



DATEX II protocol

basement of traffic data exchange at national and European level

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Agenda

- DATEX II short presentation
- ITS Directive and Delegated Regulations
- DATEX II Requirements in relation with Delegated Regulations
- National Access Points: European ITS Platform Projects

DATEX II – The European Exchange Standard for ITS on Roads



- DATEX II has been developed to provide a standardised way of communicating and exchanging traffic information between traffic centres, service providers, traffic operators and media partners.
- CEN/TS 16157 Standard



DATEX II

- Was developed and maintained within European Projects: EasyWay, EasyWay II, EIP, EIP+
- Now is developed in a separate European grant 2015-2020
- Current published version V2.3 (www.datex2.eu)
- Version 3.0 is under development

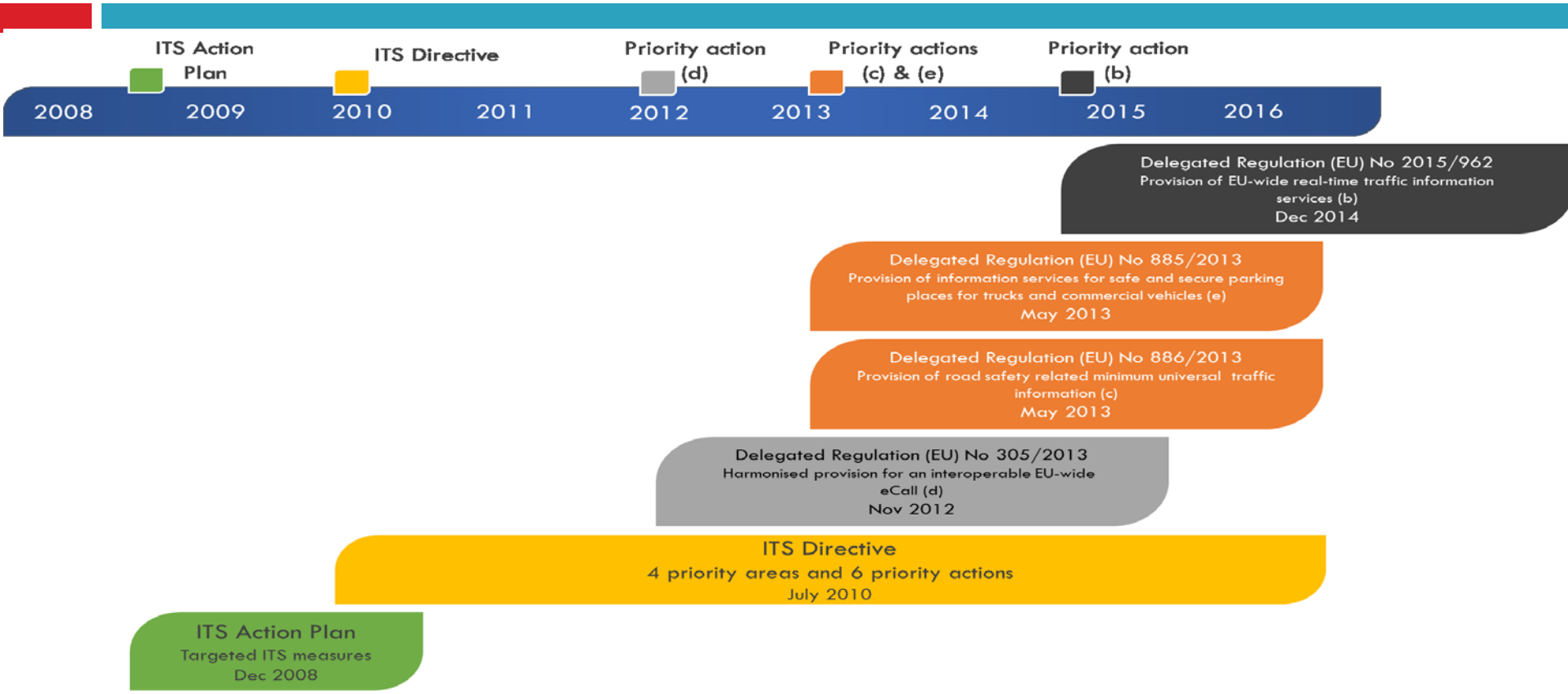


DATEX II Standard

- CEN/TS 16157 Standard
 - ▣ Part 1: Context and framework
 - ▣ Part 2: Location referencing
 - ▣ Part 3: Situation publication
 - ▣ Part 4: Variable Message Sign (VMS) Publications
 - ▣ Part 5: Measured and Elaborated Data Publications
 - ▣ Part 6: Parking Publications



