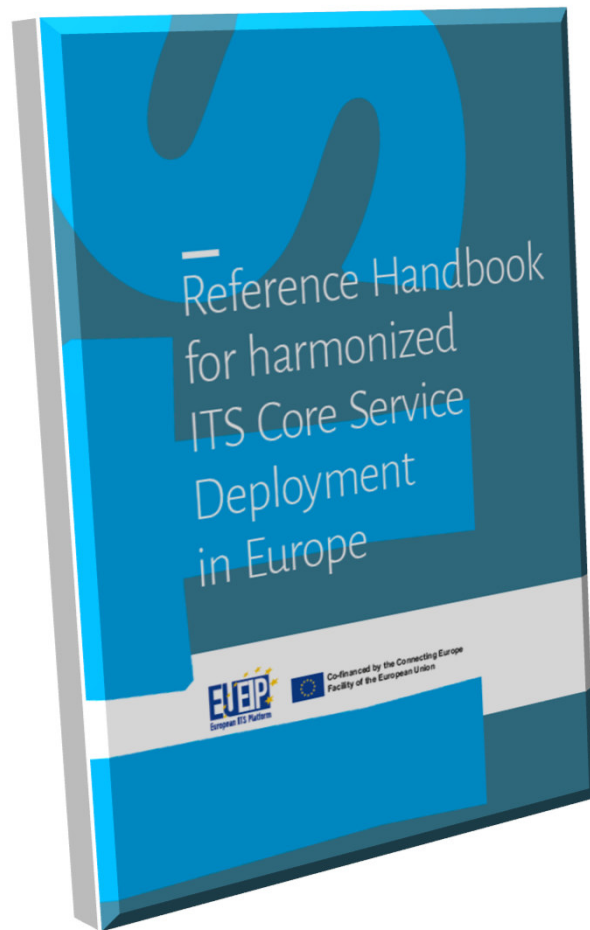


EU EIP – European ITS Platform

C-ITS as part of the Reference Handbook for Harmonised ITS Core Service Deployment in Europe

6th Webinar of the Web ITS Forum Series, 05.11.2021

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 EU Member States in taking a broadly similar approach.
- Written and reviewed by ITS practitioners and experts from most EU Member States.

Reference Handbook: 14 ITS Services included

■ Traffic and Traveller Information Services

- Forecast and Realtime Event Information
- Traffic Condition & Travel Time Information
- Multimodal Travel Information
- Speed Limit Information
- Road Weather Information

■ Traffic Management Services

- Dynamic Lane Management
- Ramp Metering
- HGV Overtaking Ban
- Traffic Management Plans
- Variable Speed Limits
- Hard Shoulder Running
- Incident Warning & Management

