

# **Worldwide Airport Lawyers Association**

## **Thimotée BERGER**

Deputy Director of Architecture & Design department Groupe ADP France

### **Ouahida BENDJEDOU**

Head of Legal – International Project Finance Groupe ADP France



# **AIRPORT PLATFORMS & INTERMODALITY**



**ORLY: A PARISIAN AIRPORT-CITY** A regional actor for Paris region connections



#### CDG: THE PARISIAN HUB CHALLENGING AIR / RAIL TRANSFERS

*How CDG airport challenges the new millennium in terms of intermodality and new connections modes* 



**INTERMODALITY: RISKS & FINANCIAL MODELTHE PARISIAN HUB** 



# **AIRPORT PLATFORMS & INTERMODALITY**



**ORLY: A PARISIAN AIRPORT-CITY** A regional actor for Paris region connections

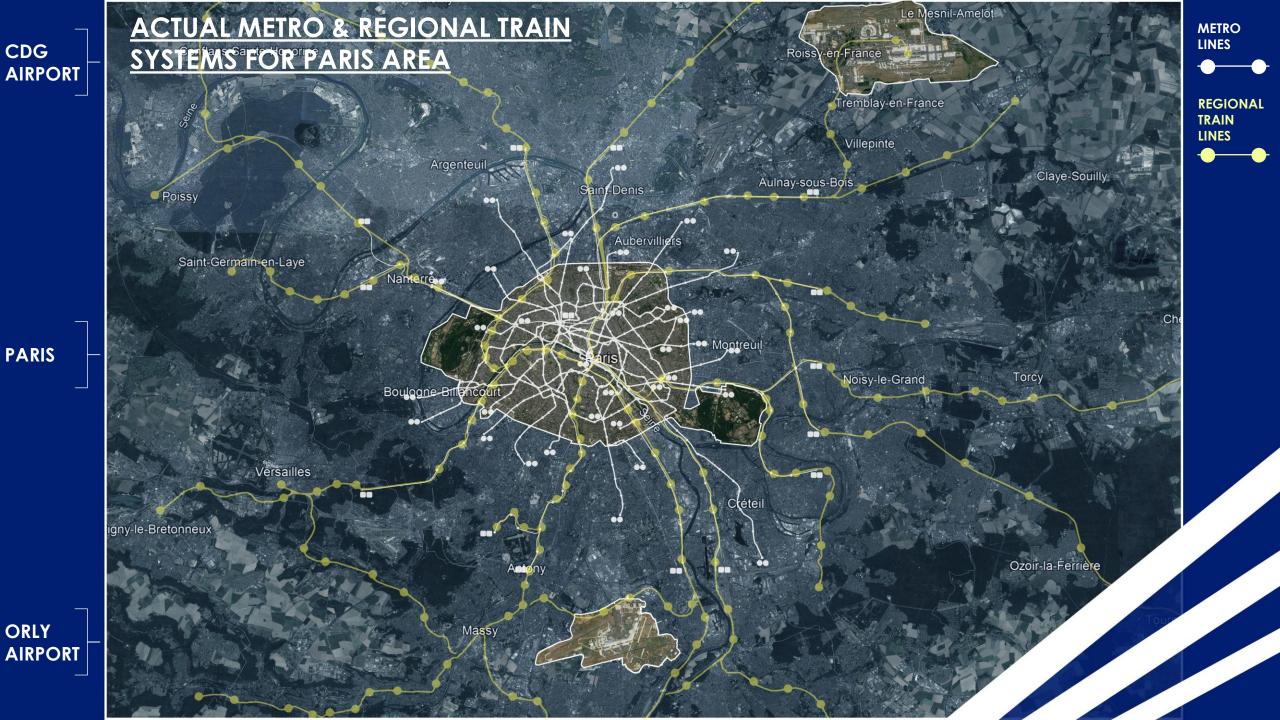


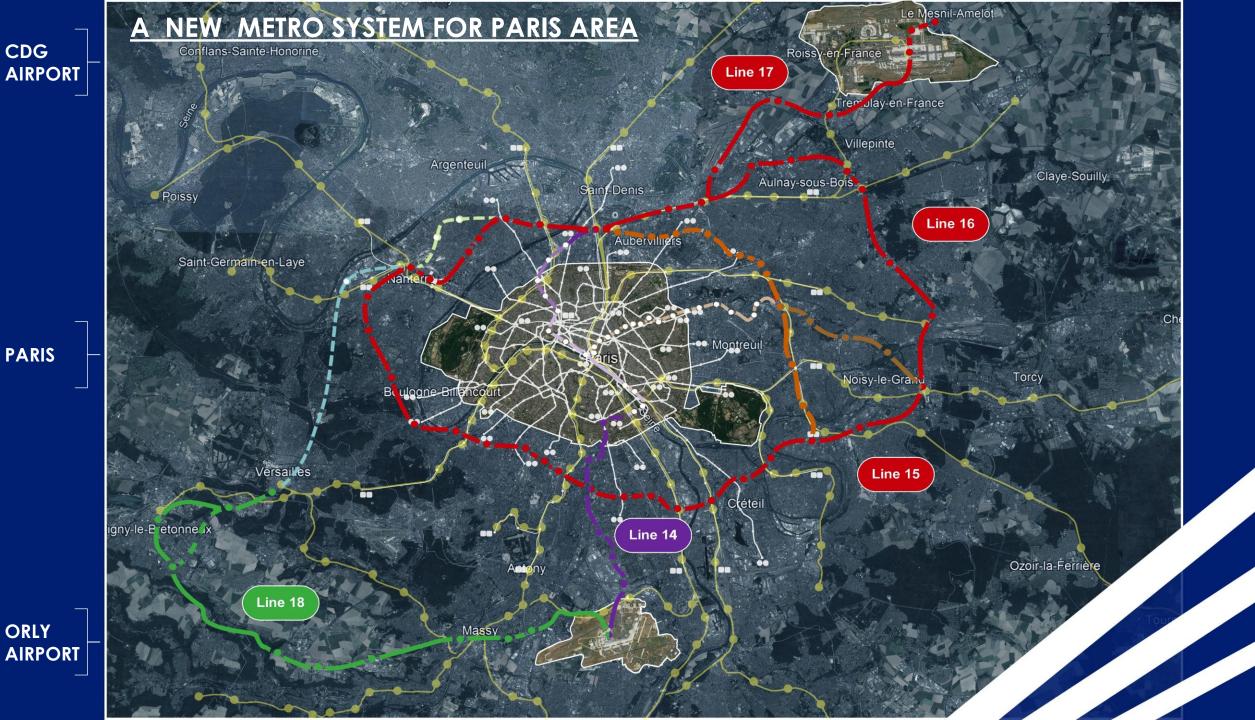
**CDG: THE PARISIAN HUB CHALLENGING AIR / RAIL TRANSFERS** How CDG airport challenges the new millennium in terms of intermodality and new connections modes

