



Workshop at UITP Summit What does it mean to use EU standards for MaaS? The case in Italy

June 7th 2023, 13:05 - 13:15 CET

### Fabrizio Arneodo (5T. CEN expert)



Data4PT has received funding from the European Union's DG for Mobility and Transport under grant agreement Nc MOVE/B4/SUB/2019-104/CEF/PSA/SI2.821136







# 1. MMTIS NAP Italian Implementation

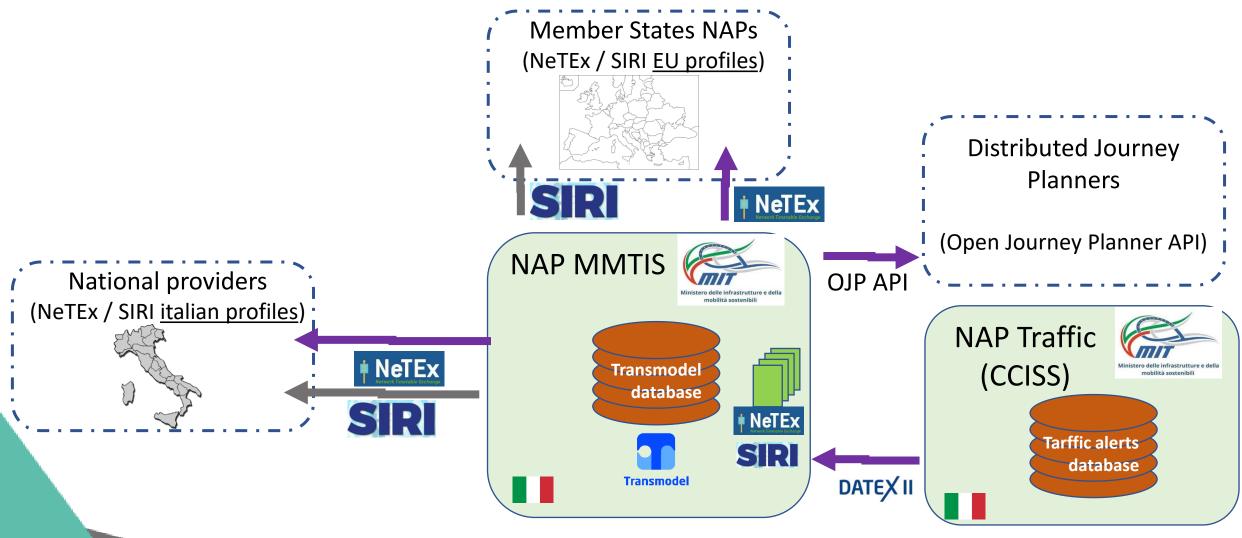
- 2. Italian EU standards Profiles
- 3. MMTIS NAP and MaaS Data produces
- 4. MaaS classification and standards
- 5. Use on EU standards in MaaS4Italy project





### **NAP MMTIS Italian Implementation** Data exchange









## **Italian EU standards Profile**

NeTEx and SIRI Italian profiles



NeTEx italian profile

### SIRI

L2 Contracts

L3 Fares

L1 EPIP

L4 Alternative Modes

L5 Accessability



#### Multimodal Travel Information Services (MMTE The National Across Netre Voltamical Malls gaterness hermation of a care of them the specific that and information provided in the Management of the Service Service and the Service Serv

Italian Multimodal National Access Point

Regional Access Puncts (called RAPs) using the European tando Marian profile (MATEs Italian Pentile), which is based on the conce 12056. The Multimodal IAIP provides users with search services for the corresponding metadada and the visualization of this content. The deal in the Americs for Groces December Dependition 1706/201

The planned LPT service (tenstabled)
 LPT transport instance topology and nucleo/lines;
 Occing and potentiarin network;
 Park & nois vitopic;
 Bite sharing stations;
 Common and special fare products.

Data suppliers

The National Access Point on Multimodal Mobility receives data in NeTEx and SIRI format fro Regional Access Points) and transport system operators.



Partner



**SIRI-ET:** Estimated Timetable service

**SIRI-SX:** Situation Exchange service: Allows

**SIRI-FM:** Facility Monitoring service



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#### RAP Piemonte - NeTEx Livello 1

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#### IT-ITC1-CCA-AMC - Profilo NeTEx (Piemonte) livello 1

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#### IT-ITC1-CCA-AMG - Profilo NeTEx (Piemonte) livello 1

