EU EIP – European ITS Platform

Reference Handbook for Harmonised ITS Core Service Deployment in Europe

Concluding DATEX II PSA webinar, 09.06.2021

Co-financed by the Connecting Europe Facility of the European Union

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The European ITS Platform (EU EIP)

Who we are

Road authorities and operators from all over Europe cooperating on ITS corridors and EU ITS Platform (EU EIP)

What we do

- Harmonise and deploy European core ITS services in TEN-T network
- Support implementation of the ITS Directive and subsequent Delegated Regulations
- Collaborate on improving corridor performance
- Develop & maintain harmonisation tools and processes
- Stimulate dialogue with core actors in ITS domain
- Plan and prepare for future ITS needs

What we achieve

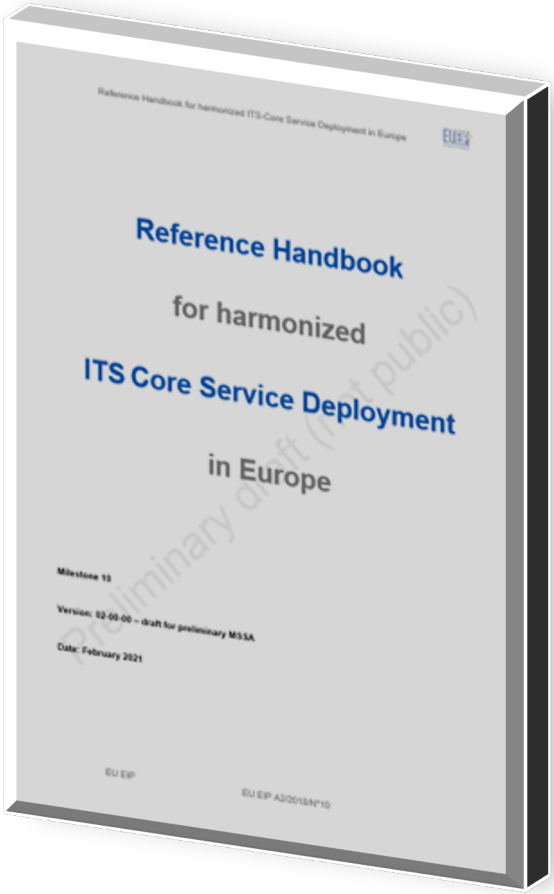
- Reference Handbook for harmonised core ITS service deployment
- Cross Corridor Cooperation Results
- KPIs of ITS deployment/benefits
- ITS Toolkit – Evaluation Library
- NAP community building
- Innovation Timelines and Deployment Roadmaps
- Inform. services quality frameworks
- Physical and digital infrastructure attributes for automated driving
- How to automate road operators' own ITS
- Integrating C-ITS into road operators day-to-day business
- ITS Forum

The Reference Handbook for Harmonised ITS Core Service Deployment in Europe

- An essential basis for a harmonised and cross-border implementation of ITS services.
- Comprises a series of guidance and advice for use by road authorities and operators.
- Assists Member States in taking a broadly similar approach.
- Written by ITS practitioners and experts.
- Content originally drafted and adopted by Member States in 2012, partial update in 2015.
- Major revision to reflect changing requirements.

