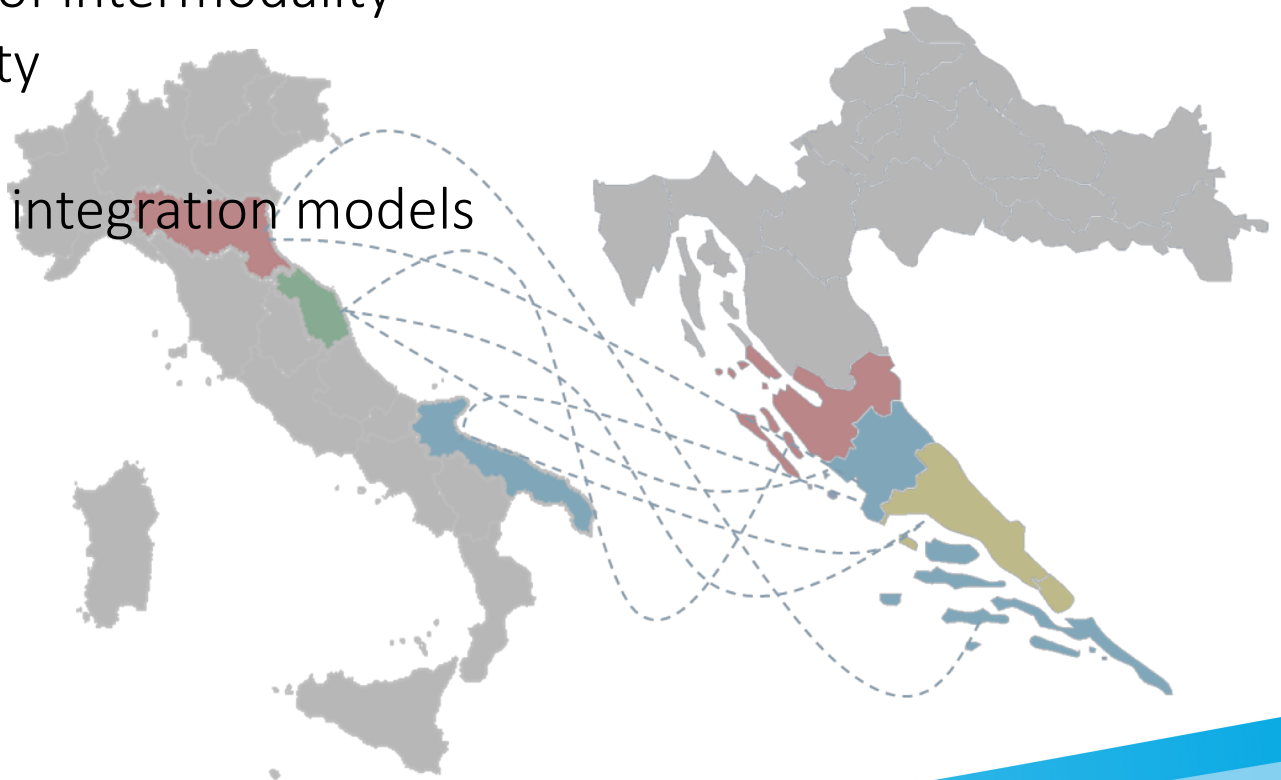# *Intermodality for a seamless solution*

STEP-UP|Marche Region

First training session | Trieste | 7 May 2019

Outline

- Definition of intermodality
- Google Transit as example of intermodality
- Definition of interoperability
- Model of integration
- Three different example of integration models
- Impacts

Intermodality

Intermodality is the door to door passengers movement by several modes of transport (more than one) where each of these modes have a different transport provider or entity responsible for them.

The aim of intermodal technology is to facilitate efficient and comfortable use of compatible transport modes.

Intermodality

Key factors

End-users	Infrastructure	Mobility Data

- Citizens
- Vulnerable users
- Young
- Students
- Tourists

Conscious behavior of the users.

