



INTERNATIONAL UNION  
OF RAILWAYS

*unity, solidarity, universality*

# RAILWAYS AS THE CORE OF INTERMODALITY

## WORLDWIDE BEST PRACTICES

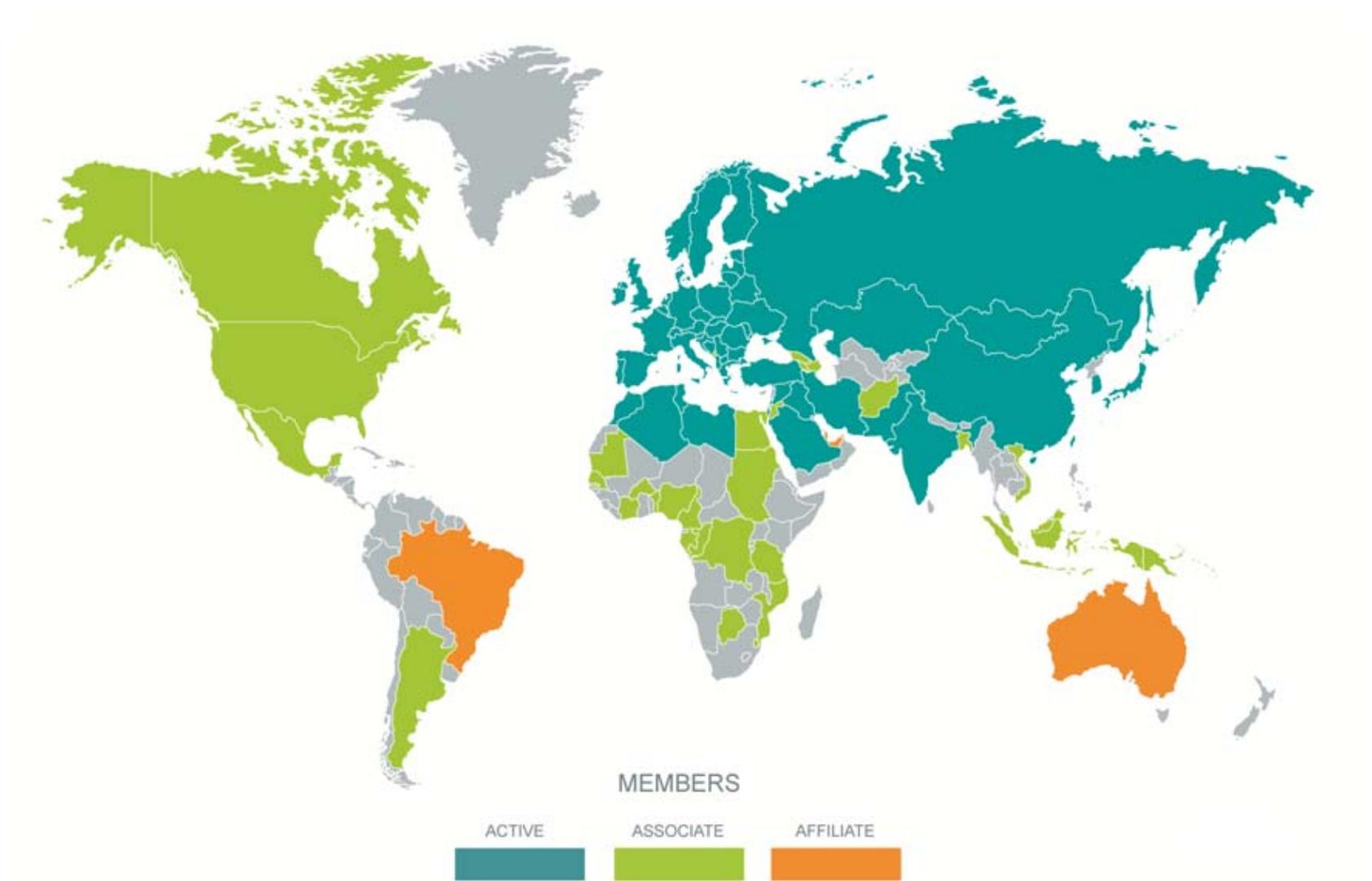


Shenzhen, 10 December 2016

*Marc GUIGON – UIC – Senior Advisor Passenger Transport*

*马传儒*

# UIC in 2016: 240 members in 95 countries



# STATIONS KEY ATTRIBUTES



**Monumentality**



**Centrality**



**Functionality**



**Revenues**

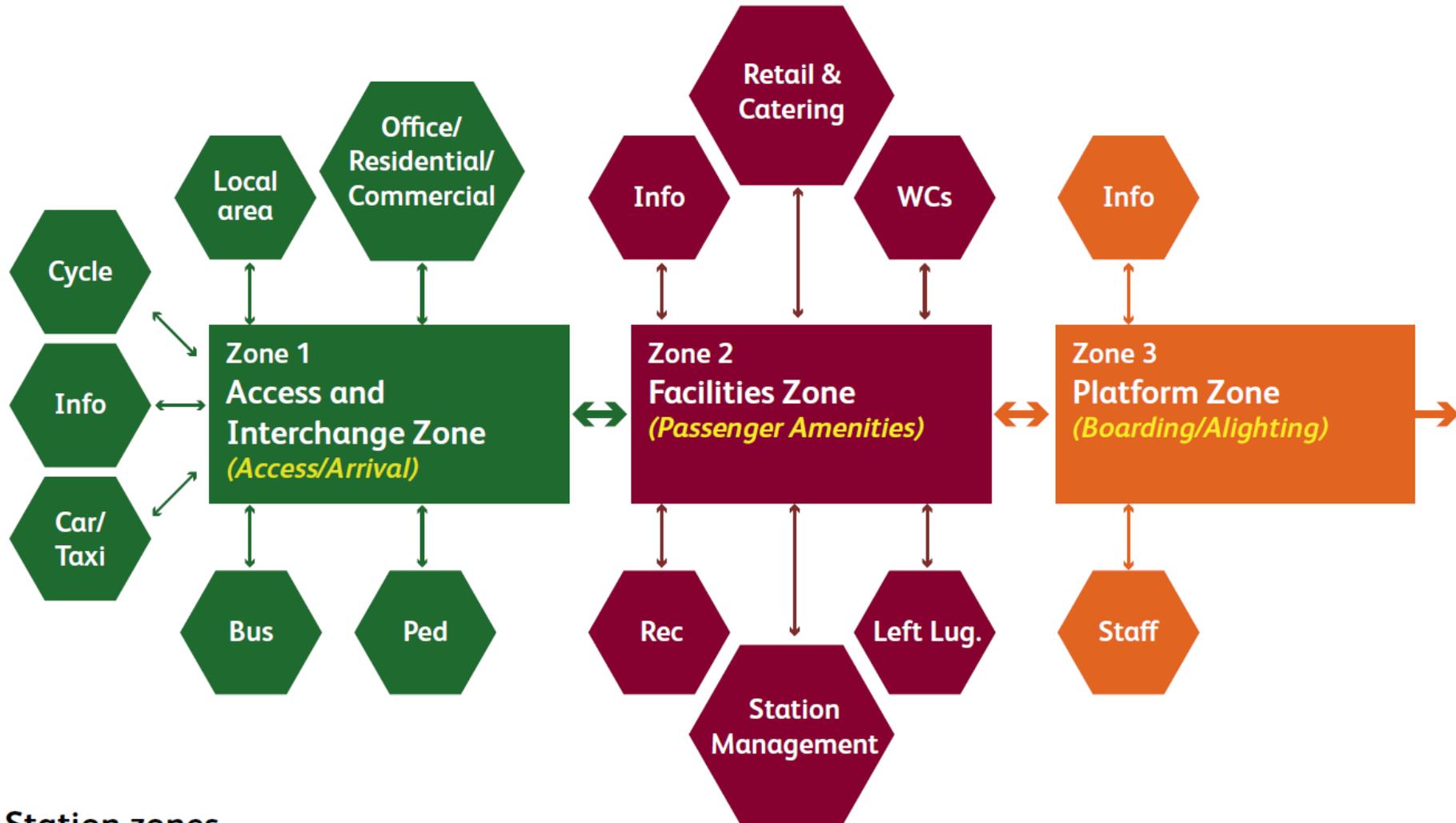


**Accessibility**



**Intermobility**

# STATIONS FUNCTIONALITY



Station zones



**TRANSPORT NODE  
MOBILITY HUB**



**Intermobility**

Berlin HBF Station (Germany)

