

# URBAN AND TRANSPORT PLANNING: THE GRAND PARIS PROJECT EXAMPLE

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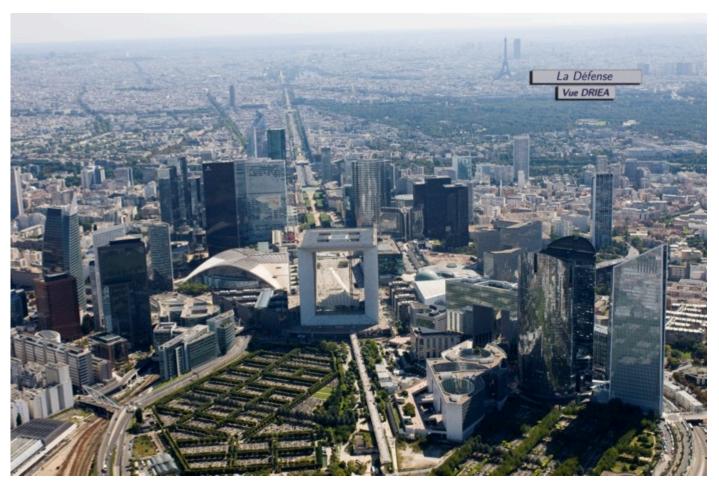
### The Urban Context

