Opening Address: Designing Transport is Designing Cities

Étienne Tricaud

CEO & Co-Founder – AREP





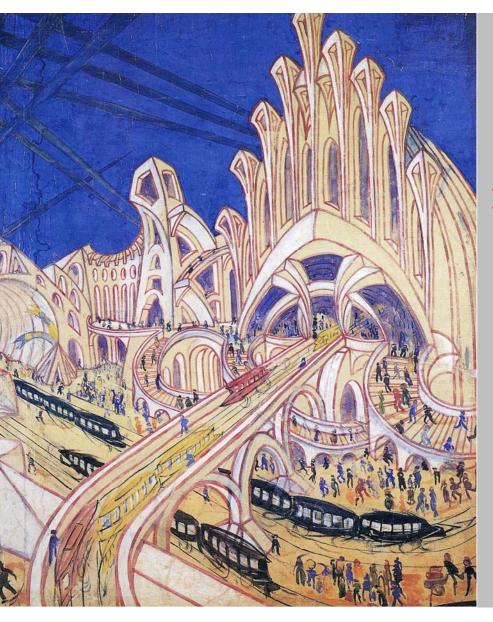
Designing Transportation is Designing Cities

Étienne Tricaud



President & Co-founder

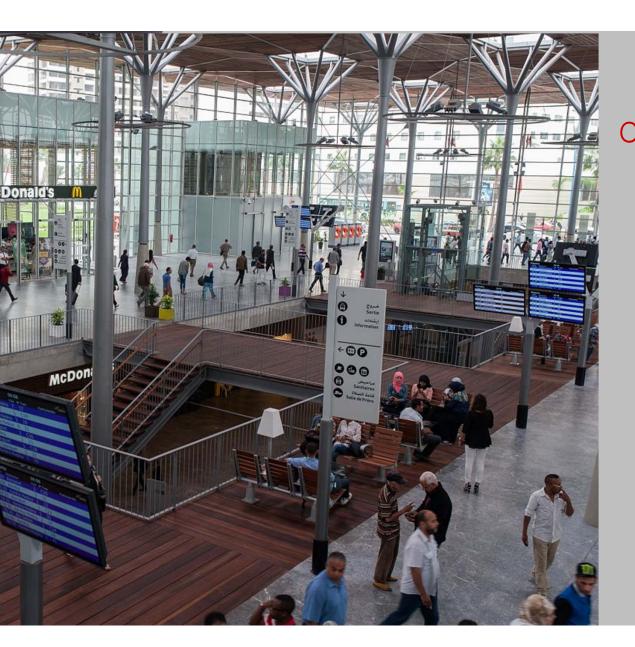
RAILNATION Chicago November 2, 2017



Or : « The 200 Years History of Hate & Love Relationship between the Transport & the City »

Étienne Tricaud AREP

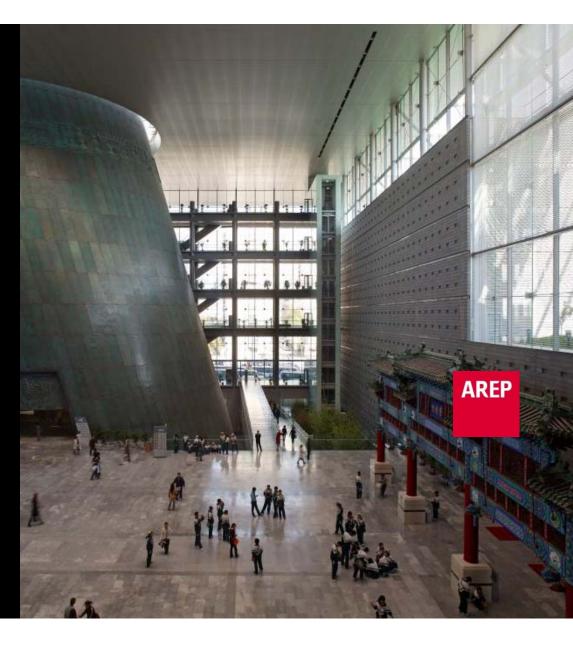
RAILNATION Chicago November 2, 2017



Or : « the Station is the Future of the City »

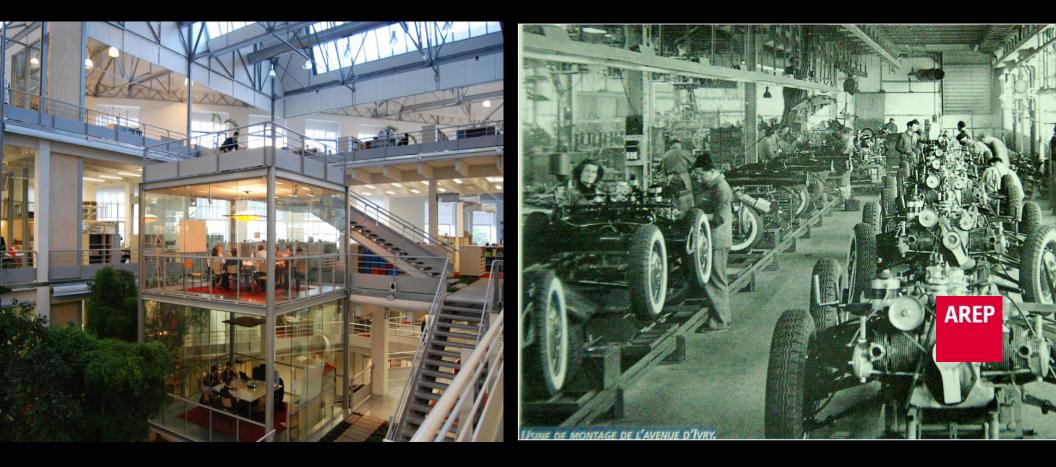
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RAILNATION Chicago November 2, 2017

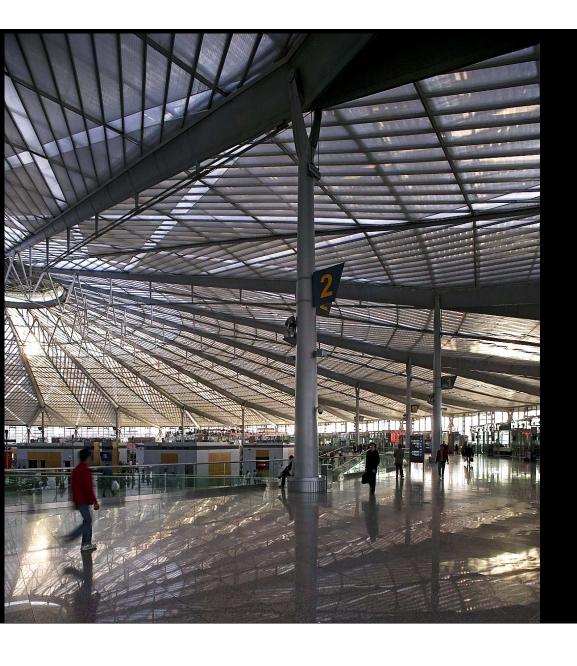


A multidisciplinary design office

Architecture Urban planning Structural and MEP engineering QS & Economy Product and graphic design Programming Passenger flow engineering Project management





