

# Moving towards a better city

**Corporate International relations** 

Philippe MARTIN – RATP GROUP Executive Vice-President

SAO PAULO – September 3, 2019



# **Paris Region : Political administration**

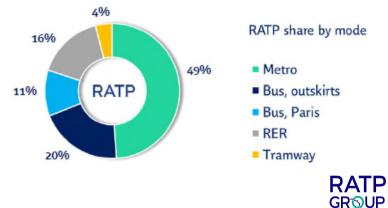


### A very dense territory:

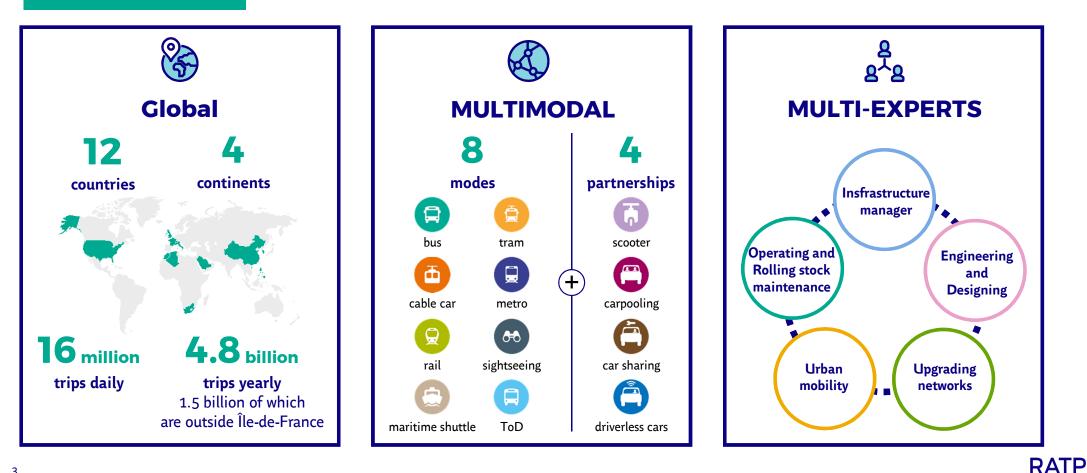
- 2,2% of mainland France
- 12 million inhabitants (19% of France's population)
- 23% of the working population (6 million people)
- 29% of France's Gross Domestic Product (GDP)

### High demand for transportation and commuting

- 2 main rail operators and more than 50 bus and coach operators
- 4 billion journeys per year are made in the Paris Region
- Created in 1949, RATP manages 75% of all journeys



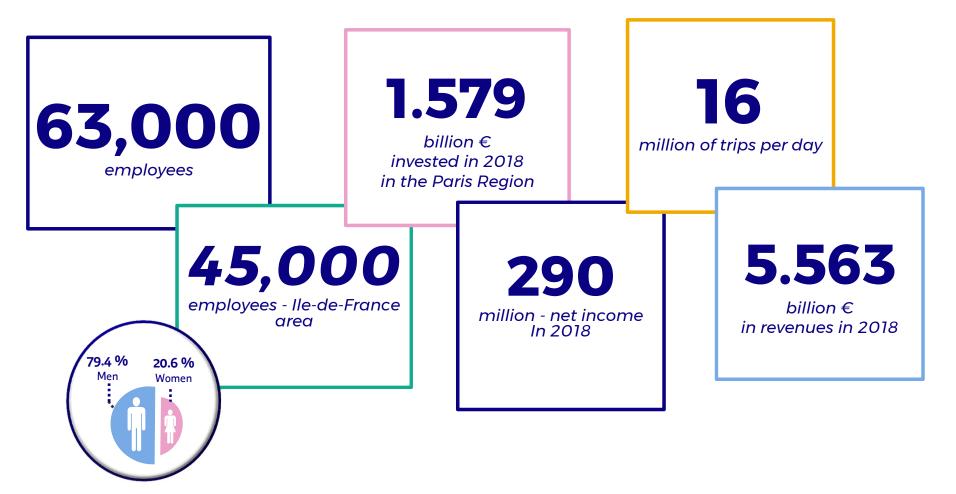
### A global leader in transport engineering and operations



