

High Speed & the city Michel LEBOEUF SNCF Voyages Directeur Grands Projets et Prospective UIC Président du Groupe Grande Vitesse









Introduction

UIC has conducted, in 2010, a research on the impact of High Speed Rail (HSR) on stations.

This presentation aims at providing the audience with the main findings of this research.

Let's introduce the issue by asking a question: A High Speed Train (HST) is just a train running at a higher speed on new lines. Nevertheless, it is similar to a conventional train when it is inside a station. So, why should High Speed Rail specifically change the station?







The tender documents for this research where based on comparisons between the situation before and the situation after the commisioning of a High Speed Line (HSL), for a given station or city.





The tender documents where also based on the focussing on 4 various viewpoints since a station is a 4-actor meeting point

passenger

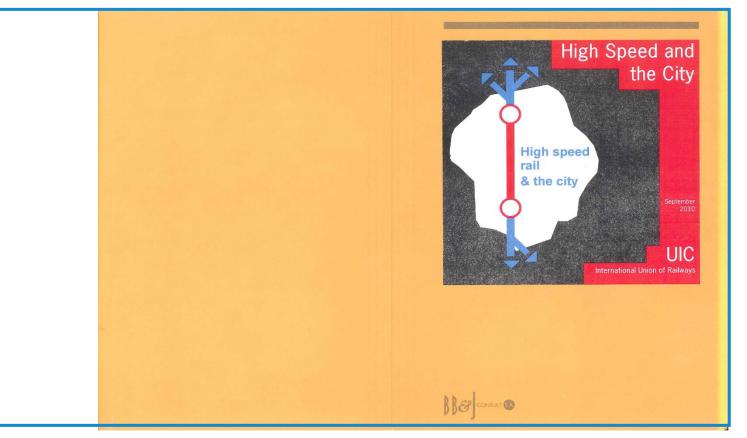
city





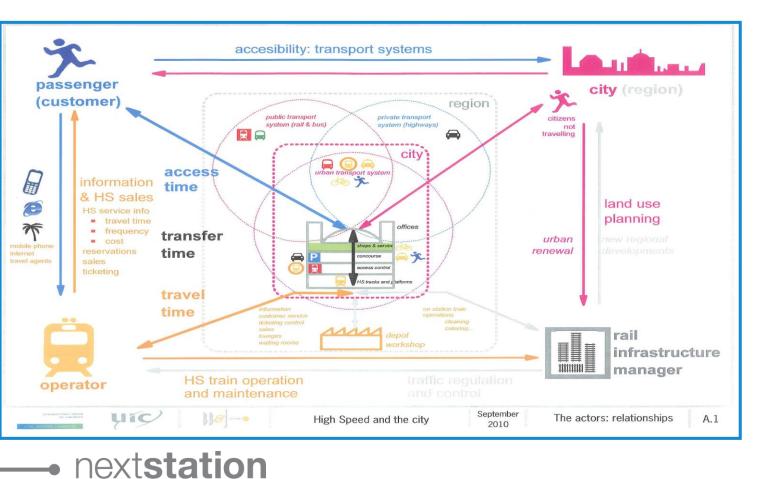


We selected **BB&J Consult**, a Spanish consultant, for this purpose







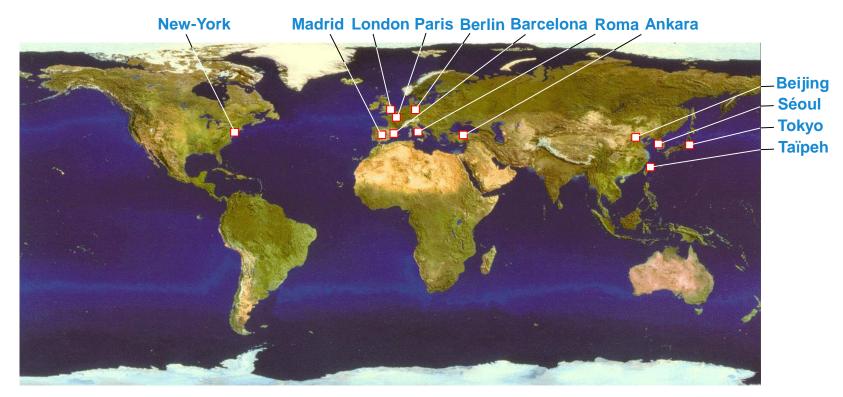




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12 stations located in countries operating HSR have been analyzed.





