# EU EIP – Determining Quality of European ITS Services – SA4.1

Background and Status
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Co-financed by the European Union
Connecting Europe Facility

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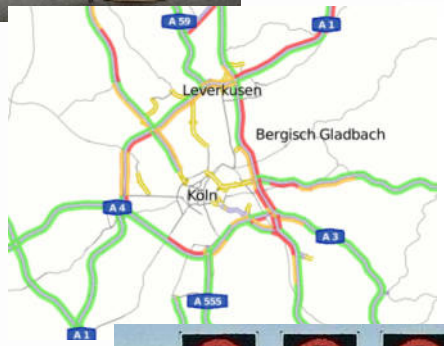
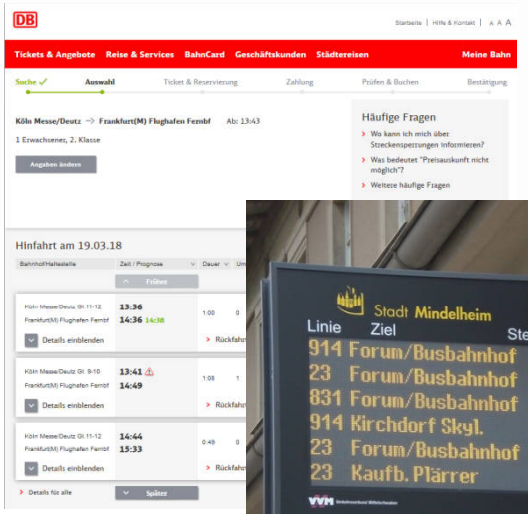
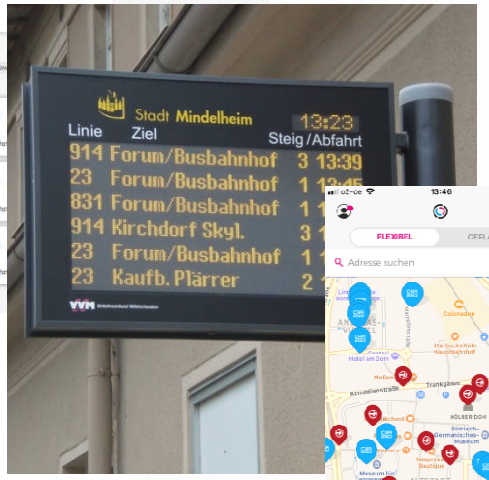
# What is Quality?

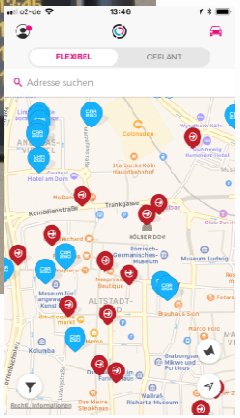
- **Quality** = „degree to which a set of inherent characteristics of an object fulfils requirements“
- **Object** = „anything perceivable or conceivable“ (ISO 9000)

# Quality of what?





# What to do with Quality?

- **Assess**
- **Document**
- **Report to…**
  - … data consumers
  - … European Commission
- **Implement QMS**

# Context: EU ITS Directive

| Priority Action | EC Delegated Regulation | Data / information type |
|---|---|---|
| **C)** | 886/2013 | "Road Safety-Related Minimum Universal Traffic Information" (SRTI) |
| **B)** | 2015/962 | "EU-wide Real-Time Traffic Information Services" (RTTI) |
| **A)** | 2017/1926 | "EU-wide Multimodal Travel Information Services" (MMTIS) |
| **E)** | 885/2013 | „Information Services for Safe and Secure Parking Places for Trucks and Commercial Vehicles" (ITP Information Services) |

# Context: EU ITS Directive

REGULATIONS

COMMISSION DELEGATED REGULATION (EU) 2017/1926

of 31 May 2017

supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to the provision of EU-wide multimodal travel information services

(Text with EEA relevance)

**Artikel 8: Requirements for service provisions reuse of travel and traffic data […]**

1. The travel and traffic data listed in the Annex and the corresponding metadata **including information on the quality thereof** shall be accessible for exchange and reuse within the Union on a non-discriminatory basis, through the national or common access point […].