# **Greater Paris: The largest metropolis in Europe**



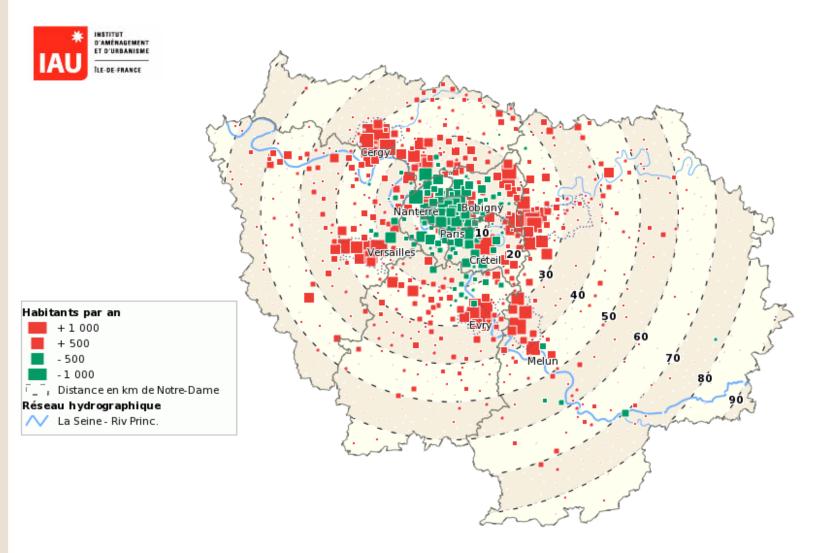
11.7 million inhabitants

5.7 million jobs



# **Urbanization has sprawled in the last 60 years**

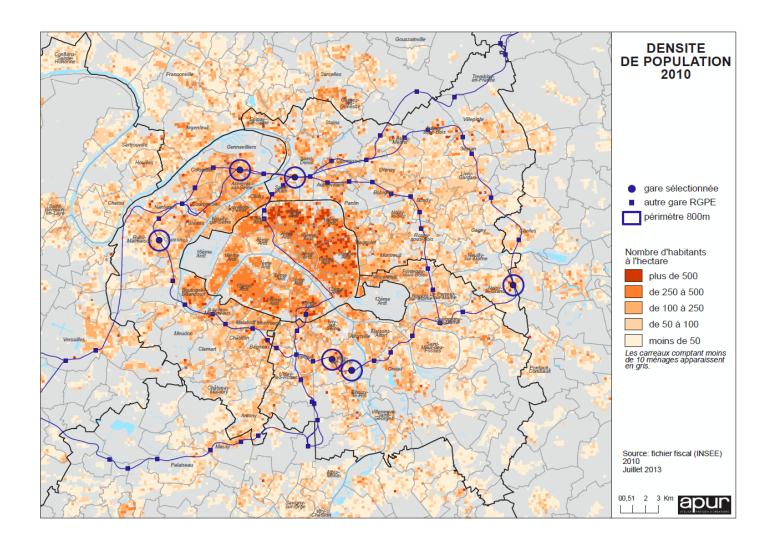




Source : INSEE

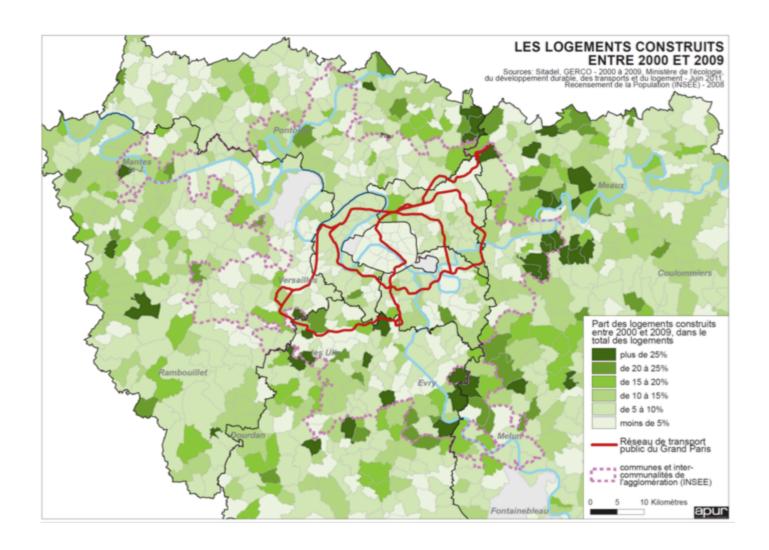
### Housing is still concentrated in the central area





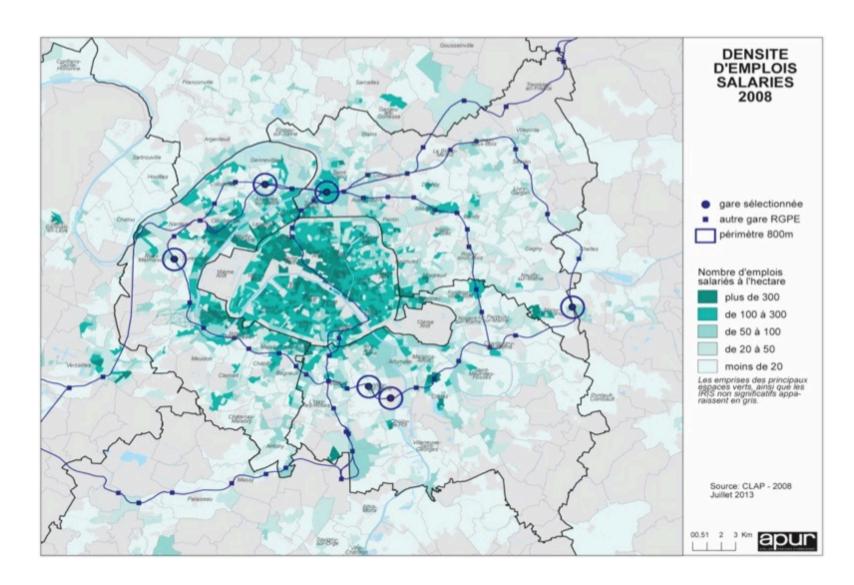
# Housing construction is now concentrated mainly in suburban areas