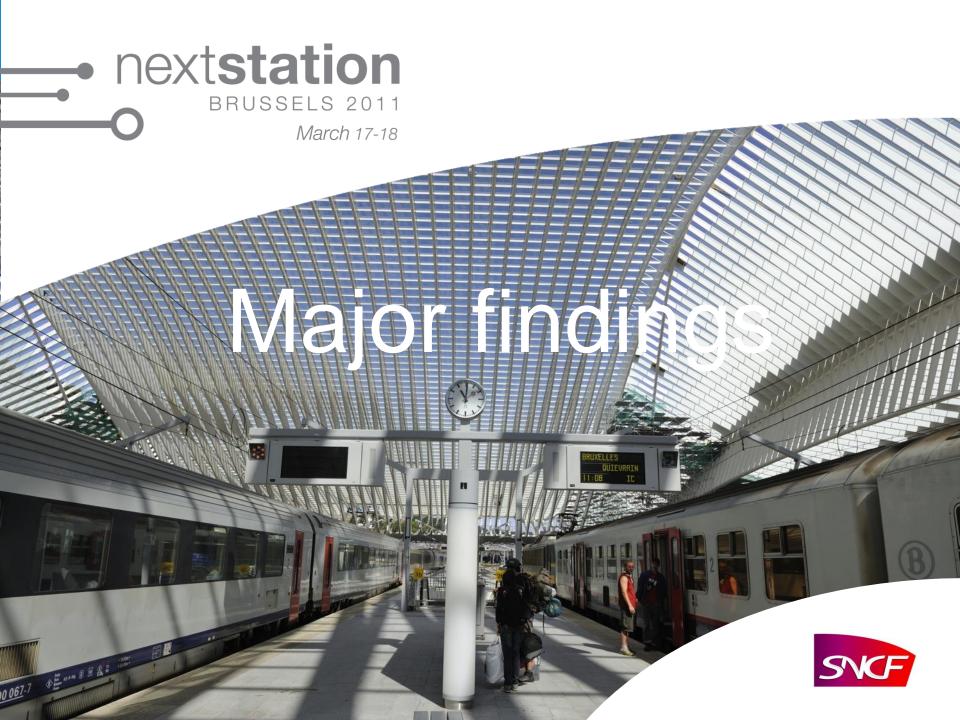


It has not been possible to compare the situations before and after the commisioning of HSR because data are not available.

So the methodology has shifted towards a benchmark of stations.







High Speed Trains have **one only specificity**: they run faster. However this capability brings **two major changes** in:

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- the perception of time by the passenger
- the rail traffic volume.

Both changes lead the 4 actors to envision differently the station.