# Context: EU ITS Directive

- Differences compared to other Delegated Regulations
  - Valid for the entire transport network.
  - Includes further stakeholders (transport authorities/operators, transport-on-demand operators etc).
  - Includes further data formats (NeTEx CEN/TS 16614; SIRI CEN/TS 15531).
  - No NAP infrastructure established yet.

# Context: EU ITS Directive

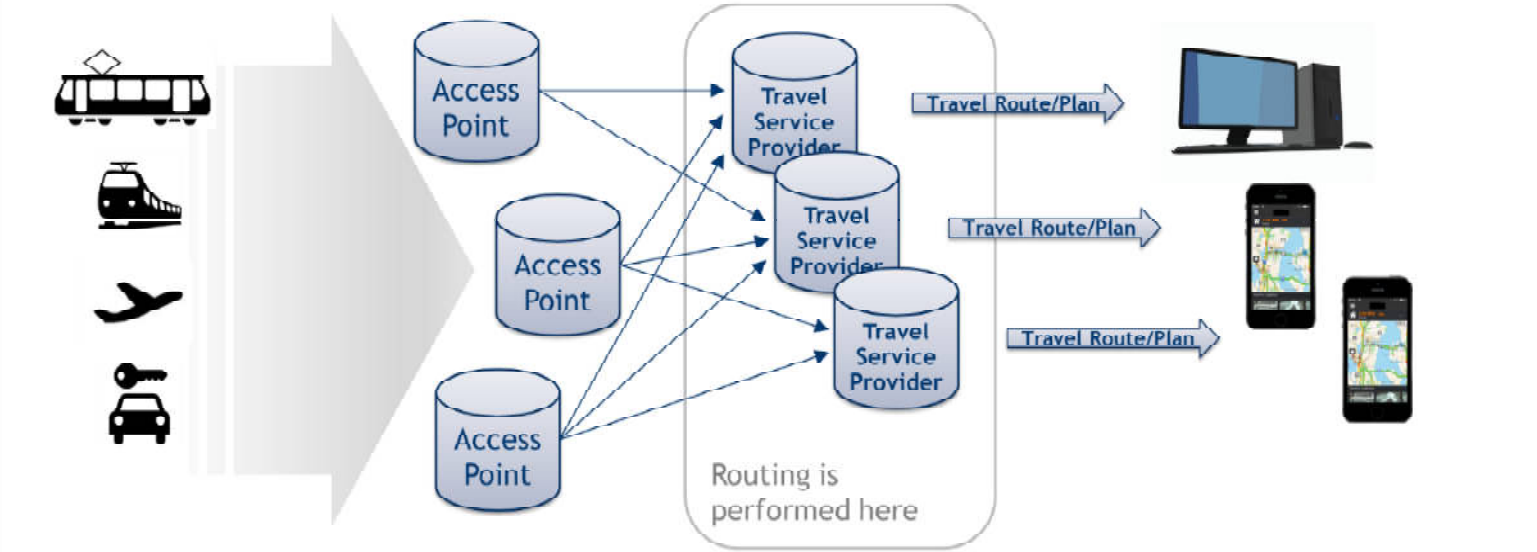
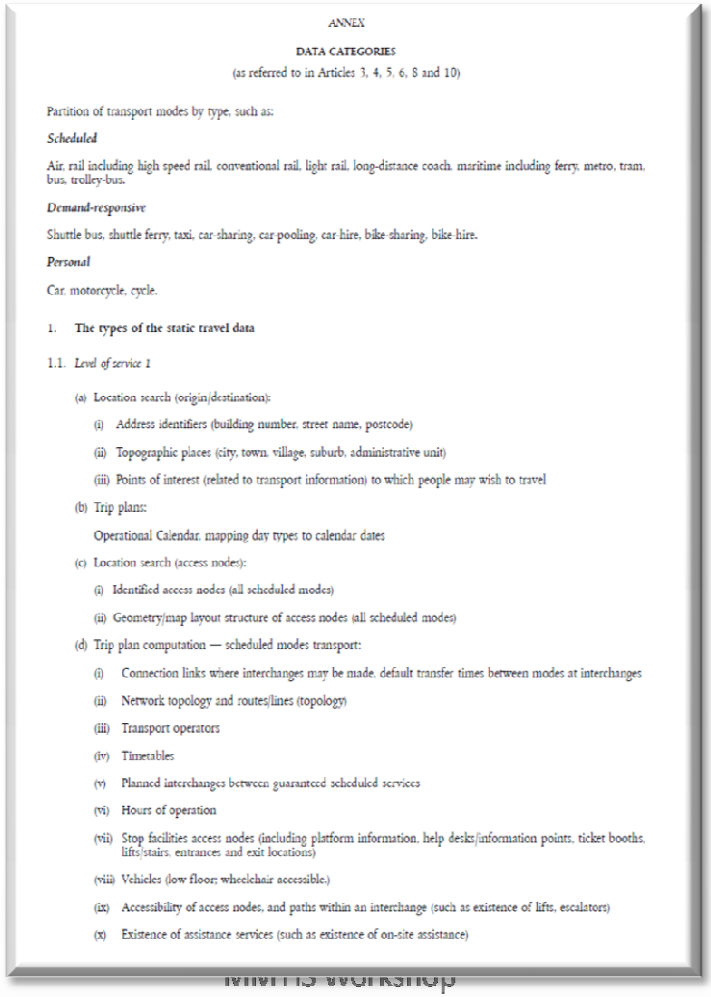