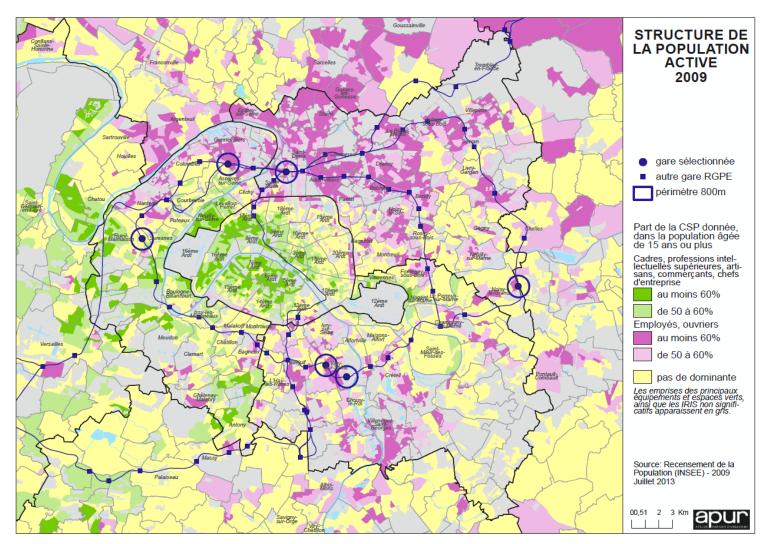
### Jobs remain concentrated in central Paris and immediate outskirts





# Strong social division remains: workers and managers live in different neighborhoods

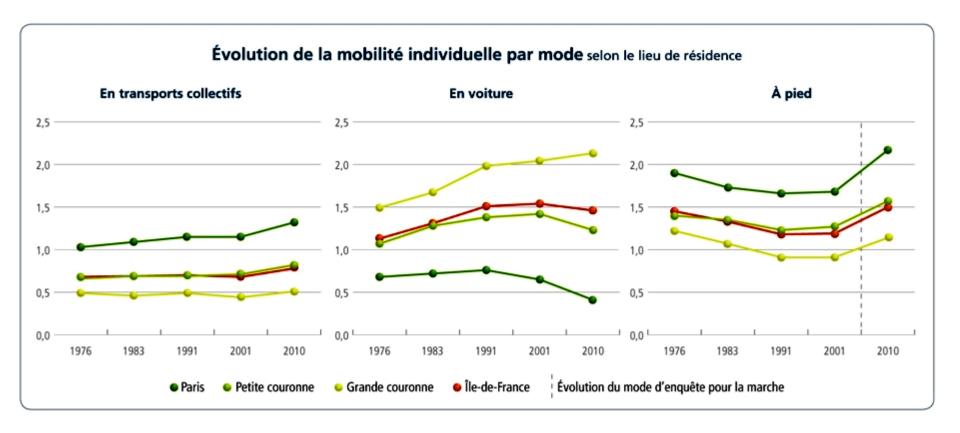






# Main trends in transport and mobility

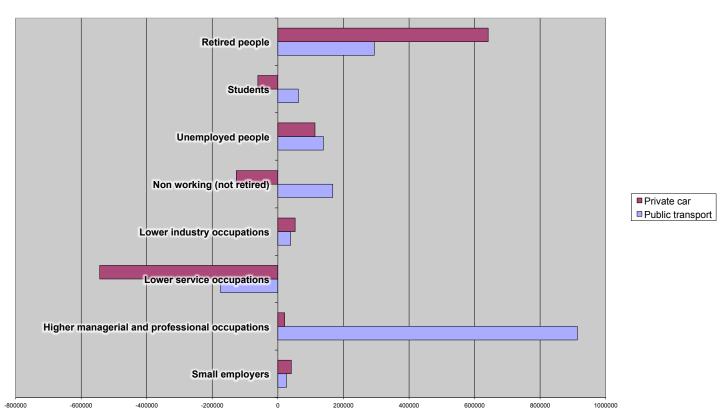
Car use is decreasing except in outer suburbs (- 35% in Paris city)



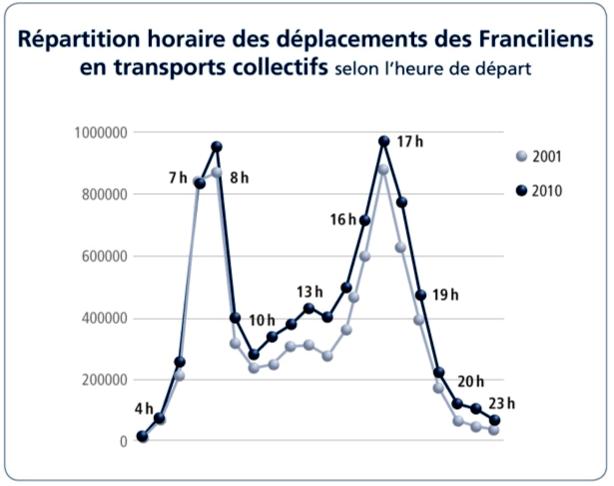
Source: Urban Planning Institute for Ile-de-France, 2013.

