



# **NAPCORE**

## **The Biggest European Project on Mobility Data - Achievements and Future**

Timo Hoffmann

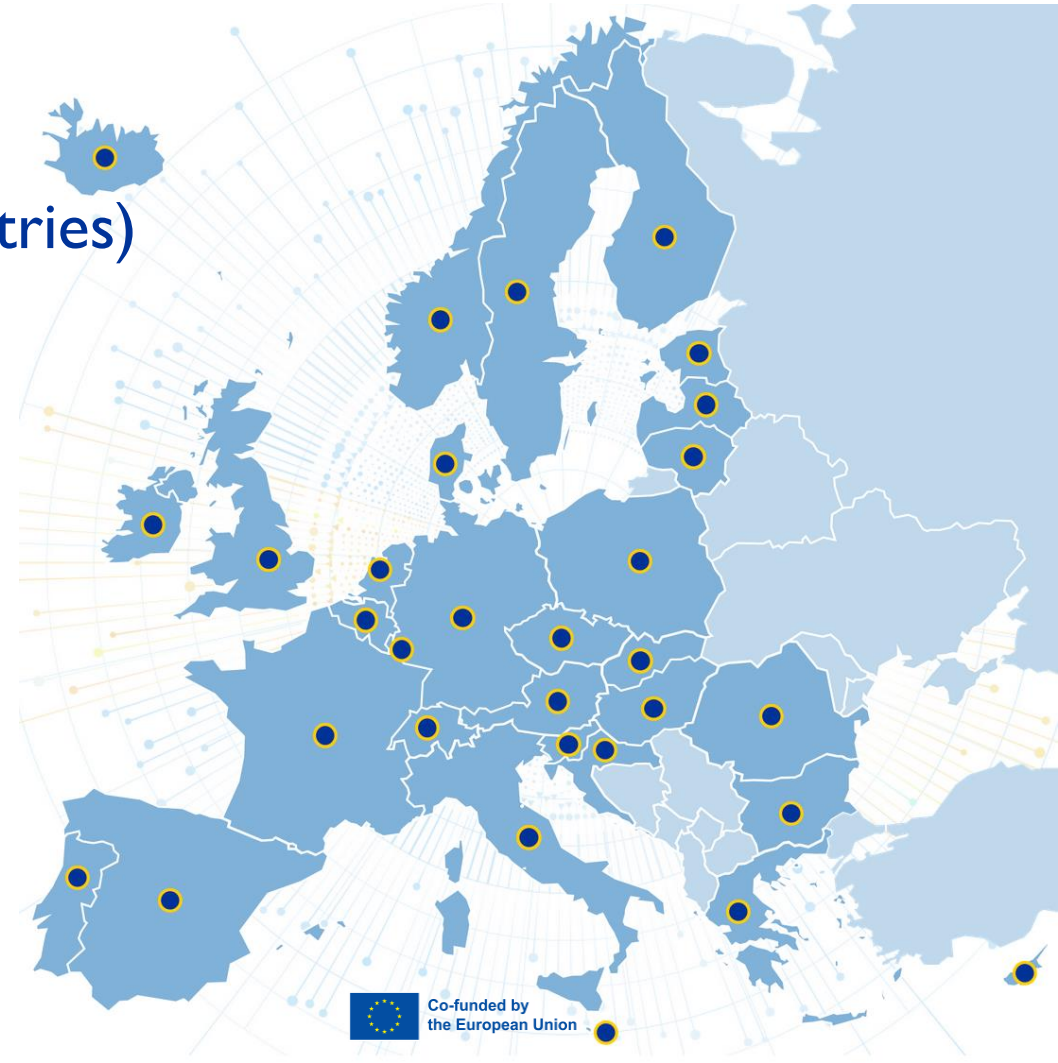
NAPCORE General Secretary

# Pan-European coordination on Mobility



## NAPCORE is:

- a project/initiative/organisation (co-)funded (€21.5m) by the European Commission
- covering most of Europe (all EU MS + 6 countries)
- currently about to start the second phase, the first funding phase is ending in June
- the only pan-European project related to mobility data for traveller information
- working on data standardisation (DATEX II, TN-ITS, NeTEx, SIRI) and interoperability of National Access Points for harmonized mobility data access throughout Europe



