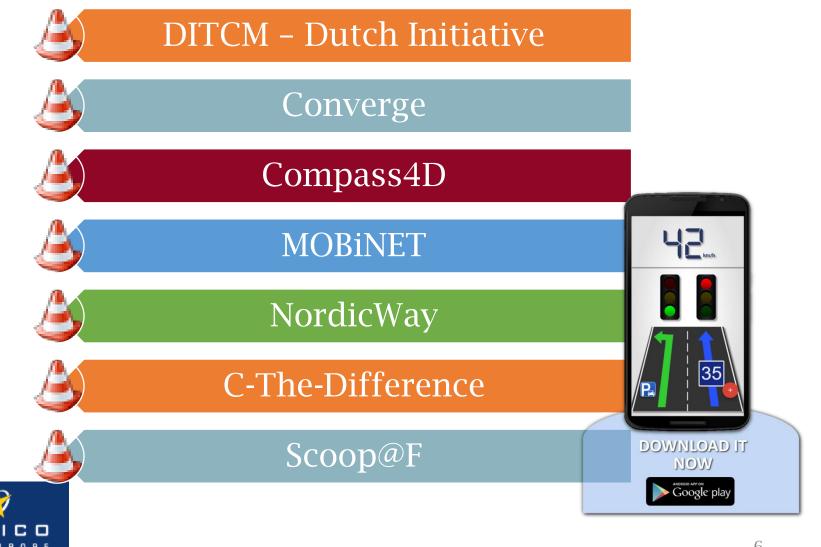
Initiated by 8 EC Member states



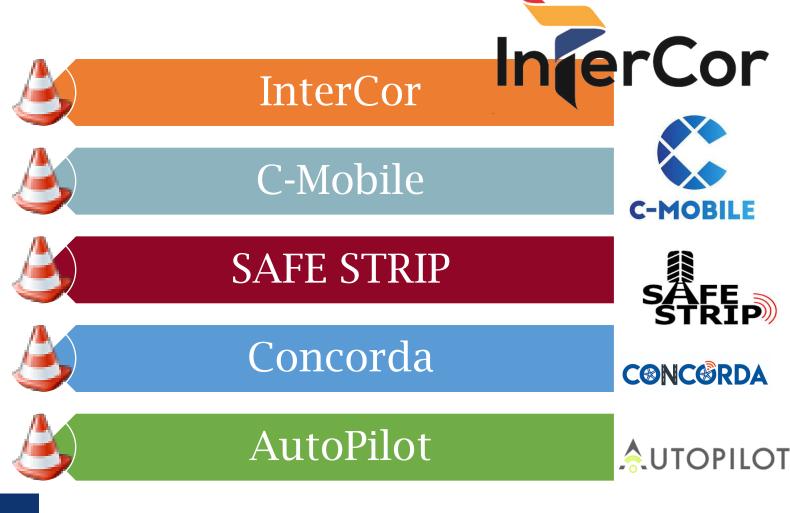
Core topic is Service Harmonisation



European and Local C-ITS Initiatives



C-ITS Projects





Example 1 – The C-Mobile Project



Focus on Interoperability and Standardization



C-Mobile Deployment Sites





Architecture Core Components



Central System



Roadside System



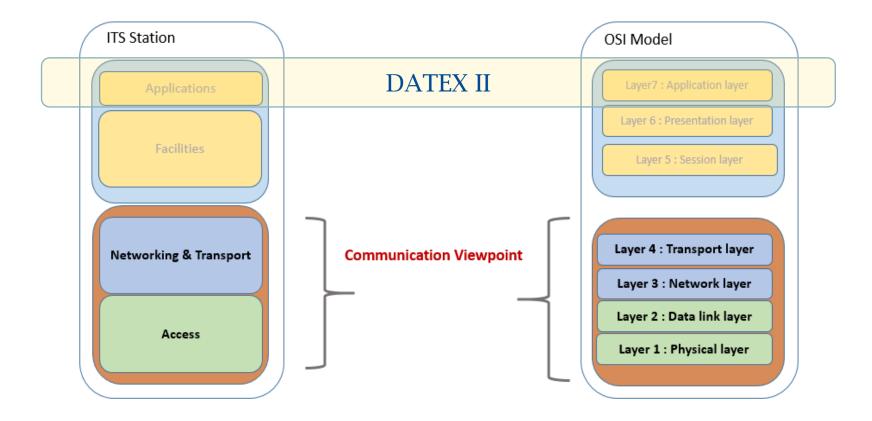


Vehicle System



Vulnerable Road User

Related to the OSI 7 Layer model





Example 2 - InterCor

Connecting Europe Facility project (CEF)