FOR ALL PEOPLE



Accessibility

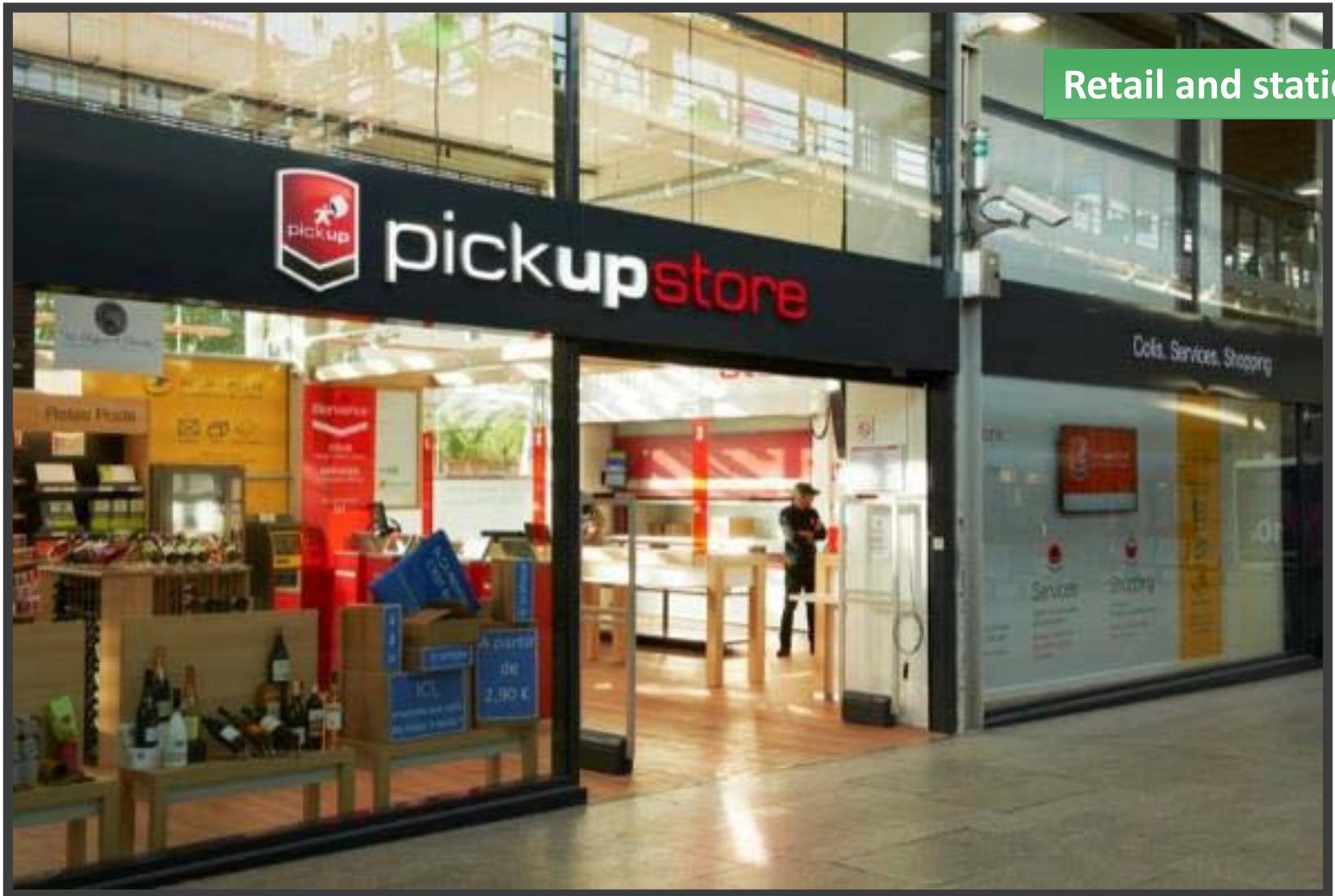
Seoul Station (Korea)

COMMERCIAL  
SPACES



Revenues

VIALIA Station (Málaga, Spain)