Sustainable and green choice

Infrastructure and services help people to combine modes of transport and swiftly pass from one to another mean.

Understanding and monitoring the complete network of available transportation modes represent a major opportunity for the travelers and for businesses.

PluService.NET
Integrated Information System for Mobility

Intermodality

End-users	Infrastructure	Mobility Data

Google transit

Intermodal system where users can search door to door travel solutions.

Google transit

Integration of different modes of transport: train, bus, tram, metro.

Interoperability

Interoperability, in the field of passengers transport, means that all travellers can move thanks to transport modes through one device and unique user travel experience. The scope of the interoperability is reached by the integrated services on different nature that operate together in the same environment.

The integrated services aim at making easier the requests of users:
- Travel planning solution
- Booking (related to the previously research)
- Ticket issue
- Payment
- Ticket validation

Interoperability

Model of integration

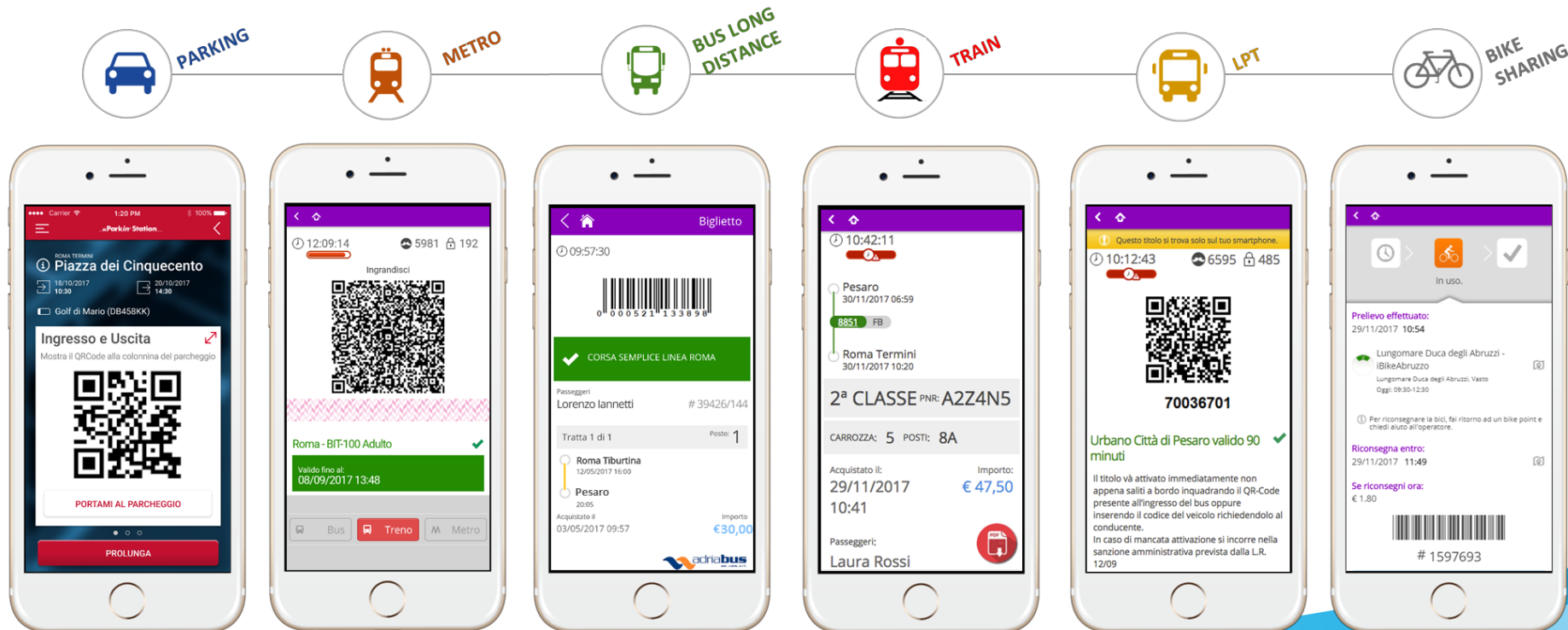| Scheme	Area	Integration type					Mode	Tourism services
		Ticket	Pay	ICT4M	ICT4T	Pack		
TfL – Oyster	London	X		X			Bus, metro, taxi, train, bike sharing, car sharing	
Moovel	Hamburg	X	X	X			Bus, tram, car rental, taxi, train	
Hannovermobil	Hanover	X	X	X			Bus, train, taxi, car sharing, car rental	
myCicero	Italy	X	X	X	X		Bus, metro, tram, train, bike sharing	Tourism information
UbiGo	Stockholm	X	X	X		X	Bus, tram, train, ferry, v-sharing, car rental, taxi	
Whim	Helsinki, Birmingham, Antwerp	X	X	X		X	Public transport, car rental, bike sharing, taxi, car sharing	

