Workshop at UITP Summit

What does it mean to use EU standards for MaaS?

The case in Italy

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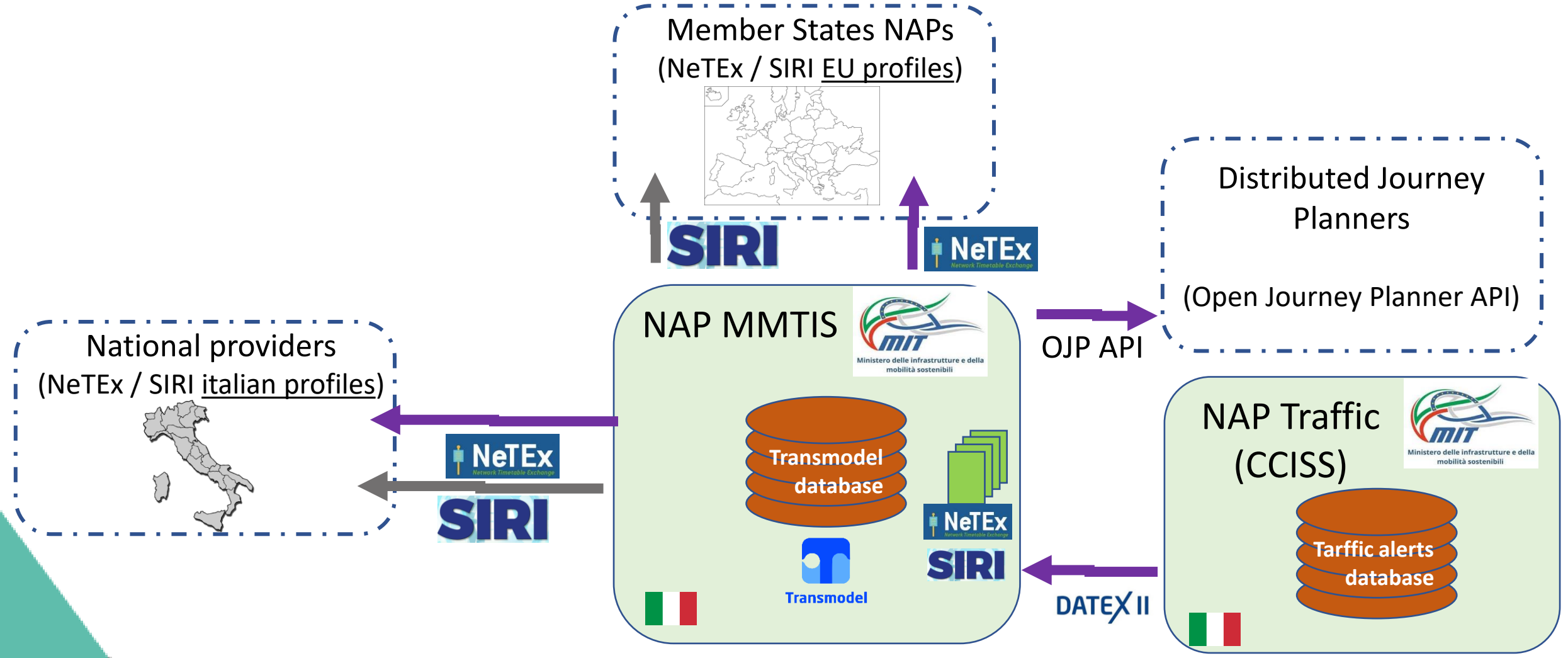
TECNOLOGIE TELEMATICHE TRASPORTI TRAFFICO TORINO