- The document is a RATP property and could not be used without authorization -

GROUP

### **RATP Group: Corporate figures**





- The document is a RATP property and could not be used without authorization -

4

# RATP in Central Paris Region : one of the most dense multimodal networks in the world



# Investment in transport capacity and modernization

Transport Infrastructure Renewal & Modernisation: 12%

Transportation Systems Renewal & Modernization; 12%

# 1.579 bn €

invested in 2018 in the Paris Region

> Passengers Service and Stations Renewal & Modernization; 8%

**RATP's Investment Distribution** 

enewal Modernization; 6% Real Estate (Properties) Policy; 8% Transport Capacity Increase; 37%

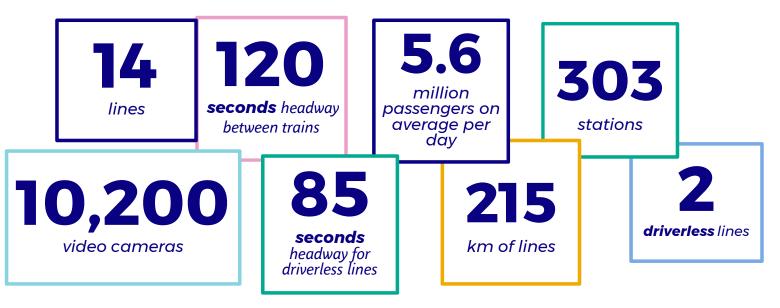
Rolling Stock Renewal & Modernization; 17%

ITTE

### An integrated multimodal network - Metro -



High density, historic network (c. 1900) which has a necessity to adapt to an increasing demand in trafic, through many projects.



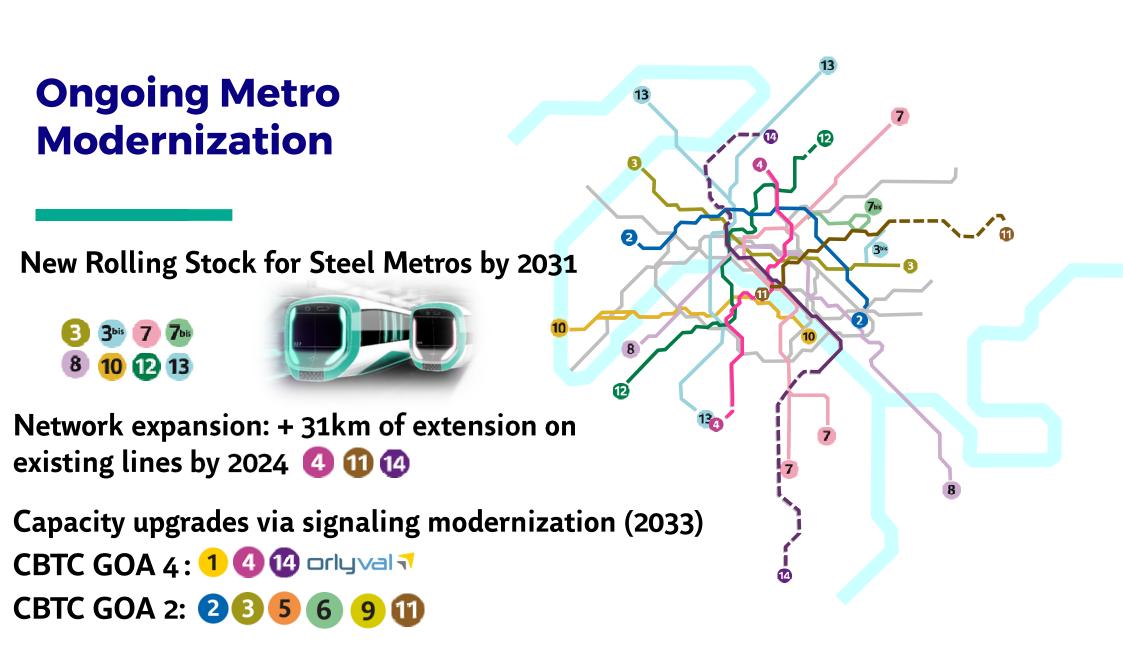




RATP

GROUP





# Line 4 GoA2→ GoA4 Automation

Line 1 automation without traffic interruption was a worldwide first. After this success, RATP decided to automate Line 4.