Transport for London - Oyster

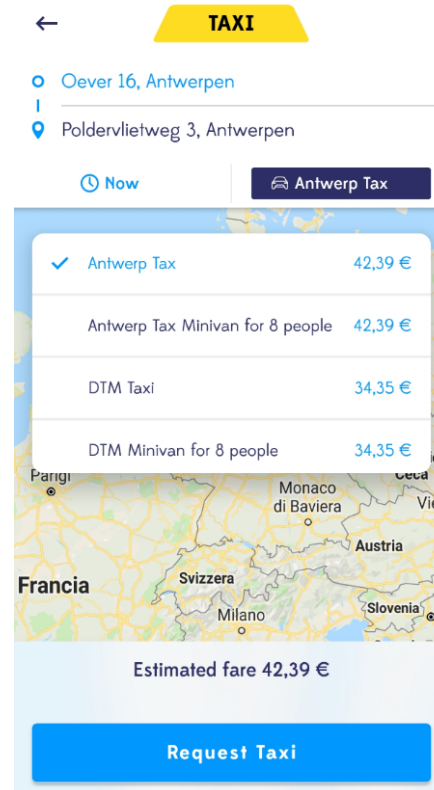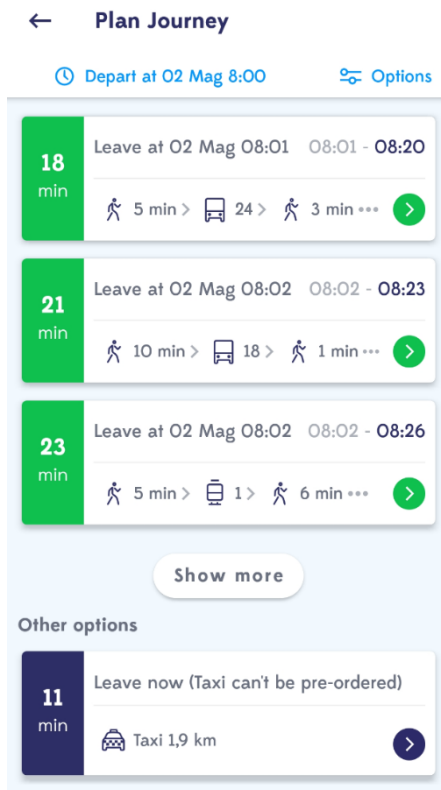Interoperable system in a card