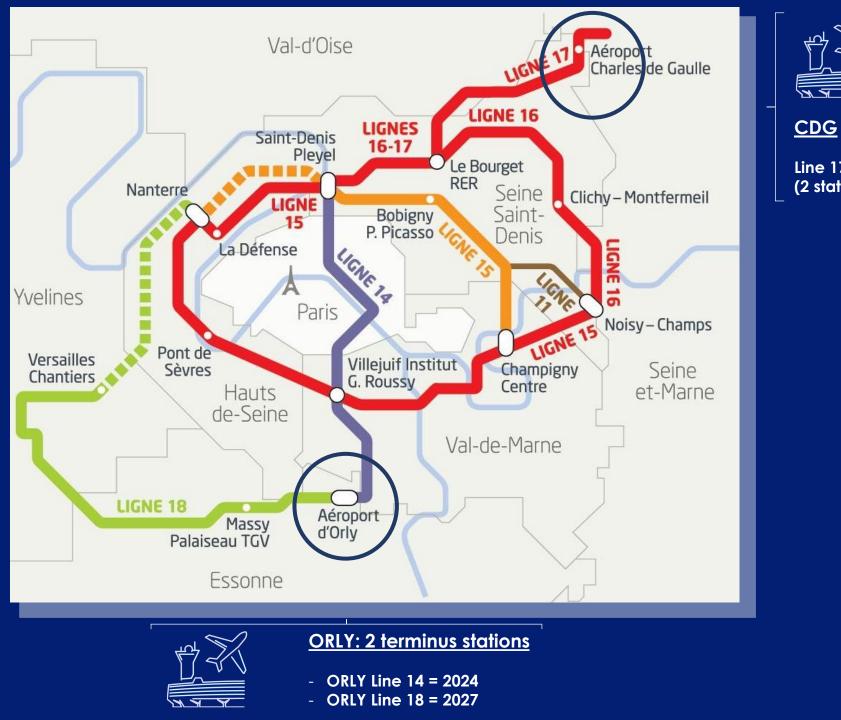


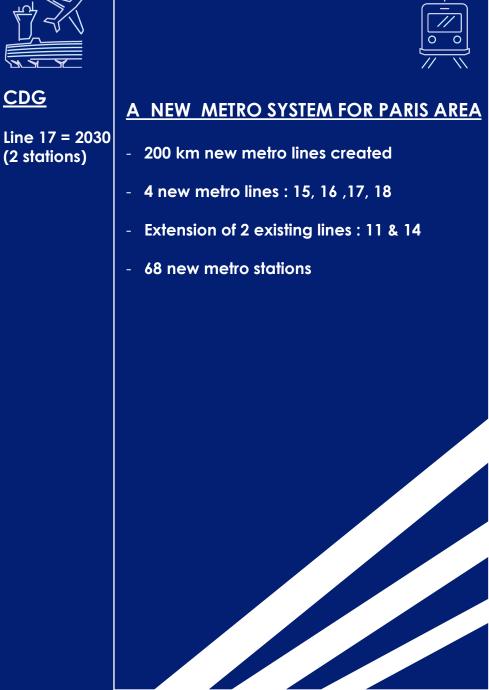
**INTERMODALITY: RISKS & FINANCIAL MODELTHE PARISIAN HUB** 

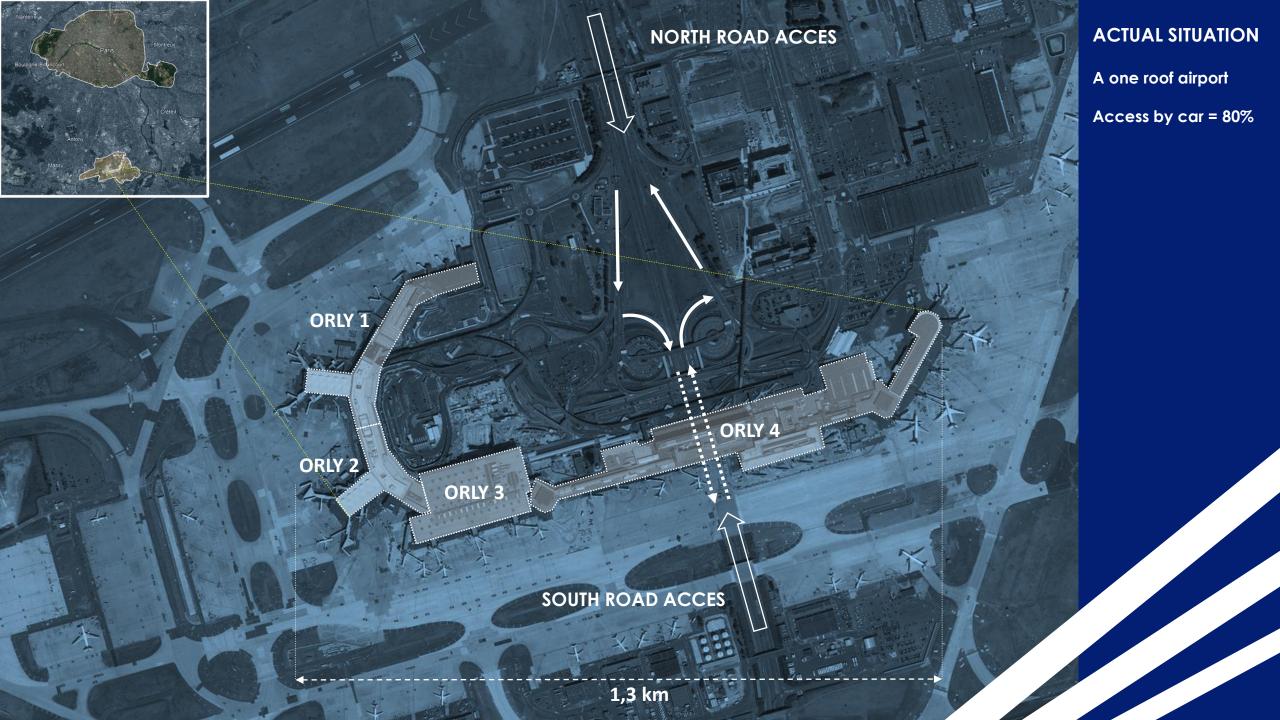


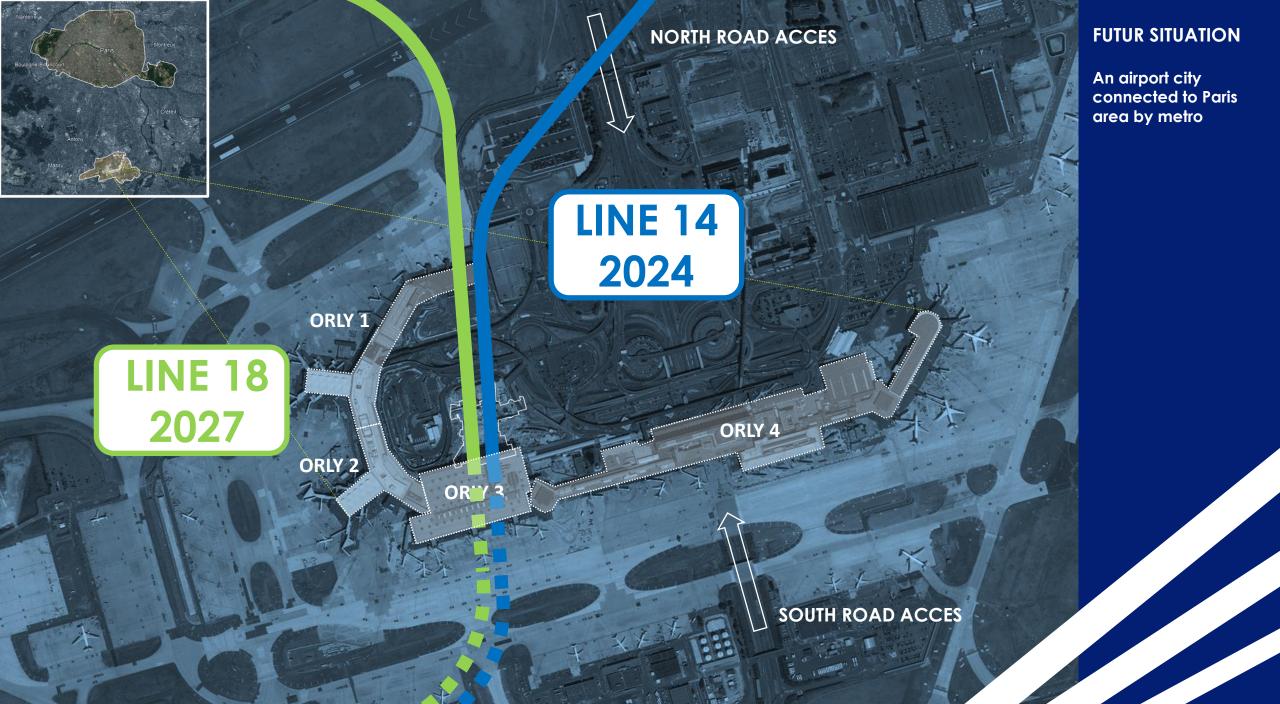




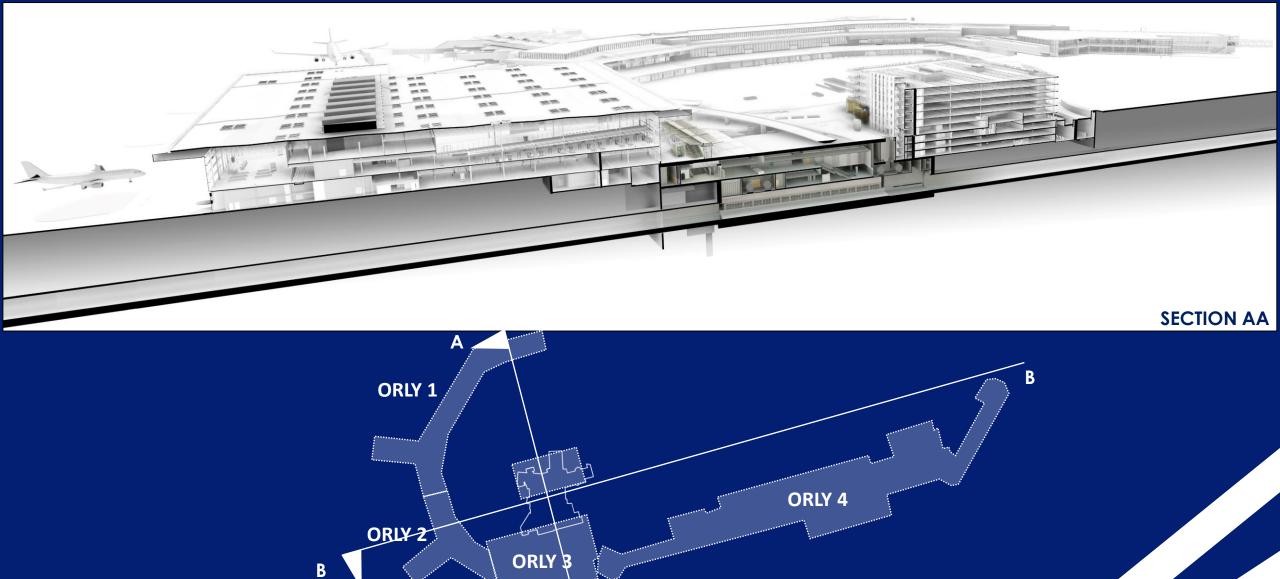








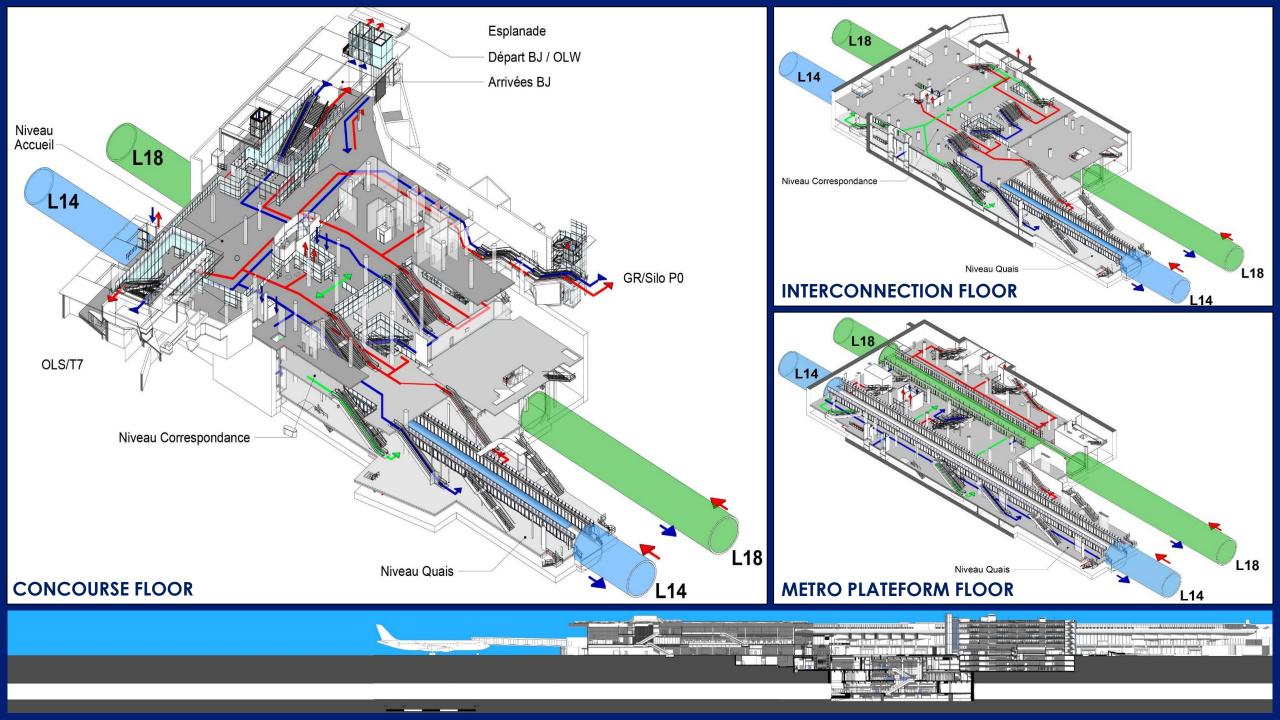




Α

**SECTION BB** 

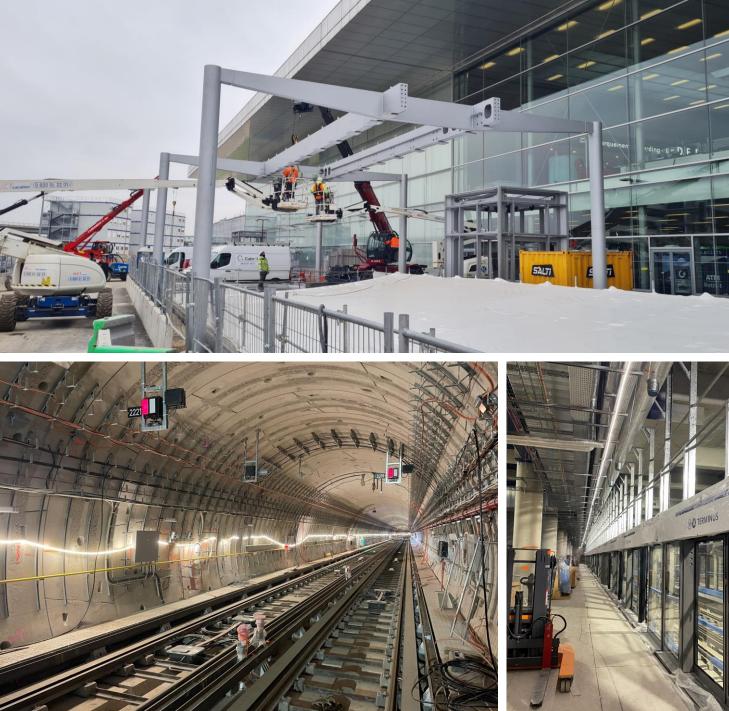
Base of a later Prove



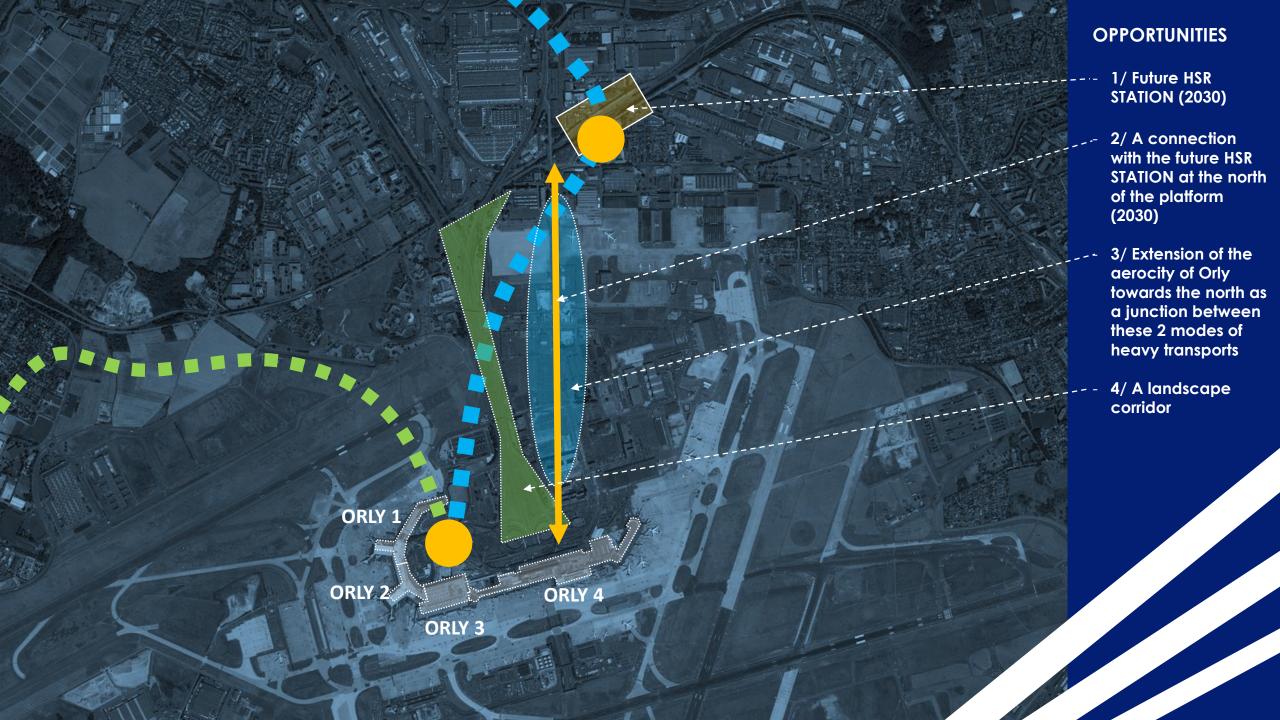












## LANDSCAPE CORRIDOR



**ORLY 4** 

S4b

ORLY 2 ORLY 1

ACTIVAL

S4a

GARDEN

S<sub>3</sub>

GARDEN



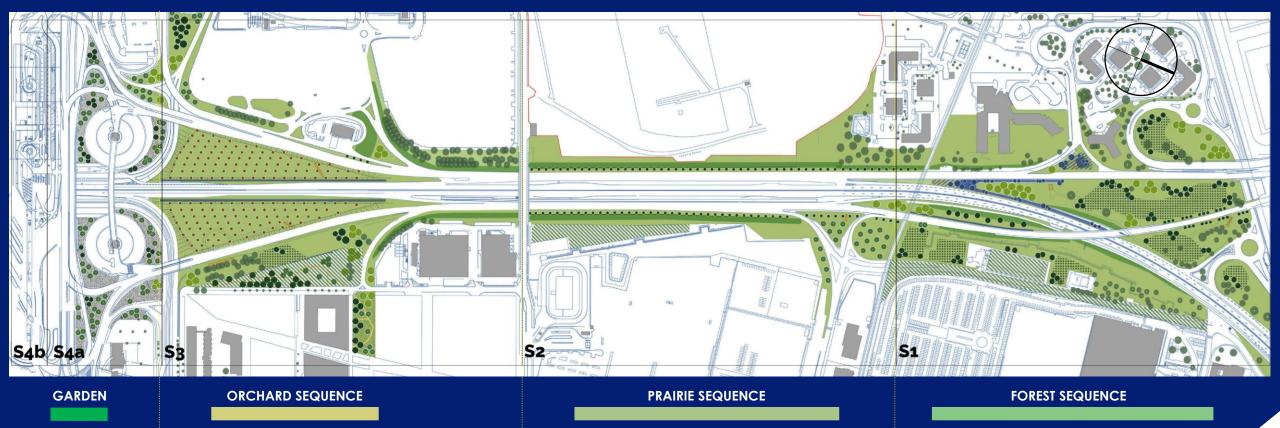
ORCHARD SEQUENCE

**PRAIRIE SEQUENCE** 

S2

FOREST SEQUENCE

### THE NATURE AS AN INSPIRATION

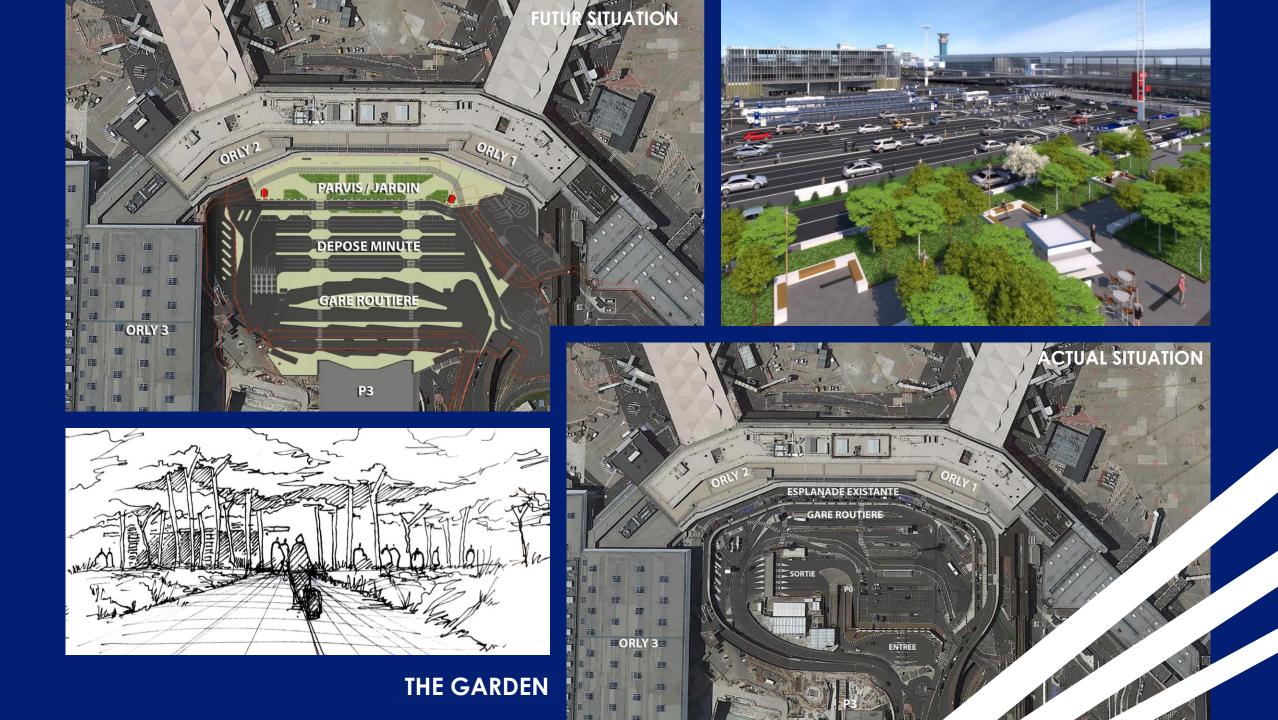




















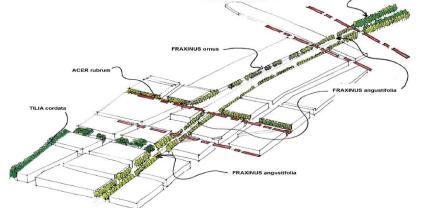