- Car use is still increasing for retired people (generational effect)
- Commuting is fairly well covered by public transport, except for less qualified workers who suffer from residential social division

#### **Evolution of travel numbers 2001-2010**

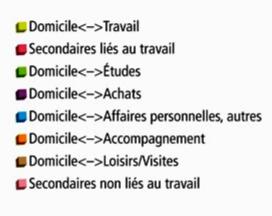


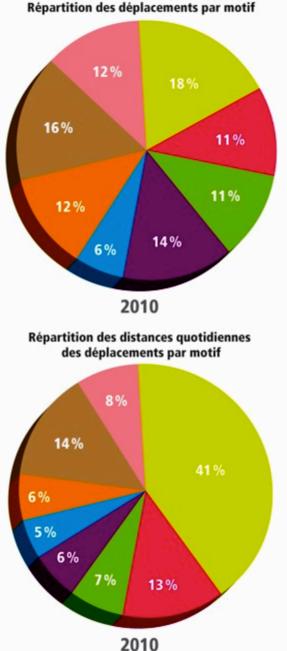
 Public transport use is now increasing even outside of peak hours (people respond positively to transport service supply, provided the service quality is good)



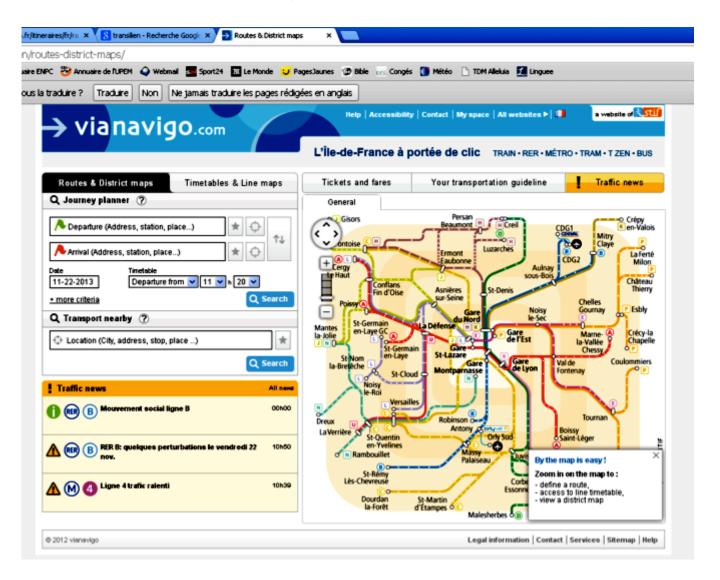
Source: Urban Planning Institute for Ile-de-France, 2013.

An increase of non-job mobility.
 Only 30 % of travels and 50 % of the distances covered are linked to job activity.





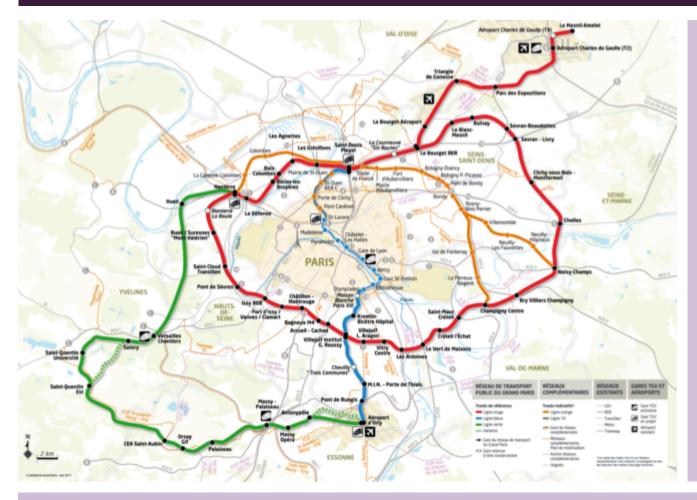
 People use IT tools for a more intelligent mobility (but not necessarily for less mobility)