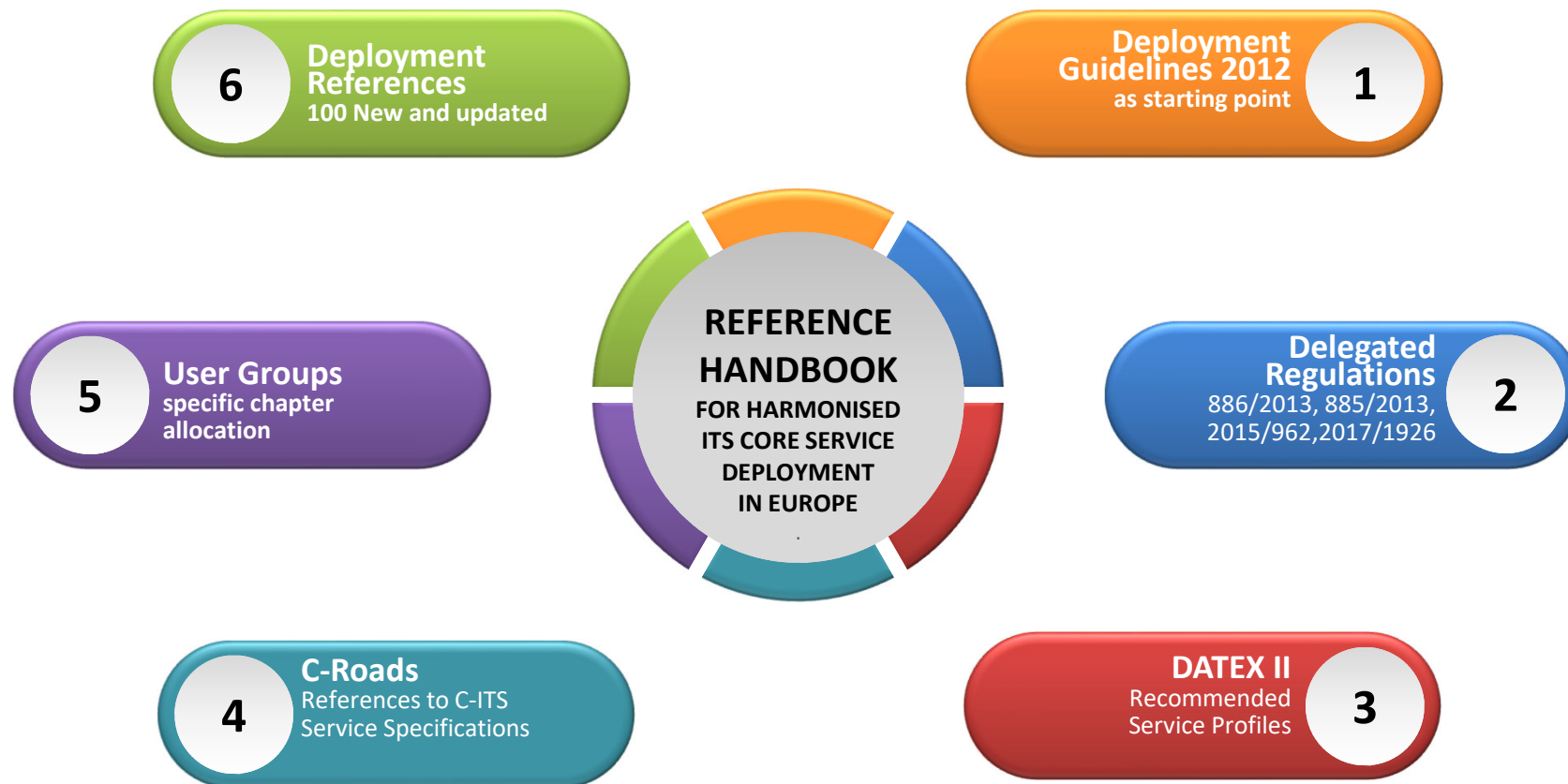
■ Freight & Logistics Services

- Intelligent & Secure Truck Parking
- Abnormal Goods Transport Regulations

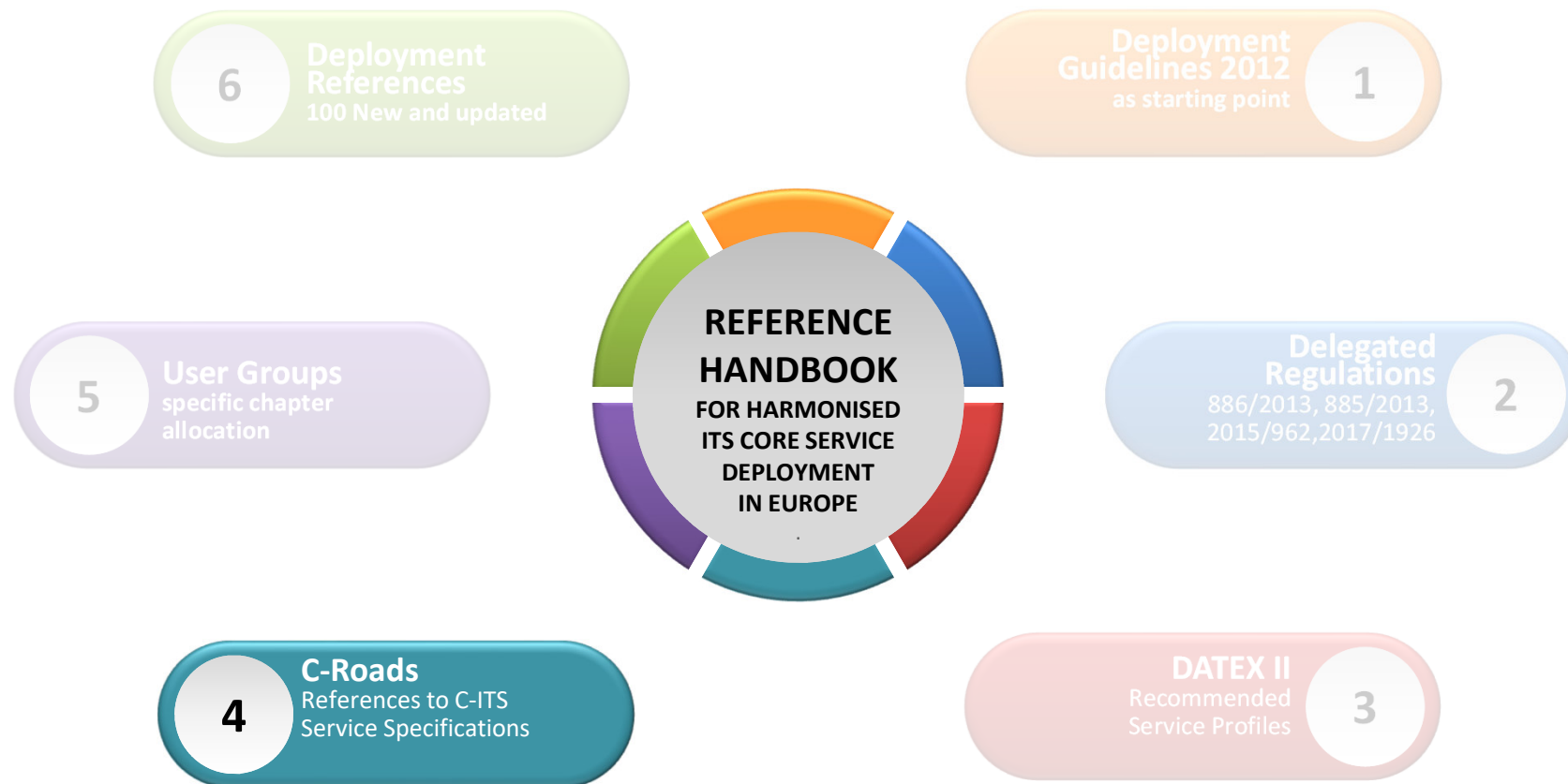
Reference Handbook: 14 ITS Services included

- **ITS Service profile/description**
- **Requirements & Advice grouped in 5 categories:**
 - Functional
 - Interface
 - Organisational
 - Common Look & Feel
 - ICT Infrastructure
- **Must / Should / May Principle (Apply or Explain)**