The perception of time by the passenger







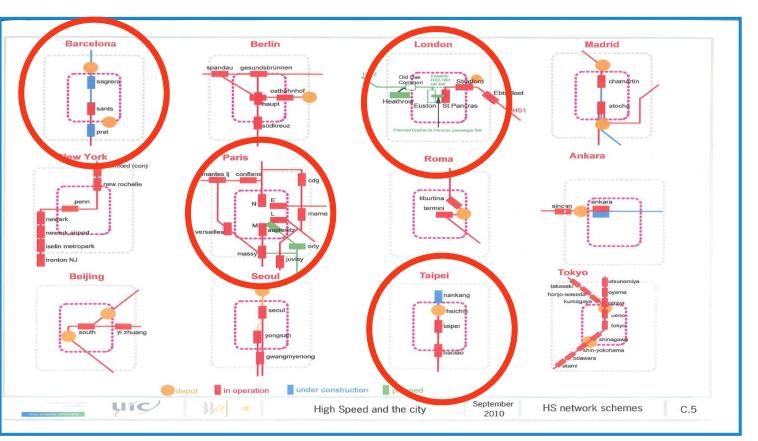




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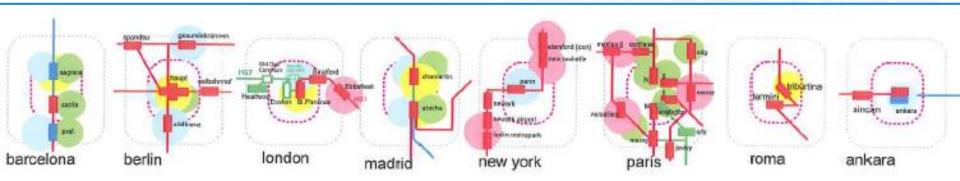
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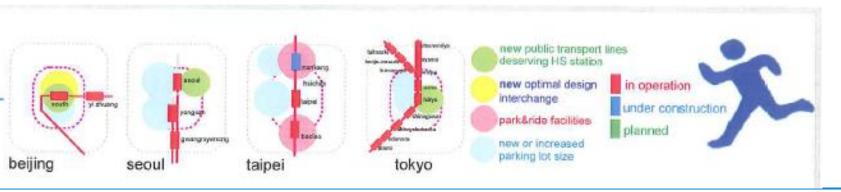


Quite often HSR leads towards new locations along with a change in the operating pattern



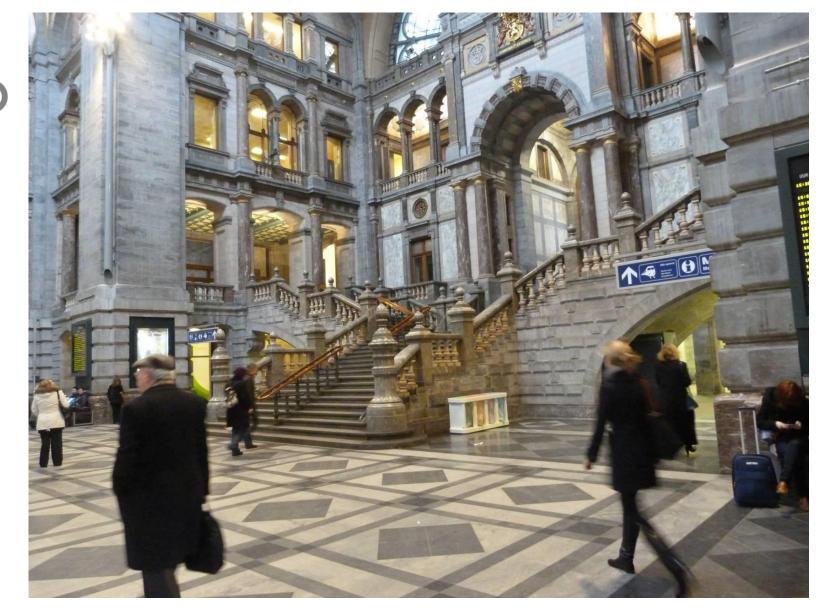
Passenger's viewpoint





HSR never comes alone







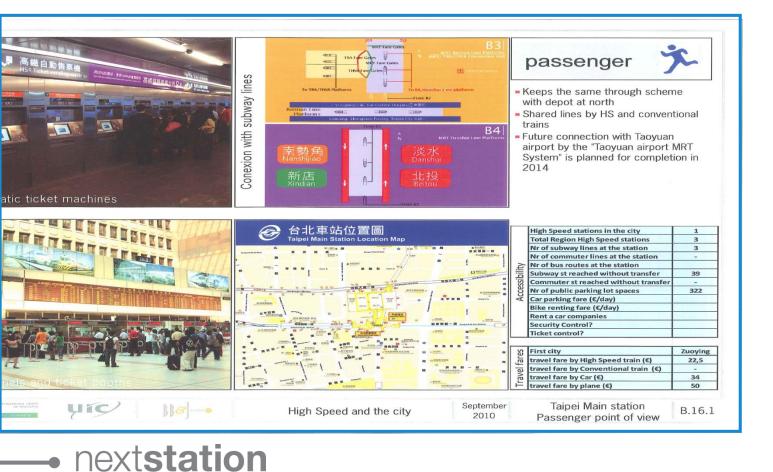




Passenger's viewpoint

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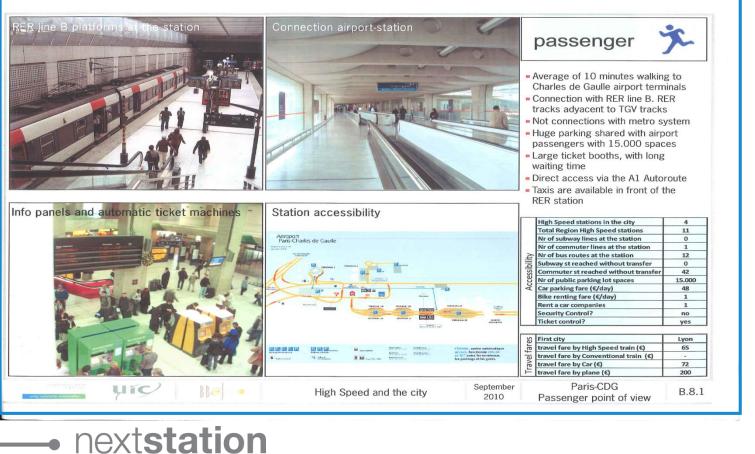
HSR was created from scratch



