ITF 2010 Leipzig
Innovation in Madrid’s transport interchanges
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European & regional intermodal network
The four main elements of intermodality

Transfer

Information

Safety & security

Management
Madrid´ Interchange Plan
Pza. Elíptica interchange
Information

- Automatic vehicle location: GPS (outside) and Wi-Fi (inside)
- Real time information: dynamic panels, Web,…
- Coordinating schedules between different modes
- ITS to a PDA, i-phone or mobile phone
Technology

- Contactless ticketing
- Bus control occupancy bays
- Recognition of each vehicle (license plate reading)
- Passenger expedition control
Safety & security

- Improving physical security (CCTV)
- Improving plan safety
- Management during emergencies
- Fluid dynamic techniques
- Simulation of pedestrian behaviour in case of fire