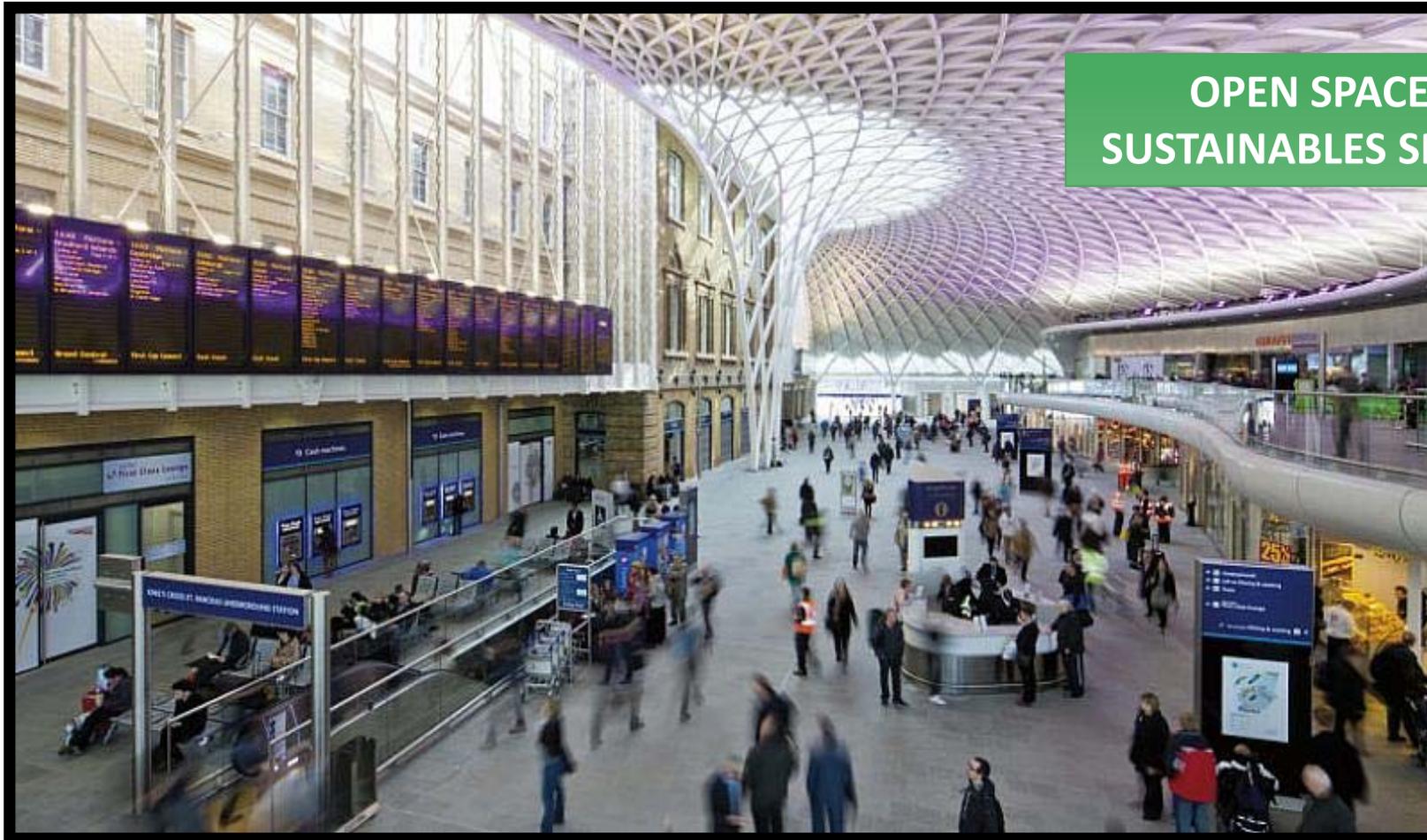


Retail and stations



Revenues

Paris, France



OPEN SPACES  
SUSTAINABLE SPACES



Functionality

King Cross Station (London, UK)



**URBAN  
INTEGRATION**



**Centrality**

St. Pancras Station (London, UK)





MEETING PLACES



Centrality

Atocha Station (Madrid, Spain)



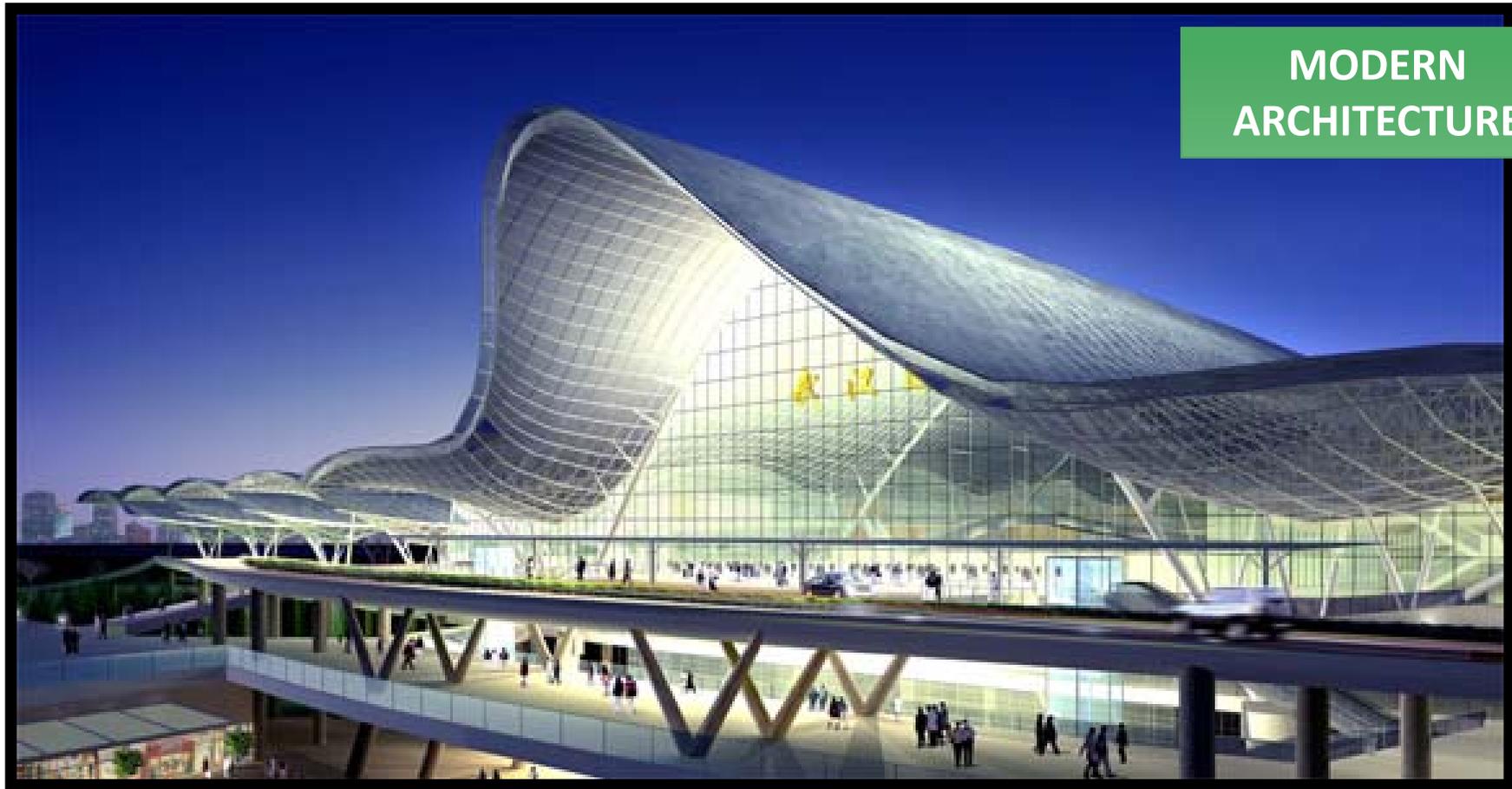


HERITAGE  
ARCHITECTURE



Monumentality

Cologne Station (Germany)



**MODERN  
ARCHITECTURE**



**Monumentality**

Wuhan Station (China)

ART  
INSPIRATION



**Monumentality**

Saint- Lazare Station in Paris (Claude Monet)