Passenger's viewpoint

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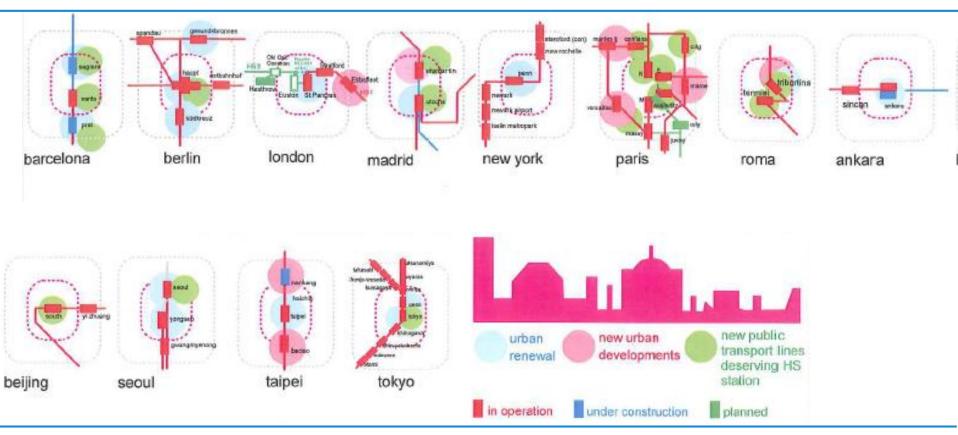


PARIS CDG:

a full fledge network

HSR may entail the creation of new stations





HSR never comes alone



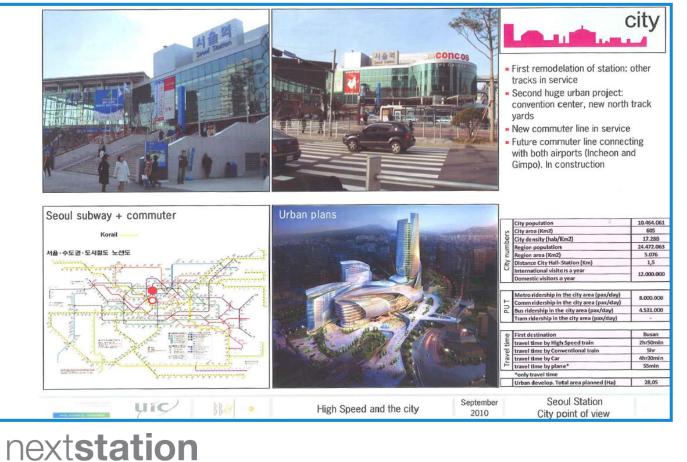






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SEOUL:

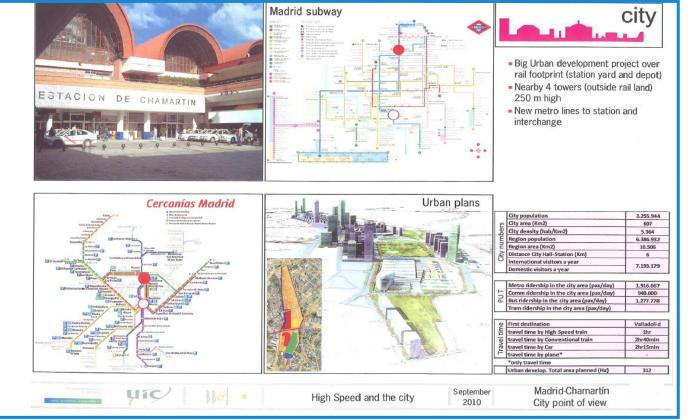
Huge urban development Right above and around the station



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MADRID CHAMARTIN:

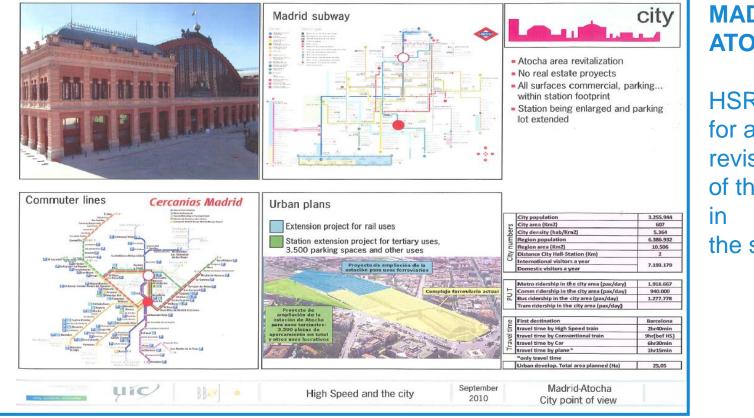
HSR is the spark for a global revision of the land use in the station district



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MADRID ATOCHA:

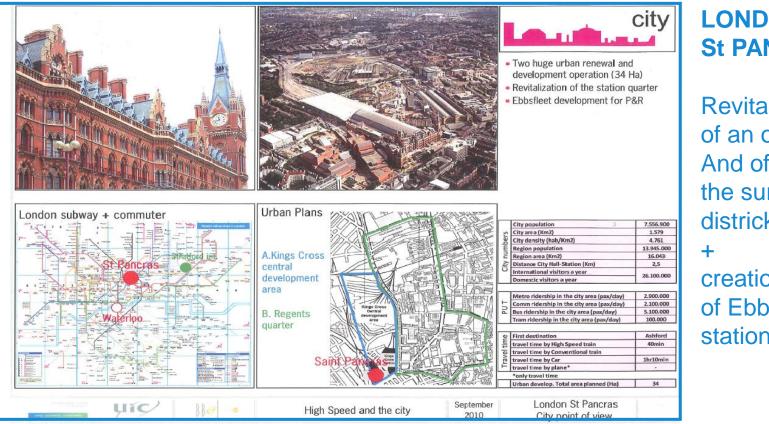
HSR is the spark for a global revision of the land use in the station district



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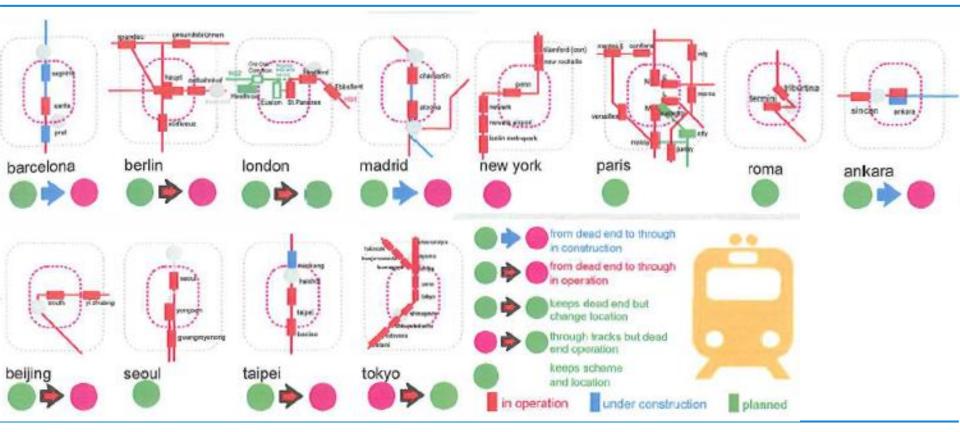
LONDON **St PANCRAS:**