# Reminder: what is a NAP?



A National Access Point is

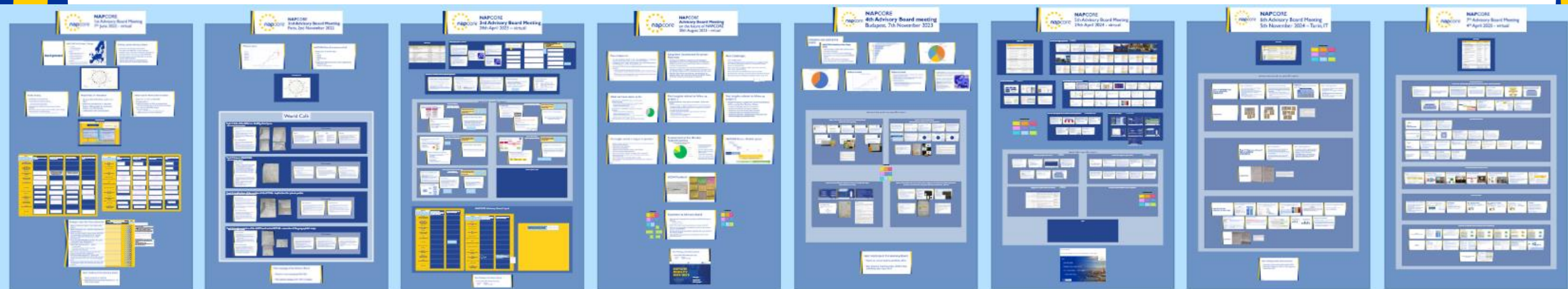
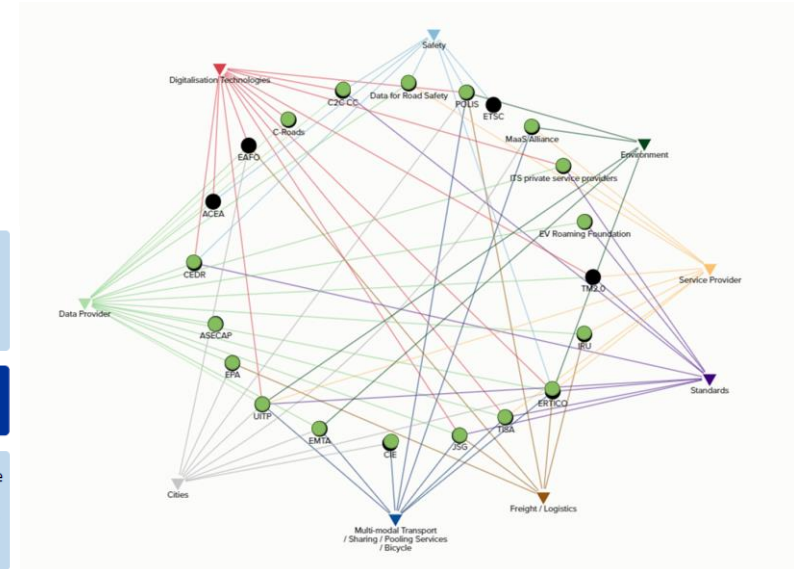
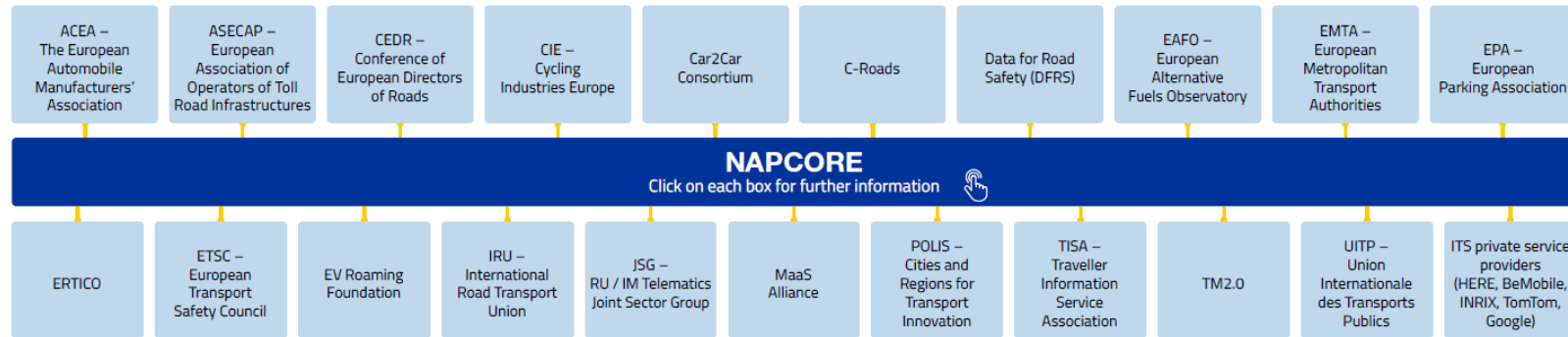
- mandated by the ITS Directive (and its Delegated Regulations)
- set up by every EU Member State and other (European) countries
- a portal/platform to access data on mobility and transport
- hosting or referencing data that can be used to create mobility services (on multimodal mobility, real-time traffic information, safety related traffic information, data on parking)
- making it easier to access data across Europe
- mainly hosting open data by infrastructure and mobility providers