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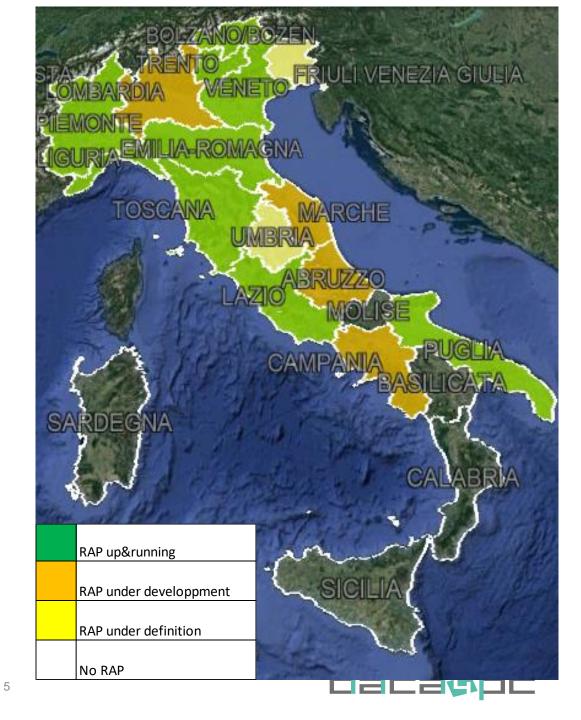




# Italian NAP MMTIS and MaaS

Data producers

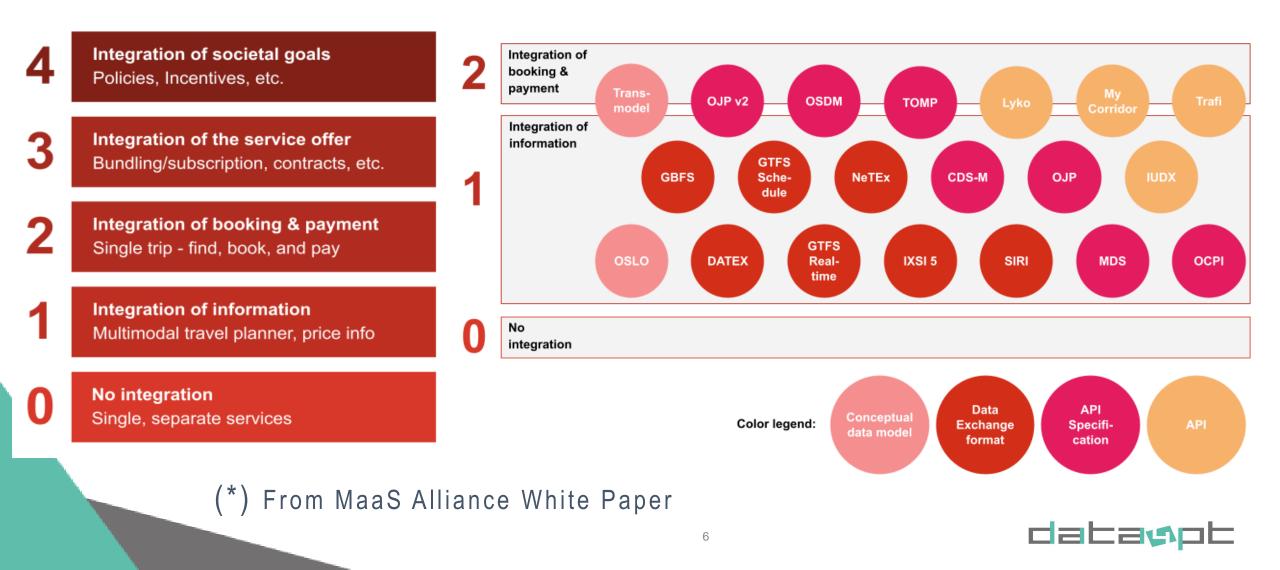
- 1. Data Aggregators at Regional Level called "Regional Access Points"
- 2. Data gathered in several ways using GTFS, GBFS, MDS, BIPEx, etc. then "converted" in NeTEx Italian profile towards NAP MMTIS