### The Grand Paris Express project

### The new transport network

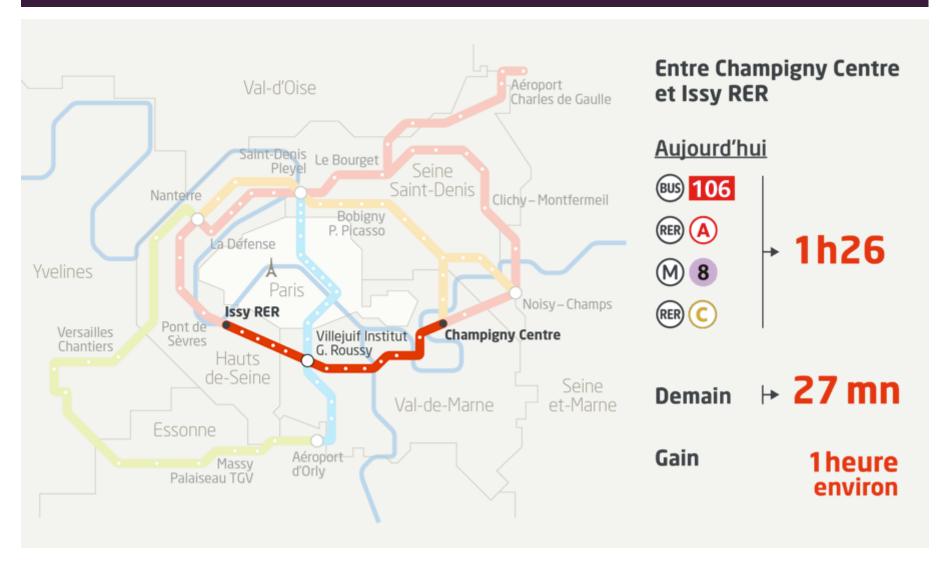


- Improve everyday life
- Contribute to economic development
- Open up secluded areas
- Relieve congestion

205 km

69 stations (including airports and high speed rail connections)

#### **Reduce travel time**



### **Reduce travel time**

### 

#### First section to be built



- 16 gares
- 22 communes
- 4 départements (92,94,93,77)
- 33 km de ligne

35 000 à 40 000

voyageurs à l'heure de pointe du matin

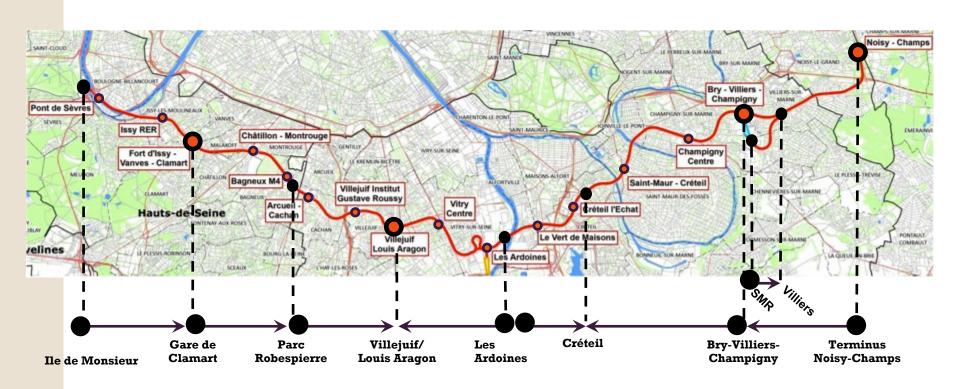
250 000 à 300 000

voyageurs / jour (en semaine)