**Figure 1: Model 1 – "Central Route Planners using data from Access Points"**

Conceptual Model from „TISA Position Paper on Priority Action A (2015)"

# Context: EU ITS Directive



ANNEX

**DATA CATEGORIES**

(as referred to in Articles 3, 4, 5, 6, 8 and 10)

Partition of transport modes by type, such as:

***Scheduled***

Air, rail including high speed rail, conventional rail, light rail, long-distance coach, maritime including ferry, metro, tram, bus, trolley-bus.

***Demand-responsive***

Shuttle bus, shuttle ferry, taxi, car-sharing, car-pooling, car hire, bike-sharing, bike hire.

***Personal***

Car, motorcycle, cycle.

1. **The types of the static travel data**

1.1. *Level of service 1*

(a) Location search (origin/destination):

(i) Address identifiers (building number, street name, postcode)

(ii) Topographic places (city, town, village, suburb, administrative unit)

(iii) Points of interest (related to transport information) to which people may wish to travel

(b) Trip plans:

Operational Calendar, mapping day types to calendar dates

(c) Location search (access nodes):

(i) Identified access nodes (all scheduled modes)

(ii) Geometry/map layout structure of access nodes (all scheduled modes)

(d) Trip plan computation — scheduled modes transport:

(i) Connection links where interchanges may be made, default transfer times between modes at interchanges

(ii) Network topology and routes/lines (topology)

(iii) Transport operators

(iv) Timetables

(v) Planned interchanges between guaranteed scheduled services

(vi) Hours of operation

(vii) Stop facilities access nodes (including platform information, help desks/information points, ticket booths, lifts/stairs, entrances and exit locations)

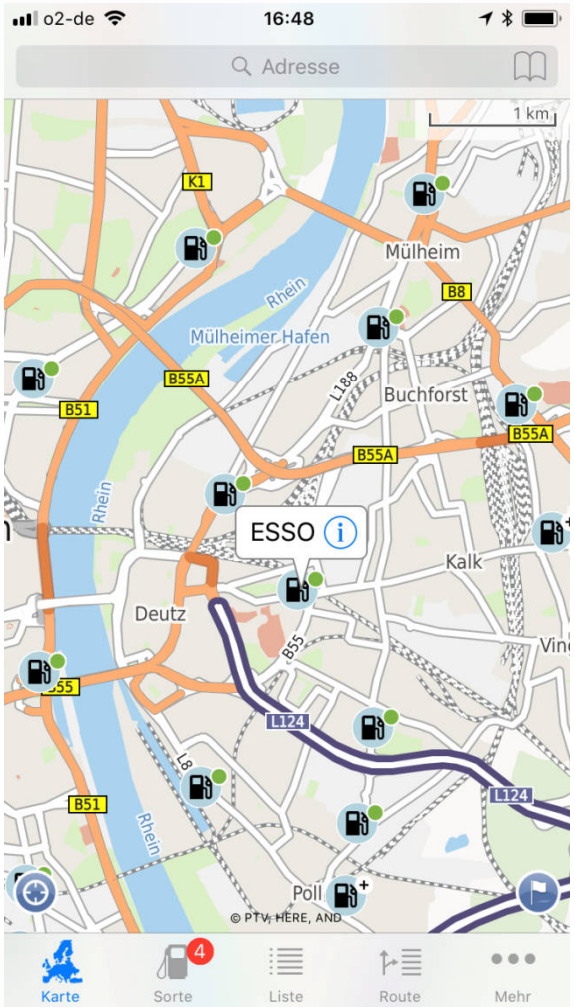
(viii) Vehicles (low floor; wheelchair accessible.)