# STATIONS CHALLENGES



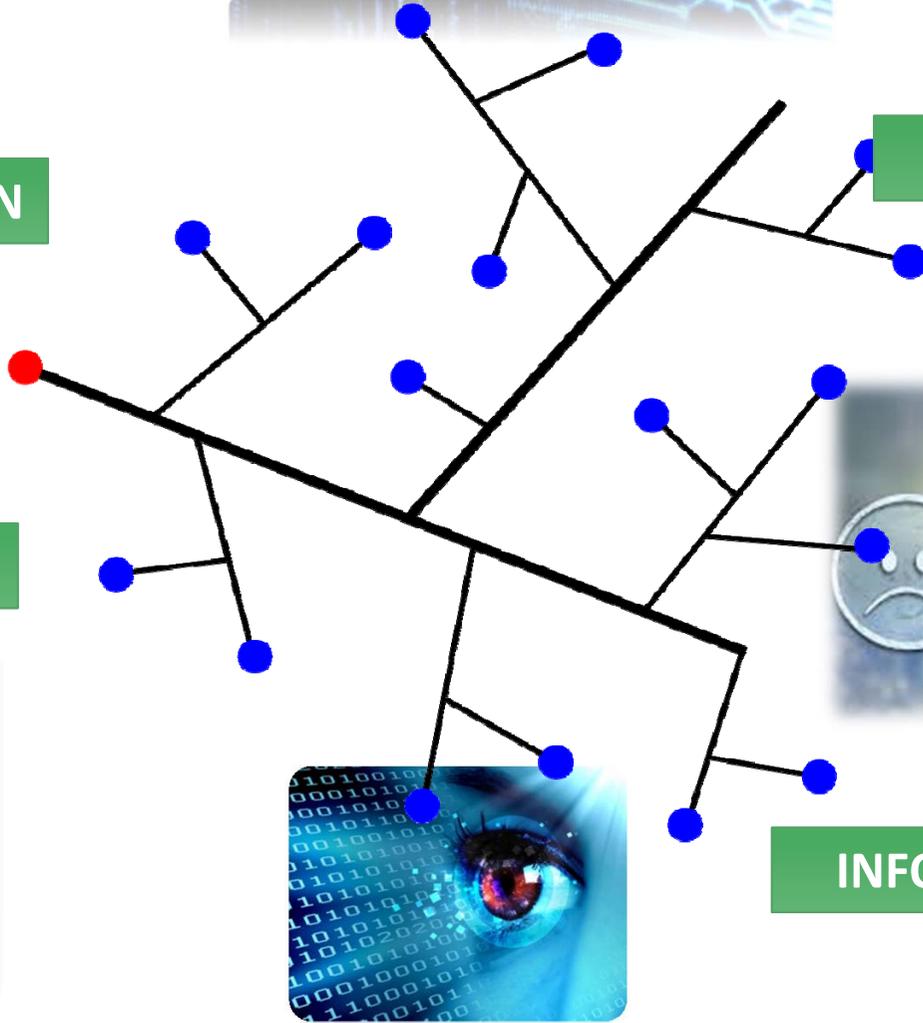
SECURITY

INTERCONNEXION



ACCESSIBILITY

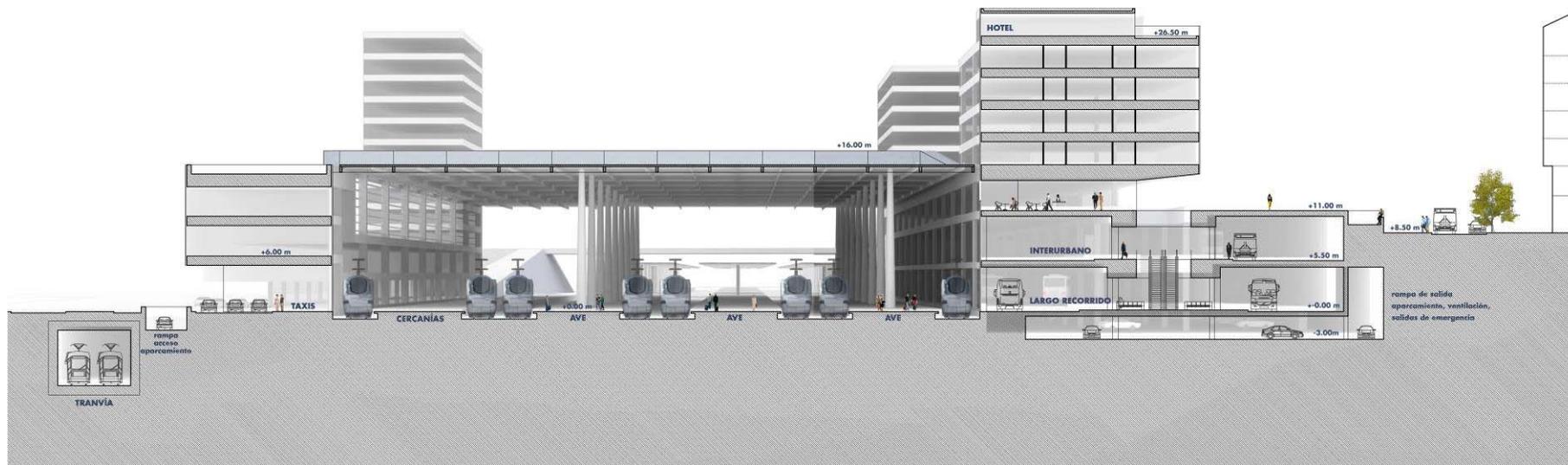
SUSTAINABILITY



INFORMATION

- Connexion with other transport modes
- Coordination of different needs
- Flexibility for the future

## *Intermodal Station at San Cristobal (Corogna, Spain)*



Tramway station

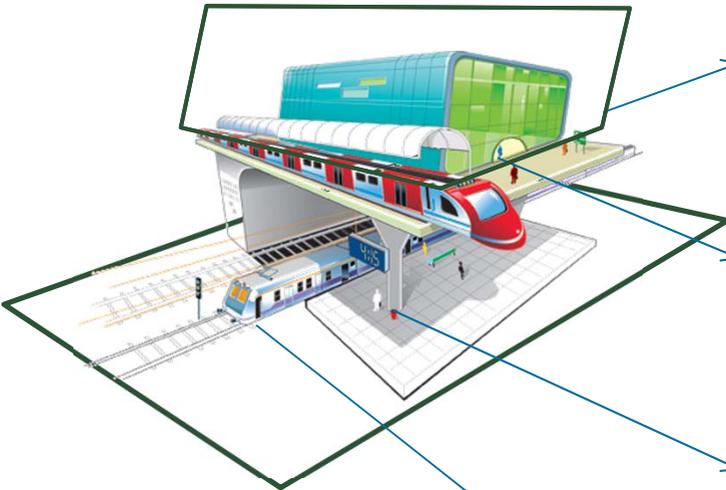
TAXI

Railway station  
3 High-Speed platforms  
1 Local Trains platform

Road station  
20 Long-distance bus-stops  
20 Suburban bus-stops

PARKING

# The station: its points of control



- 1. Surroundings control
- 2. Passenger and luggage control
- 3. Mobility control
- 4. Process control

I  
n  
t  
e  
g  
r  
a  
t  
i  
o  
n

C  
o  
o  
p  
e  
r  
a  
t  
i  
o  
n

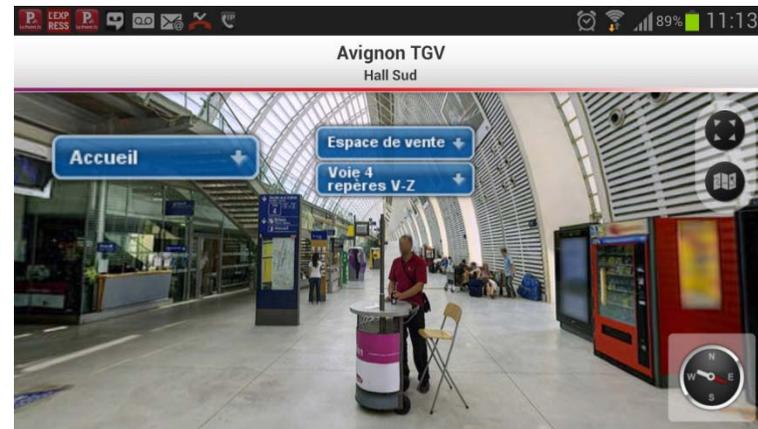
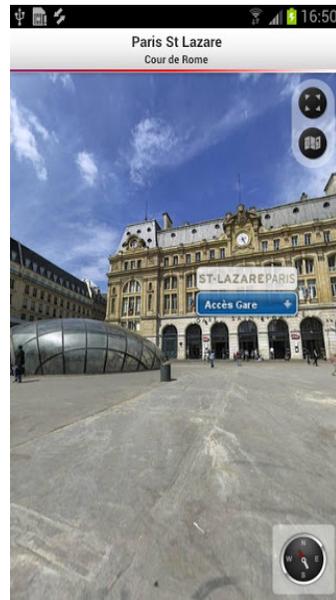