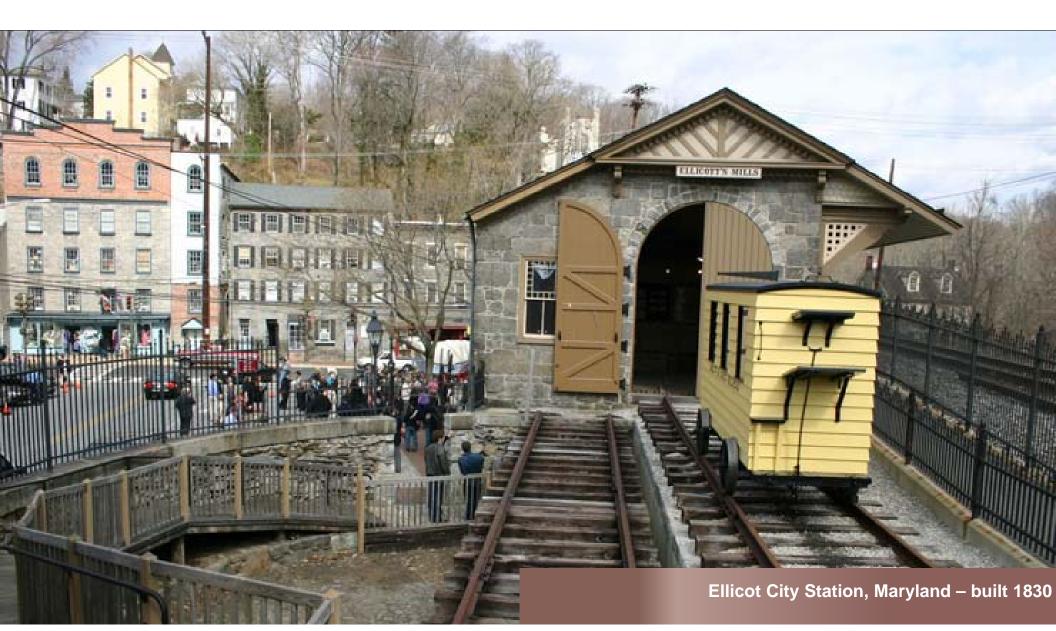


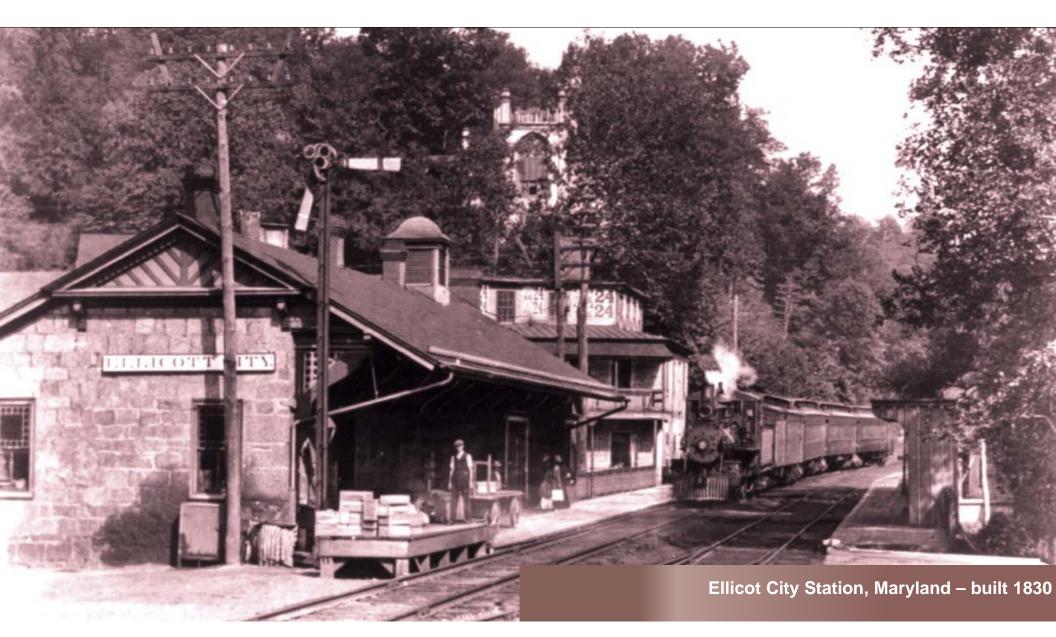
Designing spaces for people on the move

AREP

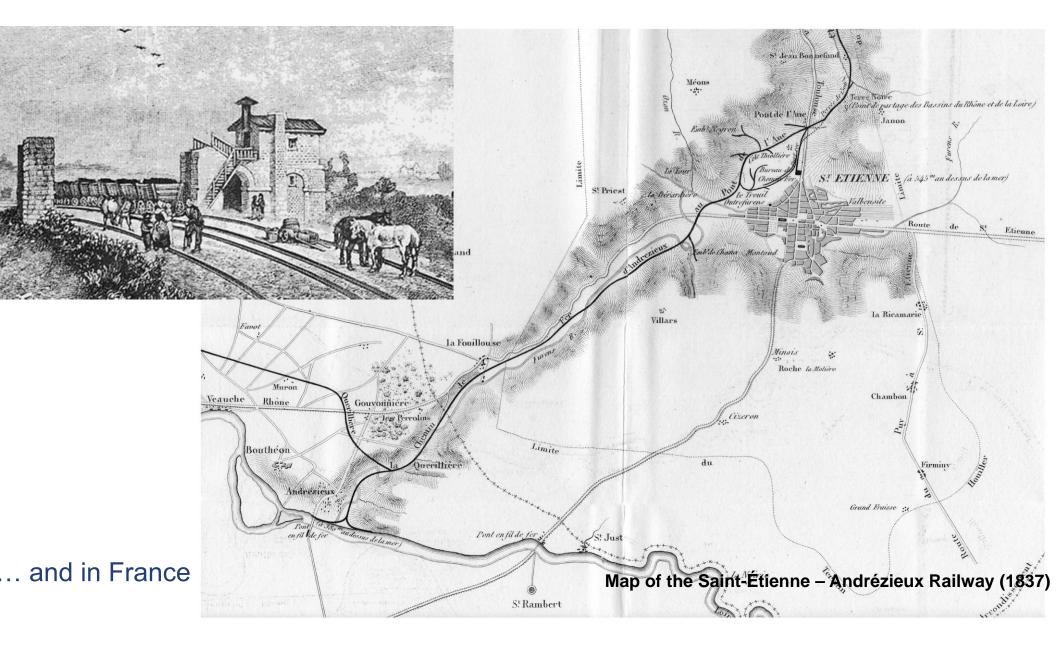


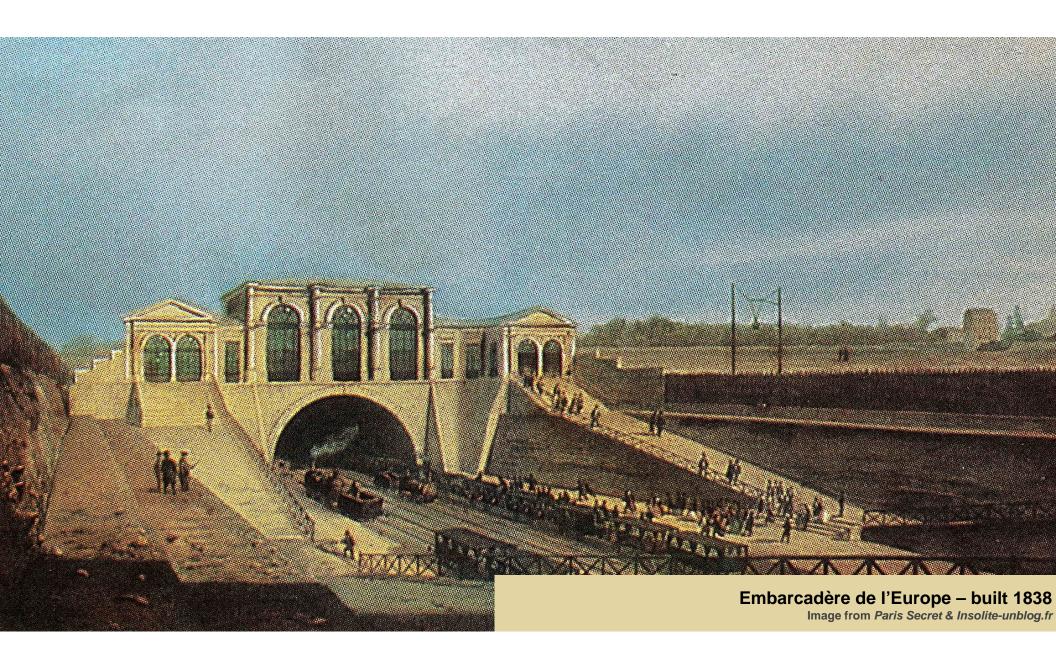
1. The Birth of the Railroad



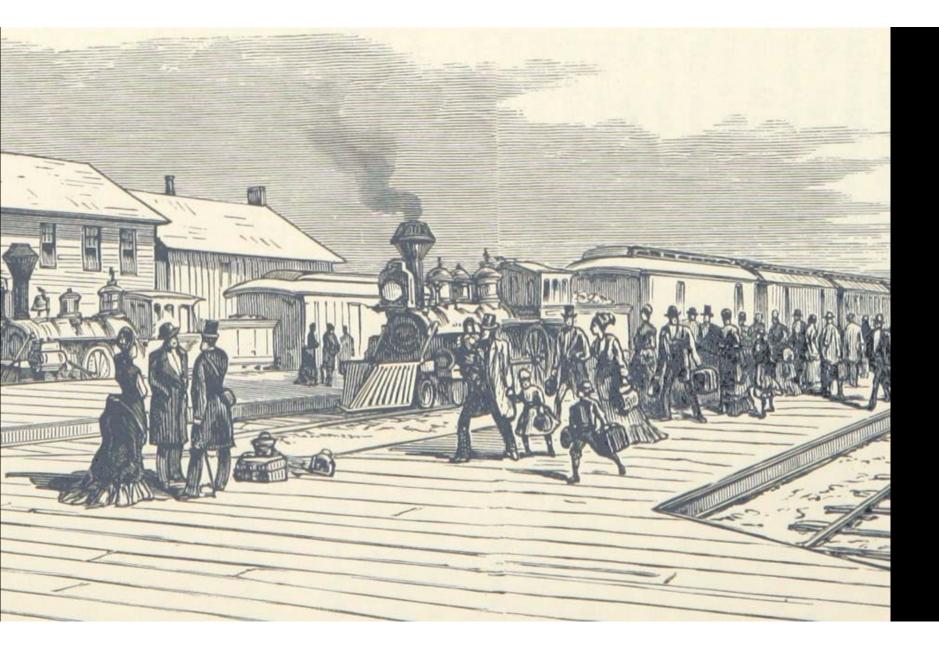


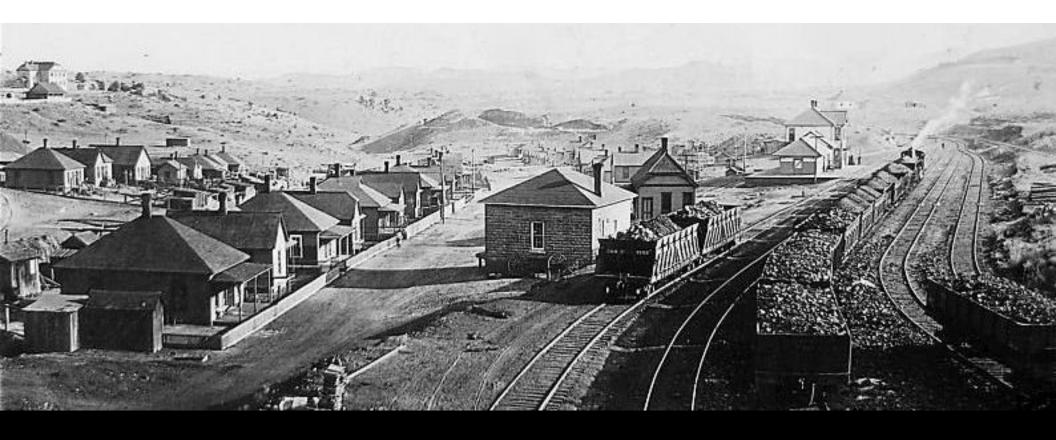




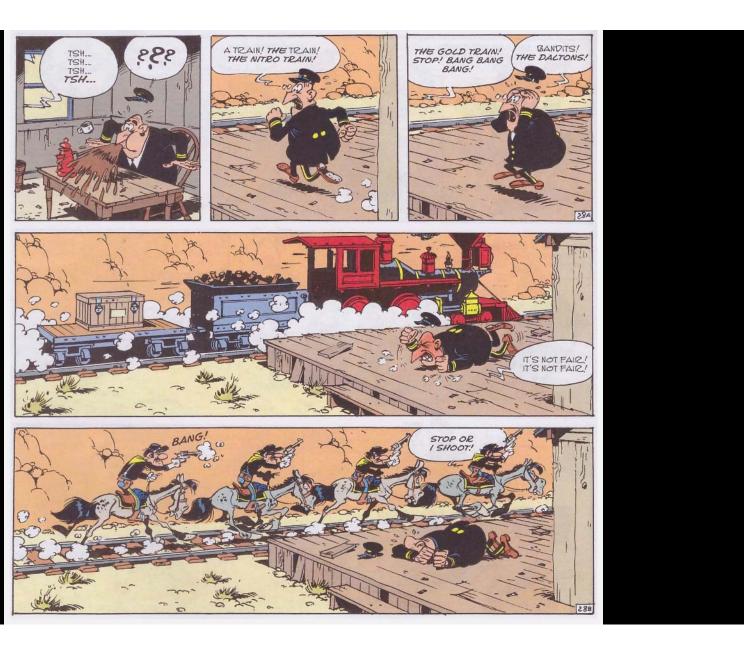


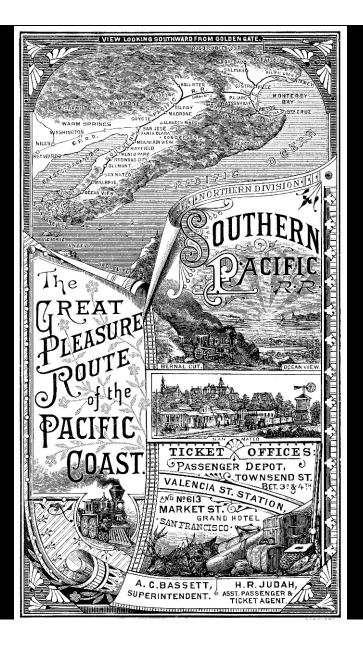
2. The First TOD (Transit Oriented Development)











Be carefree, be comfortable and enjoy a Now World Stand

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New World Standard in Travel

The new Santa Fe



Advanced ideas for your travel luxury...new cradled smoothness in the ride...daily between Chicago and Los Angeles

From the flanges on the wheels to the tip of the Pleasure Done, the Super Chief is new-entitlely new. To give you the sunoshter title of your life on ralls, this new Super Chief glifter on carbined paring . . . reviews any idea you ever that above any train. The keymete is confort. You find it in the distinctive Turnuolee Room in

review any idea you ever had above any train. The keynetic comfort. You find it in the distinctive Tempoter from in the langue car - a displicitly fixed to relative, may a contrail or energial system of the distinctive fixed times such a room has been provided on any train. You find it is the Plename Dame—"any of the Super, next to the strain—"shark brings you as undertructed view of wonderful southwesters.