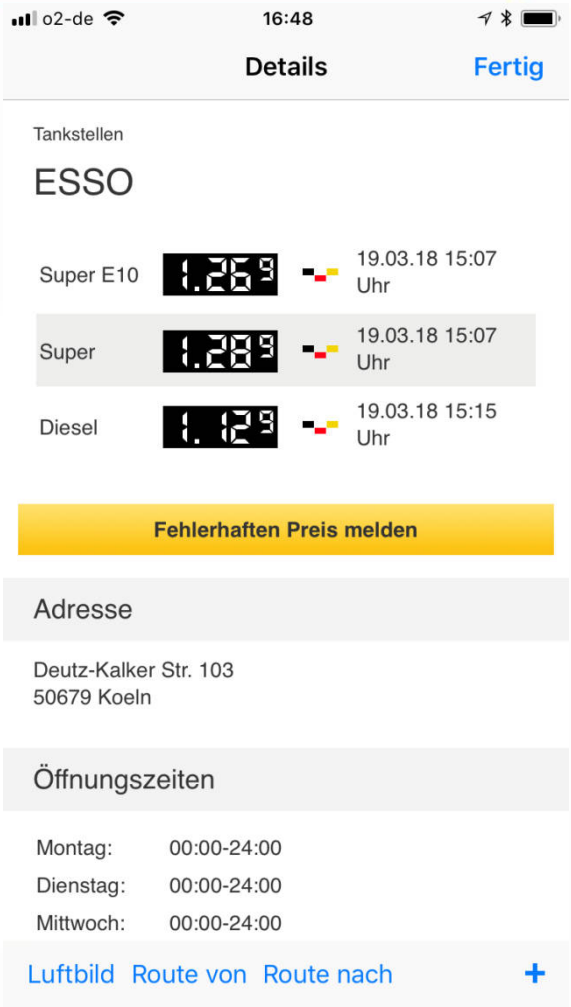
(ix) Accessibility of access nodes, and paths within an interchange (such as existence of lifts, escalators)

(x) Existence of assistance services (such as existence of on-site assistance)