Station maps and wayfinding



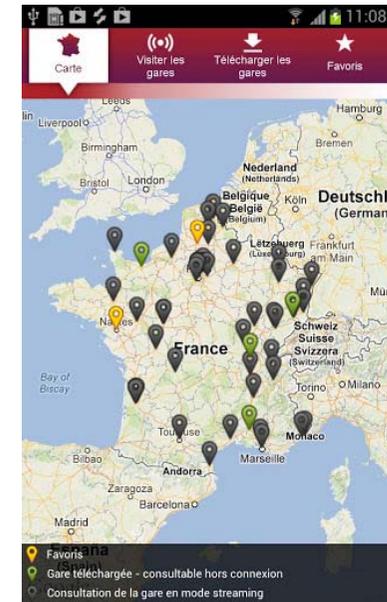
Real-time railway traffic status

Departures, arrivals & platform schedules



DIGITAL

INFORMATION

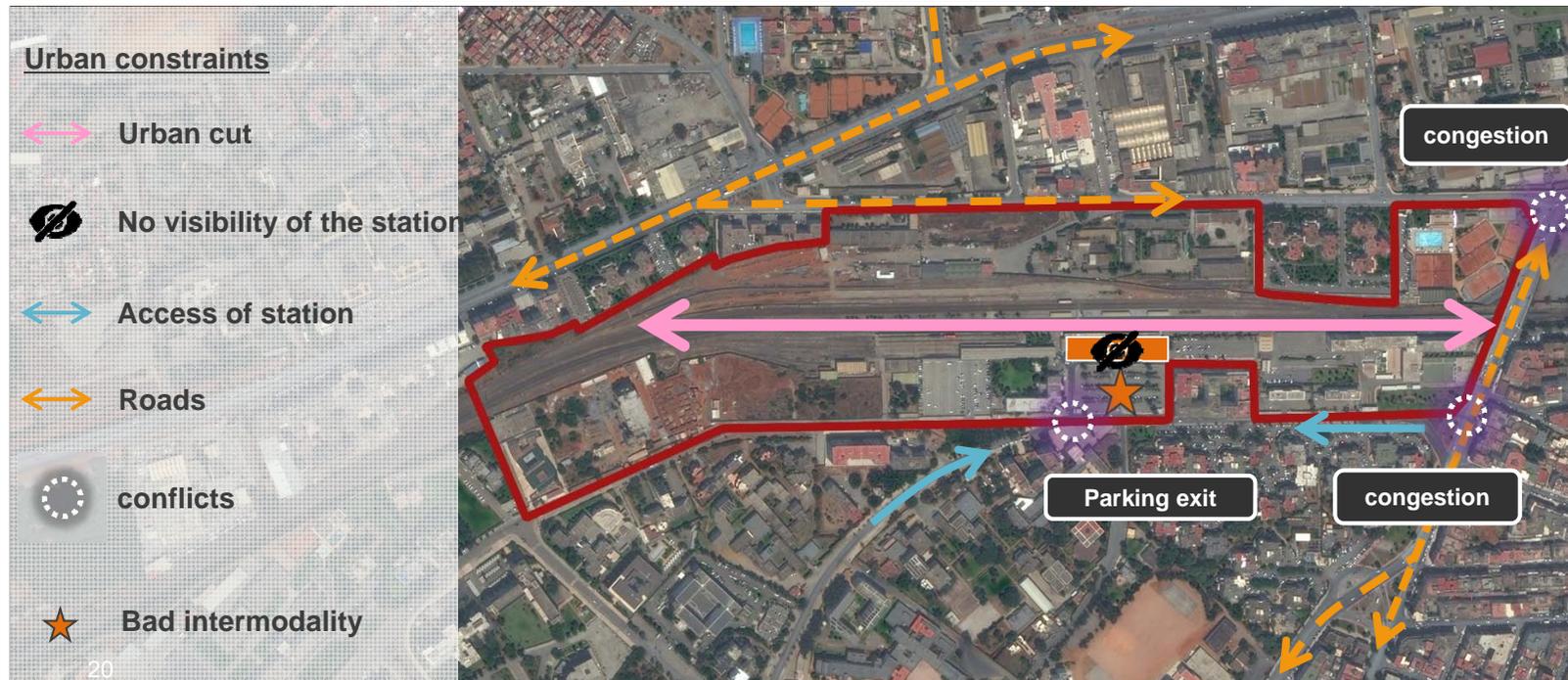


# International examples

# Rabat Agdal, High Speed Station (Morocco)



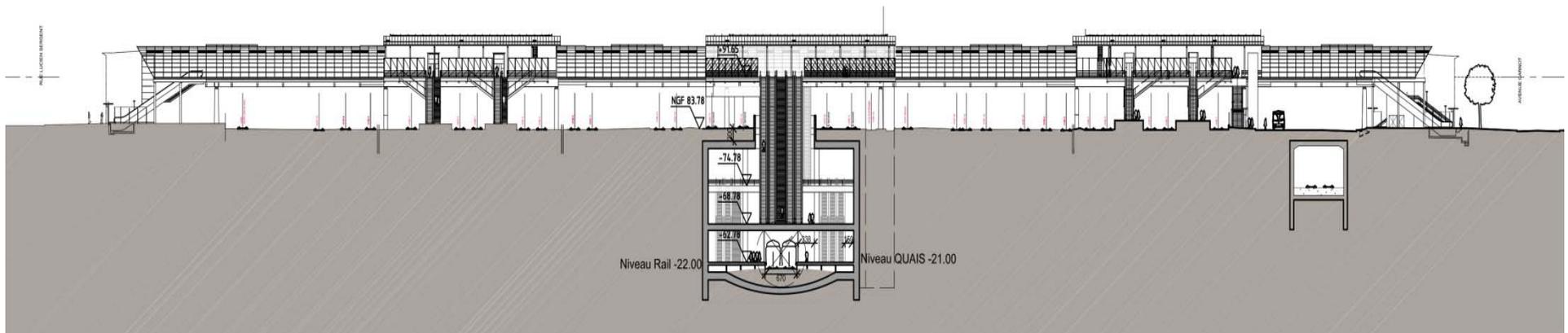
6,5 millions of passengers today  
35 millions of passengers in 2030



# Improve accessibility of the station and organise intermodality in RABAT



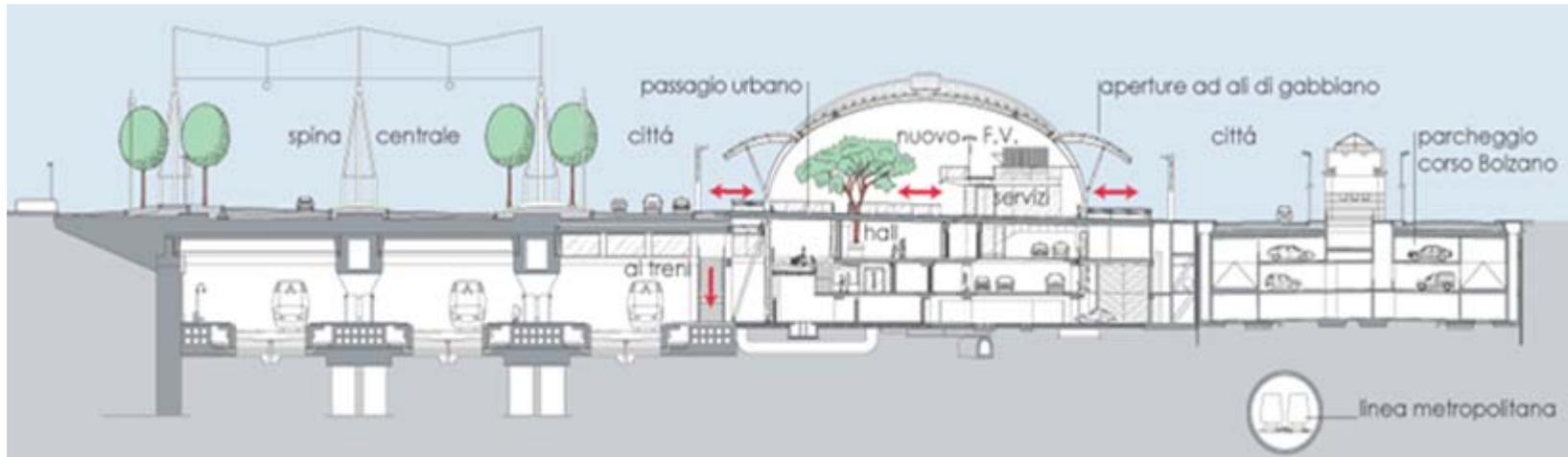
# Intermodality in Massy (France) High Speed trains, Commuter trains, busses