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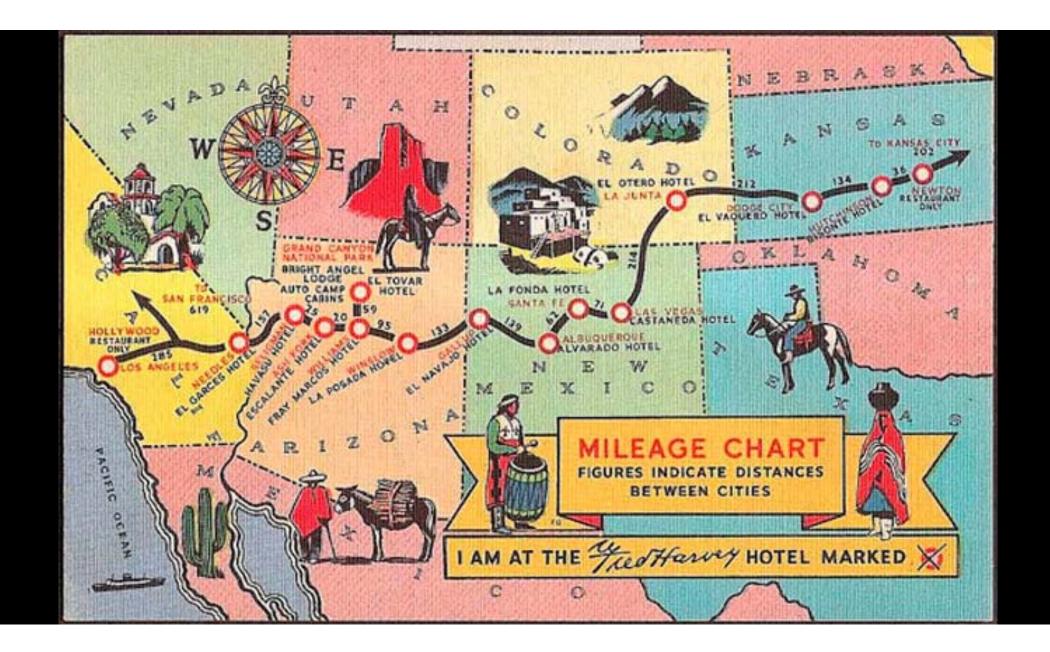
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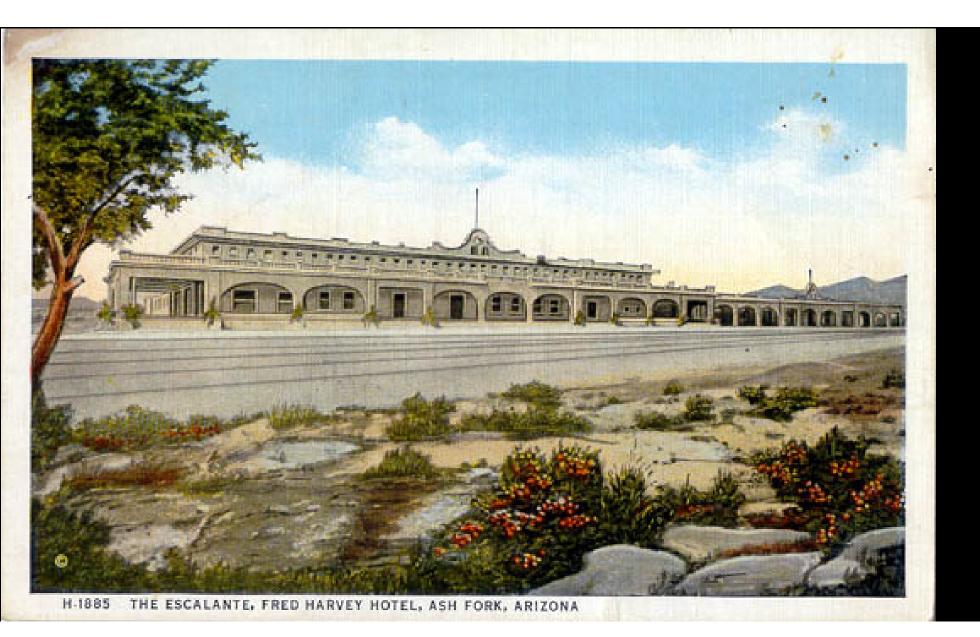
You find it in the new dising cars where Fred Harvey chefs present new and receiving receim. Accessmediations in this barry starting and designed to pamper you every mile of the way. "Plubburtes" radio or music in your room when you sout it ... beds you just cars' help streping in ... charming sportness by day.

button' radio or music in your none when you used i.e., bedy says used tack beig durping in ... charming sparsness by day. From the engineers who glide year arous this practions of thoughneers who glide year arous this practing of thoughneers who glide years arous this practing of thoughneers who glide years arous the space. For your next relp between Chicage and Los Angelon any "Supper Child" None, more than over, it is Annexicity usin of trainin, Junt consult your bealt tokes agares.

Santa Fe

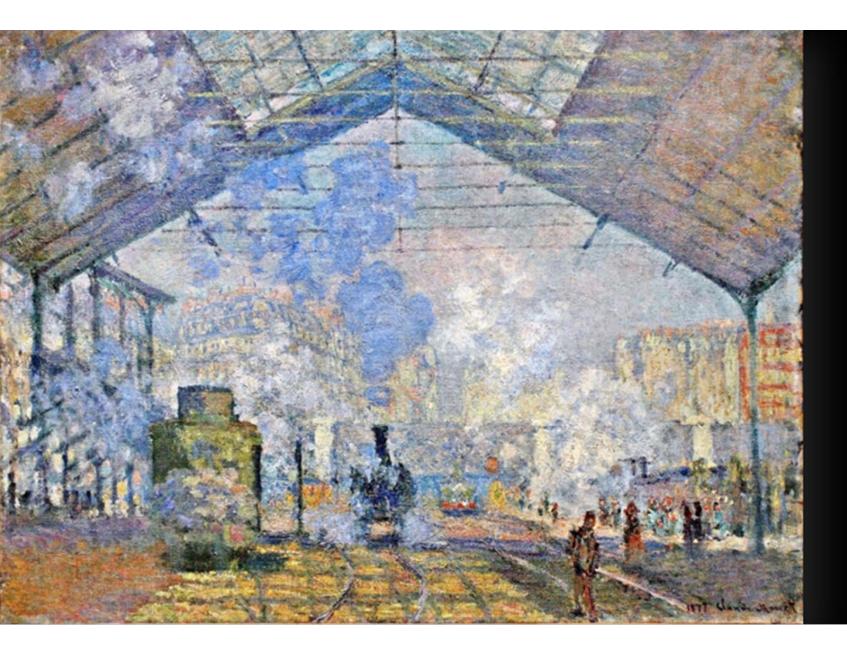
SANTA FE SYSTEM LINES Serving the West and Southwest