ITS Directive and Delegated Regulations



2008
ITS Action Plan
2009

2010
ITS Directive
2011

2012
Priority action (d)

2013
Priority actions (c) & (e)

2015
Priority action (b)
2016

Delegated Regulation (EU) No 15/962
Provision of EU-wide real-time traffic information services (b)
Dec 2014

Delegated Regulation (EU) No 885/2013
Provision of information services for safe and secure parking places for trucks and commercial vehicles (e)
May 2013

Delegated Regulation (EU) No 886/2013
Provision of road safety related minimum universal traffic information (c)
May 2013

Delegated Regulation (EU) No 305/2013
Harmonised provision for an interoperable EU-wide eCall (d)
Nov 2012

ITS Directive
4 priority areas and 6 priority actions
July 2010

ITS Action Plan
Targeted ITS measures
Dec 2008

Delegated Regulation 2015/962 for RTTI - (b)



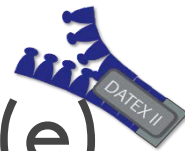
- ❑ Applies from 13 July 2017
- ❑ Member States have to set up a national access point
- ❑ Static road data, dynamic road status data & traffic data
- ❑ Trans-European road network (& relevant priority zones)
- ❑ Existing data collected by road authorities, road operators & service providers
- ❑ Requires discovery service that uses metadata
- ❑ DATEX II or any machine-readable format
- ❑ Member States assessments & declarations of compliance



DATEX II requirements for (b)

- For the purpose of facilitating the provision of compatible, interoperable, and continuous real-time traffic information services across the Union, **road authorities and road operators shall provide the dynamic road status data and traffic data** they collect and update in DATEX II (CEN/TS 16157 and subsequently upgraded versions) format or any machine-readable format fully compatible and interoperable with DATEX II.
- This does not apply to **static road data**. INSPIRE Directive and its implementing acts relevant here.

DATEX requirements for priority action (e)



For Truck Parking:

- Applies from 1 October 2015
- **Public or private parking operators and service providers** shall share and exchange data For these purposes they shall use DATEX II (CEN/TS 16157) format or any DATEX II compatible international machine-readable format.
- **Public or private parking operators and service providers** shall use DATEX II profiles or other internationally compatible formats in order to ensure interoperability of the information services across the Union.

DATEX requirements for priority action (c)



For SRTI:

- Applies from 1 October 2015
- **providers** shall share and exchange the data they collect For that purpose, they shall make these data available in the DATEX II (CEN/TS 16157) format or any fully compatible and interoperable with DATEX II machine-readable format through an access point

DATEX II developments for (c) and (e)



For Safe and Secure Truck Parking:

- ❑ DATEX Profiles available
- ❑ Parking Publications are part of DATEX 2.3
- ❑ CROCODILE middleware specification for truck parking

For SRTI:

- ❑ a user guideline has been developed to set up a DATEX II profile for SRTI messages.
- ❑ CROCODILE middleware specification for SRTI



National Access Point

Delegated regulations on SAP have only one purpose:

“to ensure the accessibility, exchange, re-use and update of data (truck parking, SRTI, RTTI) by road authorities, road operators and service providers for the provision of EU-wide information services”

National Access Points: European ITS Platform Projects



Three related projects:



In all three EIP projects activity on National Access Points:

- *EIP* Truck Parking (e) & Safety Related Traffic Information (c)
- *EIP+* Real-Time Traffic Information – RTTI (b)
- *EU EIP* All types of information (b, c, e, (multimodal (a)))



EU EIP as knowledge platform

EU EIP sub-activity 4.6 on Single Points of Access

- Monitors the deployment of SPAs in Europe
- Contributes to the harmonization of SPAs in Europe
- Functions as a knowledge platform on SPAs and will actively disseminate the knowledge and experience.