Drafting process

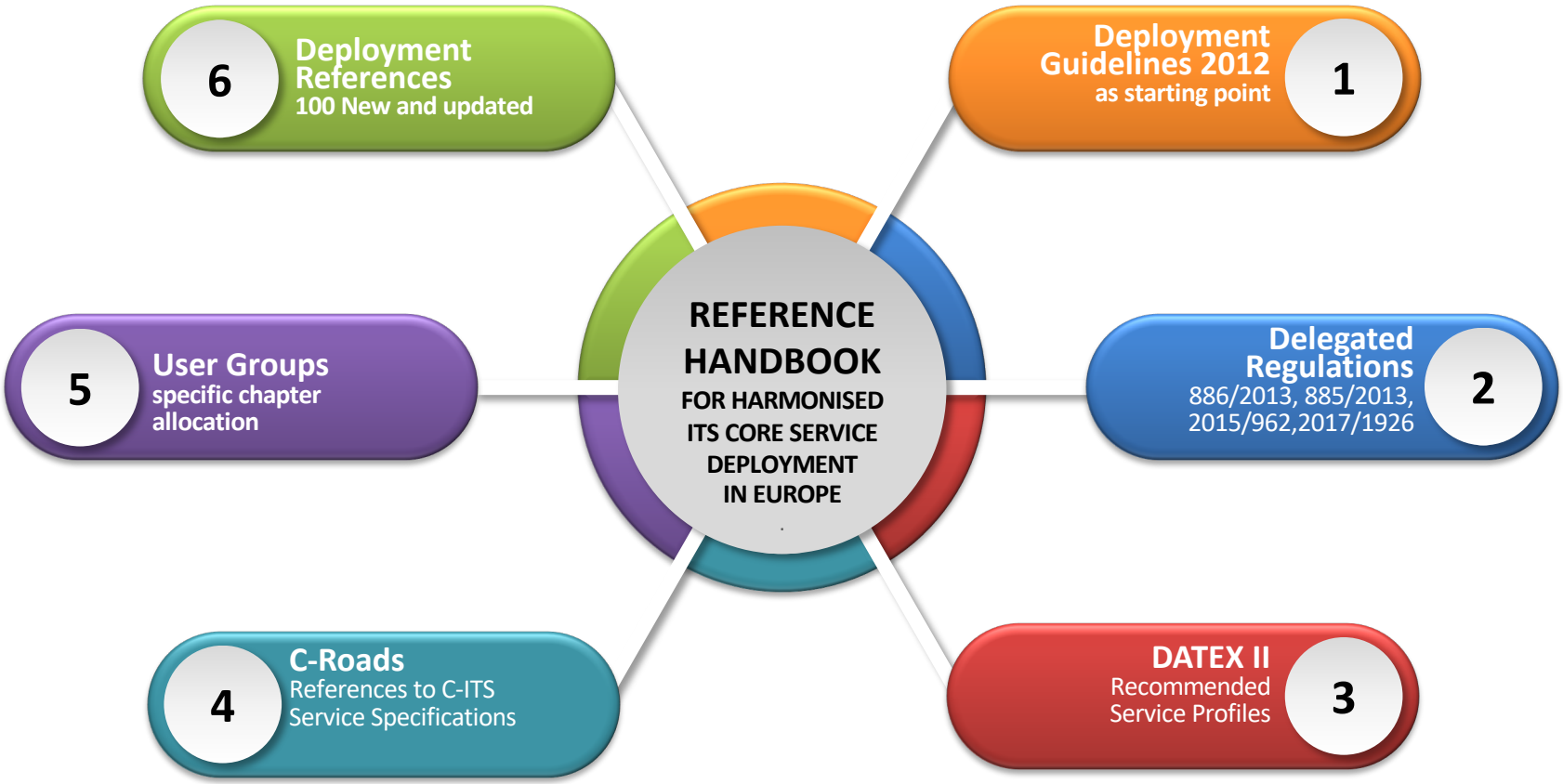
Expert Groups of Activity 2 „Monitoring and Dissemination“