3. The Golden Age of Railway Stations

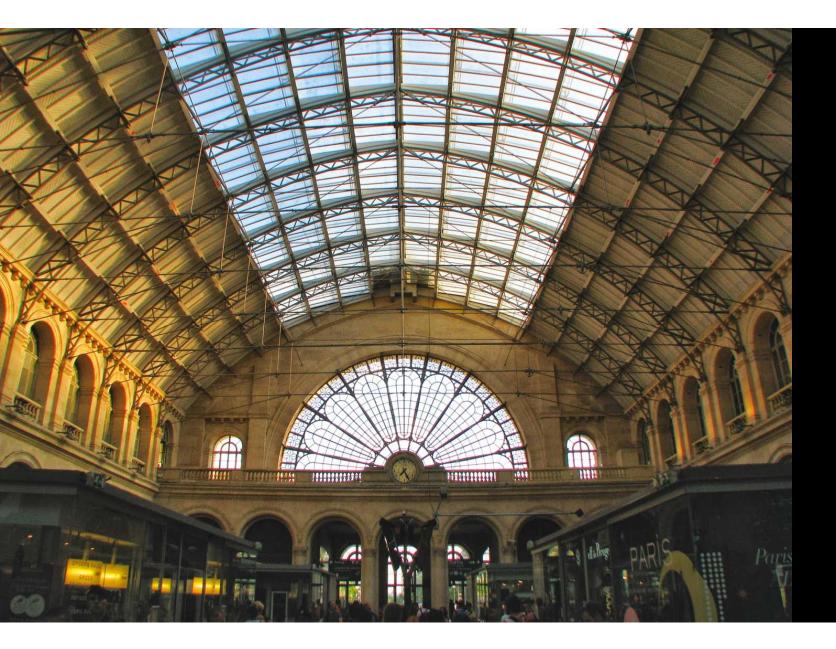


Claude Monet " Saint-Lazare Station, Exterior View " 1877- Musée d'Orsay

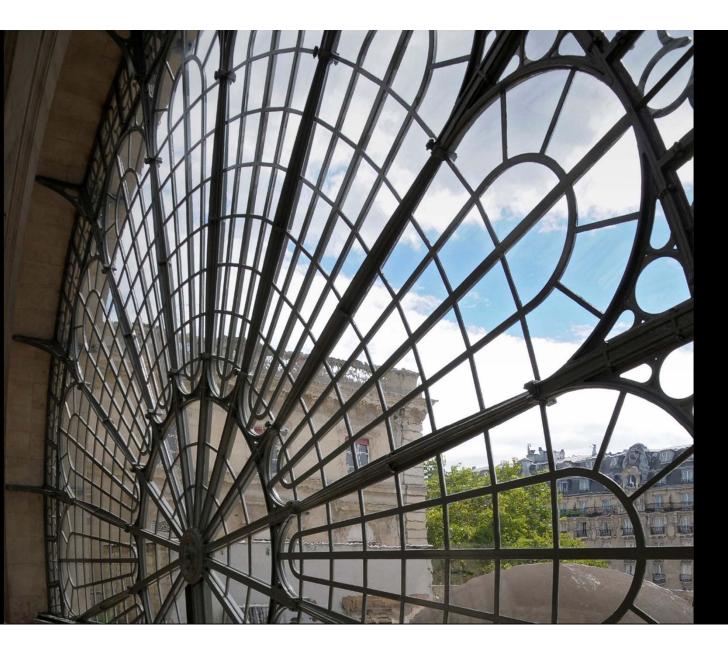


' Arrival of a Train at La Ciotat' – 1896, the Lumière brothers

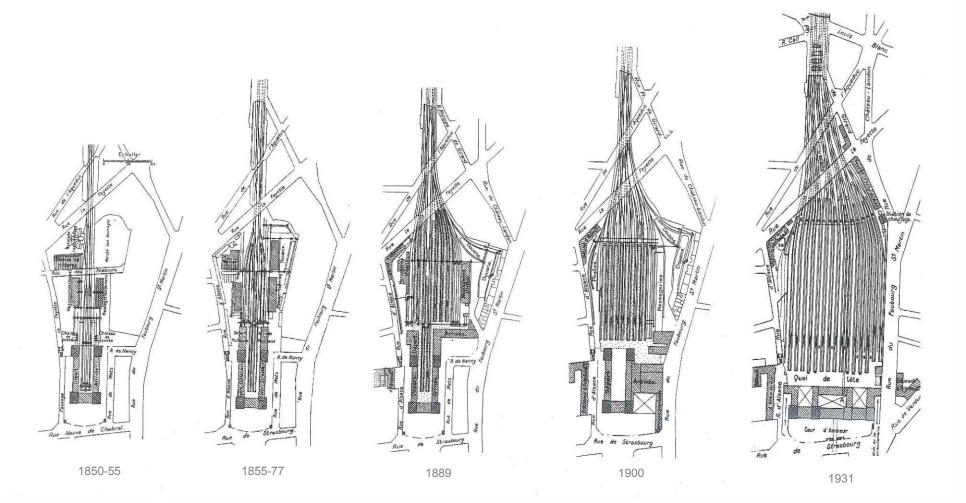




Paris – Gare de l'Est



Paris – Gare de l'Est



The evolution of Paris – Gare de l'Est (East Station) Images from SNCF Archives

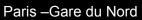
Architect: François Duquesney





Paris – Gare de l'Est



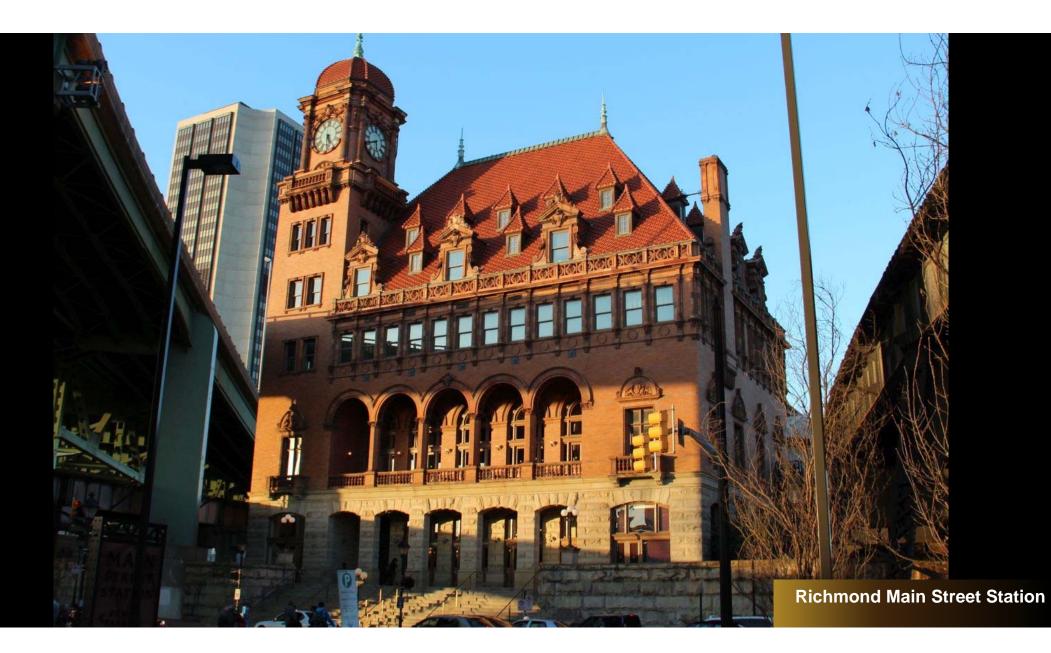




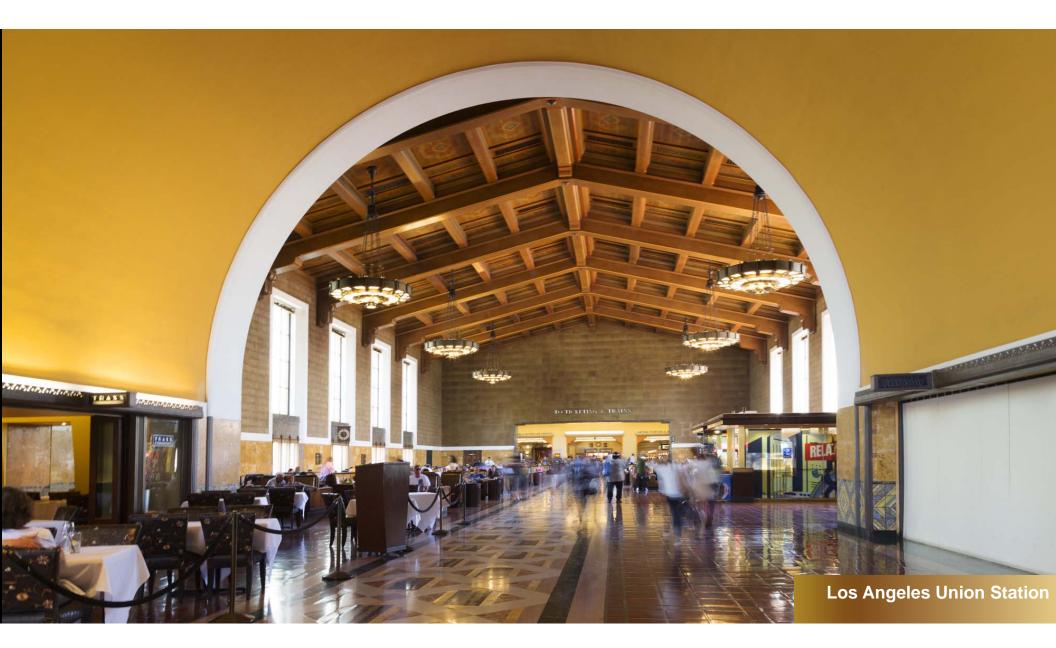
Paris –Gare du Nord



London - Euston Station Early 1890s



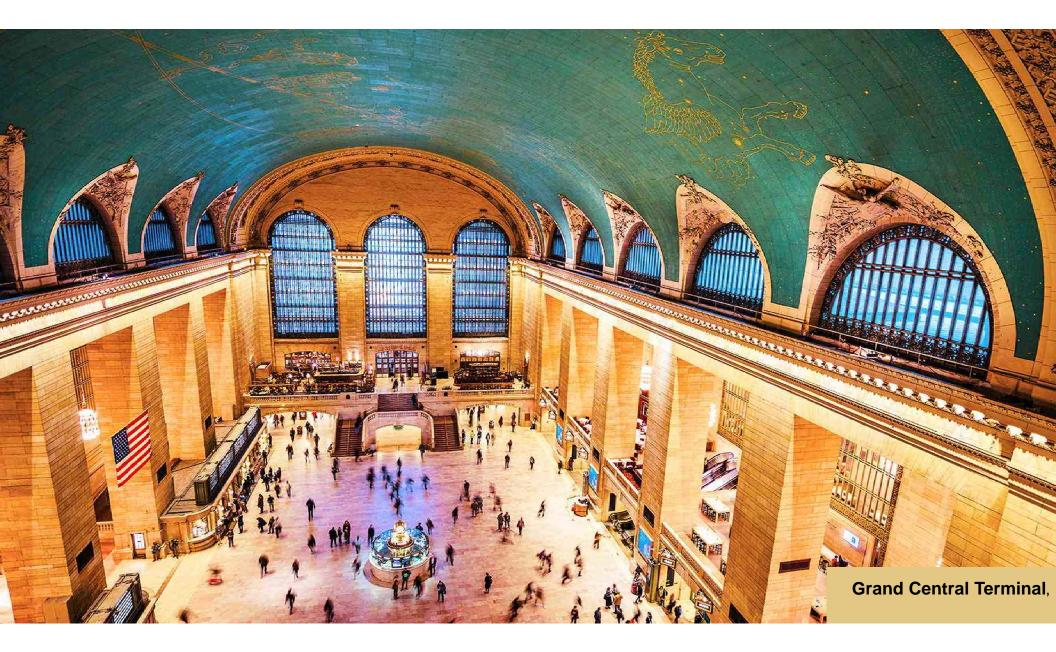


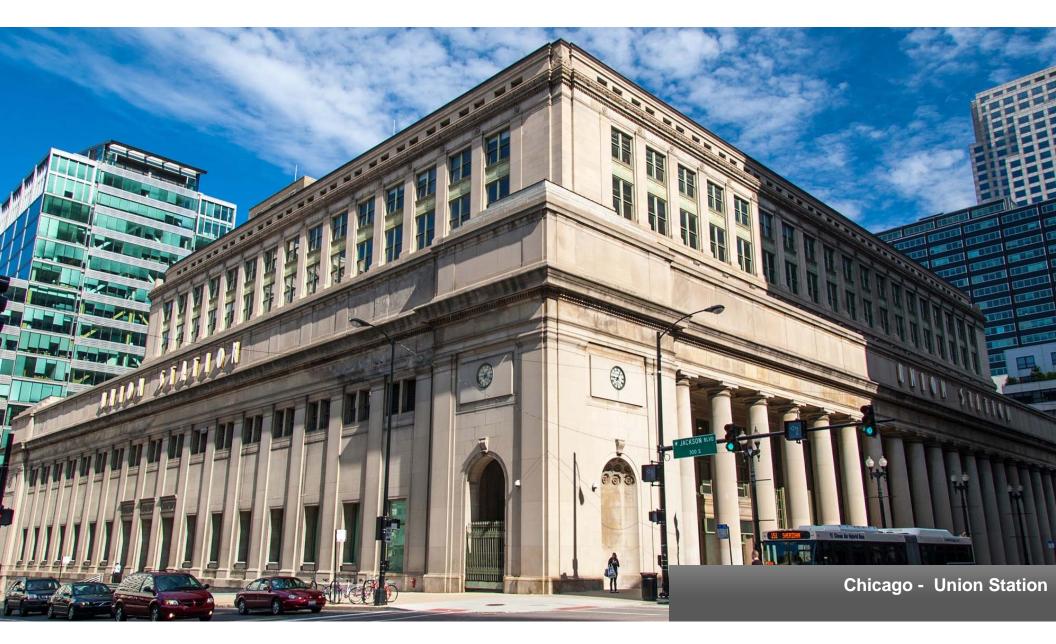


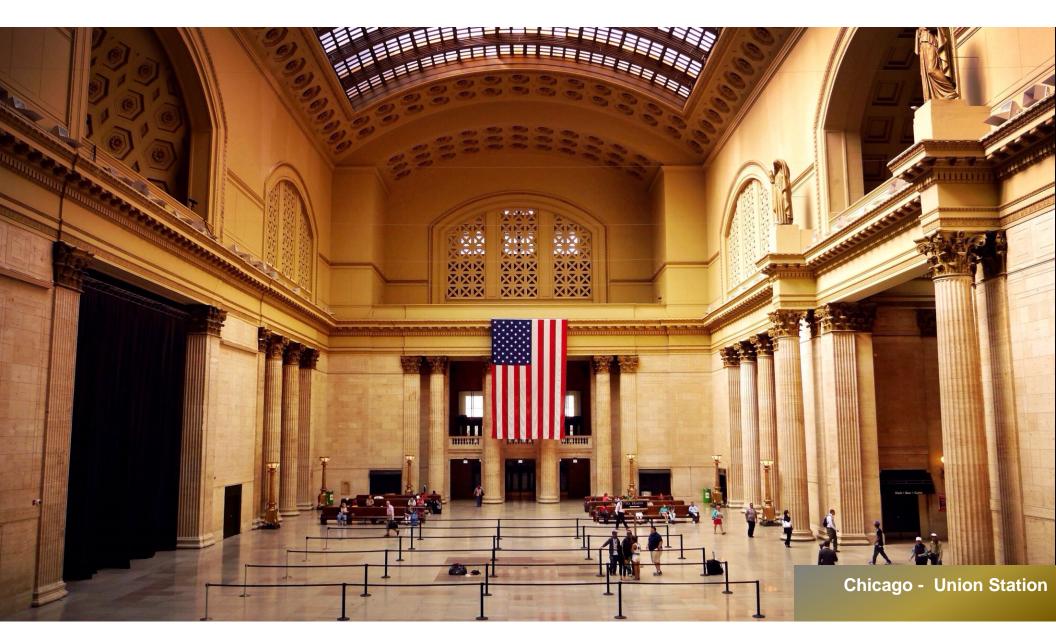


Grand Central Terminal,

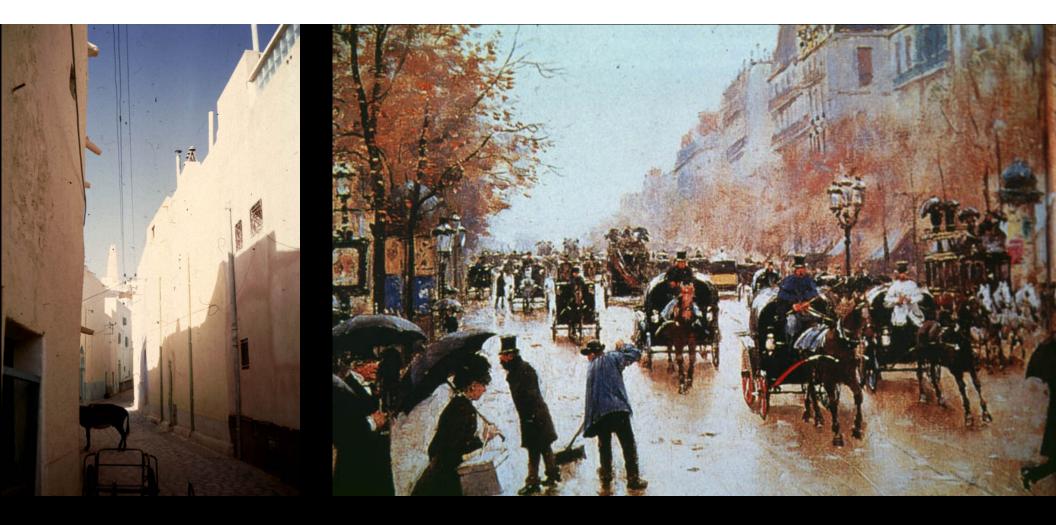
Late 1920s by CORBIS

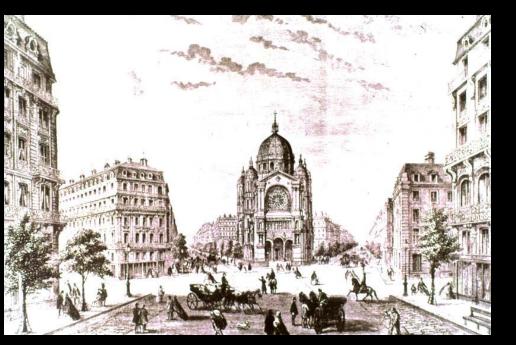






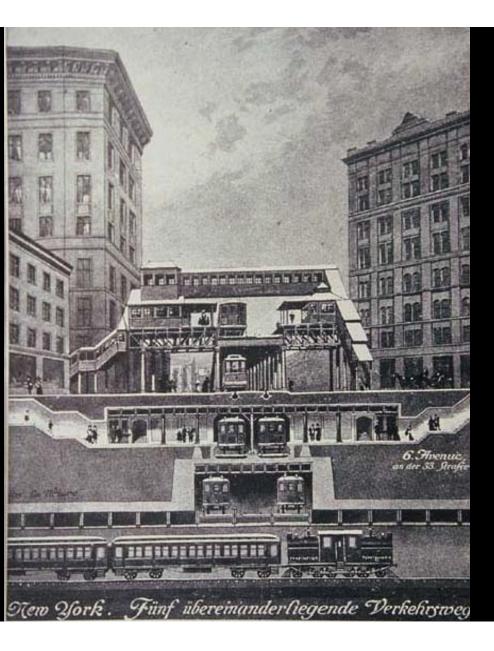
4. The Birth of Urban Transport and the 20th Century Urban Development