Line 1	Line 4
1900	1908-1910
17 km, 25 stations	14 km, 29 stations
East / West backbone	North / South backbone
Complemetary capacity for RER A	Complementary capacity for RER B
1st heaviest traffic : > 725 000 trips / d	2 <sup>nd</sup> heaviest traffic: > 700 000 trips /d



# **RATP: world leader in unattended metro operation**

**Functional performance** 



High-qualified jobs for staff



Streamline train performances



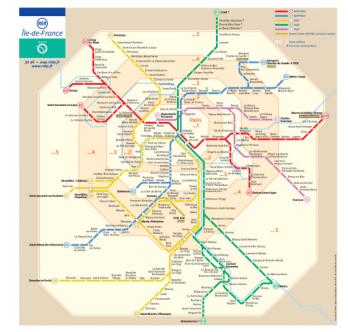
### An integrated multimodal network - Regional railroad -



### Ile-de-France regional railroad

Performance resulting from **transit speed** and small headways between trains. Regional network carries out a **structuring** role for the areas it serves







RATP

GROUP

# RER A GoAl -> GoA 2 Modernization



RER A Automation using Automated Train Operation (ATO) over Automated Train Protection system

# Results

✓ 2 minutes less in central section

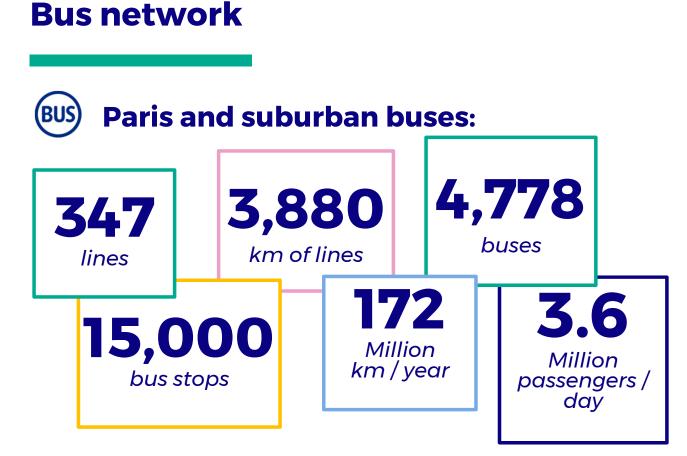
✓ + 5 km/h : central section average revenue speed

- ✓ 27 trains / h / s (central section)
- ✓ Improve regularity, reliability

SACEM : **ATP system with Cab-Signal**, using fixed block and rail transmission, allowing **2 minutes** headway with 224m trains







April 2019: 50 lines and 4 000 stops modified overnight to adapt routes to Paris' changing needs.







# **Major project : energy transition**

#### « Bus 2025 » - high-tech eco-friendly fleet programme

Bus tested on operating lines from several suppliers

#### Charging systems

- long night charge in depot
- opportunity charging at bus terminals
  - by standard plug (n° 115)
  - by reverse pantograph (n° 126)

#### Implementation

- 77 buses delivery 2019
- 800 bus tender 3 batches
  (400 Million €)
  commitment 2019 delivery 2020-2022

800 electric buses 2 years tender

2019 : 1st order 150 vehicles -3 suppliers (133 Million €)



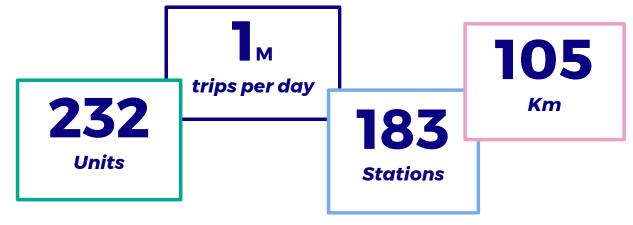
### An integrated multimodal network - Light rail -



Light rail solutions support quality of urban life policies and make public surface transport more attractive