## **FUTUR = AEROCITY EXTENSION**











# **AIRPORT PLATFORMS & INTERMODALITY**





#### CDG: THE PARISIAN HUB CHALLENGING AIR / RAIL TRANSFERS

How CDG airport challenges the new millennium in terms of intermodality and new connections modes



**INTERMODALITY: RISKS & FINANCIAL MODELTHE PARISIAN HUB** 



### THE AIRPORT CONTEXT

A split airport design for primary car access

- Access :
- Car
- Trains:
  - International
  - National
  - regional





# **OPPORTUNITIES**

### Polycentrism for better control of flows ?



#### Modal shift

Facilitate the implementation of an appropriate and effective modal shift offer because the type of flow is known.



#### Decongestion

Improve the fluidity and speed of exchanges through the physical separation of flows.



#### Quality of service

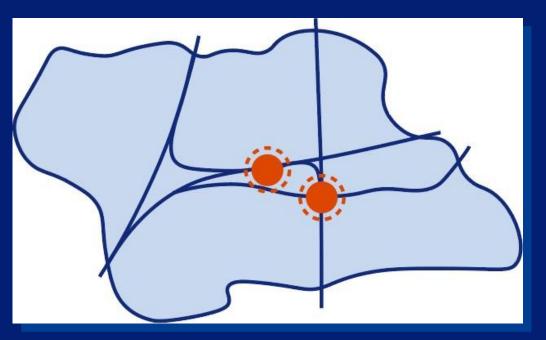
Develop targeted service offerings consistent with the different needs based on flows.

Form of resilience in the event of disruption with the possibility of referring to alternative routes.

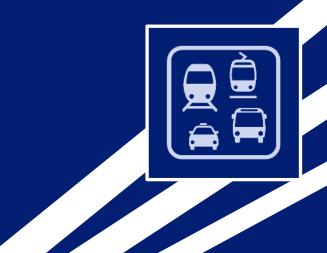


#### Link with the territories

Accessibility of transport services and offers to local populations. To be an element of the territorial transport system, and to offer services on the outskirts of the PTB.

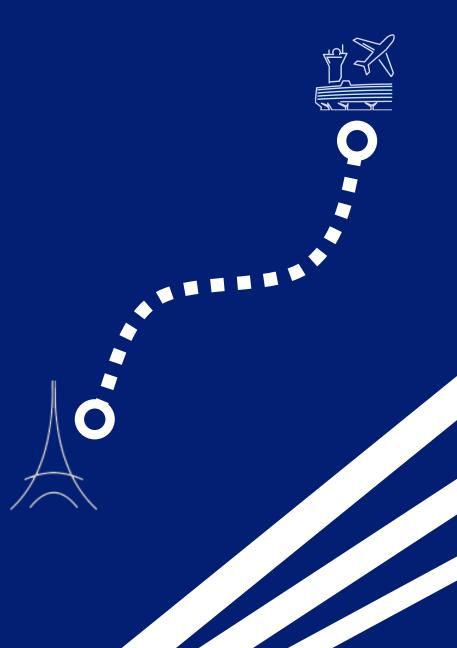


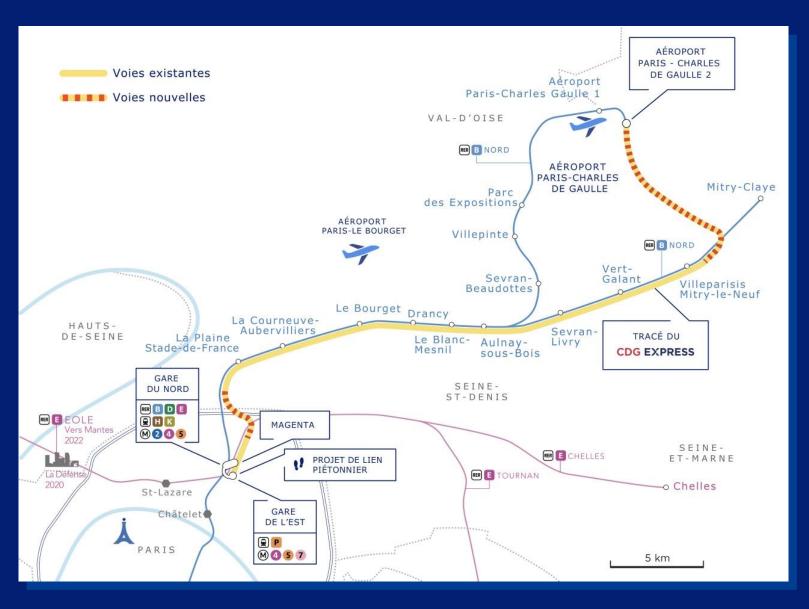
#### From a multimodal hub to a multimodal "ecosystem"





## CDG express (2027)





### A response to the needs of air passengers a connection between Paris-Charles de Gaulle airport and Paris-Gare de l'Est in 20 minutes.