Revitalization of an old station And of the surounding districk

creation of Ebbsfleet station

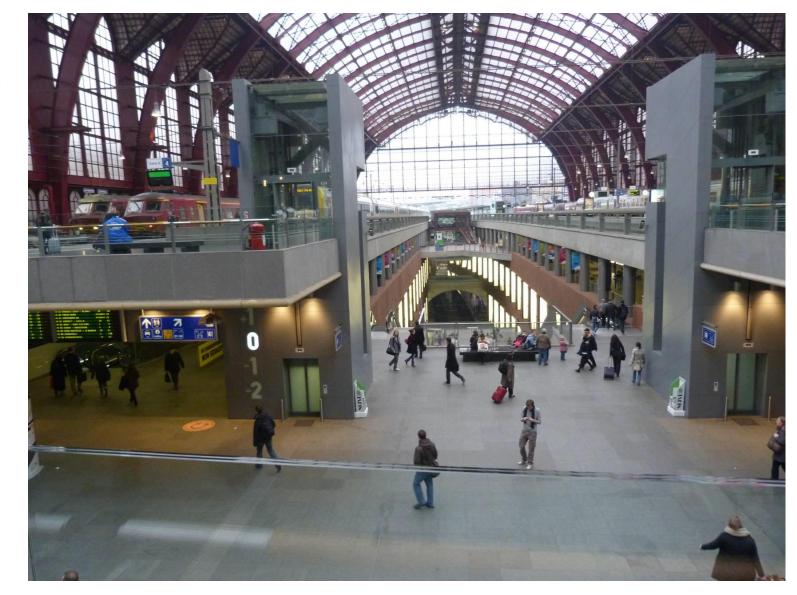


Operator's viewpoint



HSR quite never comes alone



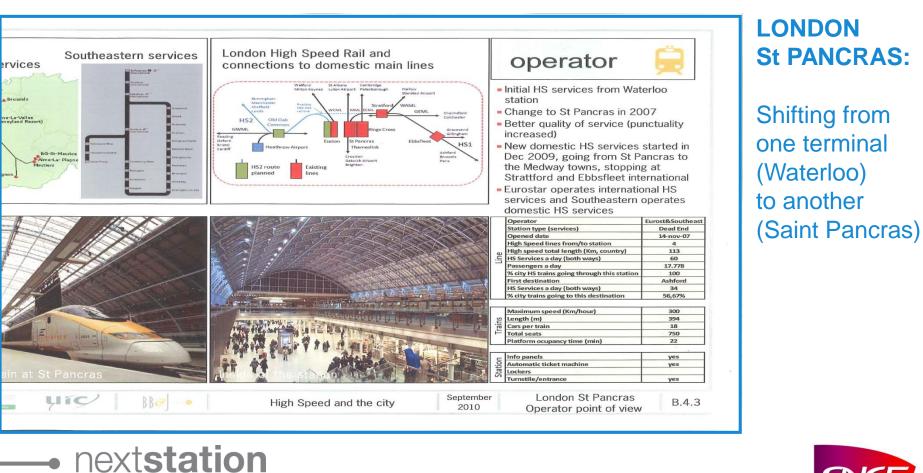


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Operator's viewpoint

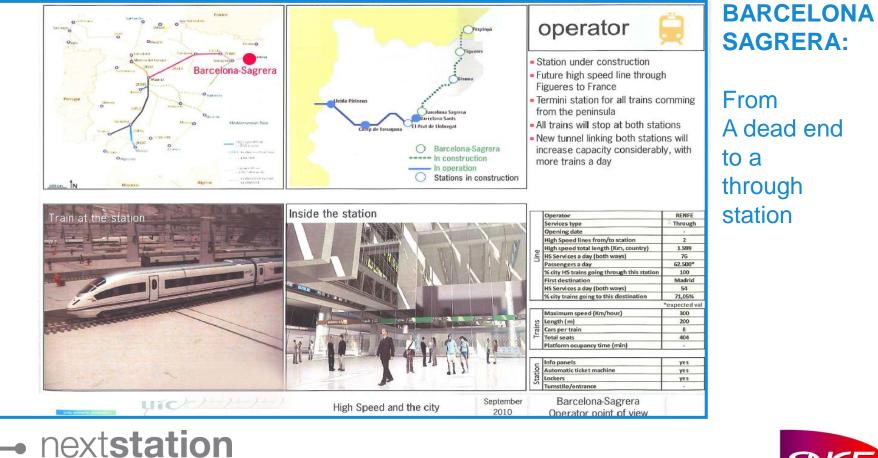
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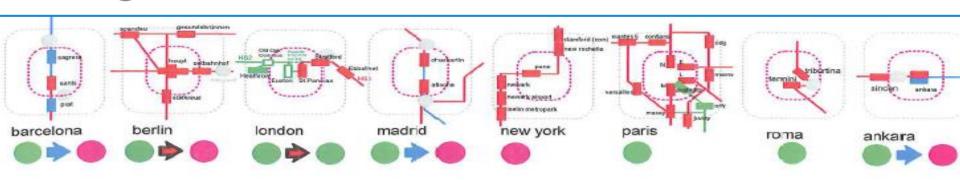
Operator's viewpoint