Agenda

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

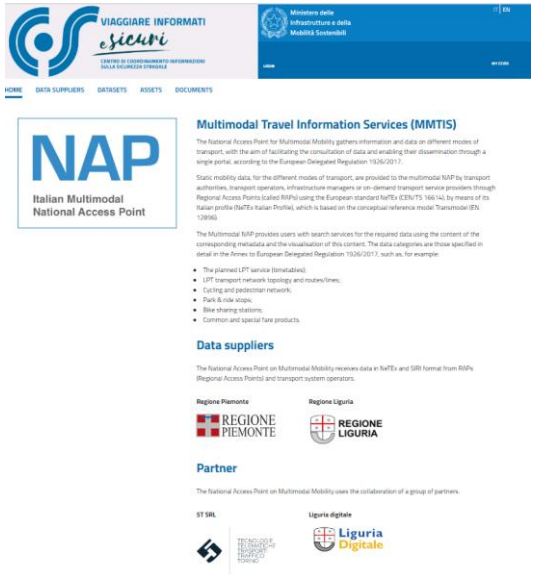
NeTEx italian profile	
L1	EPIP
L2	Contracts
L3	Fares
L4	Alternative Modes
L5	Accessability

SIRI

SIRI-ET: Estimated Timetable service

SIRI-SX: Situation Exchange service: Allows

