



Making multimodal data usable: Tools and Quality for NAPs

Rodolfo Da Silva | KIOS CoE – University of Cyprus
WG5 Leader (Data Provision and Use)

Why MMTIS Data Quality Matters



- From Availability to Usability
 - Initial focus: “Is data available?”
 - Current need: High-quality, accessible, and interoperable
- Legal & Regulatory Compliance
- Multiple sources > (Trust) > User Experience

Result: Dedicated NAPCORE Working Group
on Data Quality and Tools (WG5)

Want the full story?

Peter Lubrich

Lubrich@bast.de

What NAPCORE Delivered



mobilitydcat-ap

Metadata Framework

Mobility extension for the DCAT application profile for data portals in Europe

Data Dictionary

Delegated Regulations
(RTTI, SRTI, SSTP, and **MMTIS**)



Quality Frameworks



Cross-Domain
(Metadata)



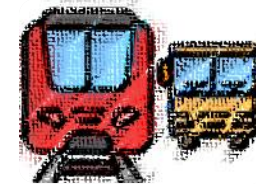
Alternative Fuels



UVAR
Data



Parking



Multimodal



Floating Car
Data (FCD)



Network
Topology

What Comes Next in NAPCORE-X

- **Data Dictionary**

- Is being updated to further detail data categories from the MMTIS DR
- Planned extension: inclusion of new data types from the Telematics TSI for rail and Alternative Fuels Infrastructure

- **Quality Frameworks**

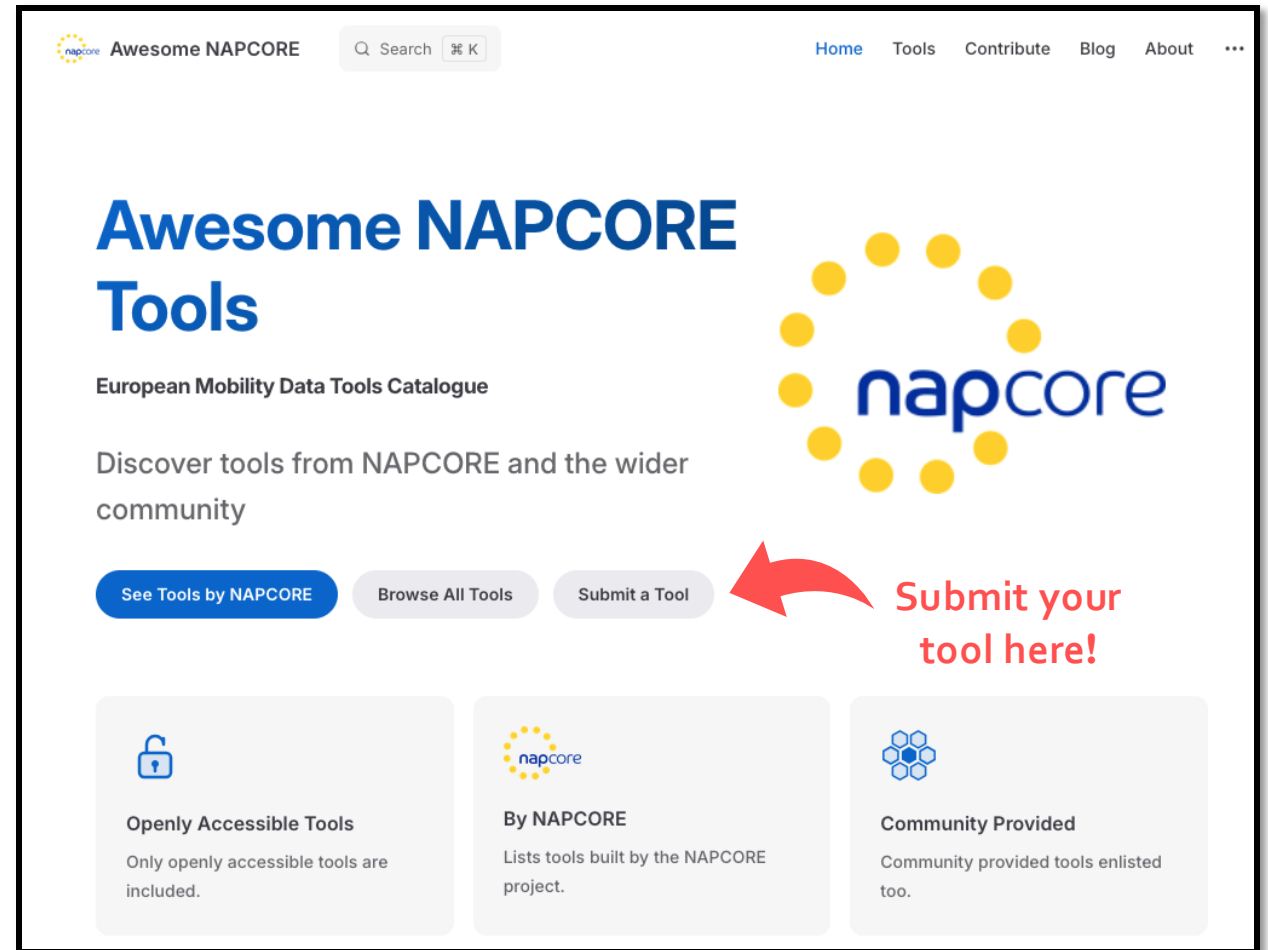
- Refine the existing framework on feedback from the multimodal community
- Strengthen practical guidance for assessing the quality of MMTIS data

- **Tools...**

Awesome Webstore Tools

- Tools developed in NAPCORE
- Tools developed elsewhere
- Expect to grow this collection to 30+ by the end of this year
- If you have a relevant, openly accessible tool, **add it here!**

<https://awesome.napcore.eu/>



Awesome Webstore Tools - Multimodal

NAPCORE Tools

- mobilityDCAT-AP Generator
- SHACL validator



...There's more on the way!

External Tools

- MOTIS
- Nplan
- OpenTripPlanner

... and yours could be next!

- Coming Soon...
 - Validation kits – Converters – Validators – ITS reporting support...

ITS Reporting Support Tool

- MMTIS emerged as the weakest point in terms of data availability on the NAPs
- Supports Member States reporting to DG MOVE, including the availability and accessibility of multimodal data on NAPs
- Explores automated and semi-automated reporting to reduce the effort for MS
- Supports the calculation of ITS reporting KPIs





Thank you!

Rodolfo Da Silva

rgomes01@ucy.ac.cy