

City of the Future and Implications for Transport

BESTUFS National Seminar

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Challenges and Opportunities

- A Sustainable City
 - Noise, Air, Mobility, Congestion
- A New Urban Economy
 - Retail, Logistics, Hot Desking
- New Technologies
 - Vehicles, Fuels, ITC

Themes

- Mode Upgrading
- Technologies
- Multi-modal Solutions
- Urban Typologies

Some Examples

Mode Upgrading	High Speed Rail
Mode Upgrading	High Quality Bus
Technologies	City Box
Technologies	Underground
Multi-modal Solutions	Transfer Sites
Multi-modal Solutions	Inland Port
Urban Typologies	Airport City
Urban Typologies	Car Free City

1 - High Speed Rail

- Sustainable alternative to short haul air
- City centre to City centre
- Brownfield Redevelopment Opportunities
- First truly European transport network

Euralille

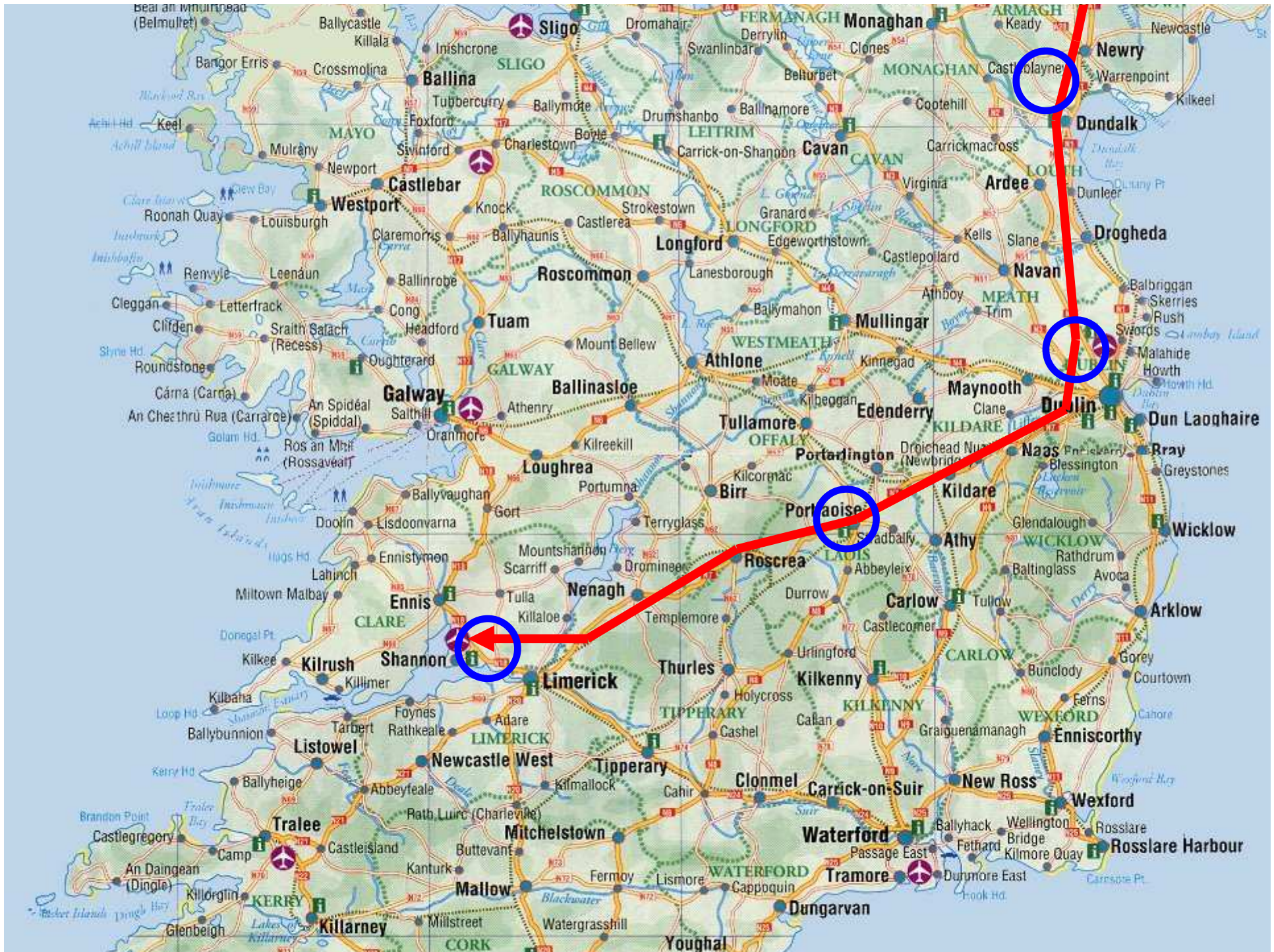


Zuidas



Zuidas





2 - High Quality Bus

- Alternative to rail solutions
- Multi modal transport
- Linear urban development