# Uniting Europe on Mobility Data



- Bringing Europe together on Mobility Data with a strong and functioning governance and working structure
- >150 milestones/deliverables achieved by >70 partners and >500 experts from >30 countries
- Yearly events (NAPCORE Mobility Data Days) with >200 attendees from >30 countries
- Joint Position Papers on the revisions of the ITS Directive, the MMTIS Delegated Regulation and the planned SRTI revision (to be published in June)

# NAPCORE Advisory Board



Co-funded by  
the European Union



# Cooperation with externals - Achievements

- Cooperation Agreements with:



Cycling  
Industries  
Europe



EUROPEAN  
PARKING  
ASSOCIATION  
*Positively promoting  
parking solutions  
for sustainable mobility*



- And one Agreement on Safety Related Traffic Information (SRTI) with following partners:



# NAPCORE achievements (so far)



- Work on data standards including the merger of TN-ITS and DATEX II, a common harmonization roadmap, new versions of the standards
- First version of an ITS Data Dictionary to create a common understanding and language
- Created a first metadata catalogue specification for mobility data platforms (not only NAPs) to enable interoperable discoverability of data in Europa (and beyond): mobilityDCAT-AP



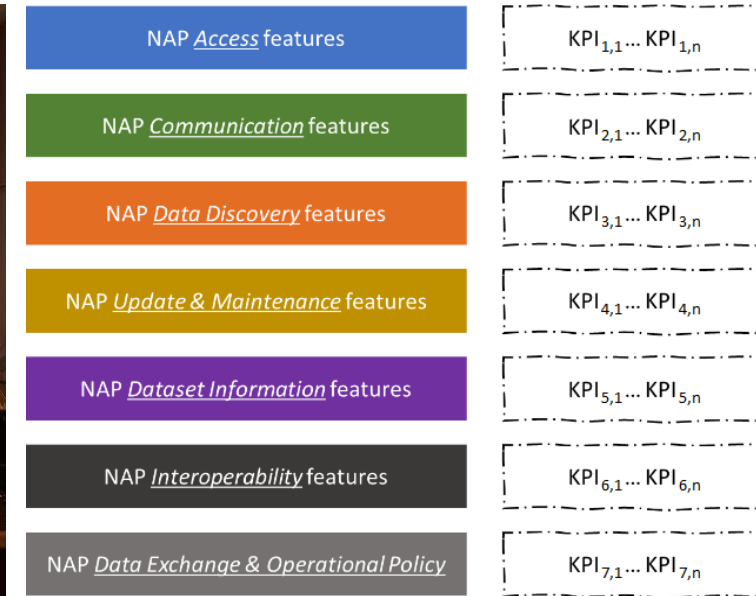
# Interoperability and NAP Level of Service

## NAPs' Levels of Service

- **KPI Framework:** Agreed minimum definitions and features for a harmonised NAP LoS
- **Self-assessment Workshops:** Annual MS self-assessments to identify gaps, justify investments, and support NAPCORE alignment and monitoring



NAP LoS Workshop, Porto, Portugal, April 2025



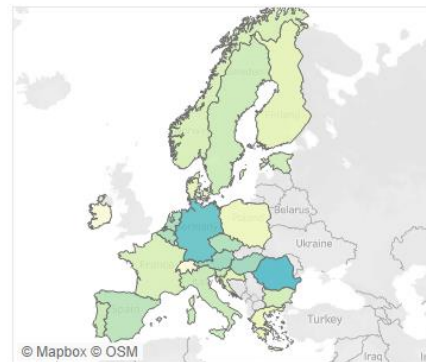
NAP LoS KPI Framework: feature categories