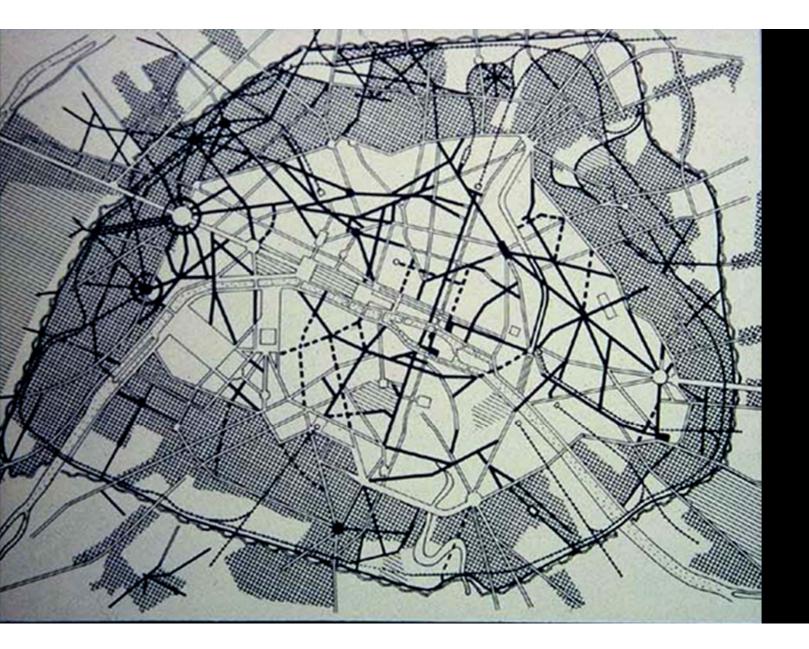


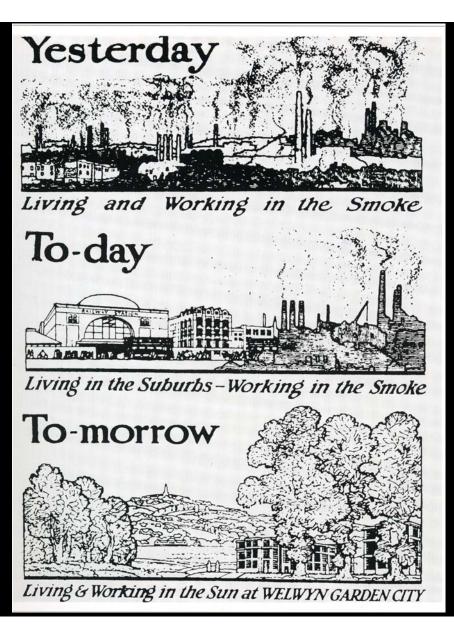














L'INTRODUCTION DES VITESSES MÉCANIQUES DANS LA VIE MODERNE OBLIGE A DIFFERENCIER ET CLASSER LES VOIES DE COMMUNICATIONS SELON LEUR FONCTION

a.

. . .

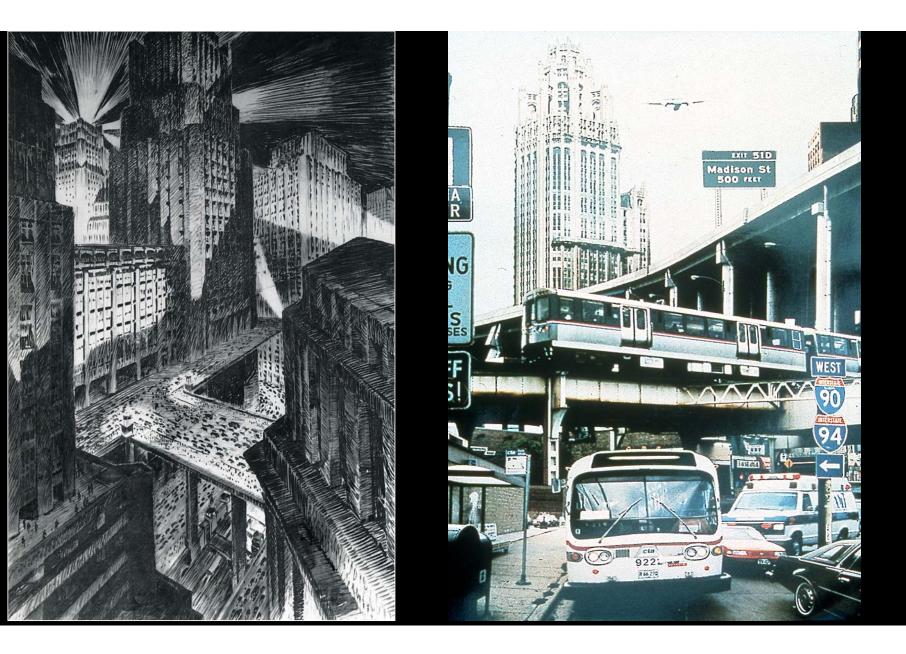
Les voies actuelles de circulation urbaine répondent et souvent imparfaitement aux besoins millenaires des piétons et vehicules à traction animale.

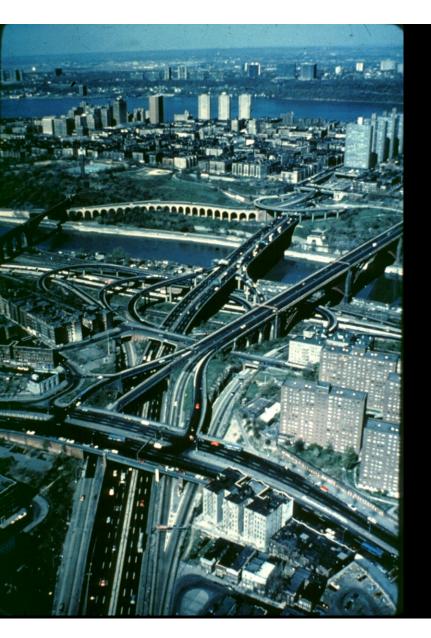
Depuis 50 ans environ, la vitesse et le nombre sans cesse croissant des automobiles de toute nature ont creé, progressivement la plus grande confusion du trafic circulatoire des villes.

> Des palliatifs provisoires, tels que l'ordre policier, les passages cloutes, les sens uniques, ne pourront exiter des solutions plus completes.

IL CONVIENT :

- de ménager aux piélons des allers et passages à l'abri des dangers du trafic intense des vehicules,
- d'organiser les voies suivant leur fonction,
 - de reserver des zones de stationnement à l'ecart de la circulation.



