

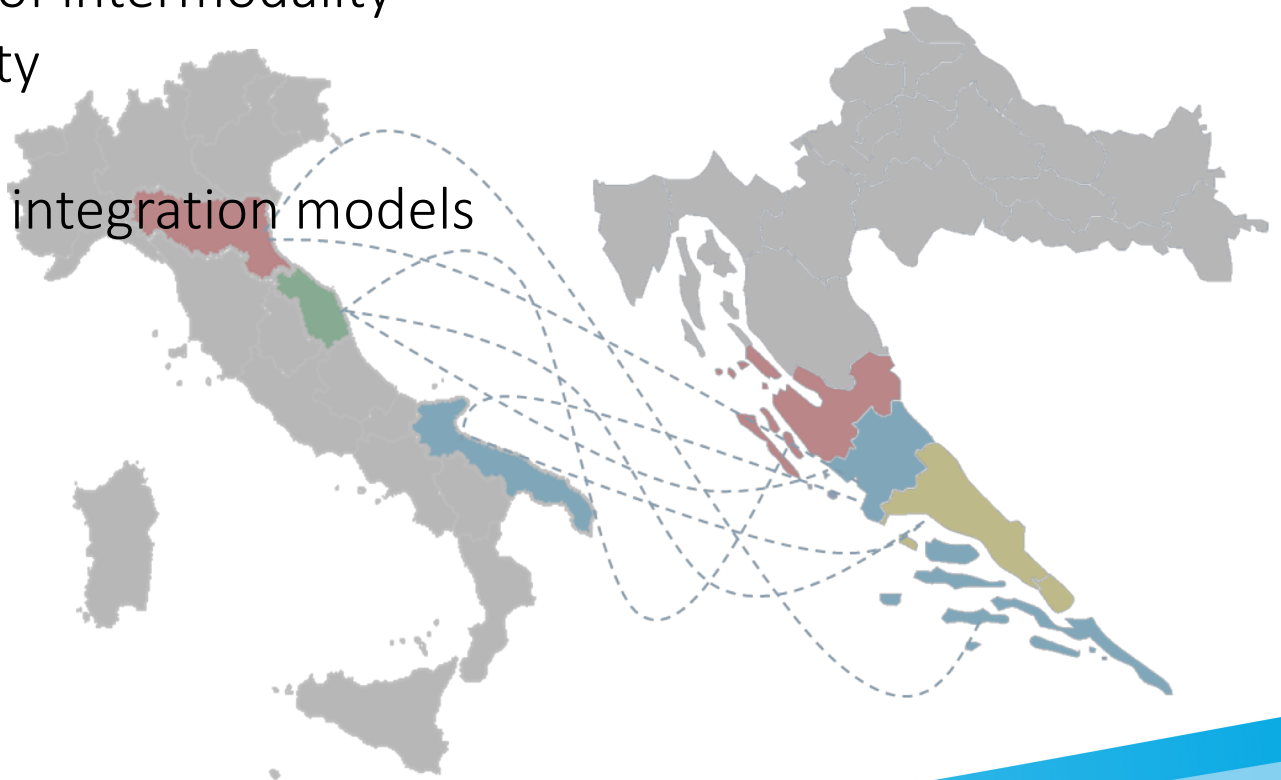
Intermodality for a seamless solution

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

- Citizens
- Vulnerable users
- Young
- Students
- Tourists

Conscious behavior of the users.

Sustainable and green choice

Infrastructure

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

Mobility Data

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

Intermodality

End-users

Infrastructure

Mobility Data



PLUSERVICE.NET

Integrated Information System
for Mobility

Google transit

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

Google Maps Transit

[Home](#) [Cities Covered](#)

From
Via Aurelio Saffi, Bolog

To
Trieste, TS, Italia

[Get Directions](#)

Options

Any transit mode ▾

Best route ▾

[Join Transit Partner Program](#)

If you provide a transportation service that is open to the public, and operates with fixed schedules and routes, we welcome your participation - it is simple and free.