A new network growing since 1992 fully connected with metro and RER with an impressive impact on demand

8 lines in the Paris Area: transport operations and city Embellishment coupled with real-estate development









### **RATP Group : The company**

### **Key partners and suppliers**

- RATP or RATP Subsidiaries to partner on innovation or bids
- Integrated operator and infrastructure manager, with many subcontractors & purchasing, such as:



Contracting and infra. maintenance

Rolling stock

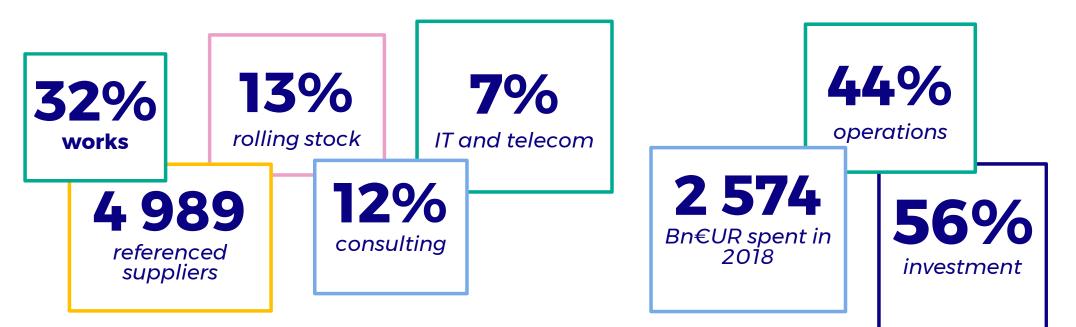
Cleaning & facility management Rail safety systems & IT services

 RATP: state-owned company subject to public sector tender rules in France



# **Purchasing - Key Figures**

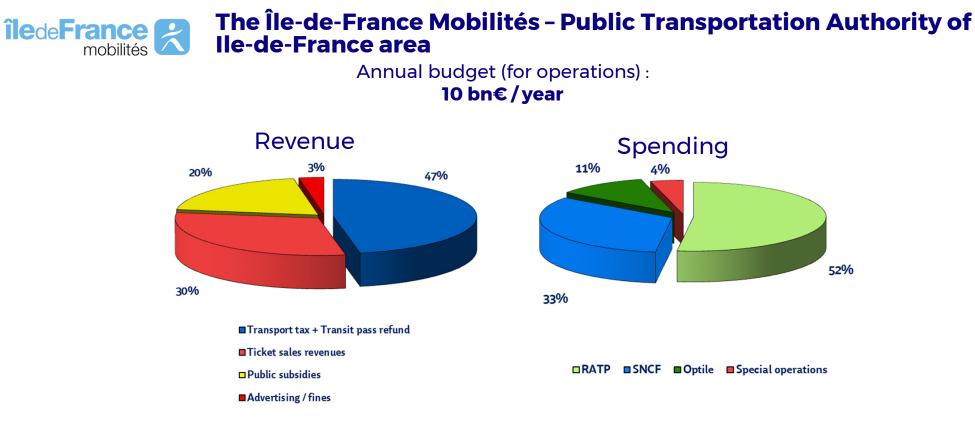
17



- RATP is a state-owned company and goes through to tender processes for purchases
- Beyond financial and technical, social and environmental criteria are compulsory



### **Business Environment: one PTA for all of the Paris Region**



# Only bus & tram services subject to tendering (new lines, Olympics, COP21, railworks substitution) until 2020.



- The document is a RATP property and could not be used without authorization -

18

### **Scheduled tenders for railway O&M**

#### 2020/2029 (exp.): intercity railway lines in France

- → Full commercial risk for high-speed & long distance
- → Tenders & subsidised operation for regional rail