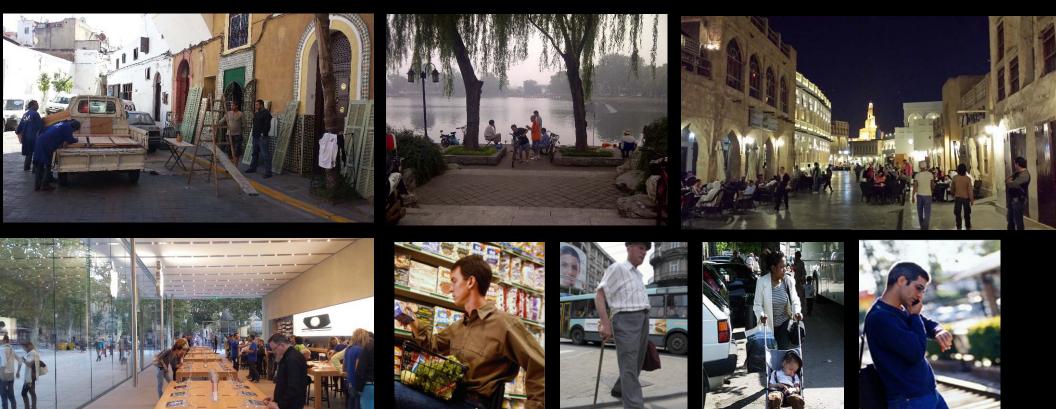




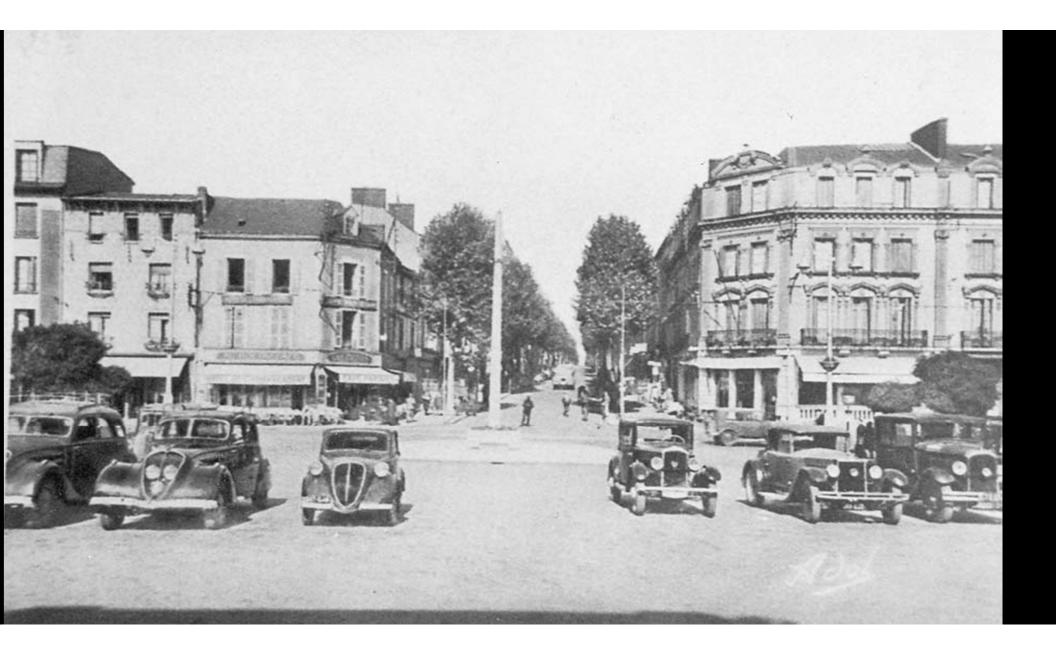




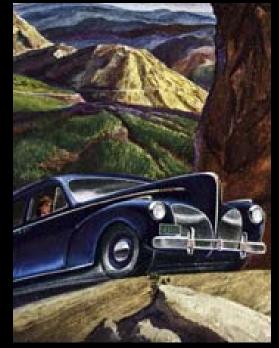




5. New Modes for Long Distance Transport











6. The Decline of the Train... Of the Station... and of the Station District



Grenoble station



Paris - Gare Montparnasse

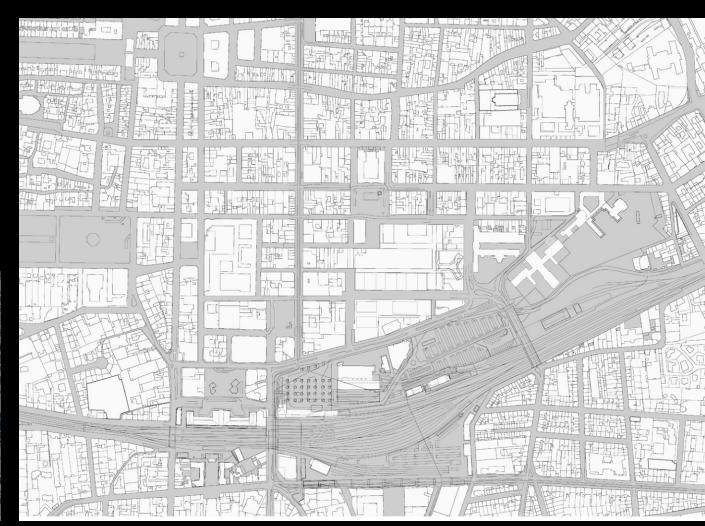




Paris - Gare Montparnasse





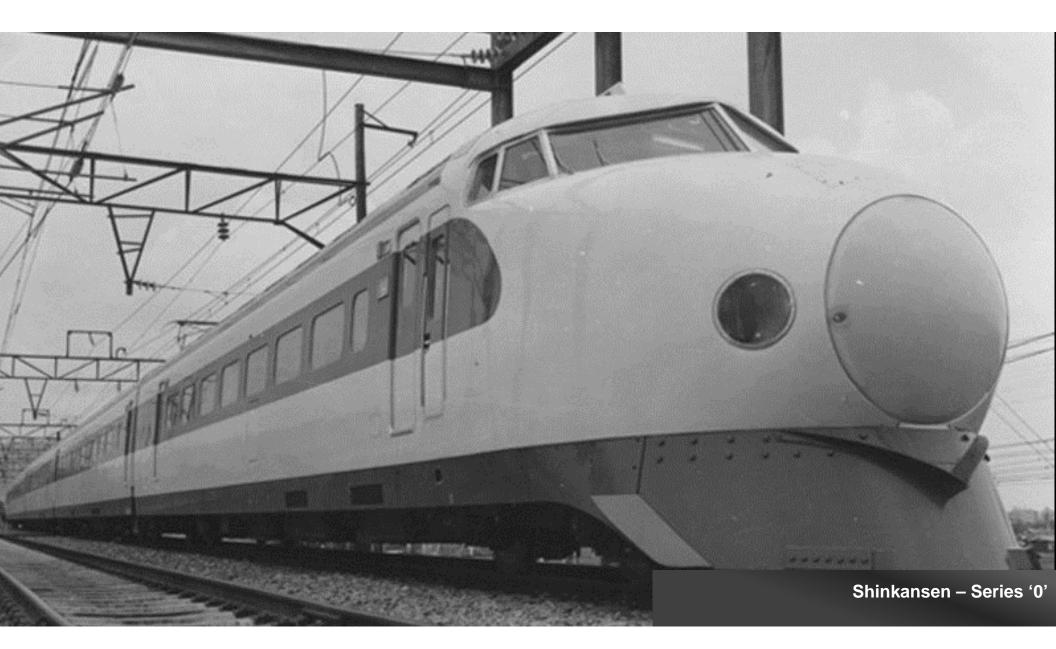






Saint Louis Union Station Now the Saint Louis Union Station Hotel

7. The High Speed Rail Effect



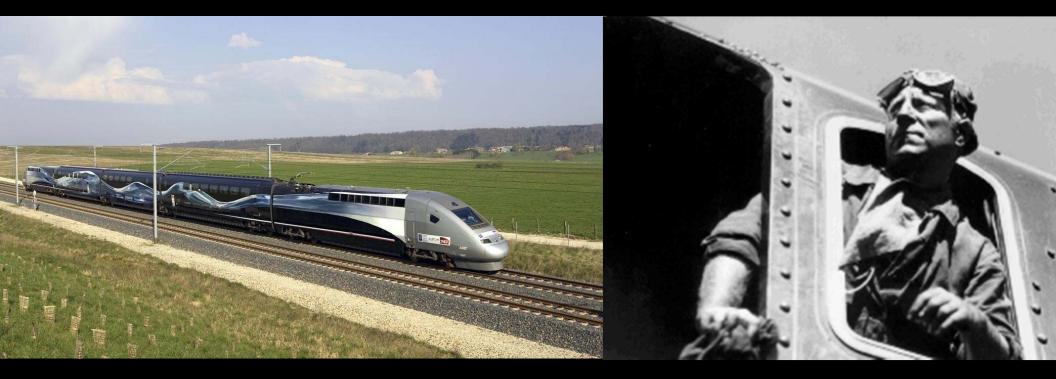




General Motors' AeroTrain

United Aircraft UAC Turbo Train





TGV - V150 World land-speed record conventional-wheeled vehicles 357.2 mph – April 3, 2007

