NODES

Creating space(s) for Collaborative Mobility

WOCOMOCO 2015 Ivo Cré, Polis

Regulate this, WOCOMOCO!

- Integrated ticketing and information services
- (Semi-) professional drivers
- Taxi permits
- Access to data / privacy
- Tendering concessions Quality partnerships
- Allocation of Incentives
- Parking management
- Access restrictions
- Access to terminals/interchanges
- Land use permits integration with transport services
- Standardisation (e.g. For public bicycles)
- Passenger rights in a multimodal services / spaces
- MSP certification
- Payment / ticketing
- Local taxes and fares
- MaaS
- Driverless vehicles
- Role of CoMo in emergency situations
- •









NODES



collectivity meets connectivity



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



NODES objectives



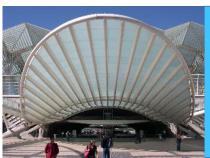
- Build a **Toolbox** to support
 European cities, transport
 authorities and operators, in the
 design and operation of new or
 upgraded public transport
 interchanges
- Enhance services and satisfaction for travellers, users and societal/economic actors depending on the efficiency of the interchange



NODES topics



Land use & infrastructure (11 tools)



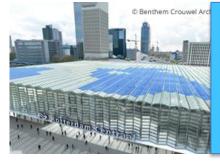
Design (14 tools)



Intermodality and ICT (24 tools)



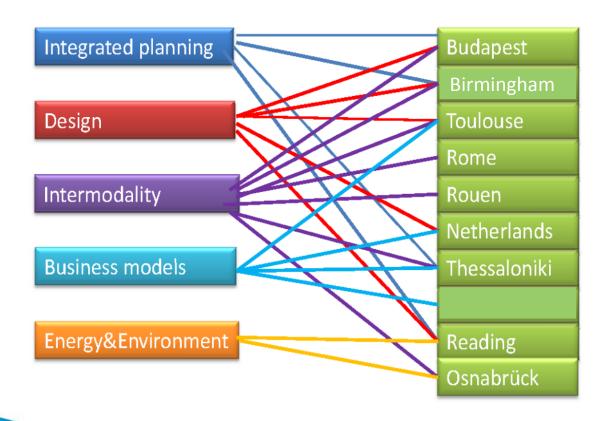
Business models (26 tools)



Energy and Environment (14 tools)



Application sites





Vision for intermodality

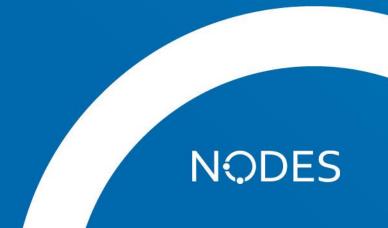
- Seamless
- Flexible, reliable, secure
- Shared modes
- Enabling modal shift
- ICT supported
- Independent travel





Vision for the role of the station

- With growing variety of mobility services, the role of interchanges in the network will increase
- Interchanges simplifies the PT system
- 'A mythical place' 'Cities within cities'
- Interchanges drive urban development
- Centre of the neighbourhood Place to meet
- Easy to use Accessible Comfortable



Interchanges under decompression

- Shrinking time windows of PT operations
 - Negative for CBA and business models of station operations
 - Cost of management increase per passenger
 - Lower Rol
- Shrinking territorial coverage of PT
 - Most likely bad for intermodality
 - Parking pressure at stations
 - Do flexible mobility services really feed mainline PT?



Interchanges under decompression: CoMo / MaaS

- Do (all) flexible mobility services need nodes?
- Localised component (station as asset) vs
- Desintermediated component (connectivity, ownership as barrier to innovation)
- In many cases, the logical location of flexible mobility services is peripheral – but are users located there?



So what?

Cost efficiency - profit Fleet management tools /ITS Knowledge about costumer Ticketing Mobility / Passenger PT operator Travel information Affordable journey Comfortable journey Accessibility



But there is more...

Cost efficiency Mobility service Fleet management tools /ITS Provider / PT Knowledge about costumer operator Ticketing Value for money Ability to control PT as tool to reach societal goals: Resilience, Emergy Travel information Organising management, Economic Affordable journey Passenger/citizen Authority development, energy and Comfortable journey environment, social equity, Accessibility accessibility Combat sprawl



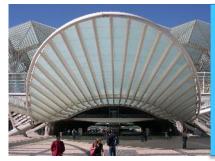
Re-inventing the interchange to enable collaborative mobility



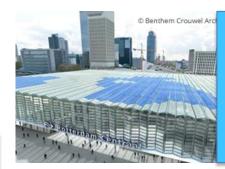
Urban
development
nodes
Food
Offices/meeting
rooms
Off peak
alternative use



role
Open for all
modes, but not
for free?
Fremium
policies?
LA step in again!



Attractive public space Connector role Off peak alternative use



Stations as powerhouse for electromobility



Open for all modes



Role of local authorities: push and pull!

- Coordinator
- Planner
- Regulator

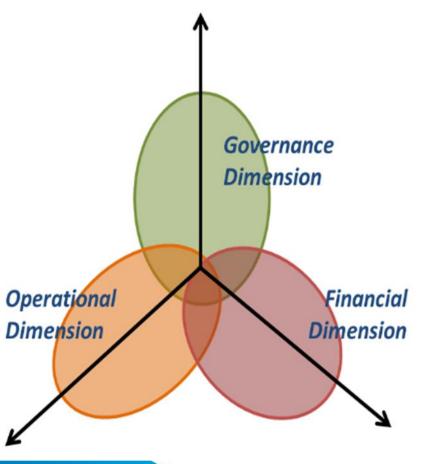


Funder, opening 'common' assets



To conclude: before regulating: understanding when to act?

Event name here



- ✓ Governance Dimension
 - Capturing politician motivations. (Service, quality of service, service ownership, citizen's satisfaction, environment protection)
- ✓ Financial Dimension

 Mainly focused in ROI
- ✓ Operational Dimension Involving other sources of public value

	Contr. Oc. Temps real	Guiat conductors	T . ocupat vs T. pagat	Inf. alarmes Controlador	Preu Dinàmic	Patrons de comportament
Perspectiva Servei	\checkmark	\checkmark				\checkmark
Perspectiva Operativa	\checkmark		\checkmark	\checkmark		\checkmark
Perspectiva Econòmica	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark

Thank you/ Questions

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