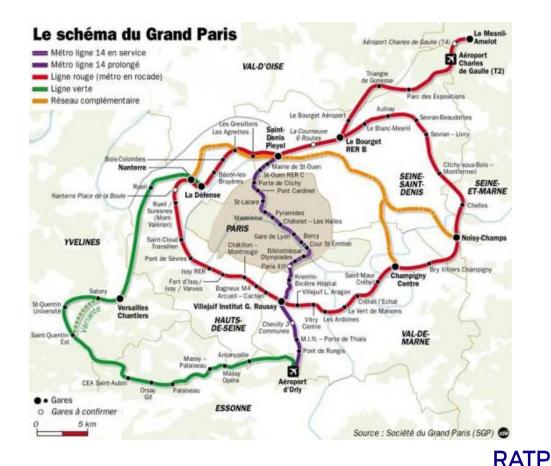
#### **Greater Paris Driverless Metro O&M**

- → 2022 (exp.): Line 15, 16 and 17
- → 2024 (exp.): Line 18
- $\rightarrow$  2030: network expansion with existing lines

#### **Opportunities on the current network**

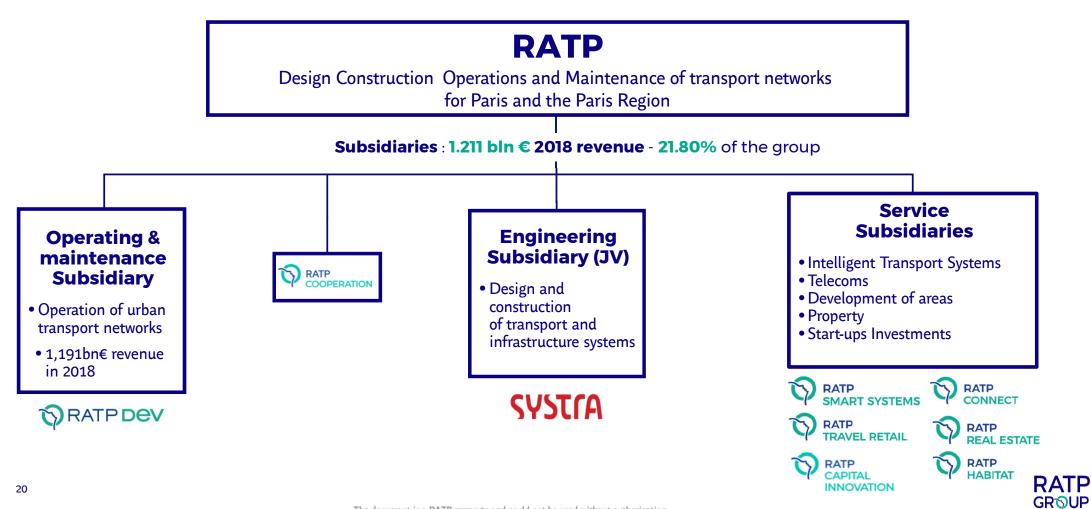
- → Tramway: tenders from 2029
- → Metro and urban rail from 2039

# RATP will remain the sole actor in infrastructure management, projects and maintenance.



GROUP

### **RATP Group : Overview**



### Metro and heavy rail expertise around the world



#### Foreign Metros

Algiers metro (Algeria)

Doha metro, 3 lines GoA4 (Qatar)

Riyadh metro, 2 lines GoA4 (Saudi Arabia)

Manila metro line 1 (Philippines)







RATP

GROUP



#### R) Foreign Regional Rail

#### **GAUTRAIN**

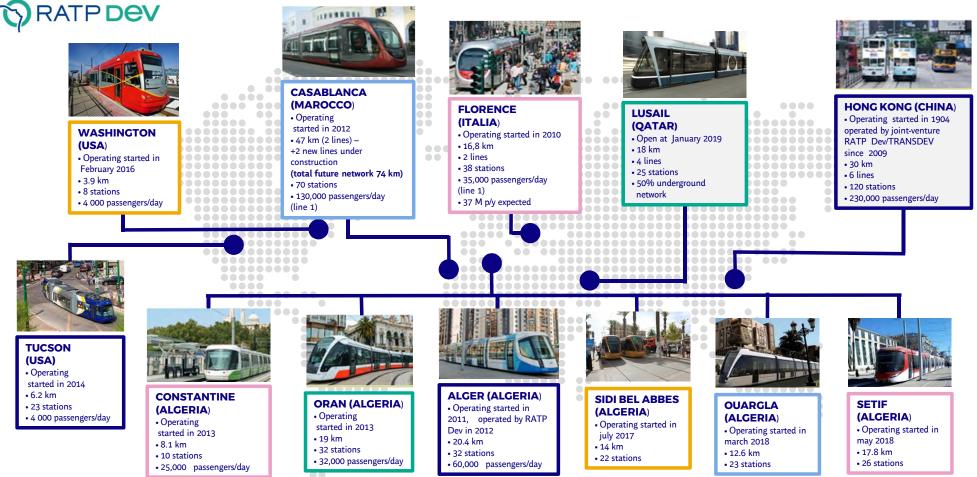
Johannesburg – Pretoria Intercity → 77kms in operation including airport link → 10 stations with 900 security personnel