# Intermodality in Massy (France) High Speed trains, Commuter trains, busses

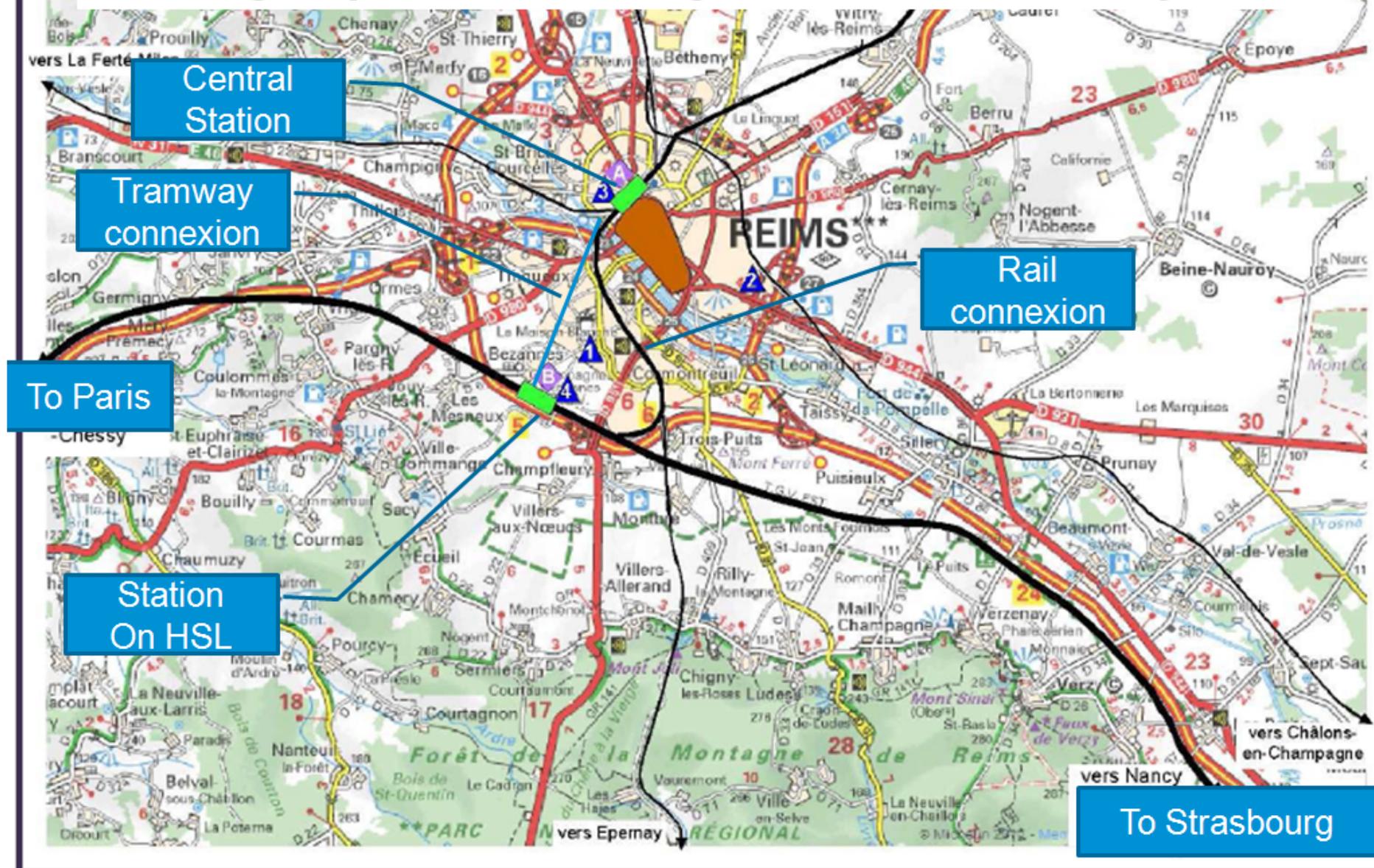


# Torino Porta Susa (Italy)



# Intermodality in Reims (France)

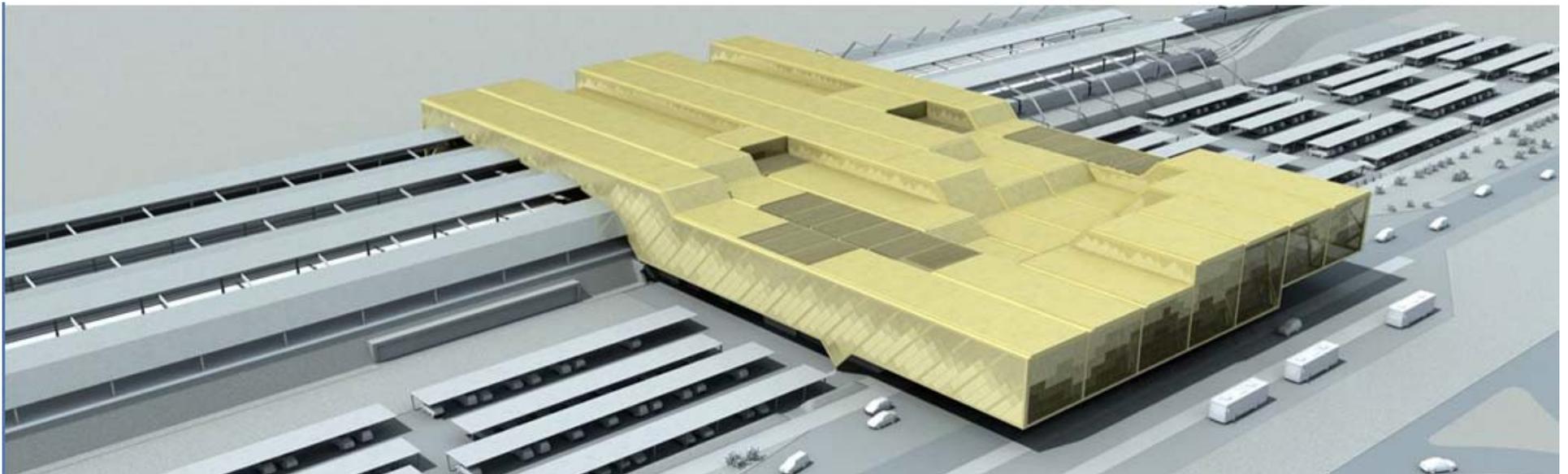
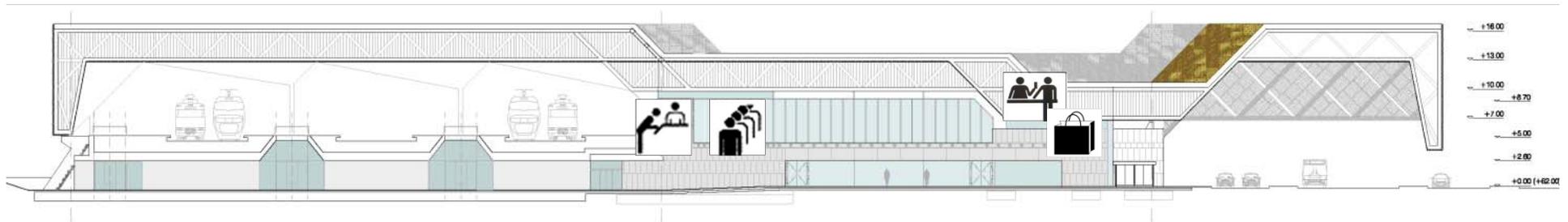
## High Speed trains, Regional trains, tramways