myCicero

One-stop mobility shop - Example of Mobility-as-a-Service in Italy

Jumping in and out of a metro, bus, ferry, train or v-sharing and pay the right amount or the best fare calculated has become much easier for users.
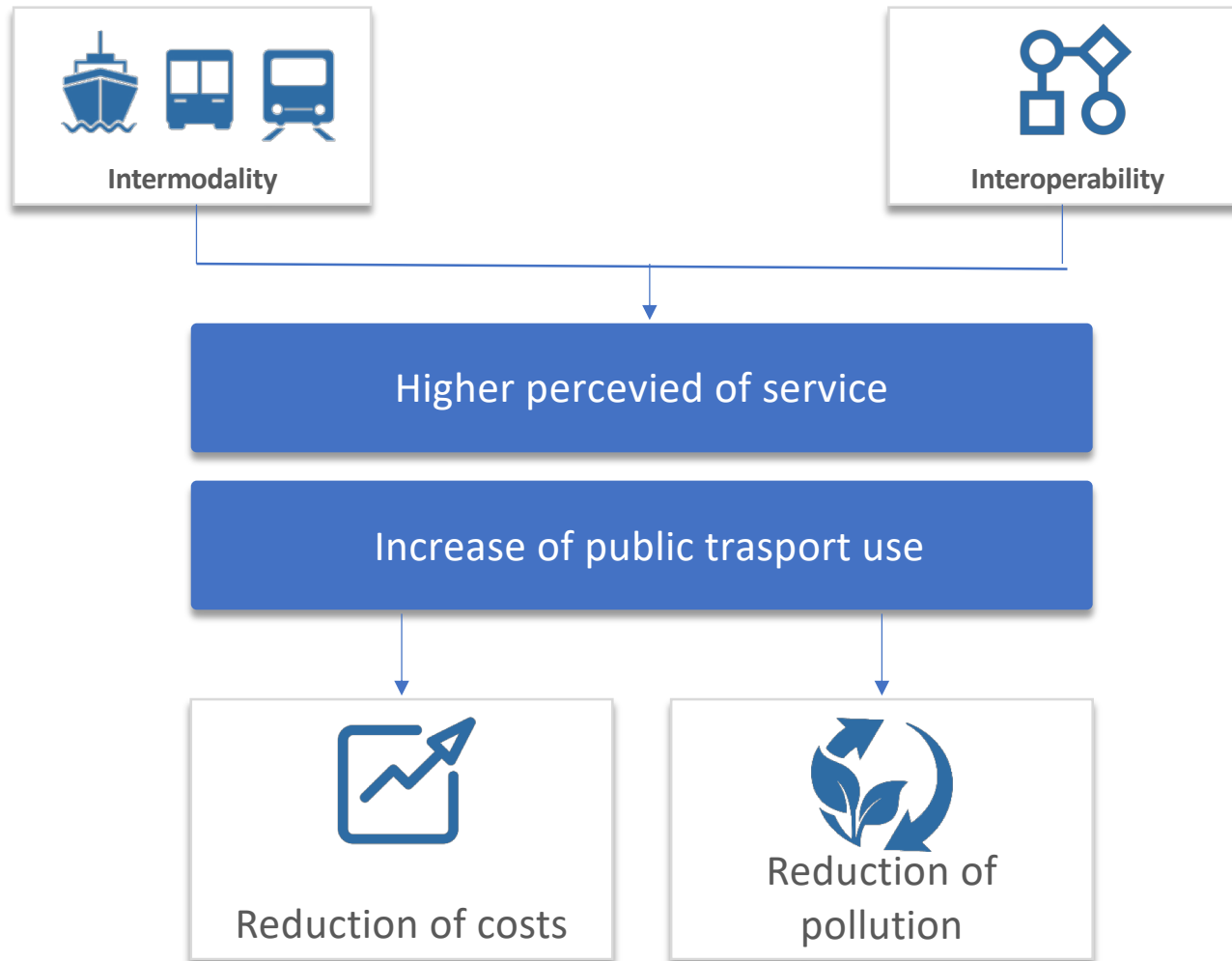
WHIM

It is the most complete example of Mobility-as-a-Service because it includes mobility package.

Impacts

Intermodality

Interoperability

Higher percevied of service

Increase of public trasport use

Reduction of costs

Reduction of pollution

Thank you for your attention!

Giorgia Fanesi

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