Johannesburg Park Station

### Light rail operated by RATP Group abroad in 2019



- The document is a RATP property and could not be used without authorization -

RATP

GROUP

22

### **Bus networks operated on 3 continents**



#### **Other cities (RATP Dev)**

#### French cities (20 networks) :

- Aix-les-Bains, Angers, Annemasse (MaaS), Brest, Bourges, Cluses La Roche sur Yon, Lorient, Moulins, Saint-Malo Agglomeration, Vannes, Vienne, Vierzon, Valenciennes,
- Cross-border line (France-Switzerland)

#### Foreign cities :

- Modena and Tuscany (Italy)
- Washington, New York, Texas, Pennsylvania and Georgia (USA)
- London, Bournemouth, Bath, Manchester (UK)
- Riyadh (Saudi Arabia)

#### Sightseeing :

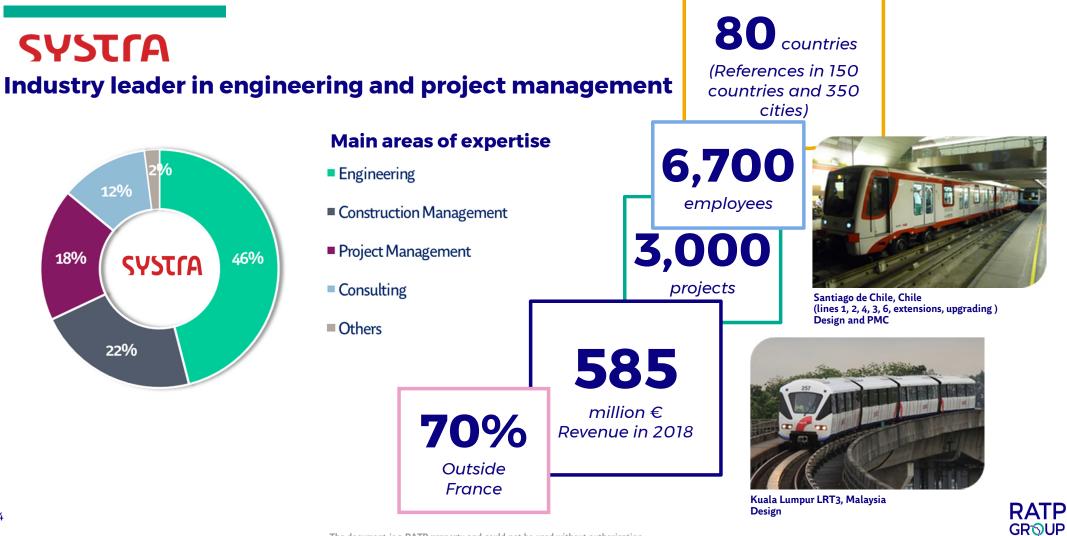
Paris « Open Tour », London « The Original Tour », Hong Kong Tramway







### **RATP Group Engineering Subsidiary: SYSTRA**



### Thank you for your attention

25



RATP GROUP

#### **RATP Smart Systems**

#### « Next Stop Paris »





#### New free phone application -10 languages

RATP

SMART SYSTEMS

(French, English, German, Dutch, Italian, Spanish, Japonese, Mandarin, Russian & Portuguese)

#### To help tourists visiting Paris by metro

- Personal location
- Mapping of itinerary
- Metro, bus, RER and tramway networks maps
- Paris streets maps
- Information about Paris sights of interest