# Central station Tarragone-Reus, Spain

## Passenger flows

- Pedestrian ways
- Access controls
- Vehicule circulation

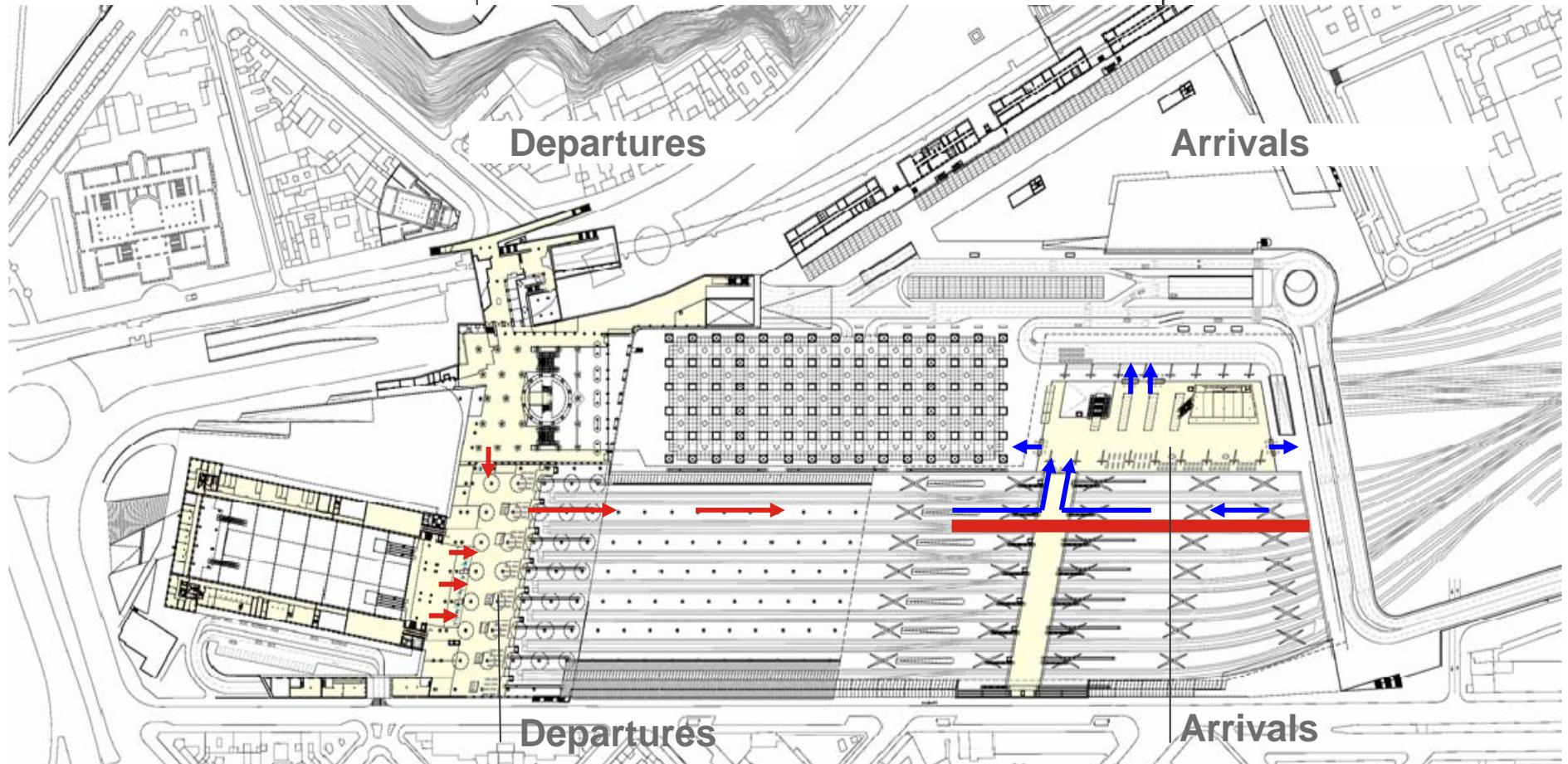
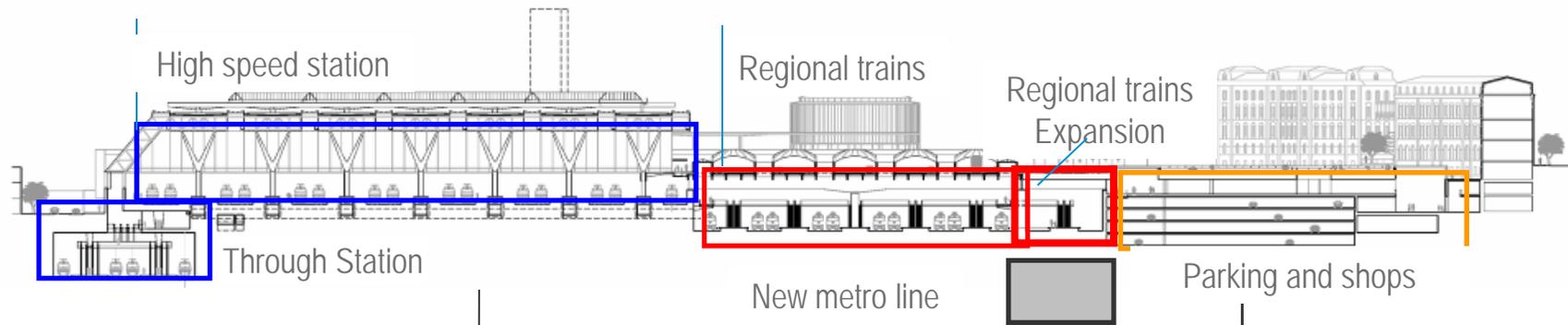


# Atocha station (Madrid, Spain)

- Urban impact
- Organisation for arrivals and departures
- Integration with commerces...



# Integration and connexion with the city (Atocha)



# New design in Mumbai station (India)

Long-distance train, Connect Bus, taxi, Suburban train, foot access to the city



Bordeaux (France) before ...