Bus Lanes on Motorways



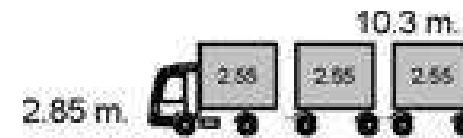
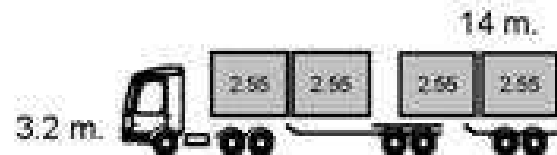
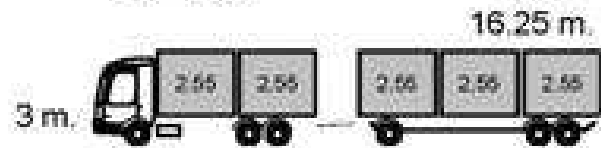
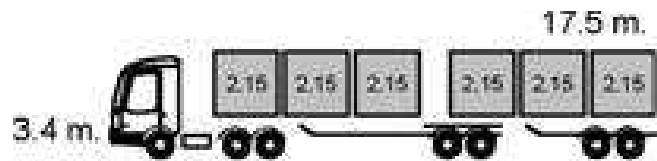
Superbus



3 - City Box

- Advantage of standardisation (container, pallet)
- Easy transfer at city edge

City Box

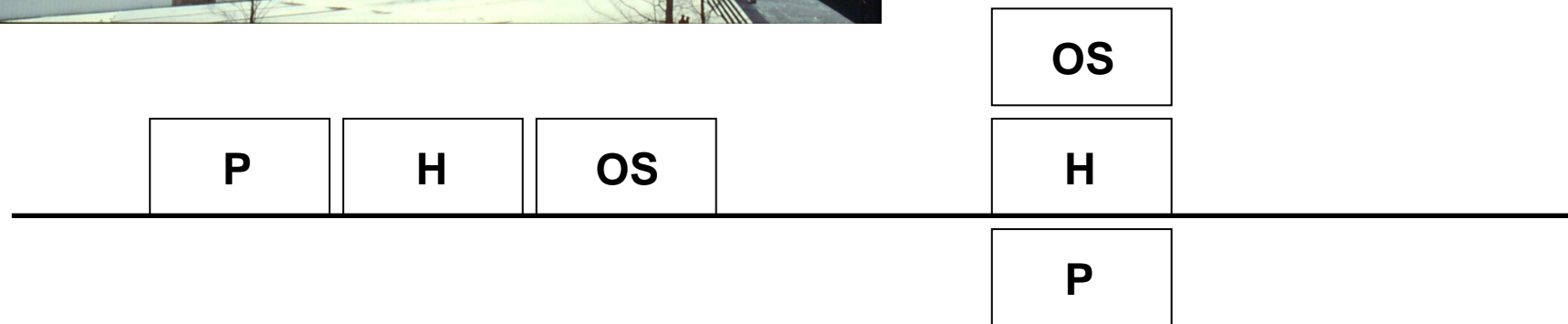


$$2,15 \times 2,55 \times 2,15$$

4 - Underground Solutions

- Basement car parking
- Tunnels to be financed by real estate
- Delivery systems for retail
- Underground waste disposal
- Pipelines, Dublin Fuel Pipeline
- Almere underground waste disposal

Double Land Use



5 - Transfer Site

- Park and Ride
- Instant decision making of motorist
- Combined information: telematics
- Integrate with other land uses

Transferium Barneveld



6 - Inland Port

- Separate land use from transport function
- Example: remote check-in for airports, multimodal transfer site for freight.

7 - Airport City

- Logistical Nodes acts as magnets for urban development
- Added value at interchange
- Examples: retail, hotel, logistics
- Edge city development

Airport City



8 - Car Free City

- High Density High Quality Public Transport
- Reduced need for car ownership
- Increased price of car ownership (car parking)
- Car sharing concept

Car Sharing



Conclusions

- Strategic Planning (e.g. high speed rail)
- Real Estate (e.g. underground solutions)
- Corridor Management (e.g. high quality bus)
- Collaboration with Stakeholders (e.g. city box)
- Macro and micro planning (e.g. airport city and car free city)