## Requirements concerning data standards, profiles and metadata

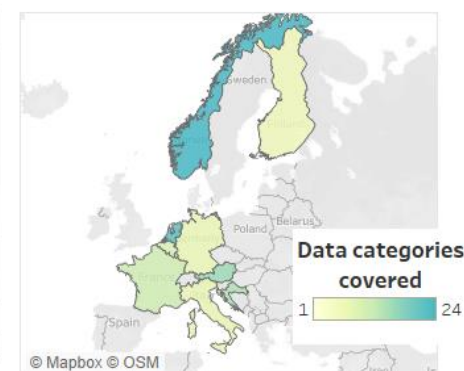
- In-depth review of existing **data standards, profiles, and metadata**
- Assessed coverage against Delegated Regulations and current MS practices



Datex II

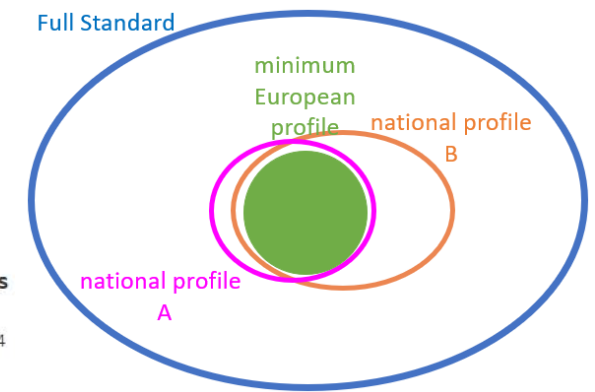


NetEx



Geographical coverage of the use of Data Standards

Full Standard

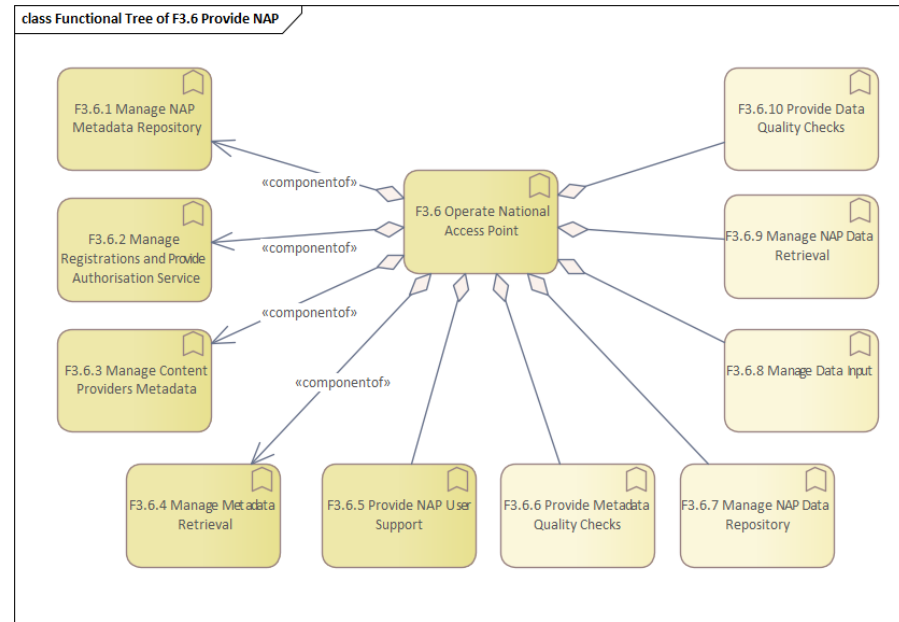


Potential of different national profiles for a specific use case

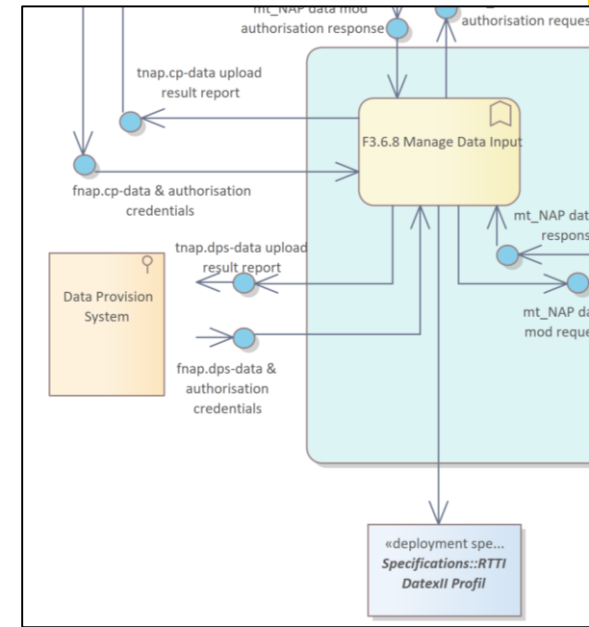
# Interoperability and NAP Level of Service