... and after ! With more intermodality !!! Tramways



A great work on public spaces changes everything

*Crédit photo : Jérémie Buchholtz*

# Bordeaux (France)

Railway station

Taxis, kiss & ride

Regional bus station

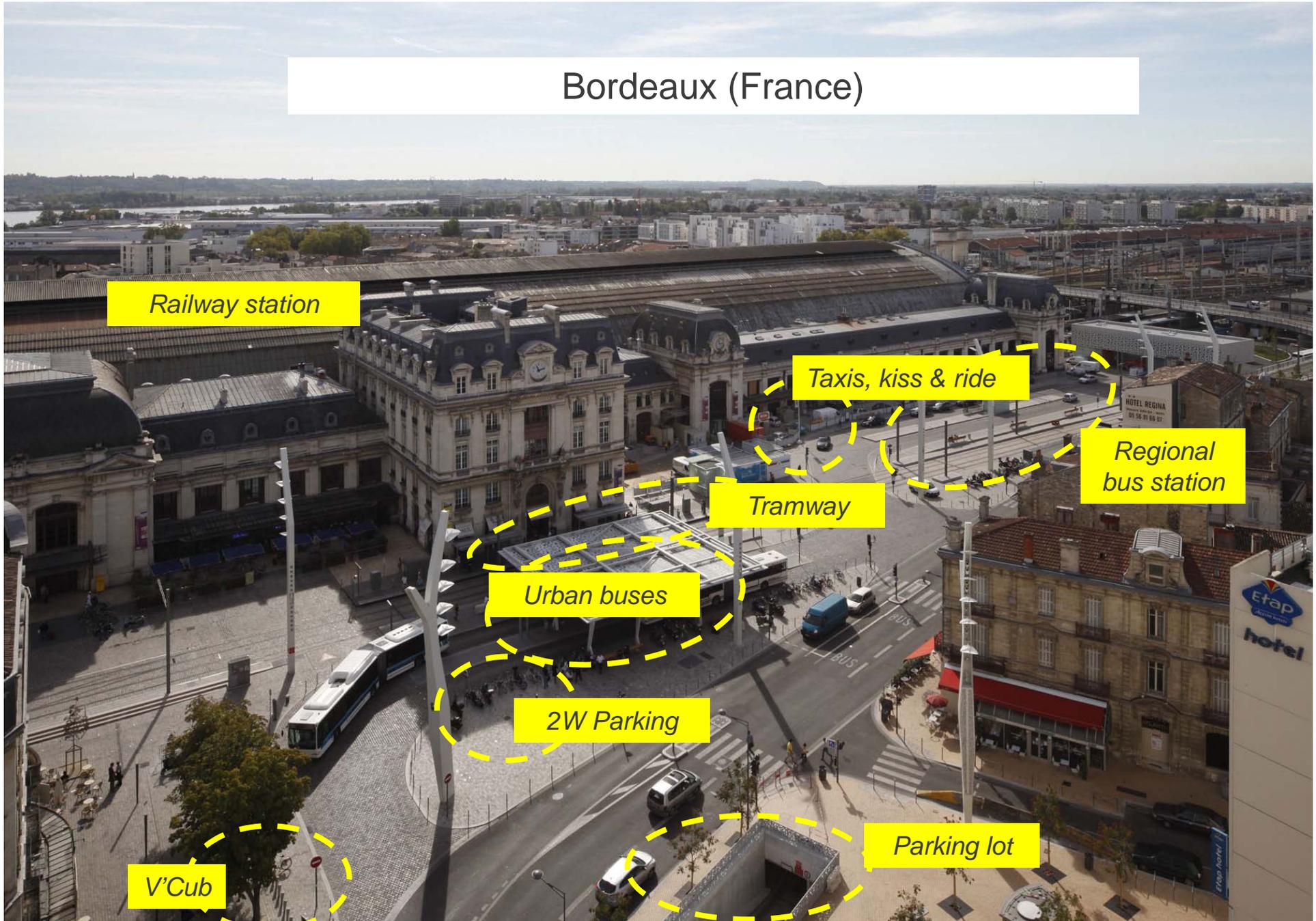
Tramway

Urban buses

2W Parking

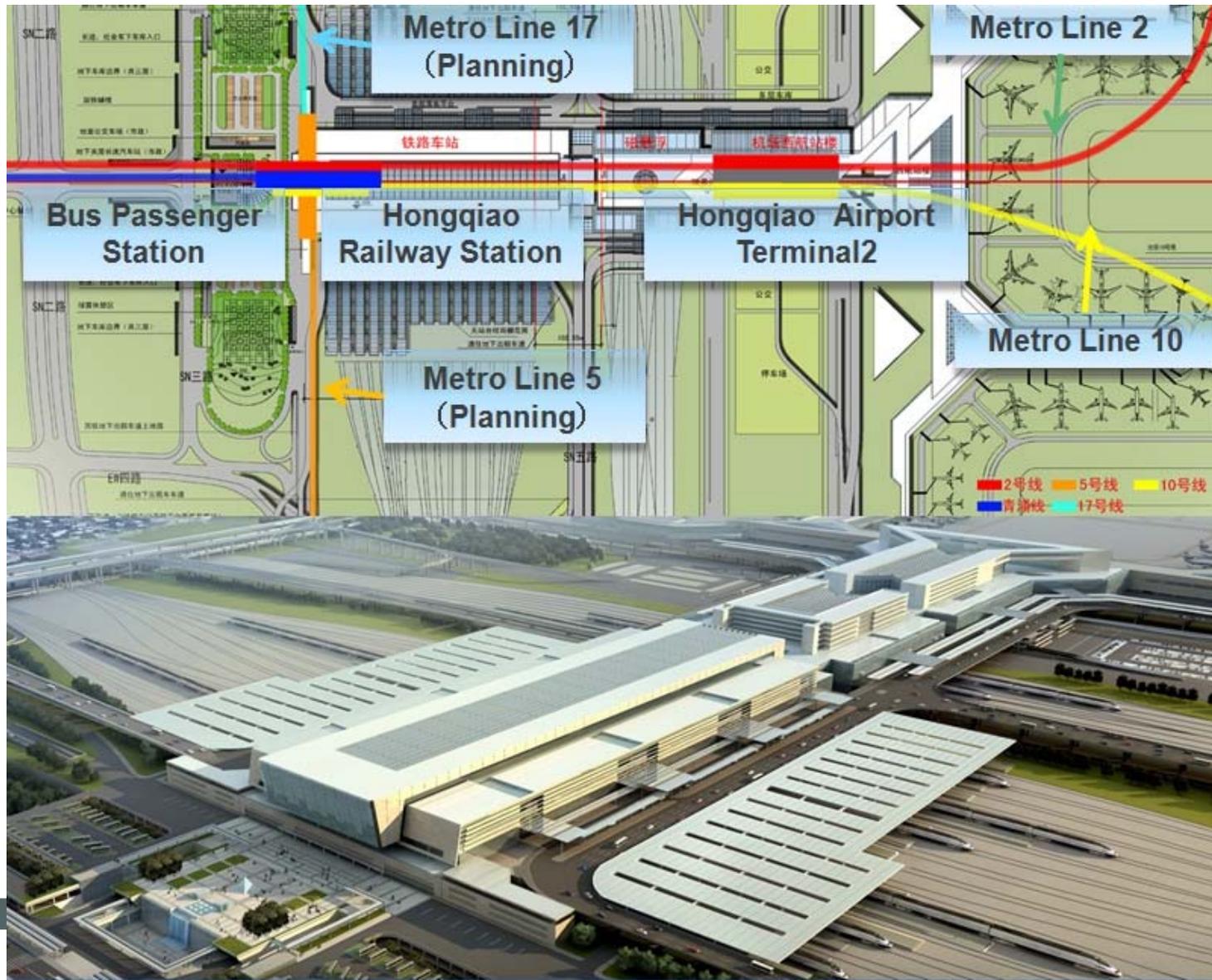
Parking lot

V'Cub



# Hongqiao airport (Shanghai-China)

integrating airport, highway, HSR, intercity railway, maglev, metro, and bus





19 – 20  
October 2017

## Smart Stations in Smart Cities

6<sup>TH</sup> INTERNATIONAL CONFERENCE ON RAILWAY STATIONS  
Madrid 2017

[www.nextstation2017.com](http://www.nextstation2017.com)



INTERNATIONAL UNION  
OF RAILWAYS

*unity, solidarity, universality*

Thanks for your attention !!!  
谢谢各位 !!!  
[guigon@uic.org](mailto:guigon@uic.org)