Mappa Satellite

Oceanico Atlantico settentrionale

Oceano Atlantico Meridionale

Oceano Indiano

Dati mappa ©2019 Termini e condizioni d'uso

Google transit

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

The screenshot displays the Google Transit interface for a journey from Trieste, Provincia di Trieste to Via Aurelio Saffi, 40131 Bologna BO. The search bar shows the origin and destination. Below the search bar, there are icons for different transport modes: car, train, walking, bicycle, and airplane. The main content area shows three transit options:

- Option 1:** 09:15–12:51, 3 h 36 min. Modes: RV (Tram) > Italo AV (Train) > 36 (Bus). Details: 09:15 da Trieste Centrale, 4 min walking.
- Option 2:** 09:15–12:52, 3 h 37 min. Modes: RV (Tram) > Italo AV (Train) > 39 (Bus).
- Option 3:** 09:15–12:50, 3 h 35 min. Modes: RV (Tram) > Italo AV (Train) > 87 (Bus) > Walking.

The map view shows the route starting from Trieste Centrale, passing through Venezia-Mestre, and ending at Via Aurelio Saffi in Bologna. The route is highlighted in red and grey, with a callout box indicating a duration of 3 h 36 min for the red segment and 3 h 37 min for the grey segment. The map also shows various cities and roads in the region, including Udine, Gorizia, Pordenone, and Chioggia.