Reference Handbook: Main features

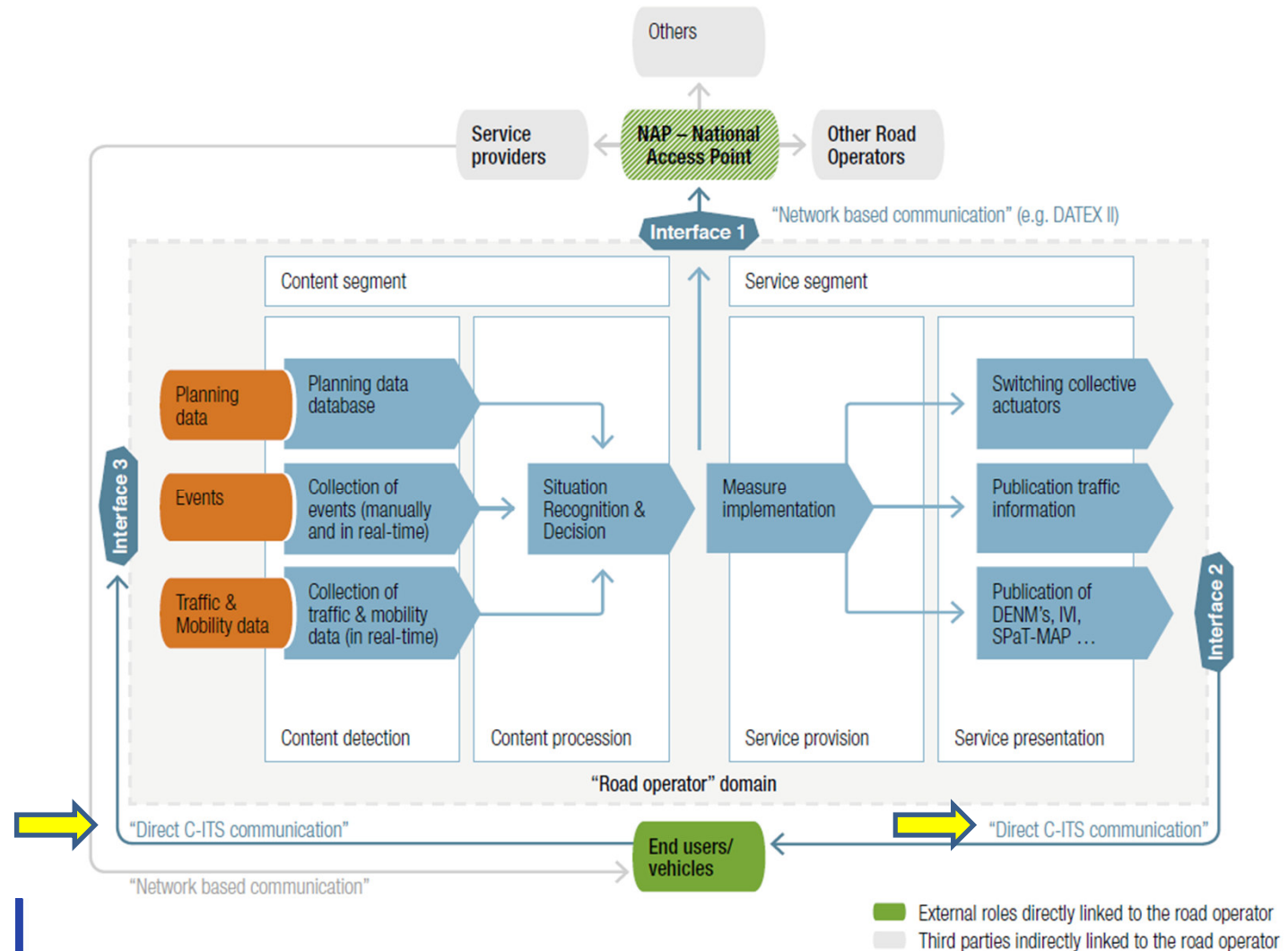


Reference Handbook: Main features




Reference Handbook: References to C-ITS service specifications

Data Sharing Architecture (Road Operator view)




Reference Handbook: References to C-ITS service specifications

- C-ITS Services that can support ITS Services have been identified. 

TMS: Variable Speed Limits



IVS: Dynamic Speed Limit Information

- Data elements to be provided and references to C-Roads Specifications are included for each ITS Service. 

TMS: Incident Warning and Management



HLN: Accident Zone

TIS: Weather Information Service



HLN: Weather Condition Warning

Reference Handbook: References to C-ITS service specifications

- Example Interface Requirement for Ramp Metering service:

IFR2: If interface 2 is implemented, the Ramp Metering Service **must** provide at interface 2 Ramp Metering information coded in C-ITS messages including the following elements:

- Signal phase
- Location of the ramp metering

- Example Information Provision Standard Requirement for Ramp Metering service:

IPS2: If interface 2 is implemented, Ramp metering information (see IFR2) **must** be profiled in an SPATEM/MAPEM (Signal Phase And Timing Extended Message/MAP Extended Message) based on ETSI TS 103 301 using the C-ROADS C-ITS Message Profiles for the Traffic Light Manoeuvre service.

THANK YOU FOR YOUR ATTENTION!



Available to download

www.its-platform.eu/reference-handbook