## NAP Architecture

- **NAP Reference Architecture:** Comprehensive model based on the FRAME methodology
- Defines all **architectural objects** across the different **layers** and **views** (functional, organisational, physical, etc...)
- Serves as a **blueprint** for NAP creation and upgrade



NAP Functionality tree (summarised Functional view)



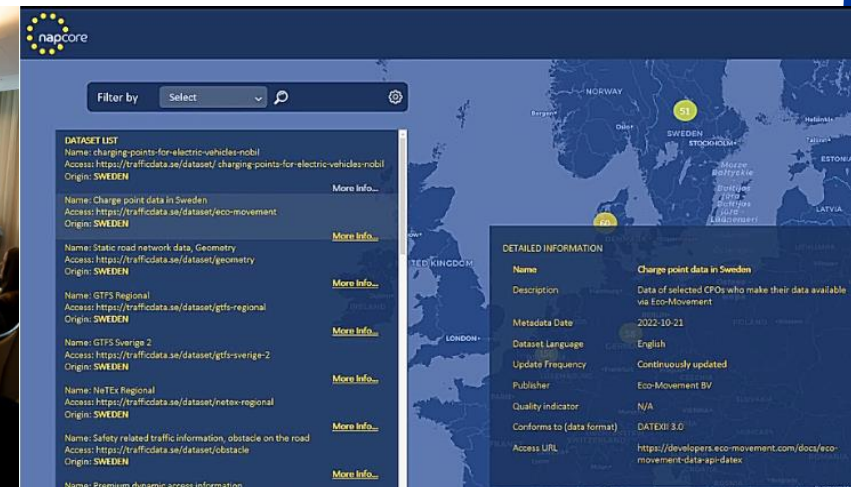
Detail of Functionality F3.6.8

## Interoperability Demonstrators

- **Use Cases:** Real-world IT solutions using NAP data to improve mobility data exchange
- **Live Demos:** Demonstrated practical use of NAP data during the NAPCORE Mobility Data Days



NAPCORE MDD, Turin, Italy, Nov 2024



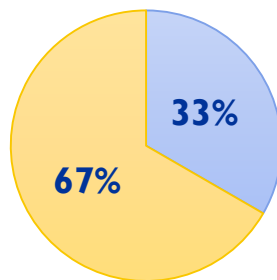
Results displayed for the metadata demonstrator

# Interoperability and NAP Level of Service (LoS)

## Key outcome: 2025 LoS assessment

- Participation – **23 Member States**
- Considerable variance across Europe – **harmonisation work remains needed**
- Most categories with the EU-average in **intermediate** maturity level
- Most NAPs host **some data** (in addition to metadata)