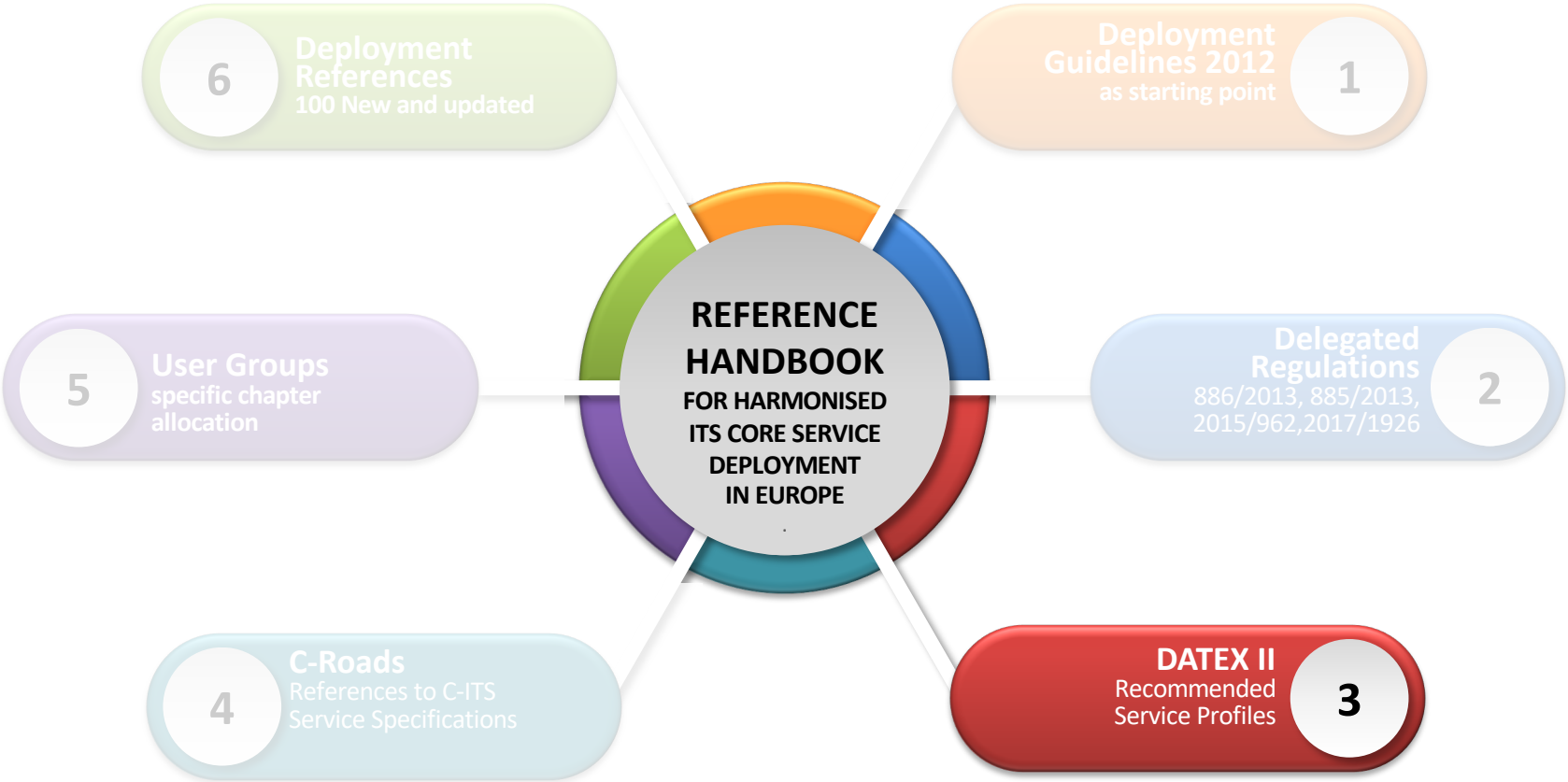
Contributors

- EU EIP Activity 2: Best Practice Collection and Cross Corridor Cooperation tasks
- Further EU EIP activities (Evaluation, interfaces for data exchange, …)
- C-ROADS: References to C-ITS service spec.
- DATEX II: Development of Recommended Service Profiles for all ITS core services.

Reference Handbook: New features



Reference Handbook: New features



In cooperation with DATEX II PSA:

- Recommended Service Profiles for every ITS Service developed
- Freely available on the DATEX II Webpage: https://webtool.datex2.eu/wizard
- Linkage via Interface Requirement and Information provision standards

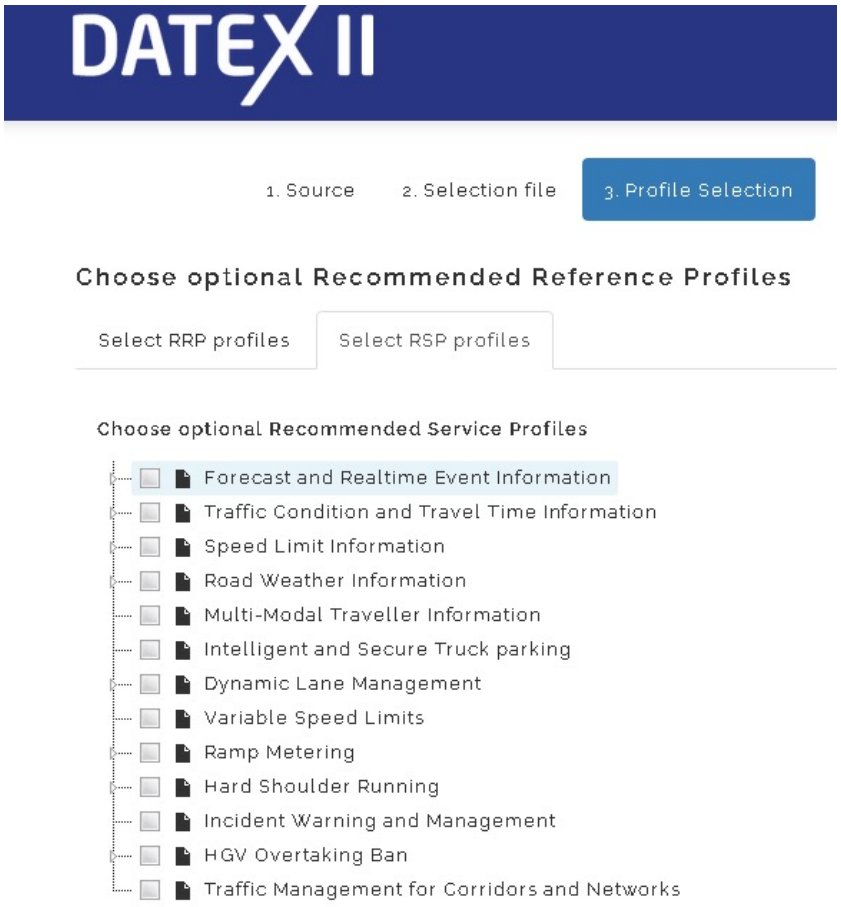
e.g. for the Variable Speed Limit service:

Interface Requirement
IFR1: Variable Speed Limit service **must** provide at interface 1 [..]information on the current speed limit including the following elements [..]:
•Sign ID
•Active Speed Limit (display value, shown on the variable sign)
•Location of the Speed Limit sign (coordinate information for mapping)
•Timestamp
•Location reference there speed limit begins (e.g. road address, direction)
•Where necessary, the type of vehicle concerned by the Speed Limit
•Validity (advanced)

Information Provision Standard
IPS1: If a Variable Speed Limit service is implemented at interface 1 (see IFR1), it must be profiled based on CEN/EN 16157-3 using the DATEX II Recommended Reference Profile for Speed Limits or any international machine-readable format fully compatible and interoperable with DATEX II.

European ITS Platform

https://webtool.datex2.eu/wizard



European ITS Platform

https://docs.datex2.eu/profiles/rsp/roadweatherinformation/index.html

DATEX II SEARCH CONTENTMODEL EXCHANGE DEVELOPERS MODELLERS DATEX II ARCHIVE DOWNLOADS

Version 3.1

User support

Level 0
Level 1
Level 2
Level 3

Profiles

Introduction
Recommended Reference Profiles
Recommended Service Profiles

Downloads

DATEX II Version 3.1
D2Light
ParkingLight

Exchange 2020

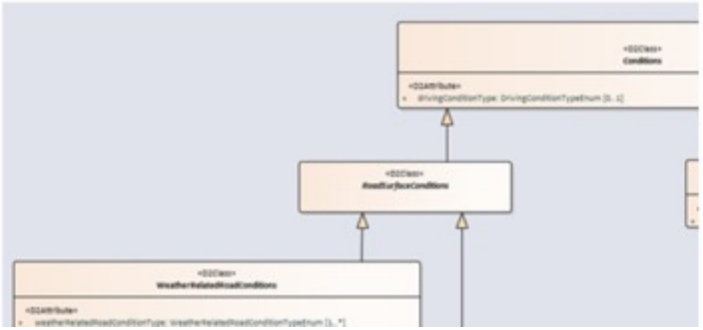
Specification Rationale
User Guide
Platform Independent Model
Platform Specific Model
Information Delivery

DATEX II packages addressed by the Road Weather Information RSP

This RSP tailors the following DATEX II model packages:

- *Common* – commonly used DATEX II data elements used by the tailored packages below (CEN/EN 16157-7:2018)
- *LocationReferencing* – the location references, tailored for road weather information (CEN/EN 161578-2: 2019)
- *Situation* – the DATEX II general traffic event packages tailored for road weather information (CEN/EN 16157-3:2018)
- *RoadTrafficData* – the DATEX II package for sensor data publications (currently balloted to be published as CEN/EN 16157-5:2020)

The *Situation package* is used for publishing event-type information for weather related road conditions as a *SituationPublication*. Instances of *WeatherRelatedRoadConditions* may contain *RoadSurfaceConditionMeasurements*, see Figure 1.



Summary and next steps

- **DATEX II Contribution:**

  - Recommended Service Profiles

  - Documentation

  - Available at www.datex2.eu

- **Reference Handbook status and next steps:**

  - Finalisation of printable/PDF version

  - Development of web-based version

  - Simultaneous release in Autumn

  - Dissemination

THANK YOU FOR YOUR COLLABORATION!

DATEX II & EU EIP European ITS Platform

Image source: www.cembi.org