SIRI-FM: Facility Monitoring service

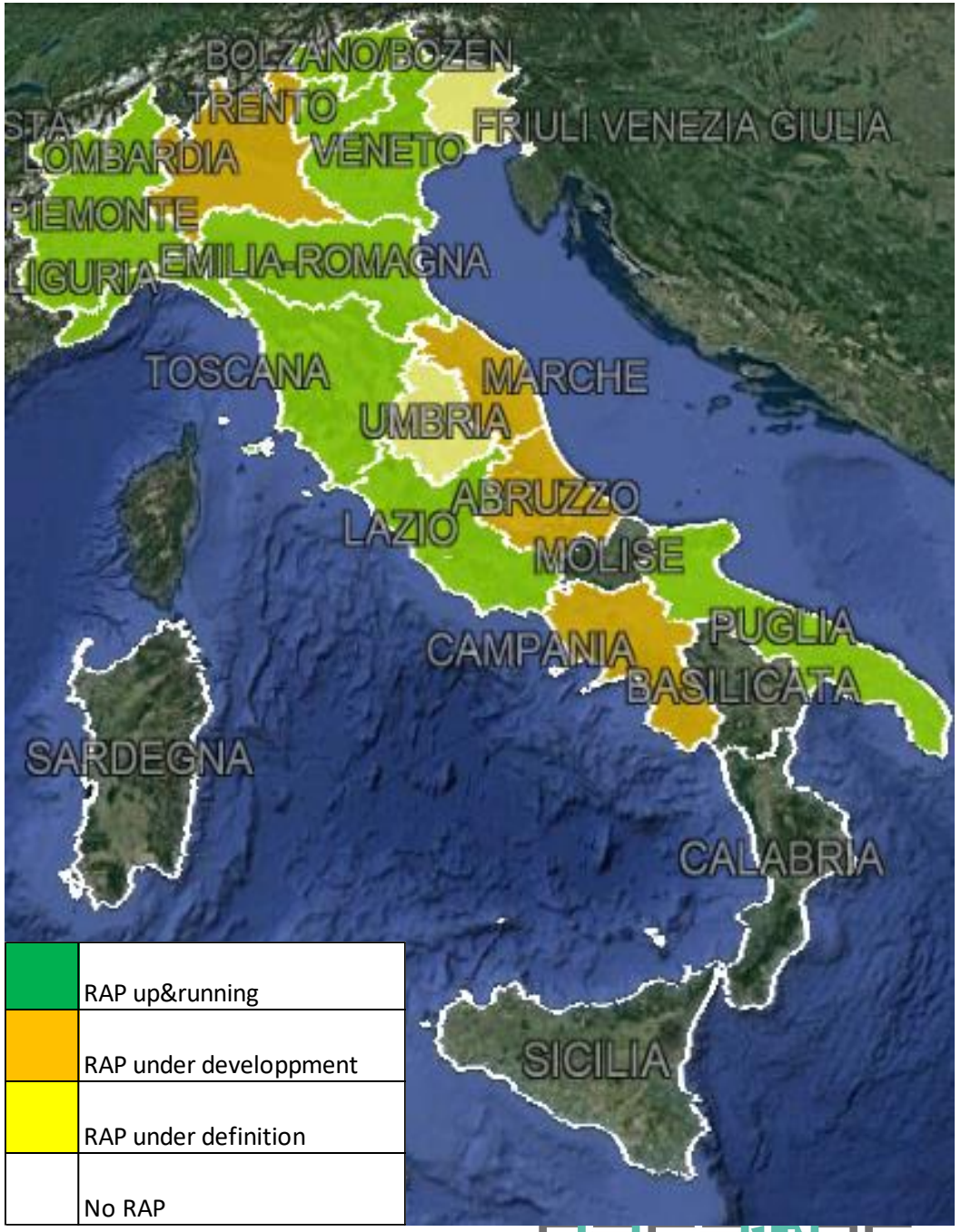


IT NeTEx Profile datasets with metadata

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 (*)

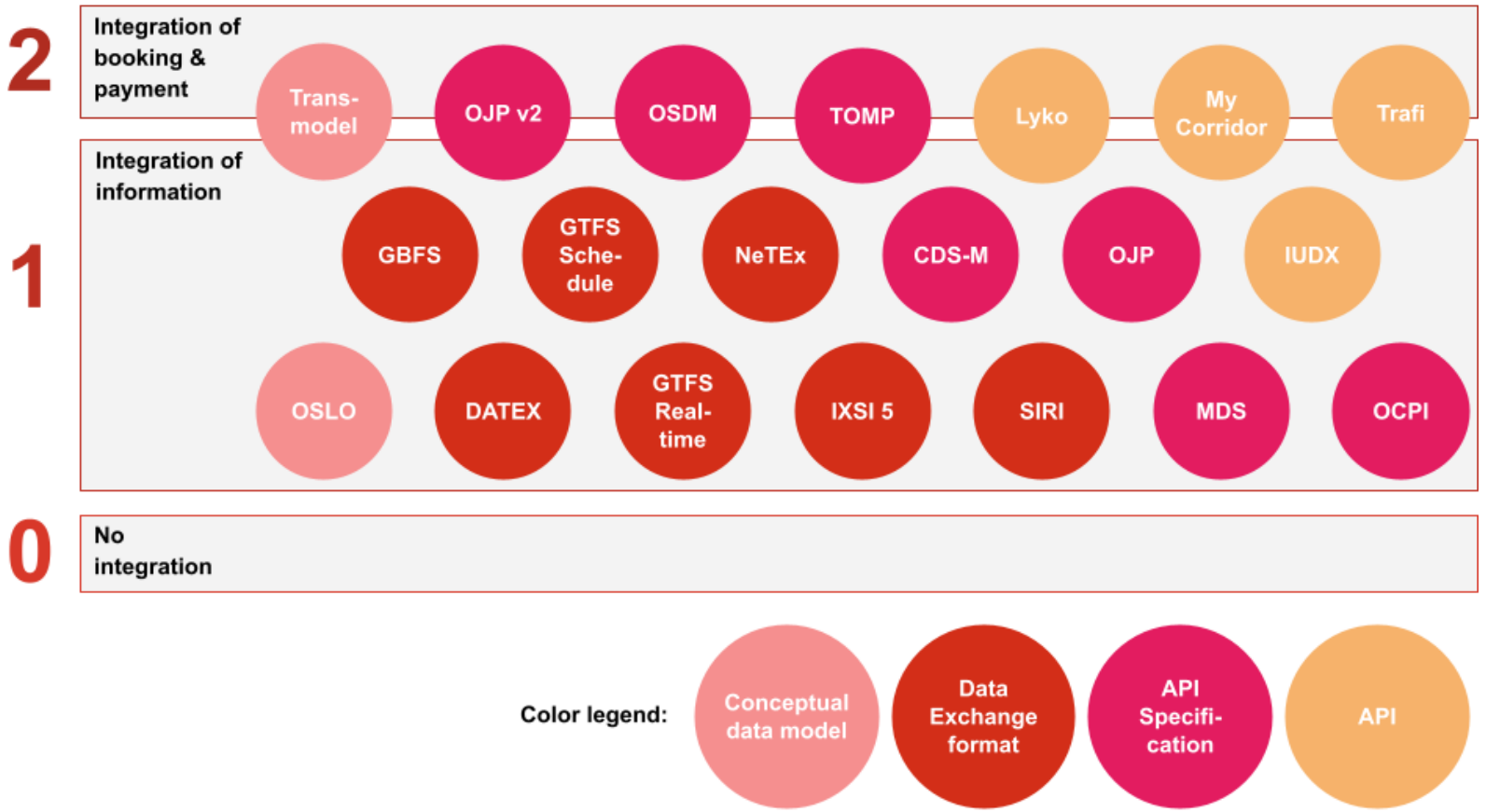
4 — Integration of societal goals
Policies, Incentives, etc.