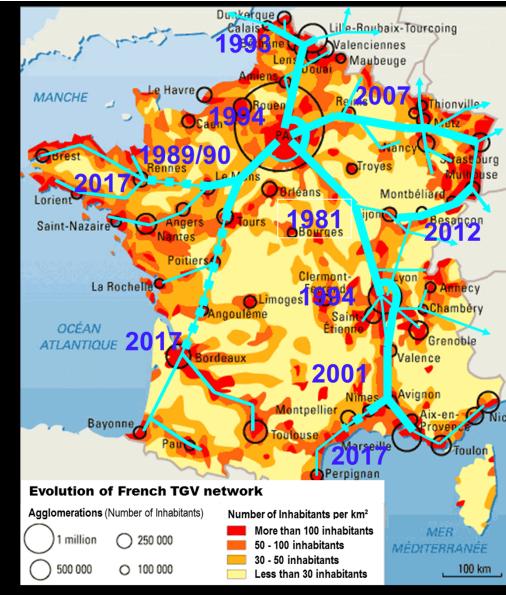


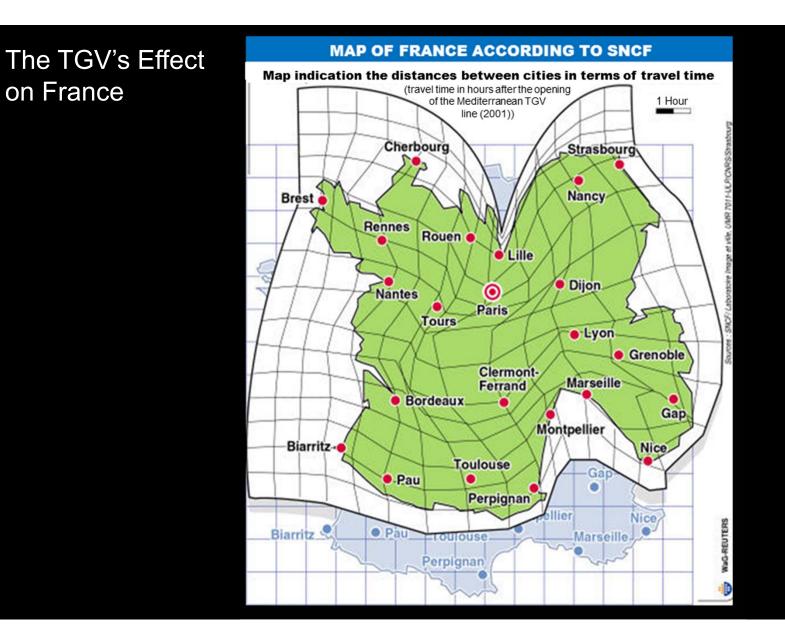




8. The Rebirth of the Railway Station : Phase 1 The Development of the TGV Network

1981-2017





Paris Gare Montparnasse 1990

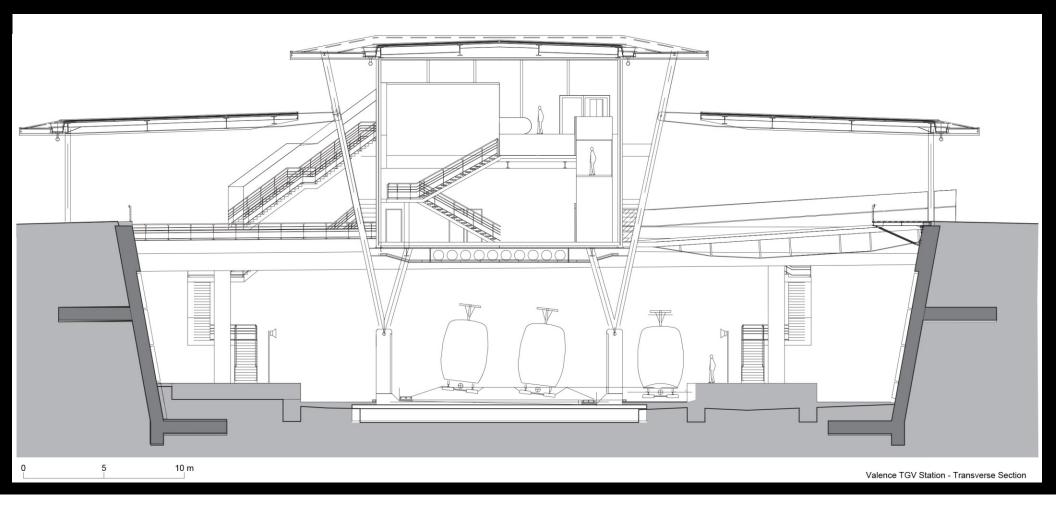


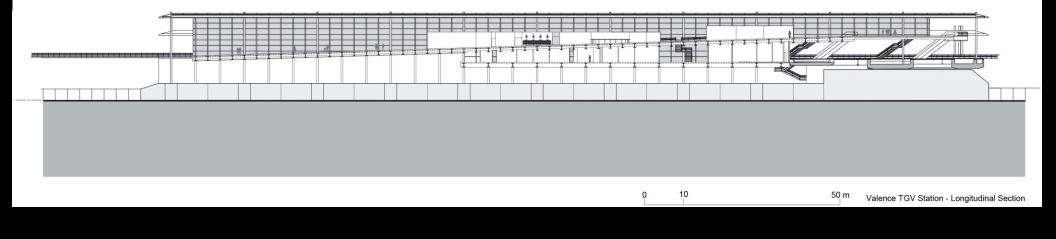
Valence TGV Station 2001

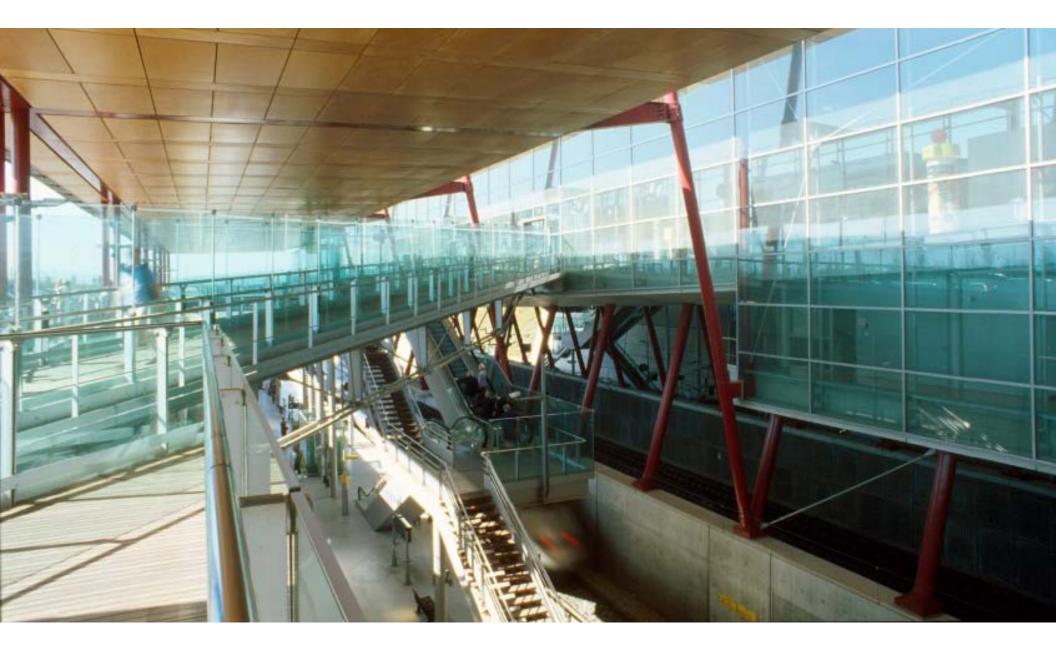


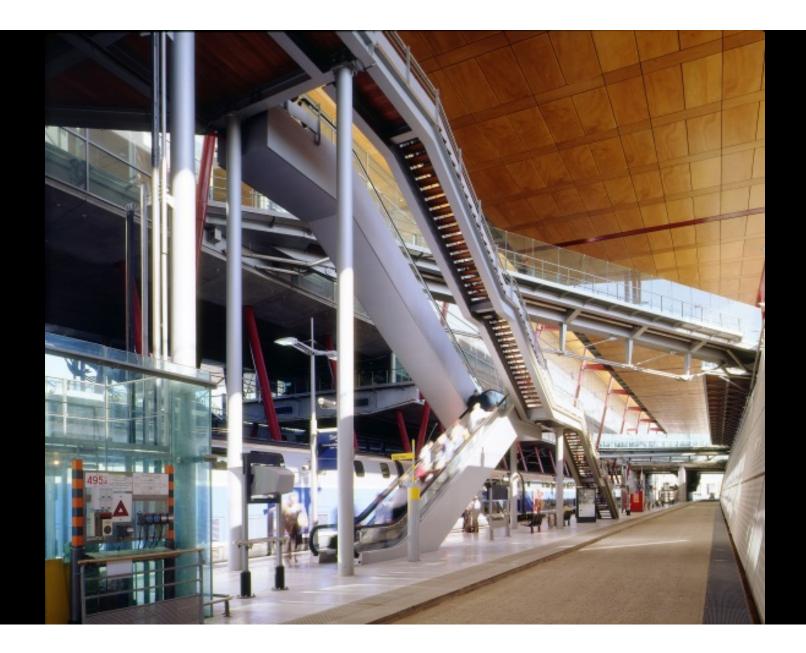




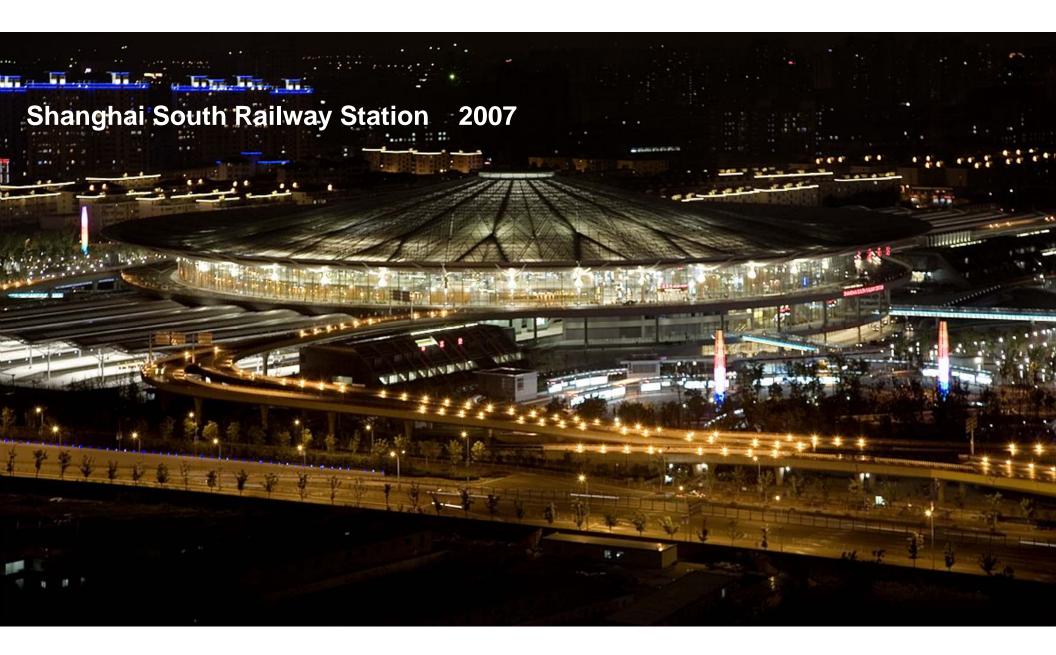




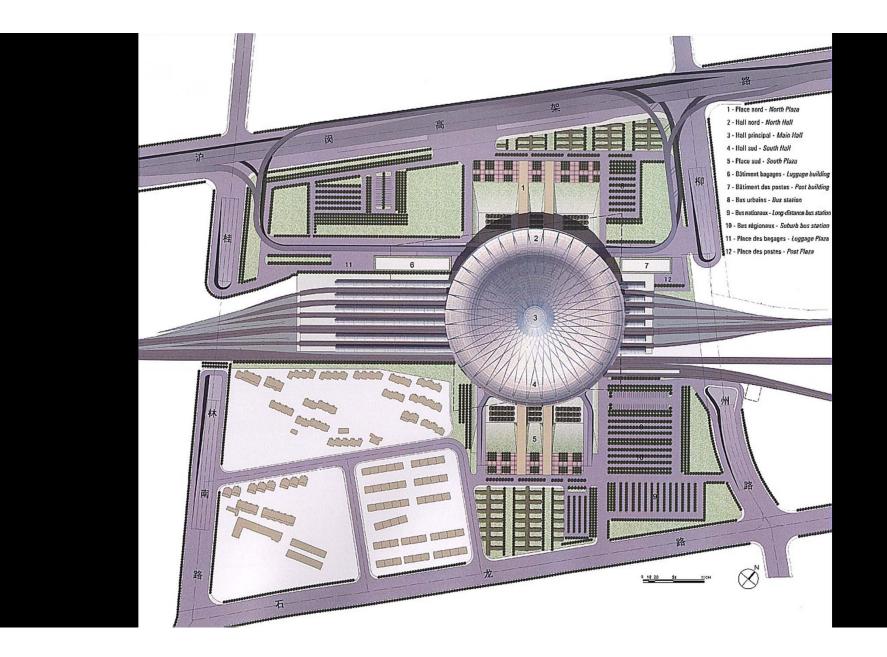




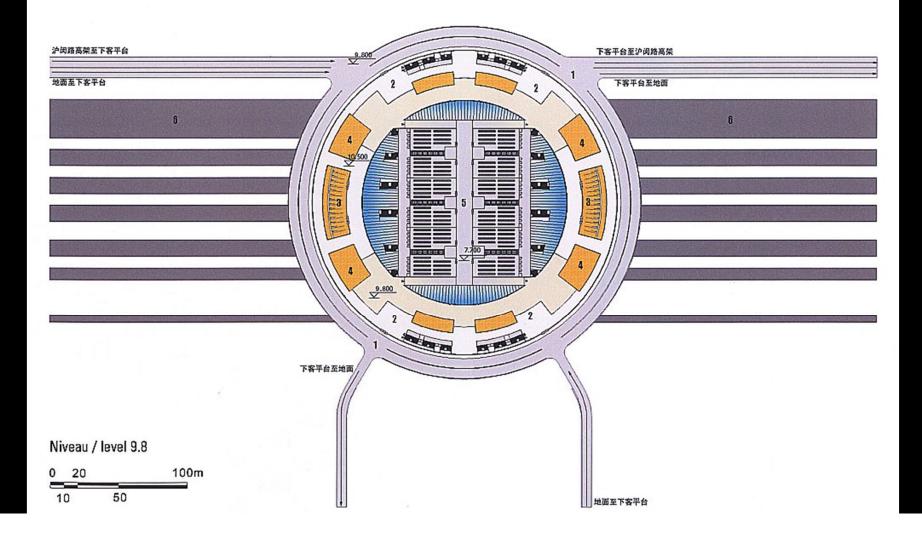


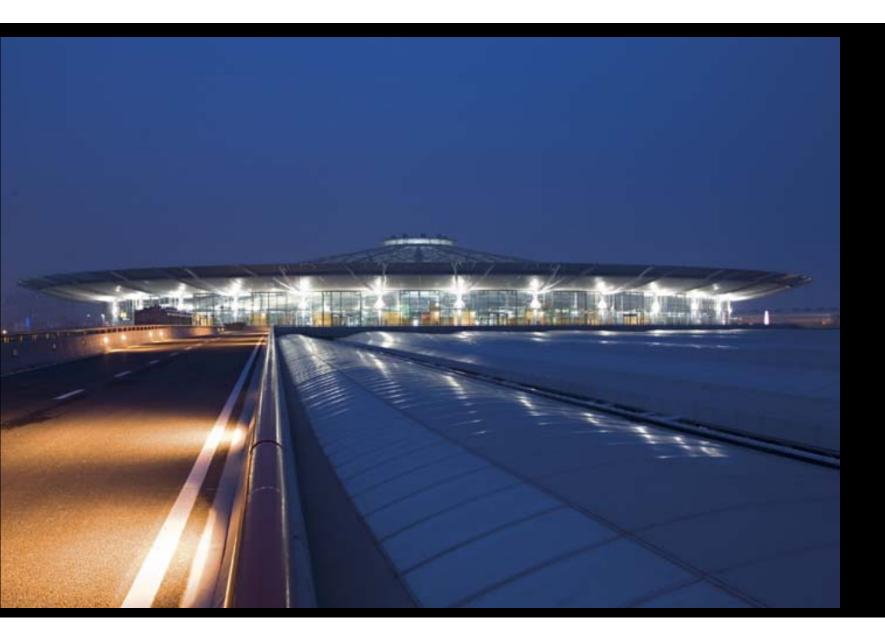




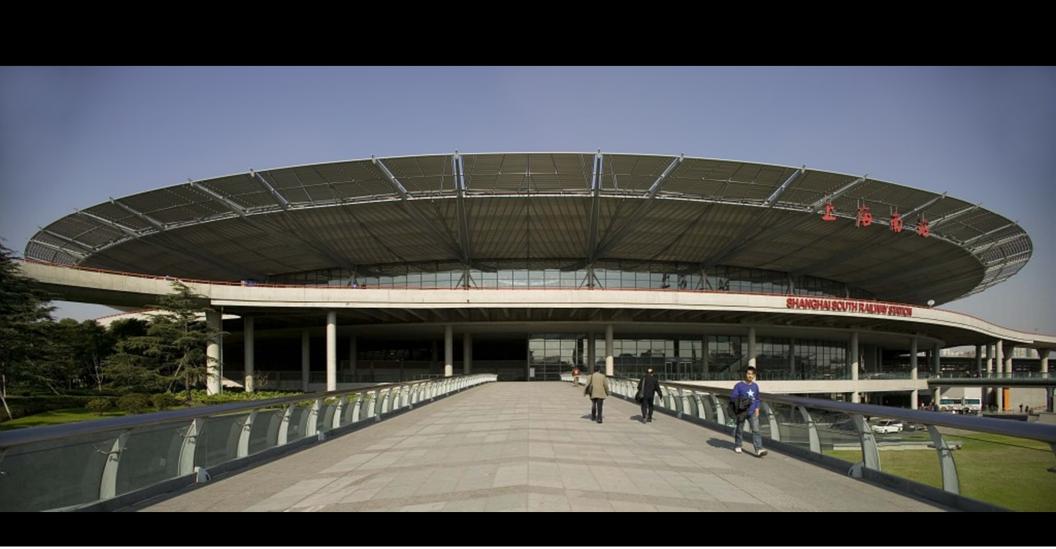


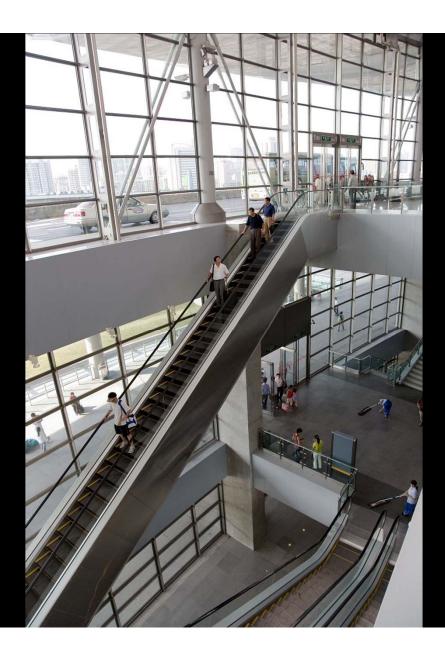
- 1 anneau des déposes drop off ring
 2 salle des départs departure room
 3 espaces vente de billets ticket sales desks
 4 espaces commerciaux shopping area



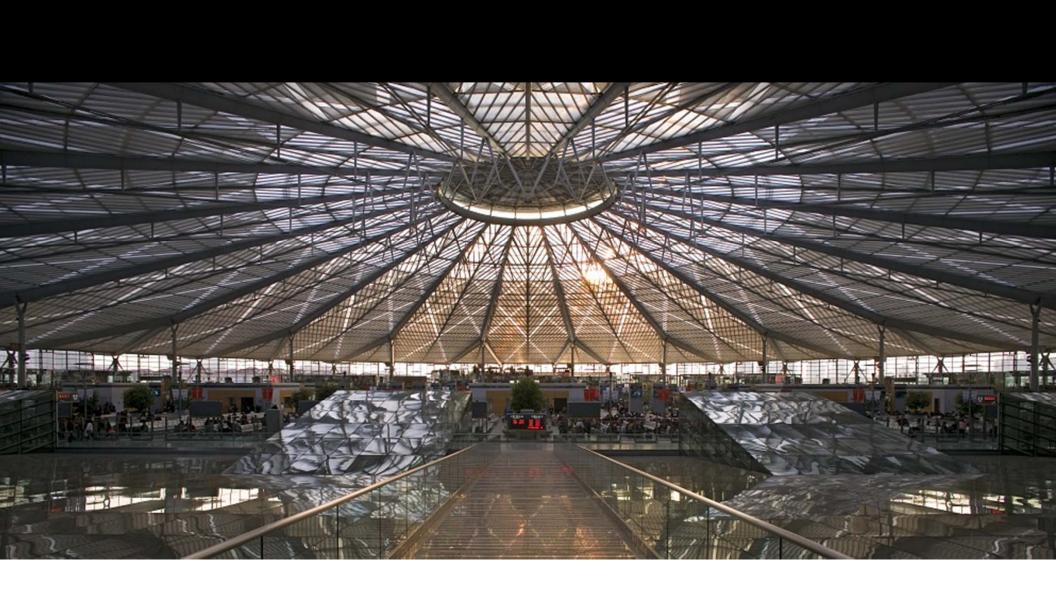
























9. The Era of new Urban Transport





















| Aide | SNCF | | ļ |
|--------------------|---------------------------|------------|------|
| PARIS GARE DE LYON | | | |
