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
Google transit

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

<table>
<thead>
<tr>
<th>Scheme</th>
<th>Area</th>
<th>Integration type</th>
<th>Mode</th>
<th>Tourism services</th>
</tr>
</thead>
<tbody>
<tr>
<td>TfL – Oyster</td>
<td>London</td>
<td>Ticket Pay ICT4M Pack</td>
<td>Bus, metro, taxi, train, bike sharing, car sharing</td>
<td></td>
</tr>
<tr>
<td>Moovel</td>
<td>Hamburg</td>
<td>Ticket Pay ICT4M Pack</td>
<td>Bus, tram, car rental, taxi, train</td>
<td></td>
</tr>
<tr>
<td>Hannovermobil</td>
<td>Hanover</td>
<td>Ticket Pay ICT4M Pack</td>
<td>Bus, train, taxi, car sharing, car rental</td>
<td></td>
</tr>
<tr>
<td>myCicero</td>
<td>Italy</td>
<td>Ticket Pay ICT4M Pack</td>
<td>Bus, metro, tram, train, bike sharing</td>
<td>Tourism information</td>
</tr>
<tr>
<td>UbiGo</td>
<td>Stockholm</td>
<td>Ticket Pay ICT4M Pack</td>
<td>Bus, tram, train, ferry, v-sharing, car rental, taxi</td>
<td></td>
</tr>
<tr>
<td>Whim</td>
<td>Helsinki, Birmingham, Antwerp</td>
<td>Ticket Pay ICT4M Pack</td>
<td>Public transport, car rental, bike sharing, taxi, car sharing</td>
<td></td>
</tr>
</tbody>
</table>
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.
It is the most complete example of Mobility-as-a-Service because it includes mobility package.
Impacts

Intermodality

Interoperability

Higher perceived of service

Increase of public transport use

Reduction of costs

Reduction of pollution
Thank you for your attention!

Giorgia Fanesi

Pluservice srl – S.S. Adriatica Sud 228/d – 60019, Senigallia - Italy

Giorgia.fanesi@pluservice.net

+39 347 7488730