3 — Integration of the service offer
Bundling/subscription, contracts, etc.

2 — Integration of booking & payment
Single trip - find, book, and pay

1 — Integration of information
Multimodal travel planner, price info

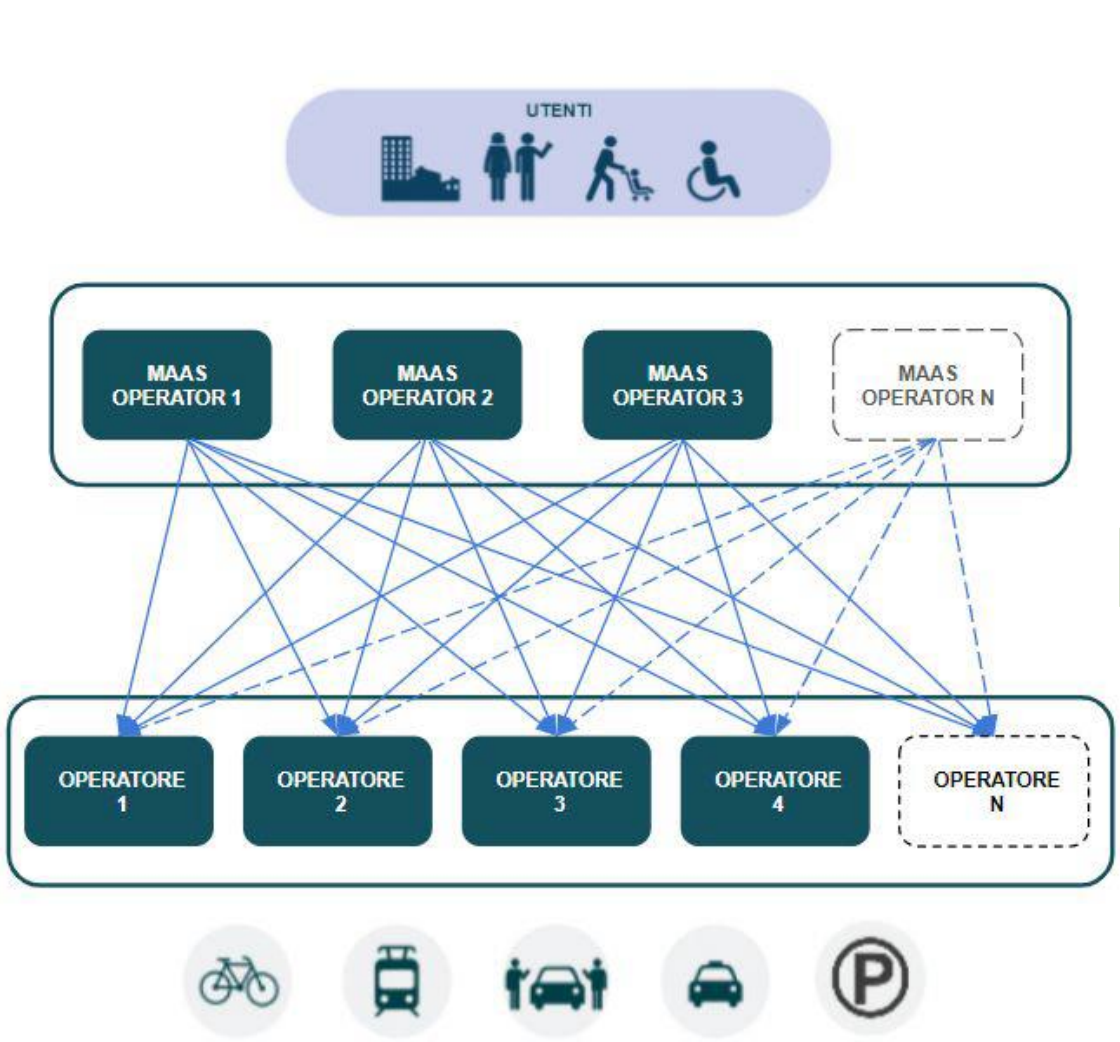
0 — No integration
Single, separate services