### With or without web connection

#### **Projects: IMAGE & Zenway**

#### **IMAGE:**

- Real time and multimodal PIS (Passenger Information System)
- 3100 screens settled at bus, metro and RER stations
- To keep passengers informed between connections
- To improve transport connections

#### Zenway:

- Access to information or services related to transport (about routes passing throught the site, next bus or train real time schedule, seeking for a route on the rail network), and information neighborhood (plans, restaurants, hotels and nearby attractions, with pedestrian paths to get there).
- Access to information on mobile phone using QR code and NFC Tag.
- 60 stations equiped



81	ant			9:12
0	Punt du Garigliano	3 97	Parit de Sèvres	2 10
-	Purse de Vincennes	4 12	Hanterro-Préfecture	3 11
Gare du Nord Gare du Nord Place Balard	Höp G. Pompidou	2 8	Garges - Saicelles	1 1
	5 9	St.Donis - P* de Paris	2 1)	
	3 10	- DI Porte de Vanves		
89	Höp. G. Pumpidou	2 9	Claman Place de Cante	







RATP

GROUP



### **RATP Connect**



#### created in 1997 100% RATP subsidiary

- builds and operates fibre optic cable RATP's network (2 000 km) of RATP's rail network
- sells dark fibre telecommunication system (90 000 km)

#### Offer:

- connection of client networks to cloud and Data Center
- system maintenance during the contract (1 to 20 years)
- dark fibre telecommunication system between sites (Paris region)

#### **Projects**:

- 3 G / 4G deployment all stations will be equipped at the end of 2019
- Wi-Fi access points & " Connect point " Wi-Fi areas
  - 100 stations will be covered at the end 2019



### **RATP Travel Retail**

RATP

#### **Transit Spaces Management & Marketing** RAVEL RETAIL

#### 100% RATP subsidiary, created in 1971

#### to implement and promote shops and services in the Paris area

- Taking into account commuters needs
- Planning policy for shops expansion with

global brands and local shopkeepers (60 %)

#### 4 large transportation hubs with shops

• La Défense (73 shops & services), Gare de Lyon, Opera-Auber, Châtelet

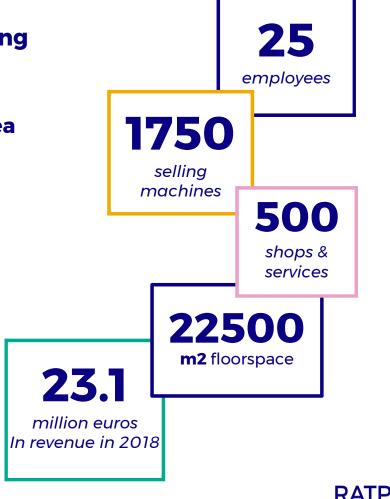
#### **Consultancy references**

- Lyon : 800 m2 retail floorspace / 20 shops 100% local shopkeepers
- Toulouse, Algiers, Brussels, Lisbon, Buenos Aires

#### **Cycles parking services**

#### **Concierge services**

16 points : Quatre Epingles & Lagardère Travel Retail France



GROUP

# **RATP Group : a new vision on integrating industrial sites**



#### « Jourdan – Corentin – Issoire » workshops

2018 - Grand Prix de la Region Capital : Urban development price

#### Urban co-construction : RATP - as a Project Manager

#### 3 architectures, multi-use conception (2017)

- Public transportation : workshops and bus parking area (200 places for buses, 200 places for private cars)
  « Montrouge» bus depot (built in 1860) modernisation project
  - cost 48 M €, financed by surface real estate programme
- Equipment : nursery (66 children), kinder garden (33 places) for Paris City Hall, city associations activities space (Paris 14th arrondissement)
  - financed by Paris City Hall,
- Commercial areas
- Housing : construction of over 660 new flats above bus parking area
  - 365 flats for students
  - 193 flats for social housing (3/4 for RATP employees)
  - 108 private flats
  - financed by State, Ile-de-France Area Council, Paris City Hall, Caisse des Dépôts (bank), Amallia Activity
    Logement