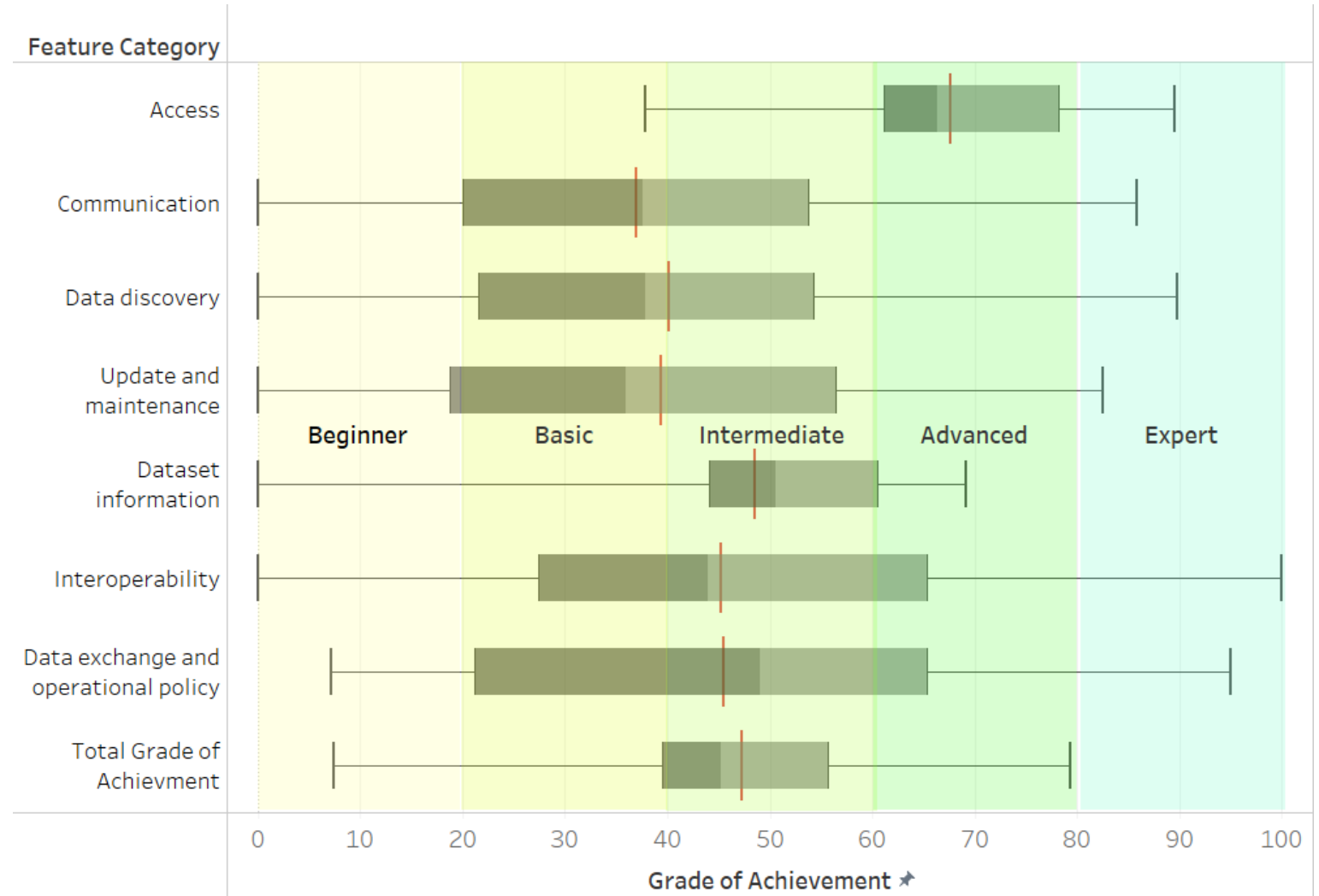
### NAP typology distribution



Metadata directory

Data platform

EU-Average



2025 NAP LoS Self-assessment EU aggregated results – “Grades of Achievement” per category

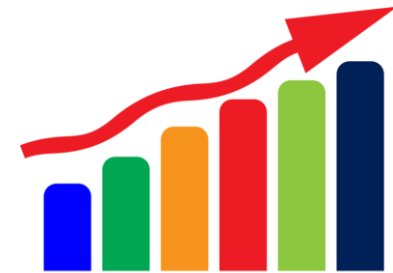
# National Bodies & Compliance Assessment

- Harmonised Compliance Assessment across all Member States to allow for interoperable mobility services across Europe
- National Body coordination group to share experiences/best practices, foster mutual learning and facilitate compliance process for multi-national stakeholders



# National Bodies & Compliance Assessment

- Regular maturity assessment proves that capacity-building regarding Compliance Assessment increased in the Member States
- Information material tailored to the needs and requirements of data/service providers disseminated across Europe



# The Future

- Second funding phase about to start in July 2025 until December 2027
- Set up of a sustainable long-term governance for the time after 2027
- Consortium of 77 partners from 33 countries, funded (85%) by DG MOVE
- Main goal: EU Member State coordination on ITS Directive data topics
- More focus on data and data standards for multimodal mobility
- More focus on community & domain management for stakeholder input and engagement to foster data provision and use
- Creation of national implementation roadmaps (implementing NAPCORE recommendations on national level in NAPs and National Bodies)

# Get involved!

Get involved in NAPCORE! Ways to do so:

- Via the new NAPCORE Academy
- Via your national NAPCORE partner
- Via the NAPCORE Advisory Board
- Via the new multimodal and road traffic community management
- Visit us at events like this or the NAPCORE Mobility Data Days
- Join us for the networking reception after this at the NAPCORE booth (D3) and connect with NAPCORE partners