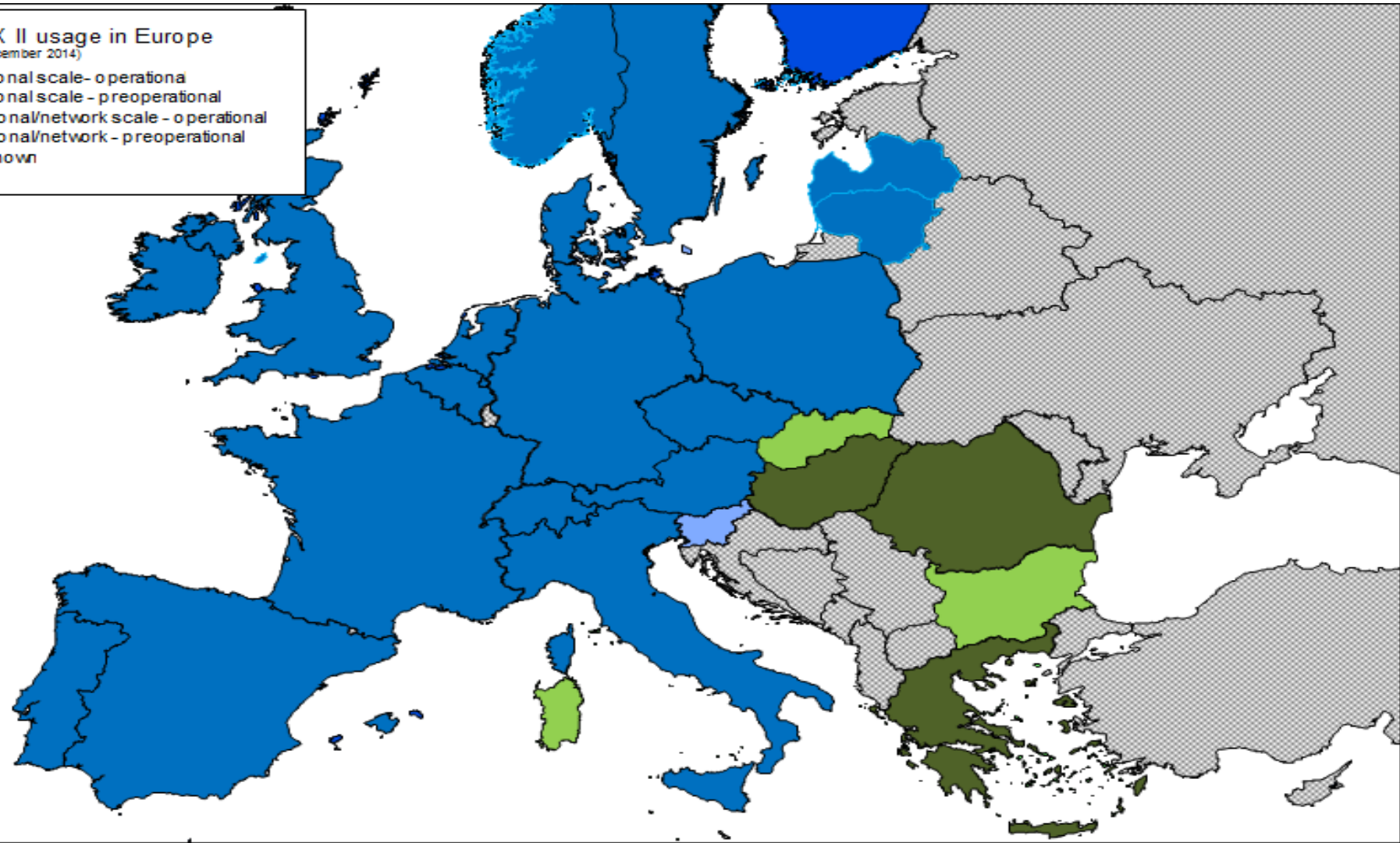
Topics addressed in SPA activity

- harmonisation of **metadata**
- harmonisation of **self-declaration of compliance**
- **DATEX II** profiles implementation experiences and guidance
- the role of **private sector** data and service providers
- differences in **interpretation** of the delegated regulations between the various Member States.

DATEX II usage in Europe

(status December 2014)

-  national scale - operational
-  national scale - preoperational
-  regional/network scale - operational
-  regional/network scale - preoperational
-  unknown





Thank you for your attention



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