| HEURE | DESTINATION | N° | VOIE |
| 14:58 I Retarc | DIJON-VILLE 10 minutes | 6719 | |
| 15:16 | MARSEILLE | 6117 | 13 |
| 15:16 | MARSEILLE | 7907 | 13 |
| 15:20 | MONTPELLIER | 6053 | к |
| 15:20 | PERPIGNAN | 6213 | к |
| F | Plan | Pratique | |
| | Mise à jour : 02/10/ | 2009 15:14 | 0 |







Millennials in Motion Changing Travel Habits of Young Americans

and the Implications for Public Policy

U.S. PIRG Education Fund Figure 1. Millennials' Day-to-Day Transportation Experience Differs from Other Generations'

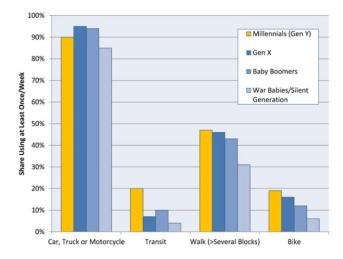
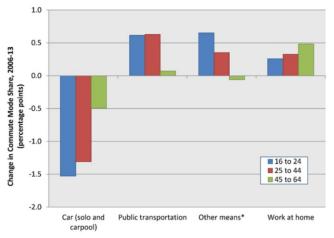


Figure 3. Change in Commute Mode Share, 2006 to 2013, by Age Group¹⁹



* "Other means" includes walking, taxicab, motorcycle, bicycle or other unspecified means.

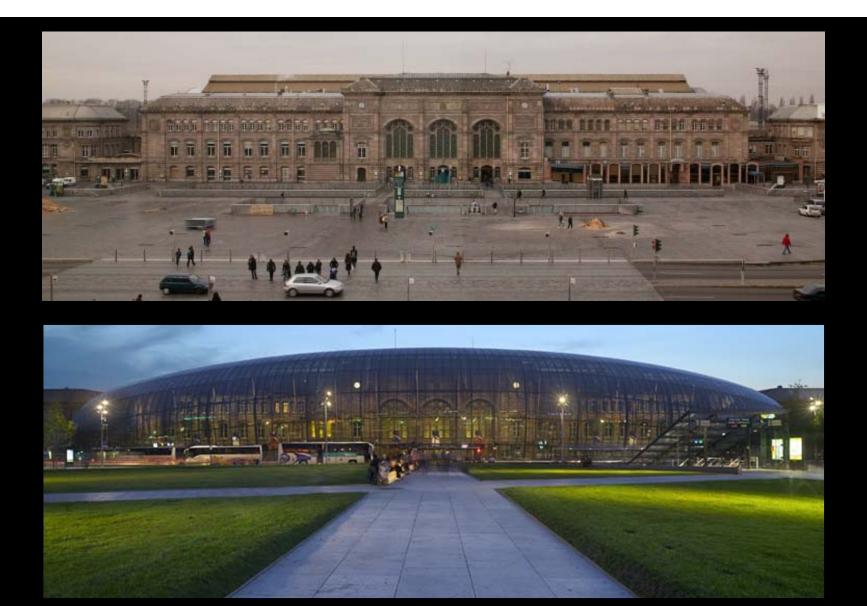
10. Stations as All-Encompassing Mobility Hubs (The Rebirth of the Railway Station : Phase 2)

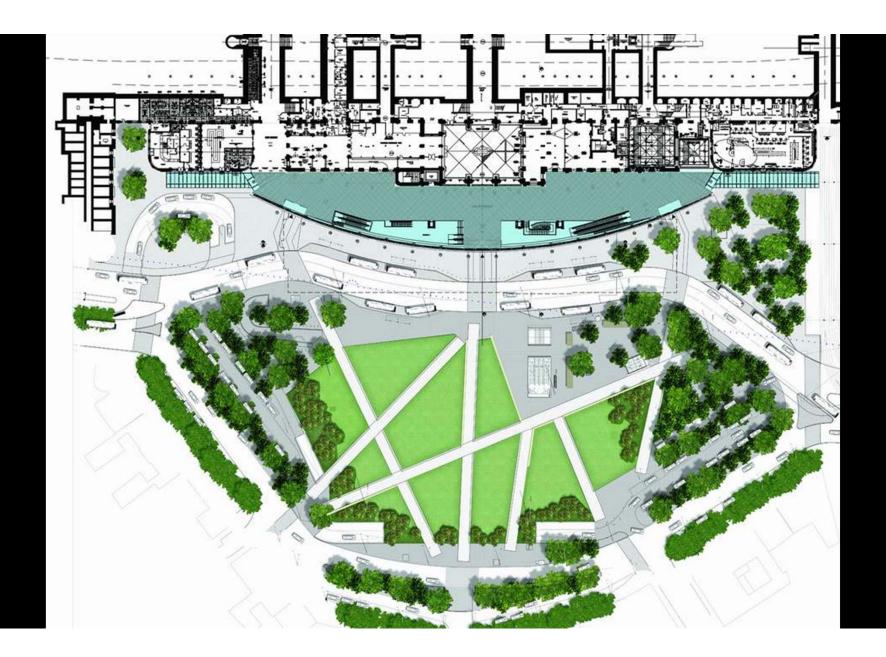
Strasbourg Station and Multimodal Hub 2007





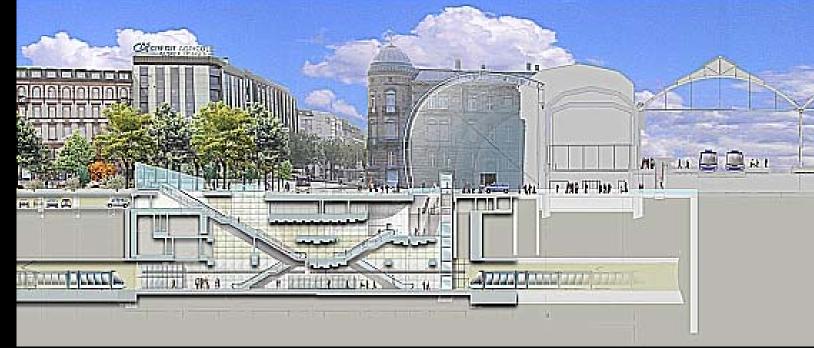












Strasbourg Railway Station