### Several simultaneous building sites



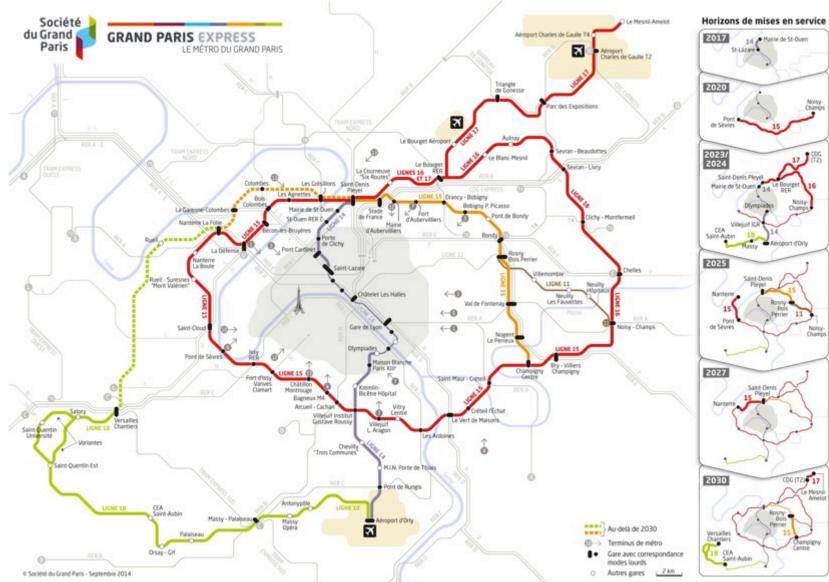
#### 10 shafts & 7 drills



- Station
- Drill shaft in station
- Drill shaft outisde a station
- → Drilling direction

#### **Scheduled service launches**





### **Costs and financing**



#### Costs

A **€23.5 billion** investment for Grand Paris Express in addition to **€7** billion to expand and modernize existing networks

€5.3 billion committed in July 2013 to finance the first section: Noisy Champs Pont de Sèvres, due to open in 2020

**Financing**: long-lasting revenues to face annual repayments of the debt:

- Annual fiscal revenues dedicated to the project: tax on all office premises in the Paris Region + an additional tax on all households
- Funding from the State and local authorities
- Rail and track usage fee
- Revenues from real estate project
- Commercial revenues in the stations

### **Economic impact of the project**



- Transport user benefits
- Urbanisation economies
- Wider economic benefits
- Reduction of social and spatial inequalities

# The assessment of the economic impact of the Project



Central scenario Economic Benefits (2012 assessment)	Present value (€ bn)
Total transport user benefits	34,0
Public service and other urban benefits	10,5
Agglomeration	7,2
Reallocation of growth in more productive areas	7,5
Additional growth	14,3
Total wider impacts	29,0
Total benefits	73,5
Total costs	34,4
Reduction of social inequalities	????



# Expected contribution to urban development

# The urban strategy of the Grand Paris Express



A strategy shared by all national and local authorities:

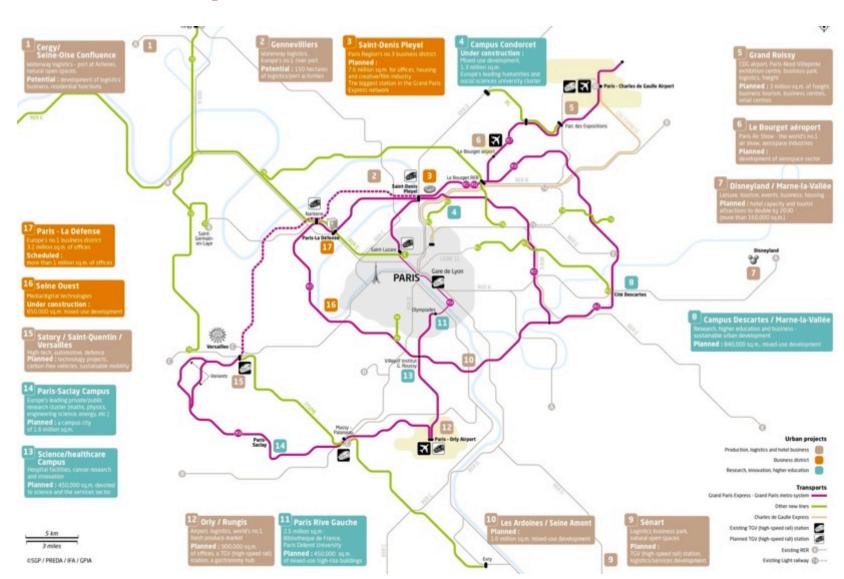
#### generate new urbanization in the surroundings of the stations of the new metro lines