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

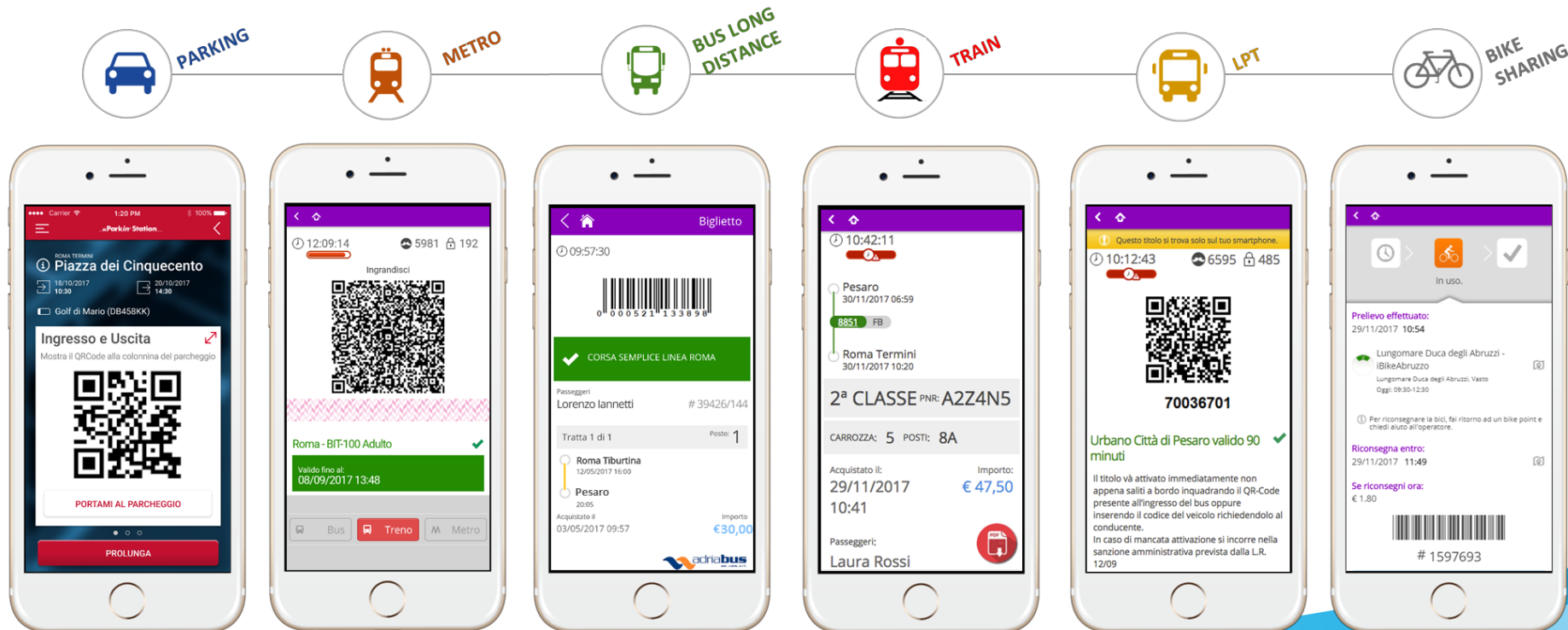
Interoperable system in a card

The image shows a screenshot of the Transport for London website. The top navigation bar includes the Transport for London logo, links for 'Plan a journey', 'Status updates', 'Maps', 'Fares', 'Help & contacts', and 'More'. A search bar is located on the right. The main content area features a 'Plan a journey' section with tabs for 'New', 'My Journeys', and 'Recents'. Below these are input fields for 'From' and 'To', a 'Leaving' time selector, and an 'Edit preferences' link. A prominent blue button labeled 'Plan my journey' is at the bottom of this section. To the right, a promotional banner reads 'TAP INTO THE WONDERFUL WORLD OF OFF-PEAK' with an image of children playing. A dark box on the banner says 'Go and discover London this spring Start exploring'. On the far right, an Oyster card is displayed with the text 'oyster', 'Transport for London', and 'Issued subject to conditions - see over'.

myCicero

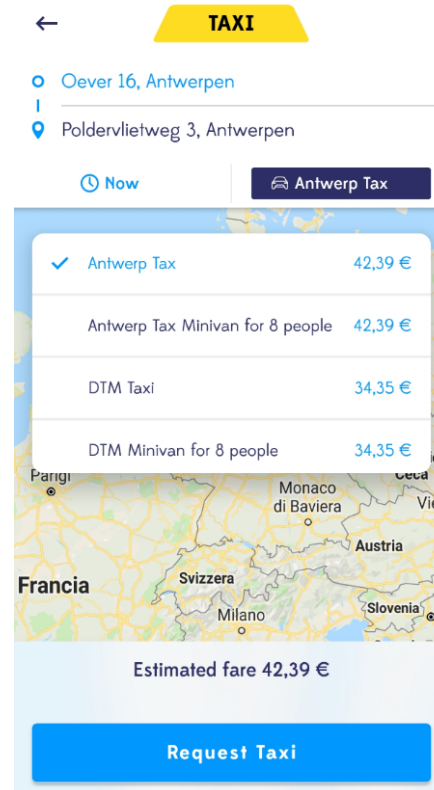
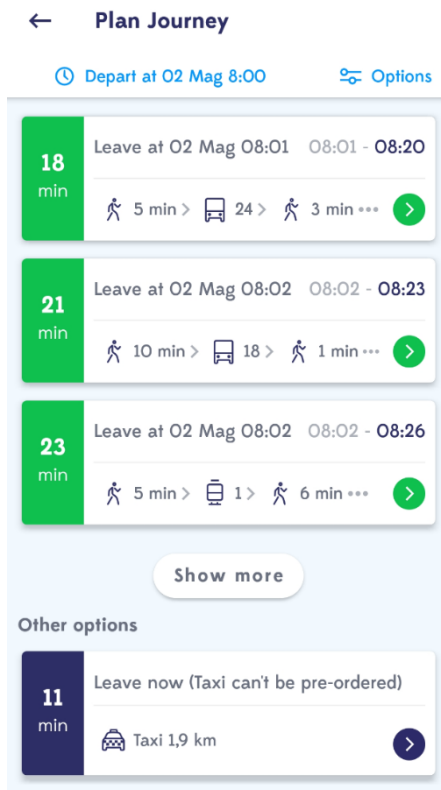
One-stop mobility shop - Example of Mobility-as-a-Service in Italy