#### Guarantee a high level of service to passengers

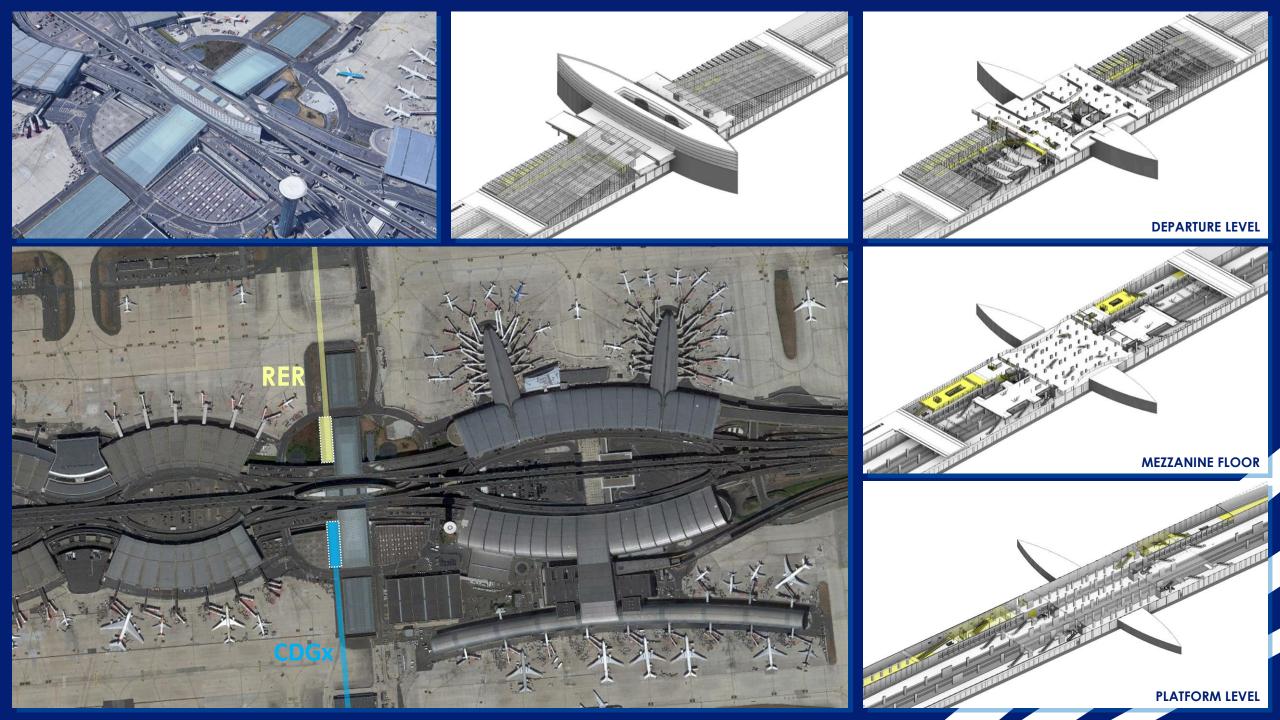
a high level of service, reliable, fast, comfortable and connected. Like the major airports of the world.

#### A reliable connection to reach Paris in 20 minutes

whether by road - by car, bus or taxi - or by RER B, its current accesses are saturated and unsuitable and do not offer a satisfactory quality of service.

Supporting the transformation of the Parisian territory 1 to 2 million additional inhabitants in Paris area are expected by 2050

