The Next Generation of Urban Interchanges

Caroline Hoogendoorn (UITP)
The efficient urban trip is intermodal. An integrated urban transport system enables efficient movements of persons and goods.
The NODES project

• FP7 Collaborative project
• Total budget: **4.2 million €** (EC cont.: 2.8 million €)
• Project duration: **3 years** (start date: 1 October 2012)
• Coordinated by
• **17 partners**

Local Government Administrations:
- Madrid, Birmingham,
- Toulouse, Reading,
- Budapest, Thessaloniki

Public Transport Operators:
- Rome, Osnabrück, NS,
- Cityway

Research centre and consultants:
- TU Delft, Berends,
- DTV, FIT

3 European associations:
- UITP, Polis, EPF
Key interchange functions

- Land use & infrastructure
- Business models
- Design
- Energy and Environment
- Intermodality and ICT
NODES approach

The NODES Approach

- Land use & infrastructure
- Design
- Intermodality & ICT
- Business models
- Energy & Environment

State of the Art
User needs and system requirements

Performance Criteria and Indicators → Key performance Indicators

NODES TOOLBOX

Validation in application sites → Evaluation → Transfer
Application sites

BIRMINGHAM, UK
READING, UK
ROUEN, FRANCE
TOULOUSE, FRANCE
OSNABRÜCK, GERMANY
THE NETHERLANDS
BUDAPEST, HUNGARY
ROME, ITALY
THESSALONIKI, GREECE
NODES Toolbox

- Build a **Toolbox** to support European cities, transport authorities and operators, in the design and operation of new or upgraded public transport interchanges
- Web-based
NODES Toolbox: examples

Progressive disclosure of information, linking pedestrian information systems and public transport information

Interchange Typology Diagrammatic Representation
Conclusion

Employment

The public transport sector is amongst the largest employers at local level, employing 2 MILLION PEOPLE
i.e. 20% of the 10 million people employed in the overall transport industry

2 to 2.5 indirect jobs typically exist for each direct job in the public transport sector.

Contribution to the economy

Public transport services contribute between €130 - 150bn per year to the economy
i.e. 1-1.2% to GDP

Road congestion costs the economy 1% of the GDP

Annual investment in public transport accounts for €40bn
i.e. 0.5% of cities’ GDP

Ridership

The total number of passenger journeys made by public transport every year is almost 60bn.
In comparison, long distance rail accounts for 1 billion passenger journeys and commercial aviation for 800 million.

Out of this figure, buses account for 32bn passenger journeys, tram & light rail for 8bn, metro for 9bn and regional and suburban rail for 8bn.

Source: UITP
More information?

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