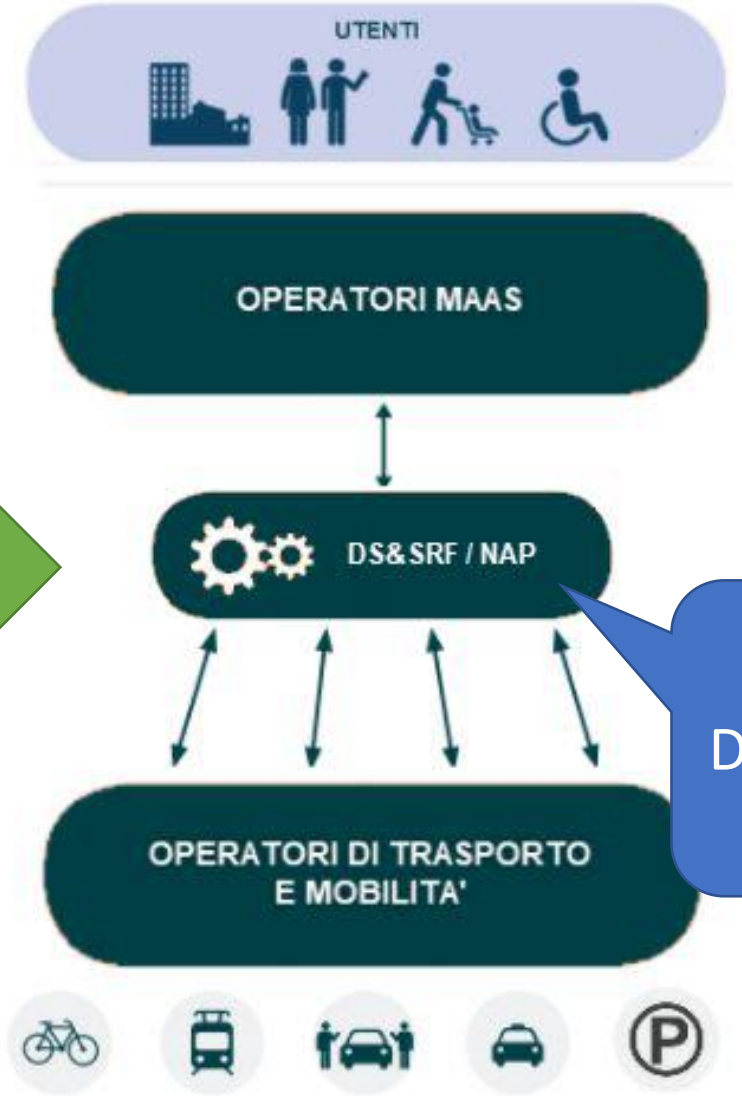


(*) From MaaS Alliance White Paper

MaaS4Italy

Use on EU standards in MaaS4Italy project



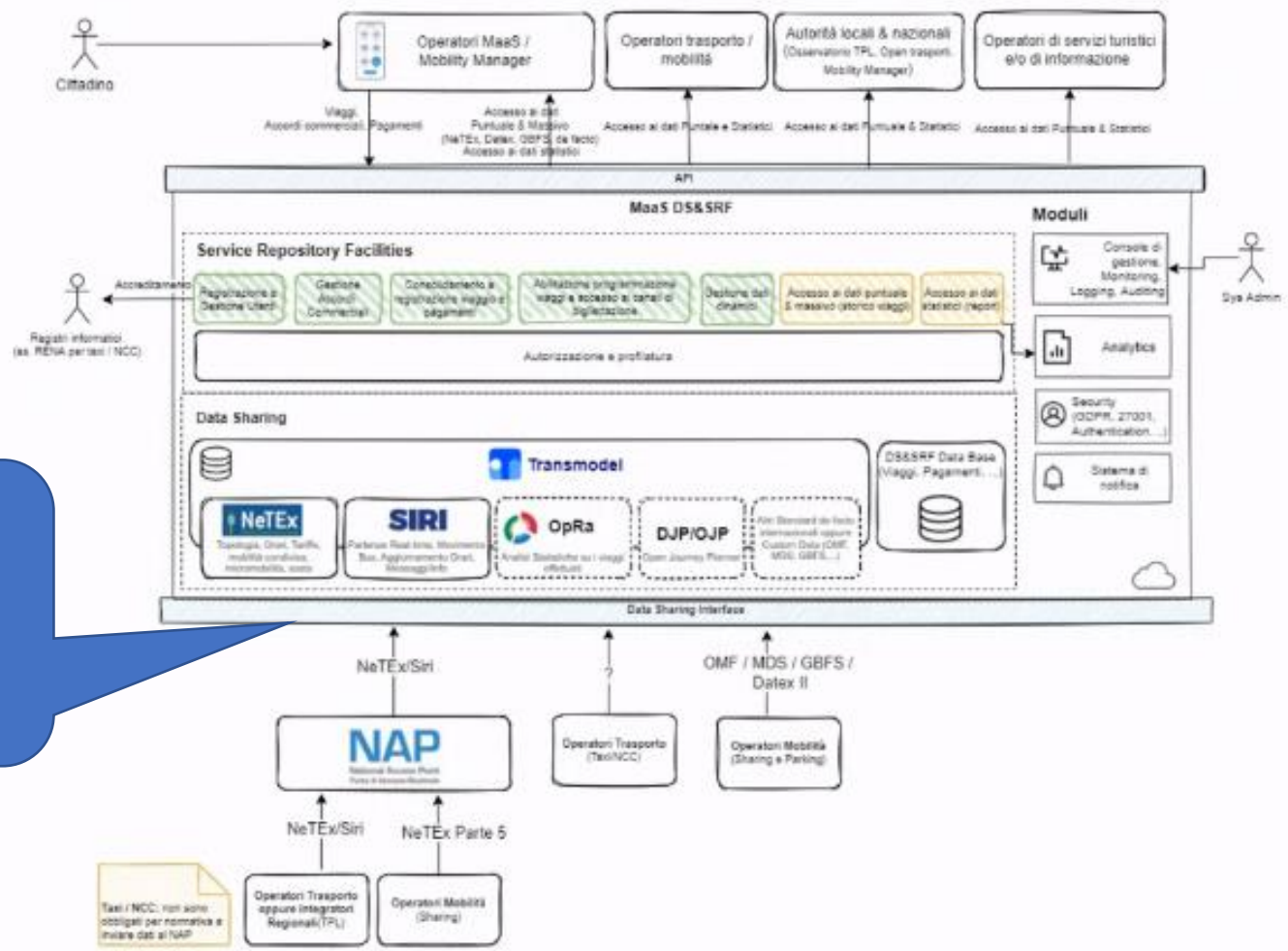