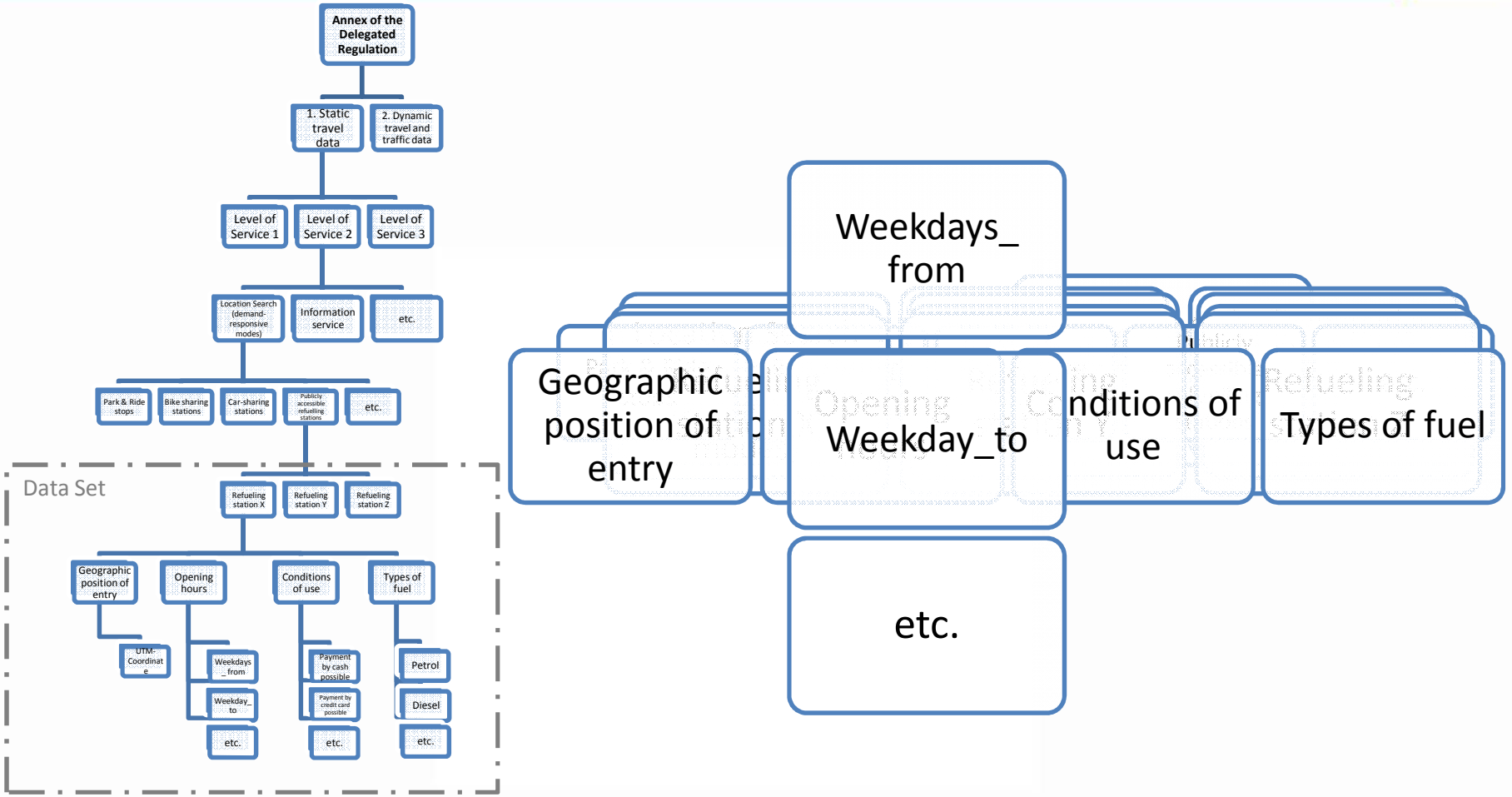
# Example

ADAC Spritpreise



# Services & data structures



# What is EU EIP ?

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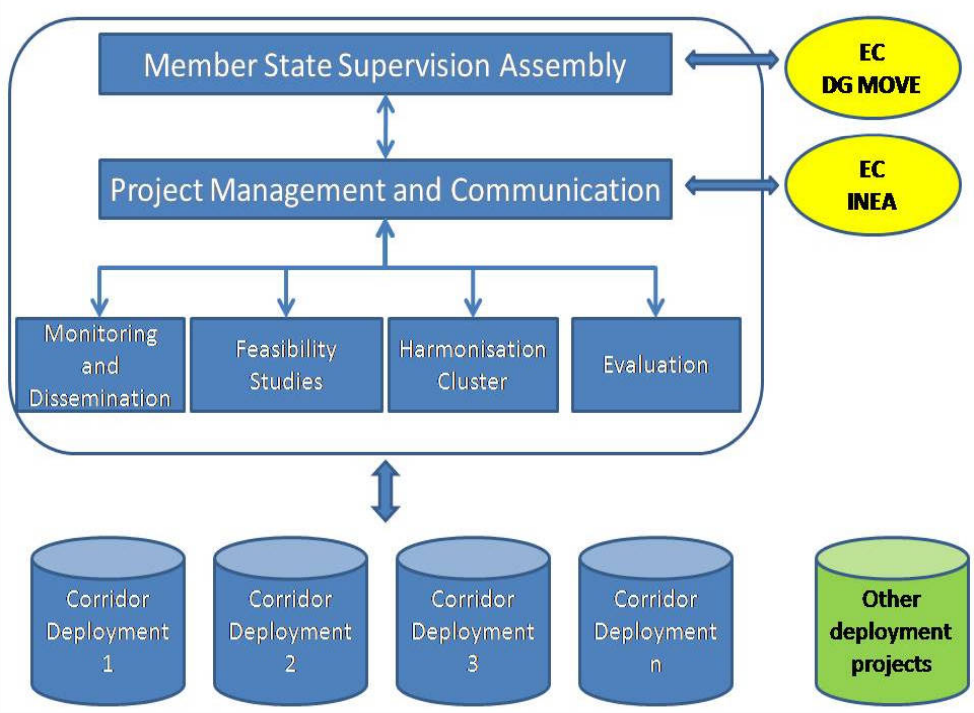
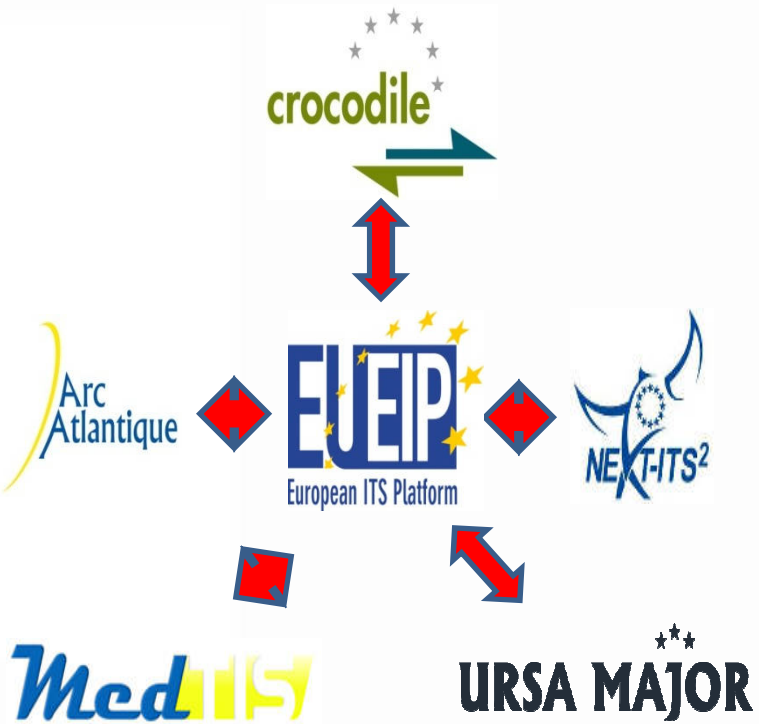
- Cooperation of partners from private and public sectors from EU Member States and neighboring countries