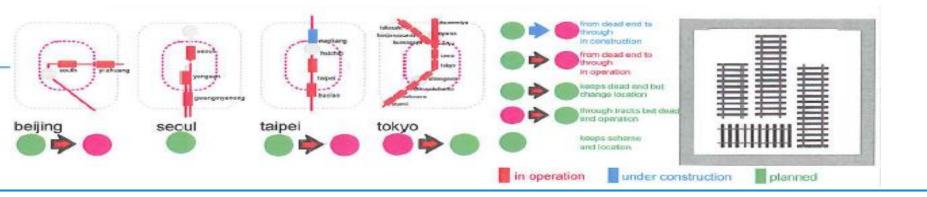




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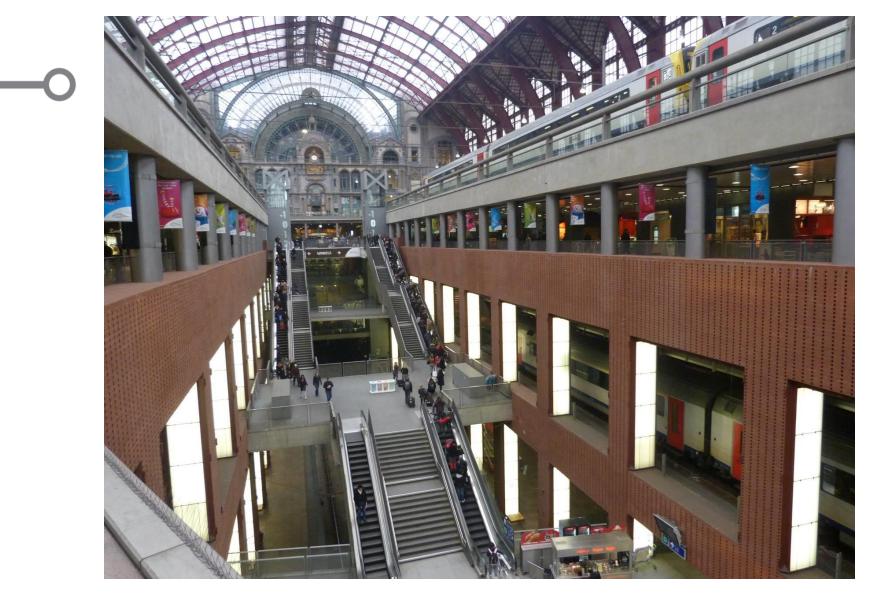
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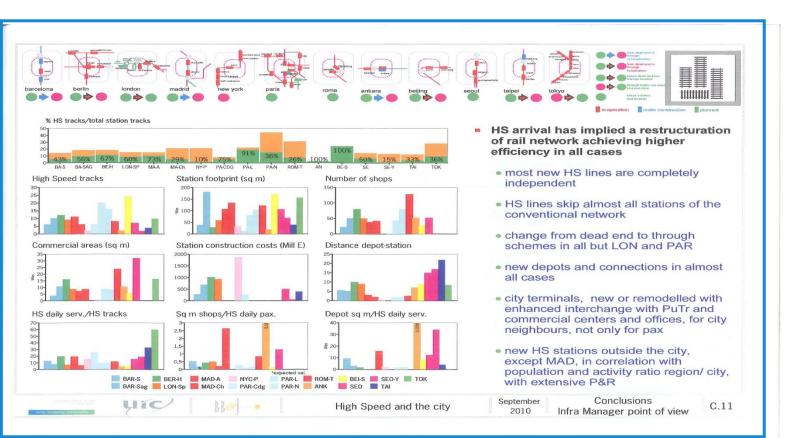
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Both for the city and the station, High Speed Rail is seen as an opportunity and a potentiality.





In all the cases under review, HSR have brought huge changes at the city level.

Passengers, operators, infrastructure managers and city planners have benefited from the improvements.





These changes may sometimes occur in cities out of all High Speed context,...

... but the converse never happens:

HSR without any significant change.





Since there is a kind of causation effect between HSR implementation on one hand and the city and the station evolution on the other hand,...

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... it is worth deepening this relationship in order to identify guidelines for futher development of the HS network.