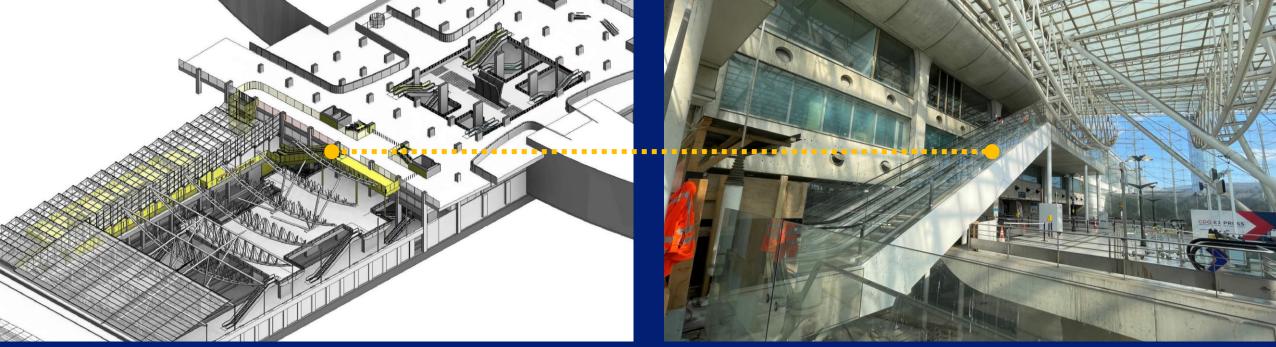




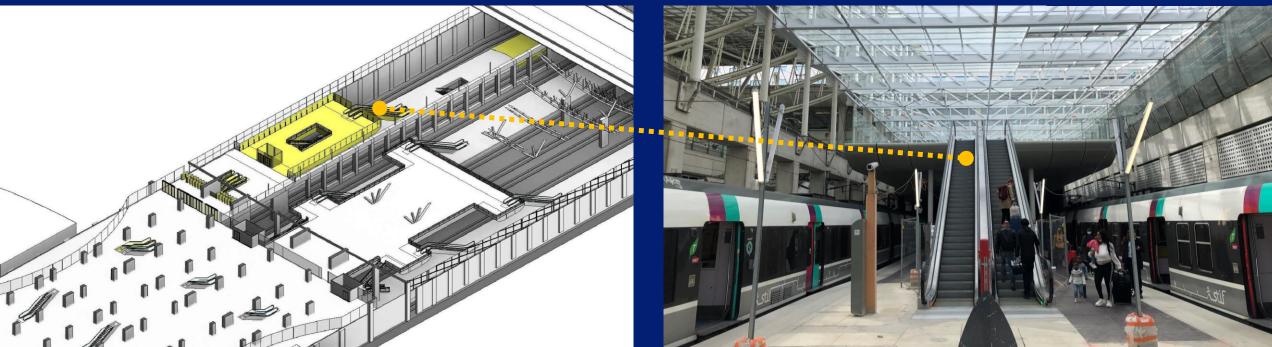






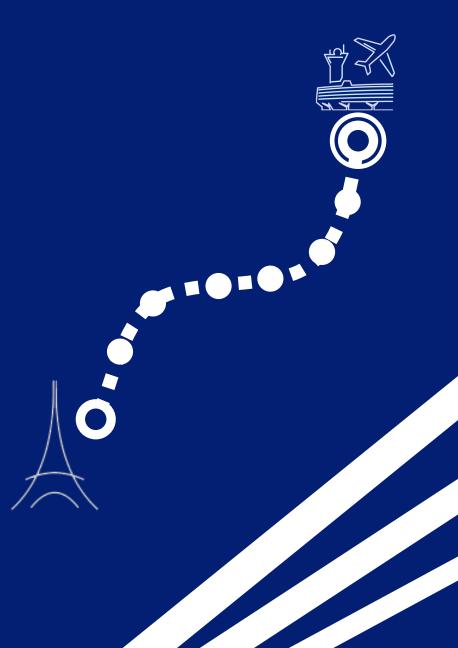


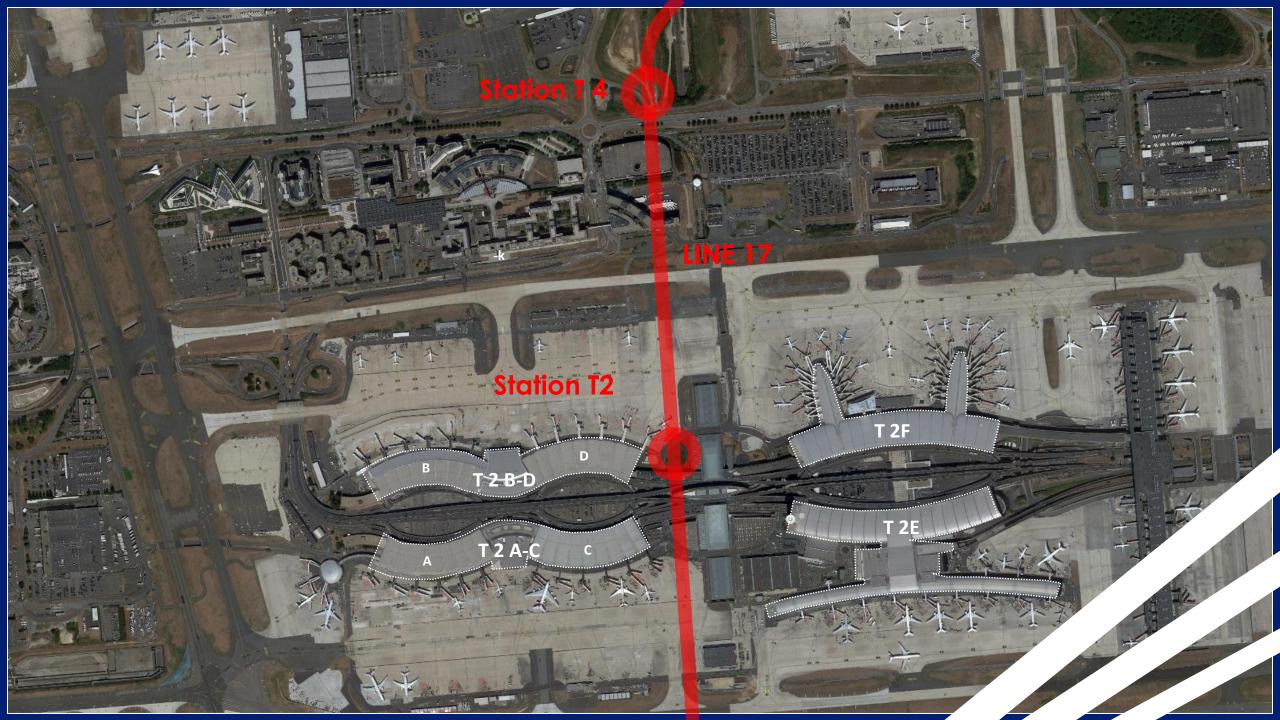
### CONSTRUCTION



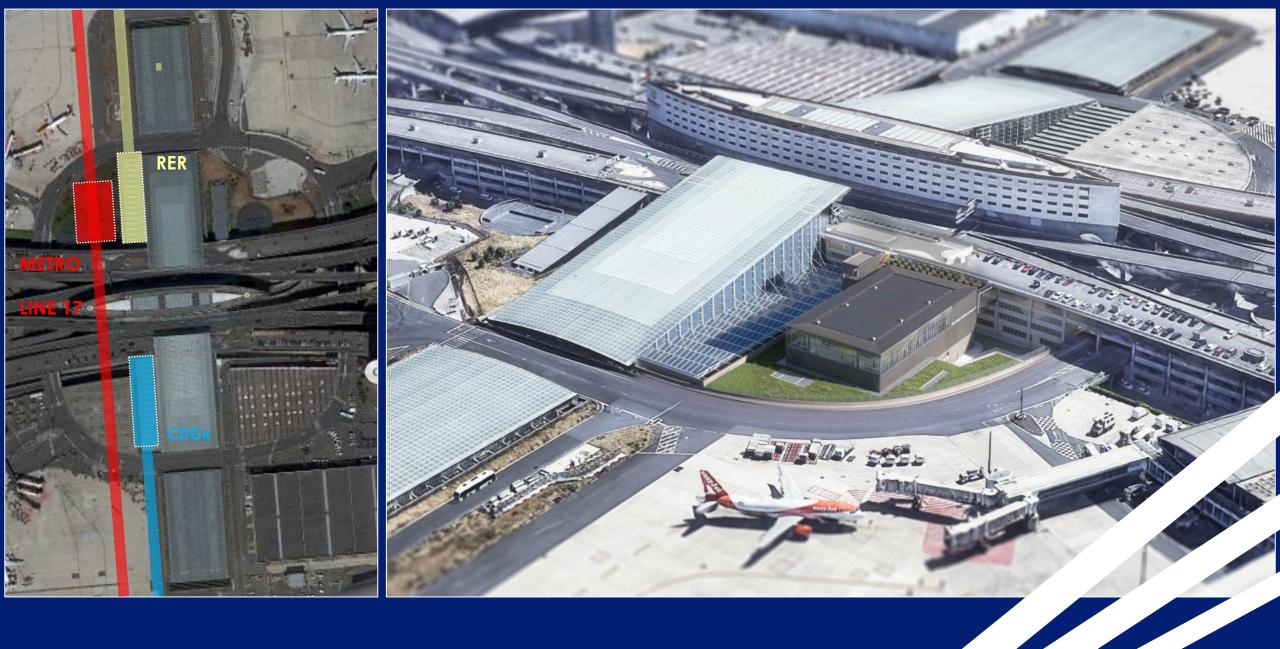


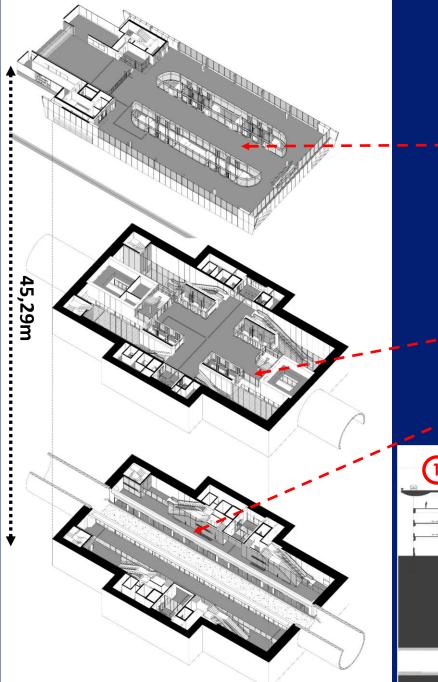
## METRO LINE 17 (2030)