- To foster, accelerate and optimise current and future ITS deployments in a harmonized way
- **Technical knowledge management center for ITS Deployment**

# What is EU EIP ?

26 beneficiaries: Member States, agencies and private partners, 2016-2020




Under the CEF ITS Call 2015 besides the EU EIP
5 ***ITS Road Corridors*** have been co-funded by EC



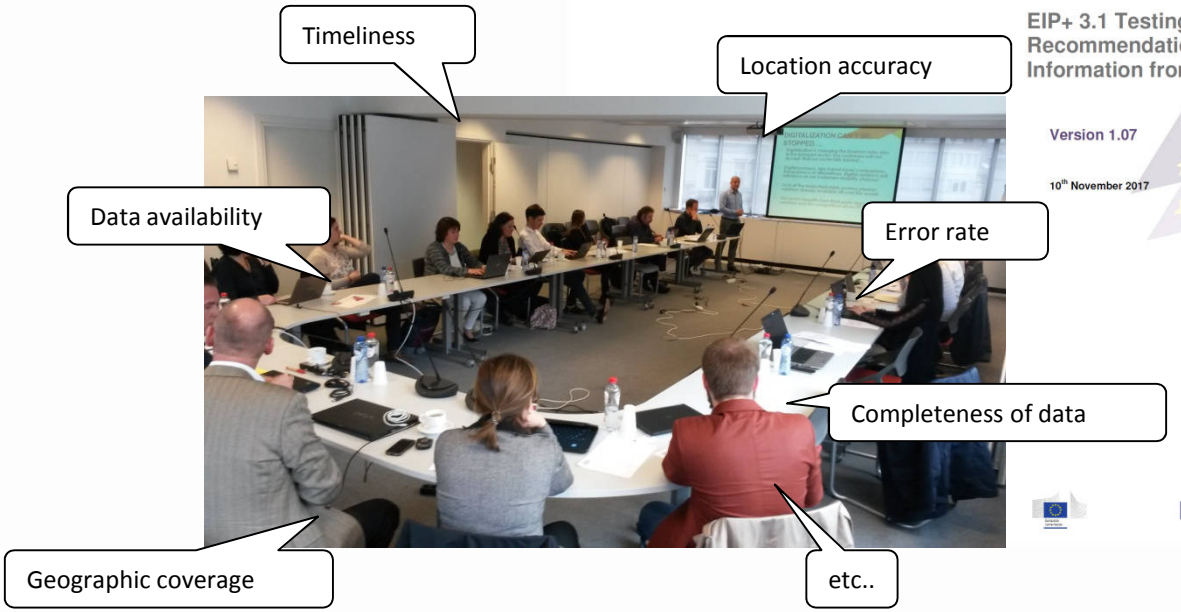
# EU EIP: Activities in the harmonizaion cluster