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

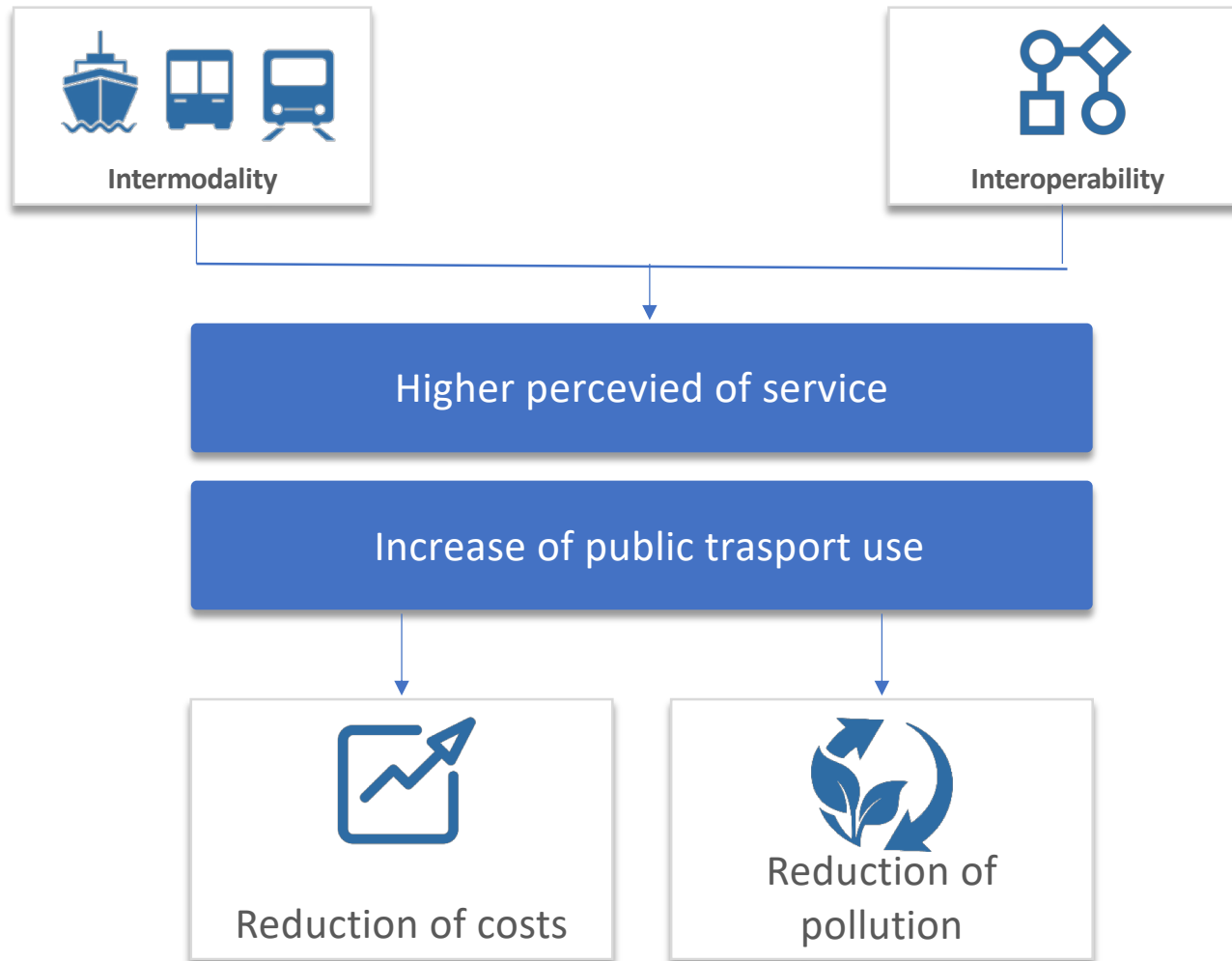
It is the most complete example of Mobility-as-a-Service because it includes mobility package.



Whim Unlimited
€499
/ month
Unlimited access to car, taxi,
public transport, and city bike.
[read more](#)


Whim to Go
Pay as you go
Each trip is paid separately with
no subscription fee.
[read more](#)

Impacts




Thank you for your attention!

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