Coordinator Rijkswaterstaat

Interoperable Corridors Deploying Cooperative ITS



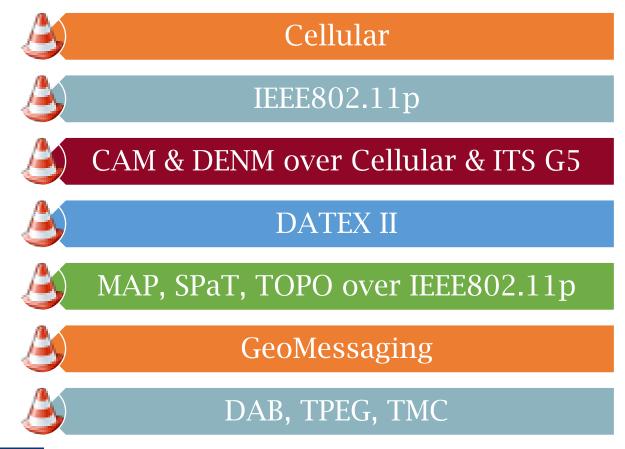
Focus on Inter-Urban



Connection 3 existing corridors



Standards Used





C-ITS Services







C-ITS Service and DATEX II



DATEX II Service Data Feeder

Service Users

Serivce Provider Layer

DATEX II

Back-end storage, Data Aggregation & Publication Layer

Vehicle Sensors

Road side sensors

Other input



DATEX II Usage

Feeder Messages for C-ITS Services



Aggregation of data provided by many (C-ITS) data sources



Towards Automated drive

Need for accurate and (hard) realtime traffic view
Continuously updated eHorizon

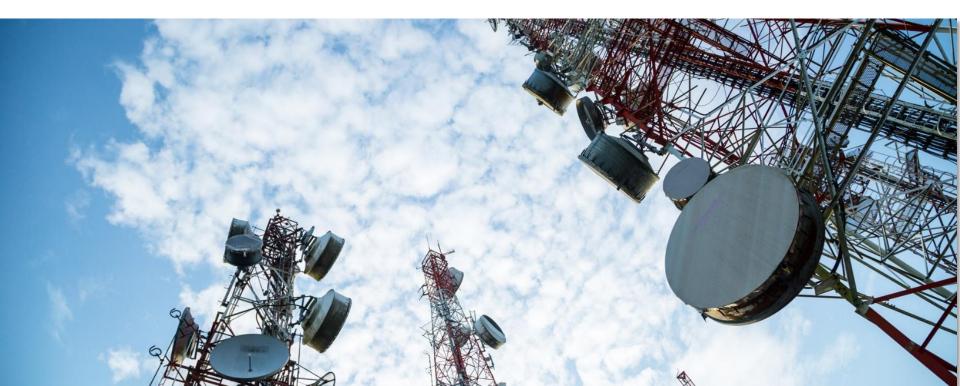


DATEX has a big future in the Mobility as a Service Concept

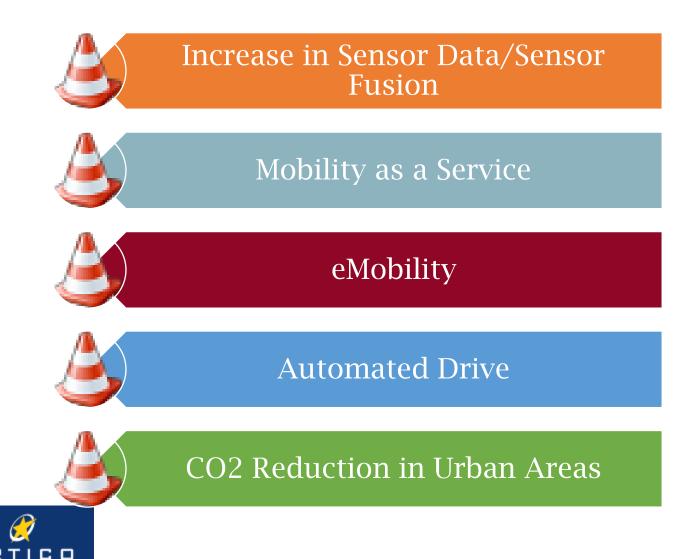




C-ITS input to DATEX II







Possible DATEX II extensions

Additional information about infrastructure

Information about CO2 reduction regulations in cities

Increased support for eMobility



Information about possible automated vehicles in the vicinity



Availability of shared transport resources



....

Alignment with the C-ITS world

C-ITS Projects

• Need for input from DATEX

DATEX • Need for input from C-ITS

Platforms of interest

- MaaS Alliance
- \cdot Sensoris
- \cdot TISA Forum

Output of the Interoperability and Standardization working group organized by ERTICO



Question?

How can we realize this interaction process?



Conclusions

Expect an enormous increase in data provided by cars, infrastructure & crowd

The unique ability to extend the specification makes it extremely suitable for C-ITS data needs in the future

Many new evolutions can be supported by DATEX II



Need for continuous interaction between DATEX II and C-ITS Platforms & Projects





Thanks you for your attention