## **Activity 4** - Harmonization Cluster

- Sub-activity 4.1: Determining Quality of European ITS Services
- Sub-activity 4.2: Facilitating automated driving
- Sub-activity 4.3: ITS Deployment Road Map Update
- Sub-activity 4.4:Cooperative ITS Services Deployment Support
- Sub-activity 4.5:Liaison and harmonisation on interfaces for data exchange
- Sub-activity 4.6:Monitoring and Harmonisation of Single Point of Access
- Sub-activity 4.7:Provision of updates of ITS spatial road data

# EU EIP: Activities & Products

- Quality Frameworks for Priority Actions of the EU ITS Directive



# EU EIP: Activities & Products

# EU EIP Quality: Stage Plan

| Priority Action | EC Del. Reg. | Phase | | | | | |
|---|---|---|---|---|---|---|---|
| | | Take stock → | Propose → | Test → | Validate → | Enhance → | Optimise |

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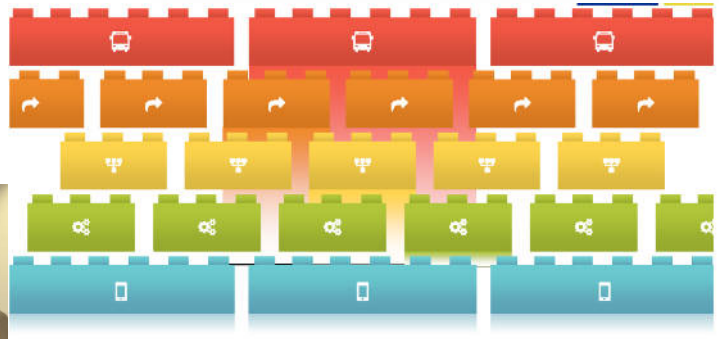
| **C)** | 886/2013 (SRTI) | ✓ | ✓ | ✓ | ✓ | (✓) | |
| **B)** | 2015/962 (RTTI) | ✓ | ✓ | ✓ | ✓ | (✓) | |
| **A)** | 2017/1926 (MMTIS) | ✓ | ✓ | (✓) | | | |
| **E)** | 885/2013 (ITP) | (✓) | | | | | |

# MMTIS Workshop: Agenda

| Time | Session | Actor |
|---|---|---|
| *10:00-10:15* | *Registration, coffee* | |
| 10:15-10:45 | EU EIP Activity 4.1 | EU EIP/BASt |
| 10:45-11:00 | EU Delegated Regulation on MMTIS | EC-DG MOVE |
| 11:00-12:30 | MMTIS Quality in Practice | MMTIS actors from DE and NL |
| *12:30-13:15* | *Lunch* | |
| 13:15-14:00 | The “MMTIS Quality Package” by EU EIP: Introduction | EU EIP partners |
| 14:00-15:15 | Group Work | Everyone |
| 15:15-15:45 | Results presentation from Group Work | Group Leaders |
| *15:45-16:00* | *Coffee break* | |
| 16:00-16:30 | The “MMTIS Quality Package” by EU EIP: Validation | EU EIP partners |
| 16:30-17:00 | Open plenum | Everyone |
| 17:00-17:15 | Conclusions and next steps | EU EIP/BASt |
| *17:15* | *End of Workshop* | |

# MMTIS Workshop: Goals

- Follow-up of MMTIS workshop in Brussels a year ago
- Continuation of dialogue with MMTIS stakeholders
- Introduce and discuss “MMTIS Quality Package”
- Beginning shift of emphasis towards validation
- Define further stakeholder involvement



Contributing to an ever growing ecosystem

- Thank you!
- Wishing you all a productive workshop!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