in order to -

- reduce territorial inequity,
- reinforce Greater Paris attractiveness, and
- allow the construction of 70 000 housing units/year.

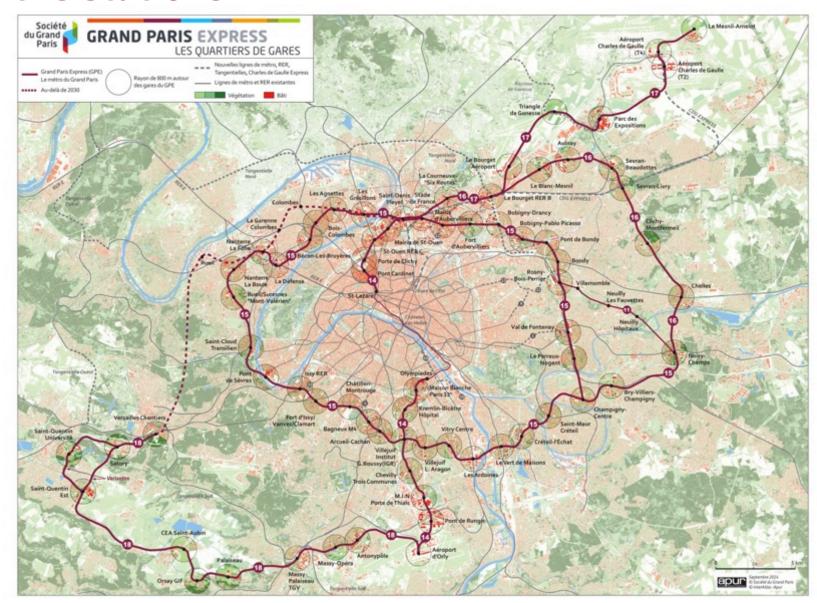
# Major urban projects around the new transport network





### Potential new urbanization around the stations





### How to generate new urbanization around the stations



 Limitation of urban extensions thanks to strict regional planning regulations





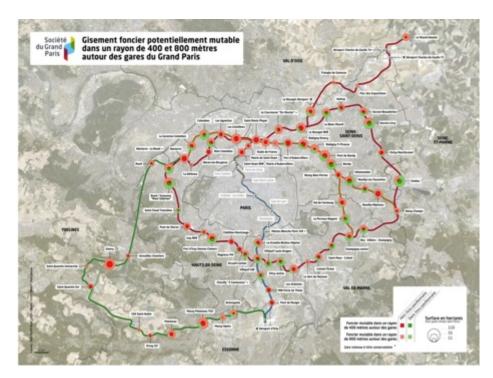
Regeneration of former industrial zones

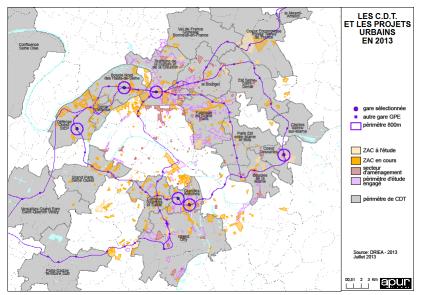
 Densification of traditional urban neighborhoods



### The steps

1. Identification of real estate potentials





2.Territory development projects







3. Urban projects

4. Constructions in the new stations immediate surroundings

### What are the difficulties that could come up?



- The inhabitants are reluctant to accept a higher density in their neighborhood
- The cost of urban regeneration of brownfields: depollution, services, financing
- Long-lasting urban development procedures.
- The weak attractiveness of cut-off territories concentrating a high level of social difficulties
- The issue of peri-urban areas.