### Mobility as a Service Service level classification and standards (\*)

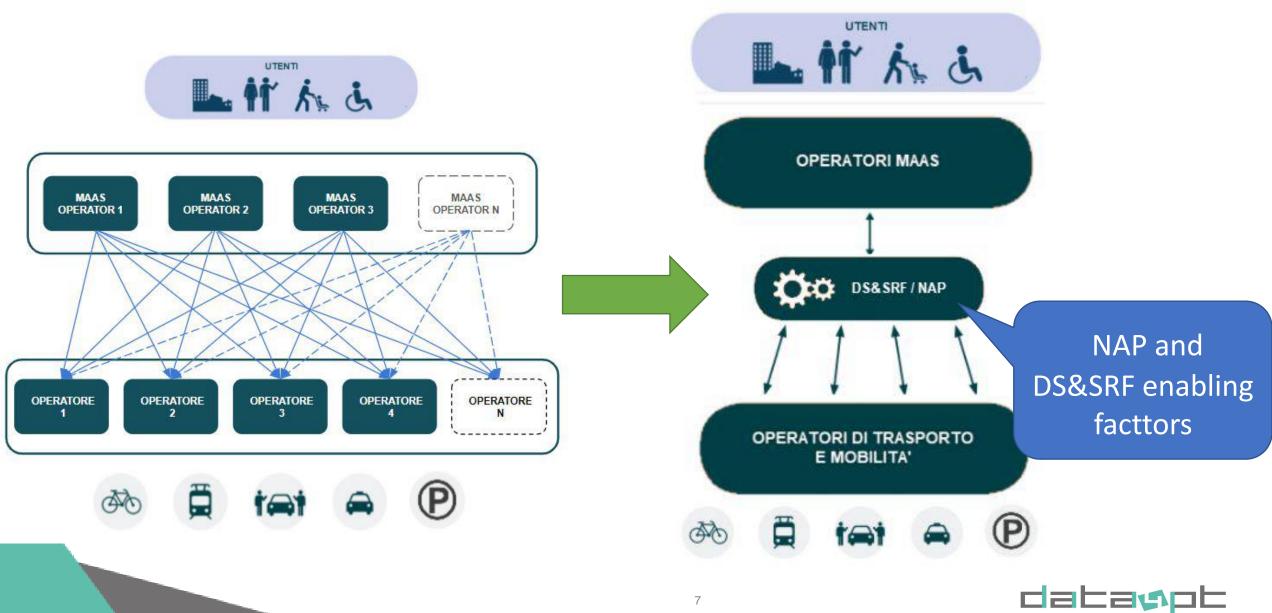




### **MaaS4Italy**



### Use on EU standards in MaaS4Italy project



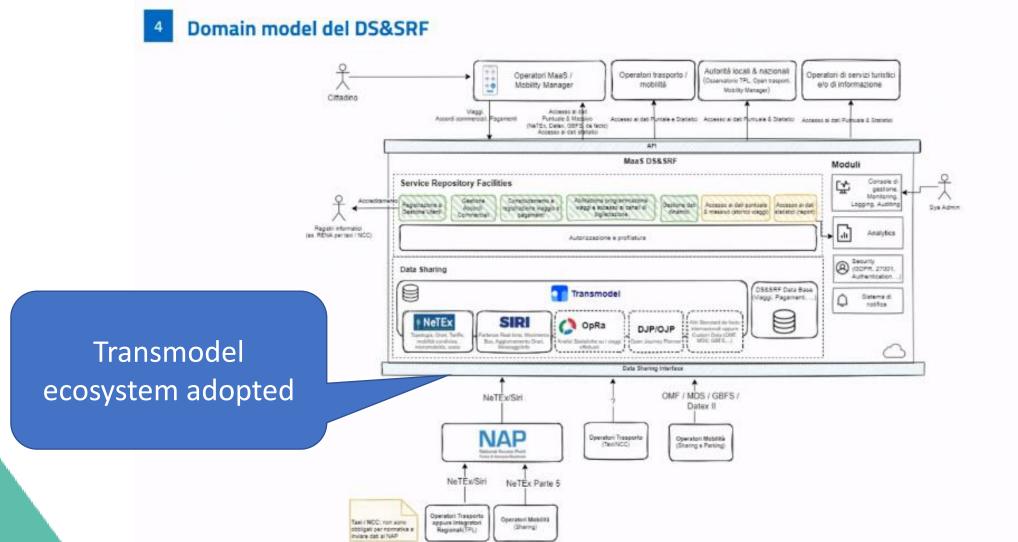


### MaaS4Italy

Use on EU standards in MaaS4Italy project

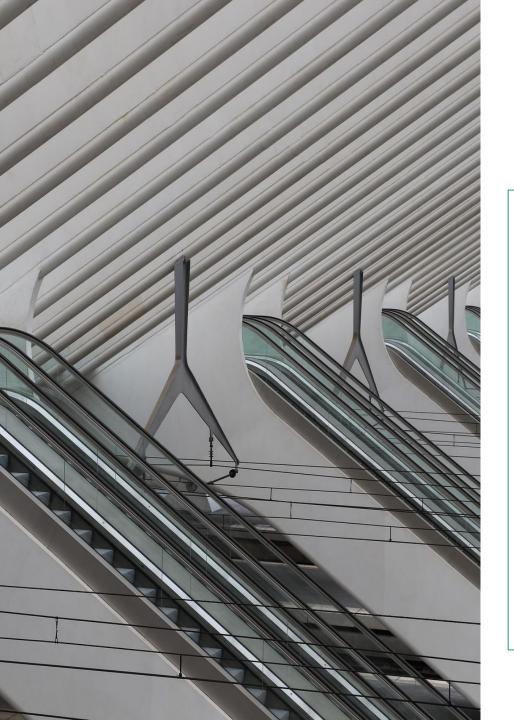


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## THANK YOU

See You Next Time

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Dr. Fabrizio Arneodo has Computer Sconce degree at Sciences at the University of Turin, with 20+ years of experience in the management of complex software development projects; he currently holds the role of CTO of the 5T company, where he oversees all the technological aspects in the application domain of intelligent transport systems.

For 10+ years he has been working as an expert recognized by UNI in the field of standardization of technologies applied to Public Transport and represents Italy in the steering committee of CEN TC278 / WG3 "ITS for Public Transport", with the role of Chairman of the Standardization Group. European OpRa (Operating Raw Data and statistics exchange).

He has more than 20 publications in national and international scientific journals in the field of vehicular traffic, public transport, infomobility, ticketing and intelligent transport systems solutions.