NAP and DS&SRF enabling facttors

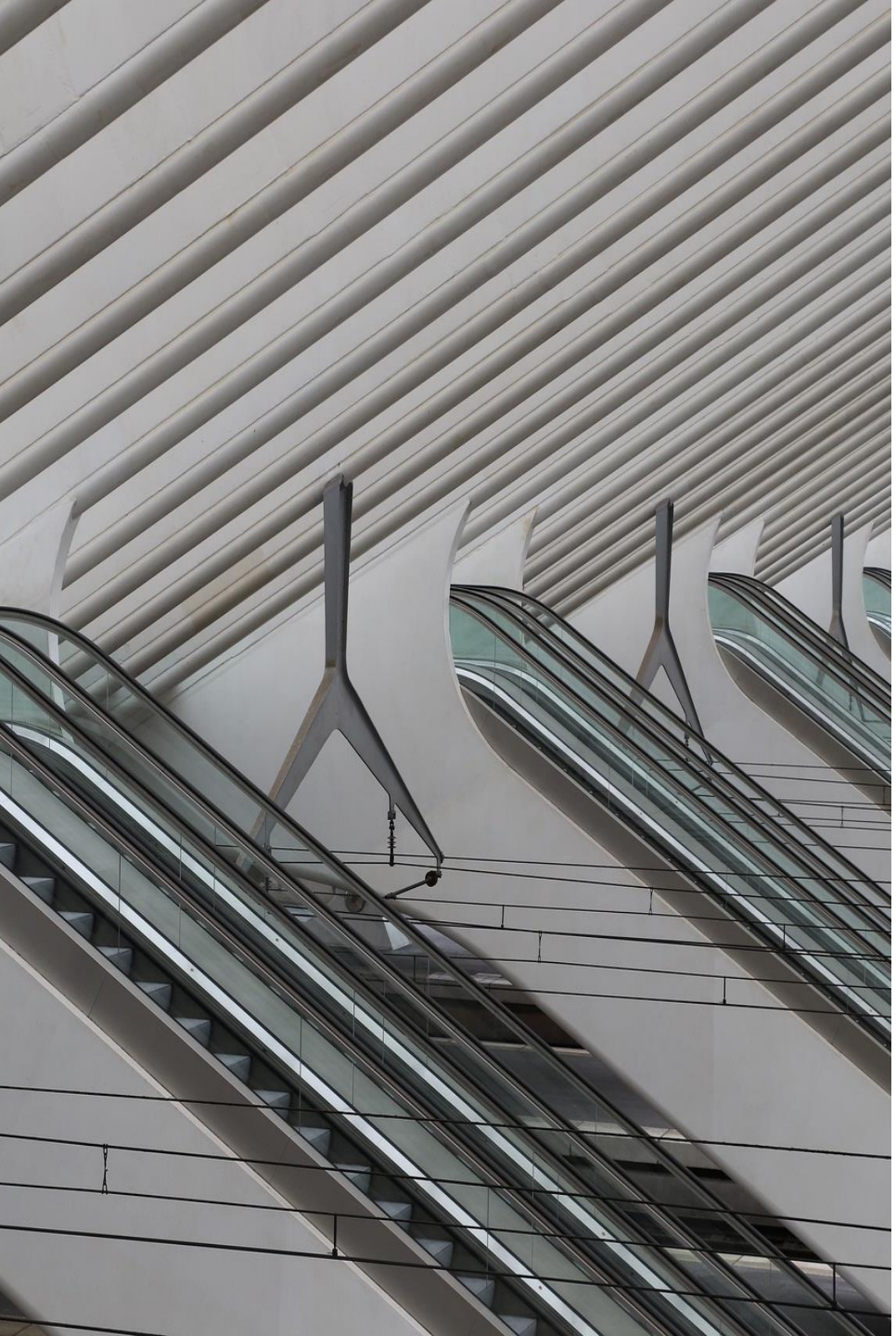
MaaS4Italy

Use on EU standards in MaaS4Italy project

4 Domain model del DS&SRF



Transmodel ecosystem adopted



THANK YOU

See You Next Time

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https://data4pt.org/wiki/Main_Page

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.