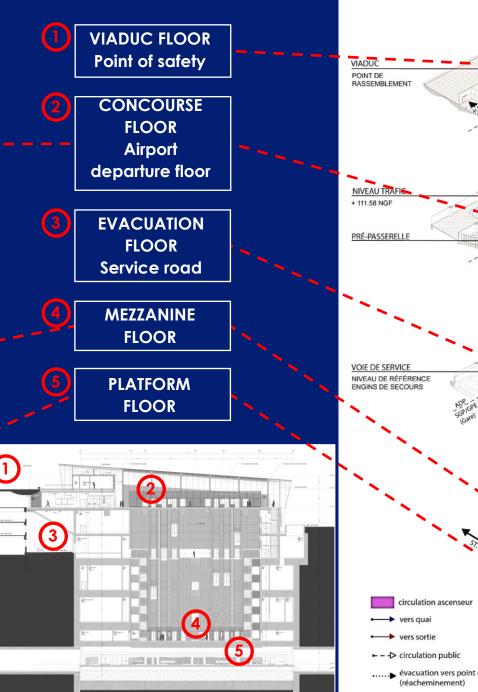


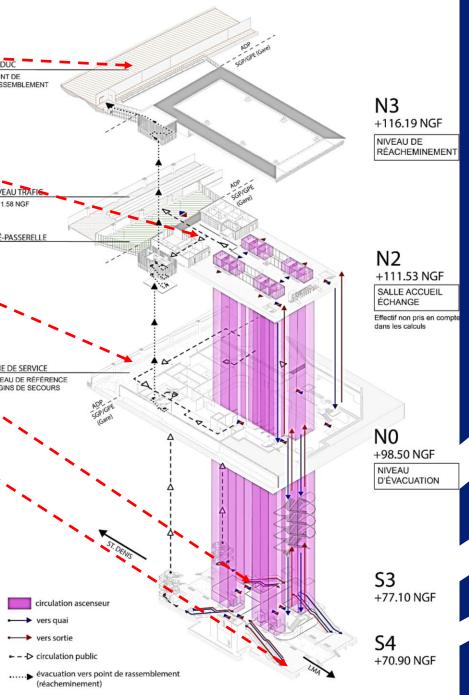


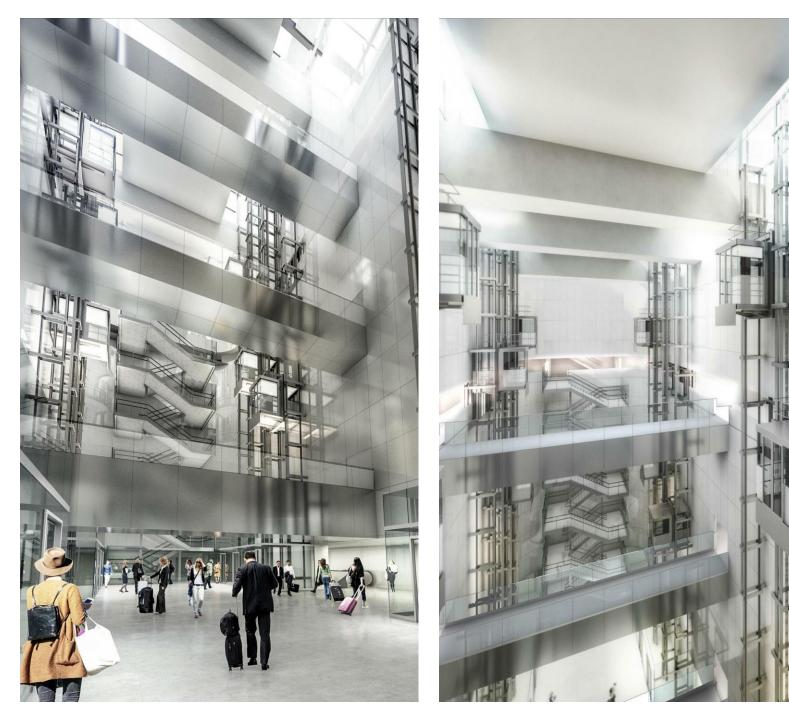
### METRO LINE 17 STATION TERMINAL 2

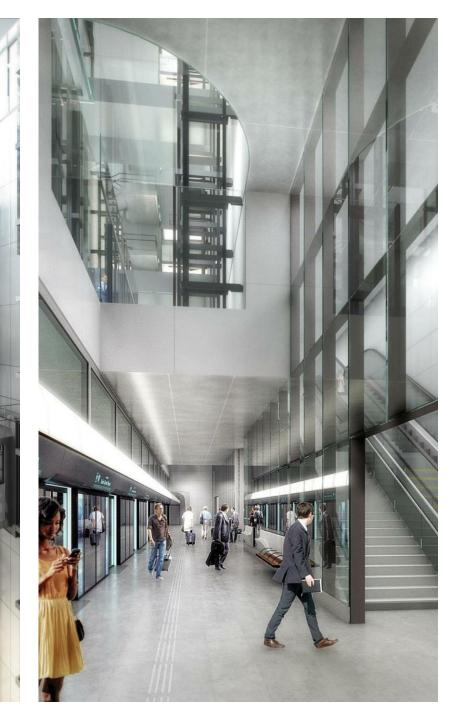










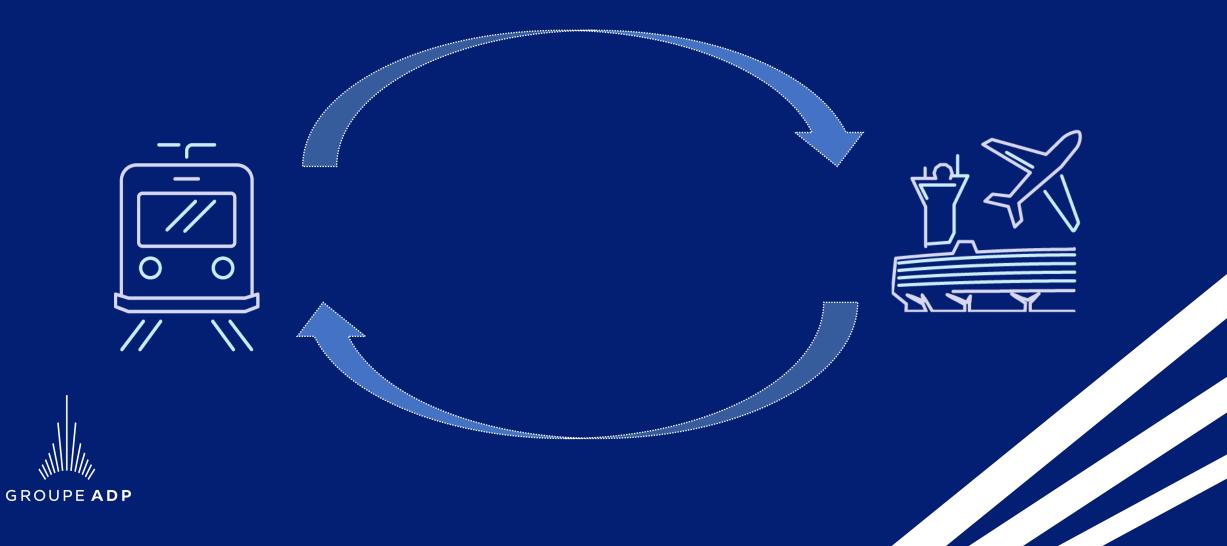




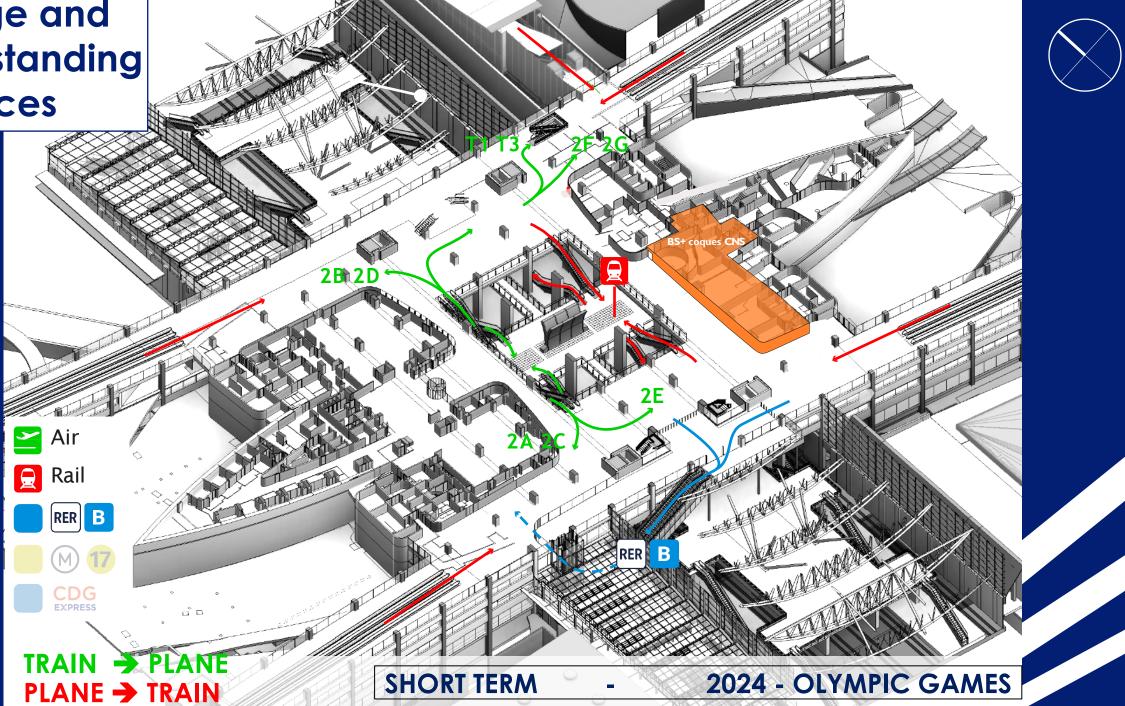


# AIR / RAIL TRANSFERS

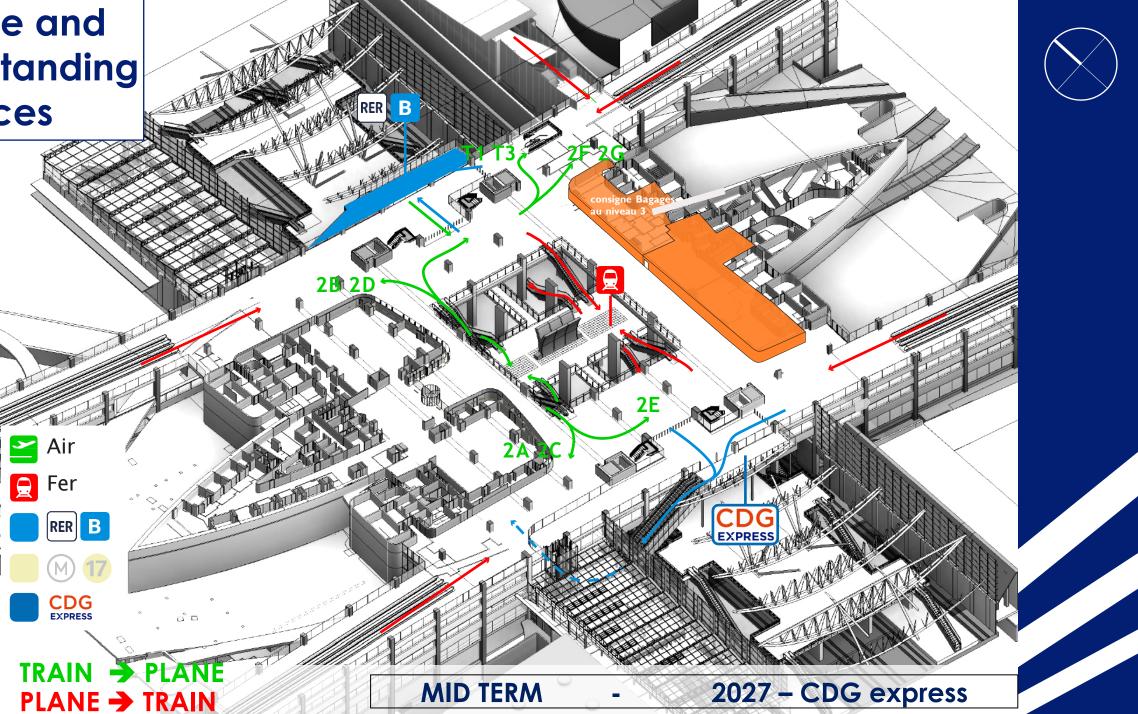
Impacts and opportunities

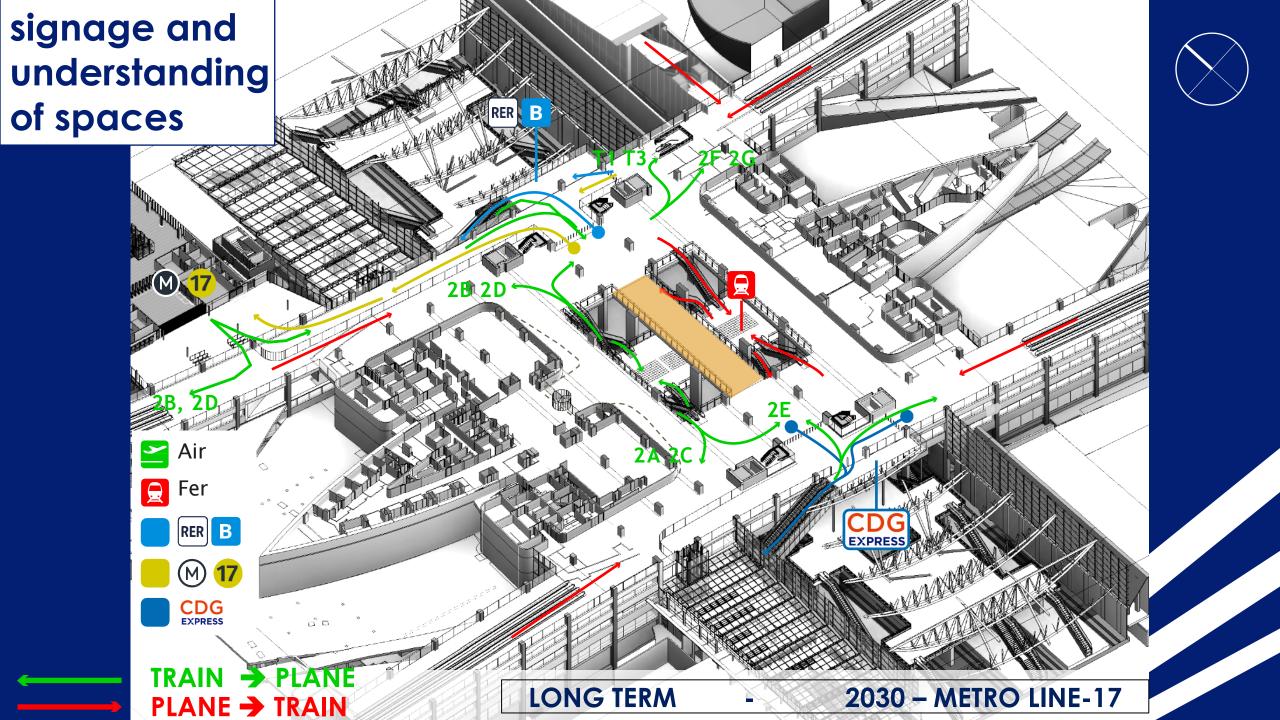














**3D VIEW** 

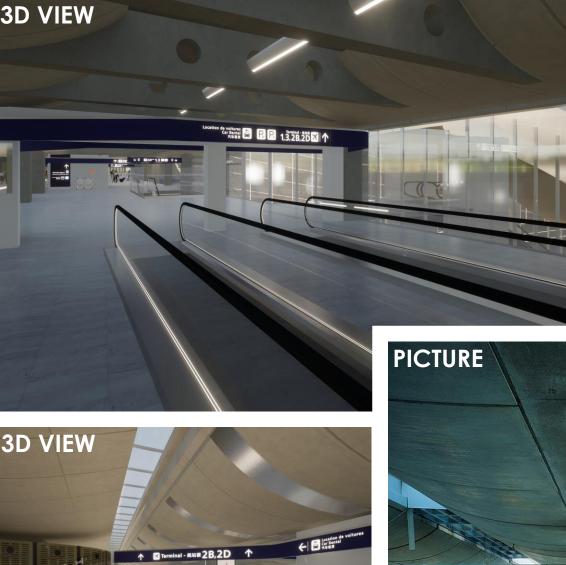






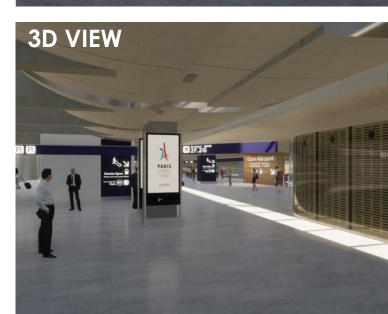


. ..........



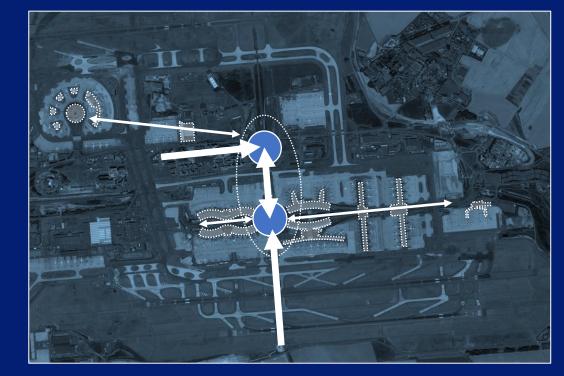


3D VIEW



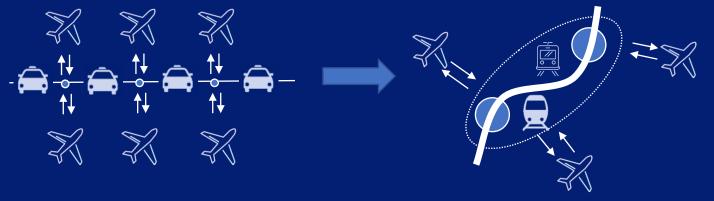
88°**8**)

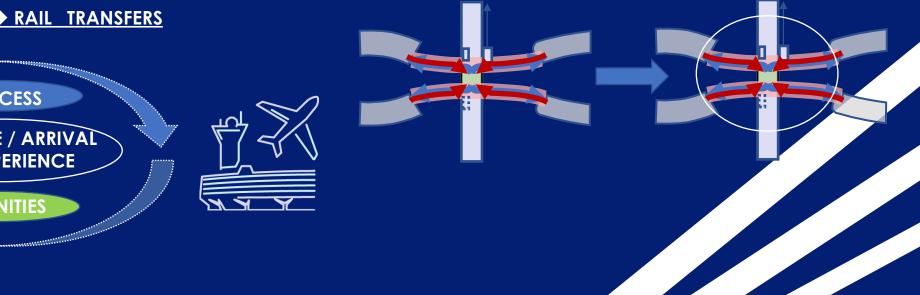
Terminal - Mill 2F, 2G



### CHALLENGING THE FUTUR

Airport development: from a linear development to a nodal system











## **AIRPORT PLATFORMS & INTERMODALITY**



**ORLY: A PARISIAN AIRPORT-CITY** A regional actor for Paris region connections



CDG: THE PARISIAN HUB CHALLENGING AIR / RAIL TRANSFERS

*How CDG airport challenges the new millennium in terms of intermodality and new connections modes* 



**INTERMODALITY: RISKS & FINANCIAL MODELTHE PARISIAN HUB** 









#### **Contractual issues**

Agreements and contracts between multiple parties, including airlines, rail operators, travel agencies, and passengers.

Clear definition of the responsibilities, liabilities, and terms of service for all parties involved in the multimodal scheme.

Address the specific requirements of both air and rail transportation, including intermodal transfers.



#### Liability and Insurance

Liability in case of accidents, delays, lost baggage, or other incidents can be complex when multiple modes of transportation Clear allocation of risks among the parties involved, considering the specific roles and responsibilities of each.

Adequate insurance to cover potential liabilities arising from accidents, delays, damages, or losses during the multimodal journey.



#### **Regulatory Compliance**

Air and rail transportation are subject to various regulatory frameworks, both within the aviation and rail industries. Complying with safety standards, security regulations, passenger rights, and other legal requirements can pose challenges Develop common protocols and procedures to ensure compliance with safety standards, security regulations, passenger rights, and other legal requirements.



#### **IP and Data Protection**

If multimodal schemes involve proprietary technology, software systems, or unique operational processes. Collection, storage, and transfer of passenger information across various platforms. Protection of each involved parties' IP. Implement common safeguards for collecting, storing, and transferring passenger information in a secure and privacy-conscious manner.

### INTERMODAL FINANCIAL MODEL CHALLENGES



**Cost allocation** 



**Revenue Sharing** 



Pricing and Tariffs



**Financial Viability** 



Investment and Funding



Revenue Forecasting



Interoperability & Integrating Costs



Economic and Market Factors



### THANK YOU - MERCI

SHARING NEW HORIZONS