#### What are the success factors?



A better service for the metropolitan area

• An increased value for new urban development

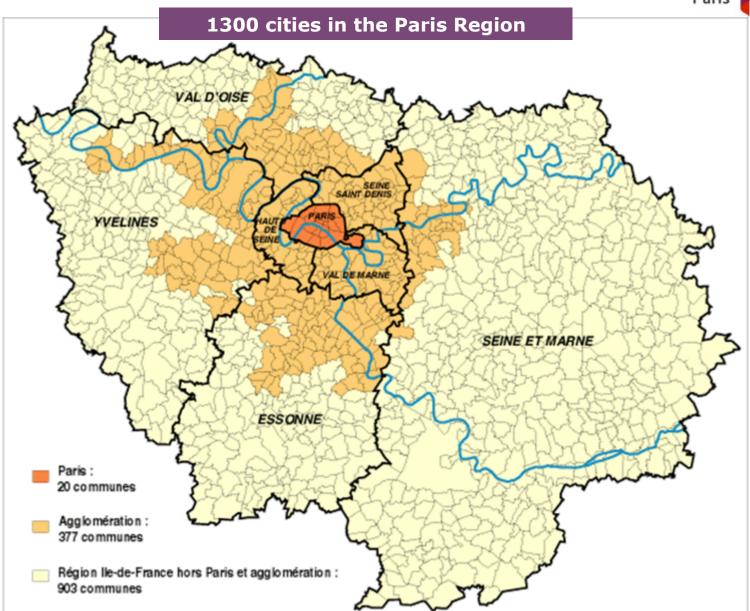
The visibility of the Grand Paris project



# Working towards the Greater Paris Authority

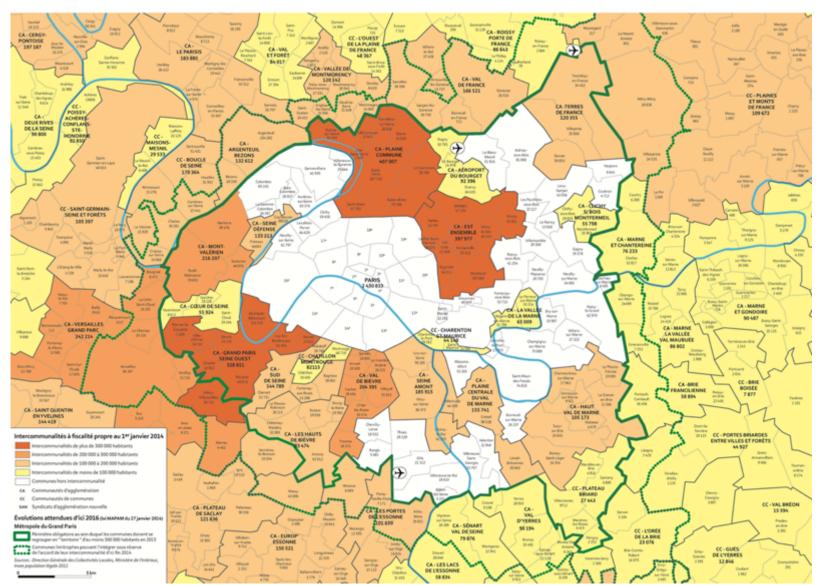
### **Extreme territorial fragmentation**





# A metropolis in the process of being set up





### A new metropolitan authority in January 2016



# Métropole du Grand Paris 6.7 million inhabitants

Territoire de Plaine commune (407 000 inhabitants)

Territoire de la Ville de Paris (2.4 million

inhabitants)

Ville de Saint Denis (157 000 inhabitants) Ville de Saint Ouen (47 000 inhabitants)

Ville de Paris (2.4 million inhabitants)

### Thanks for your attention!



