



CREATING A MULTIMODAL NETWORK



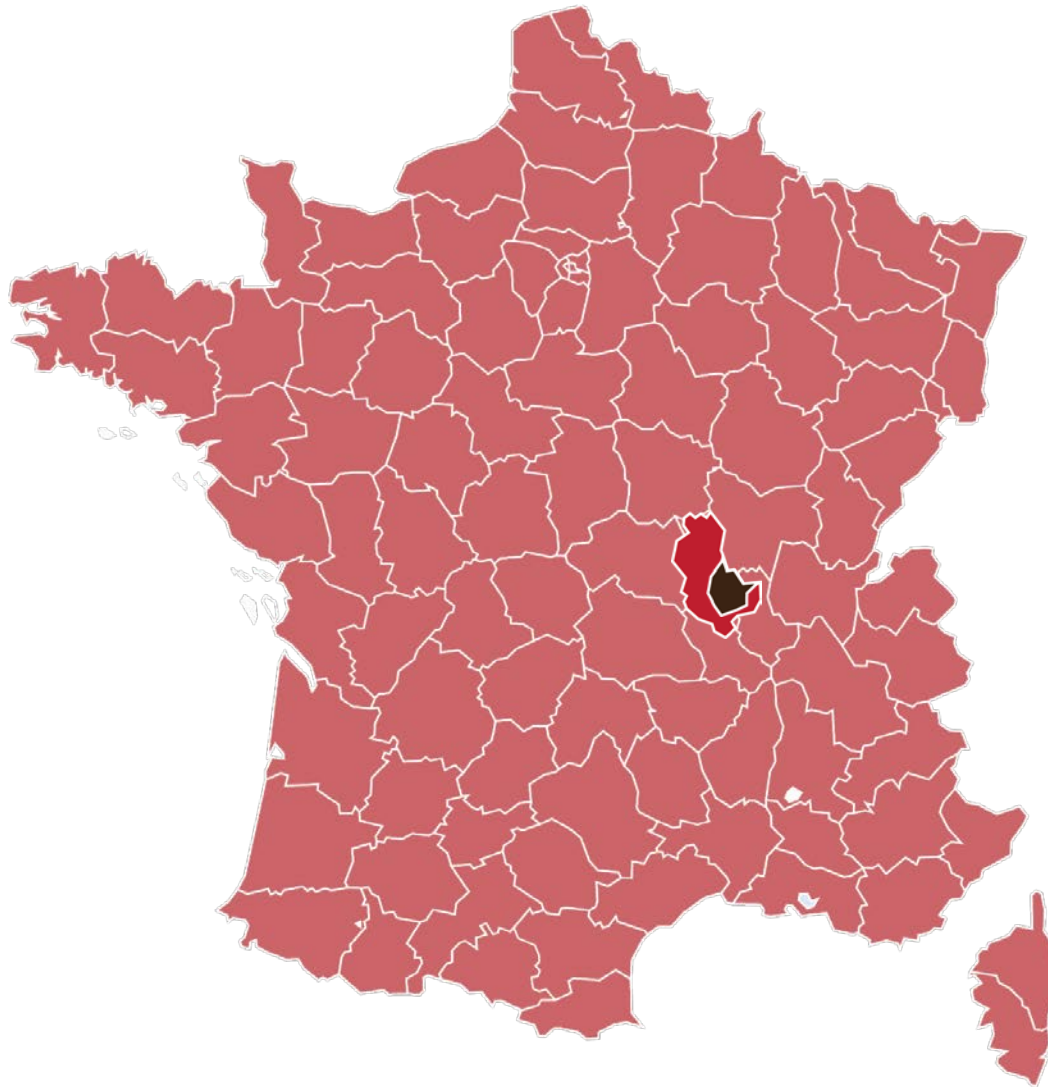
SYTRAL

The transport authority of Rhone County and
the Lyon area.

SYTRAL



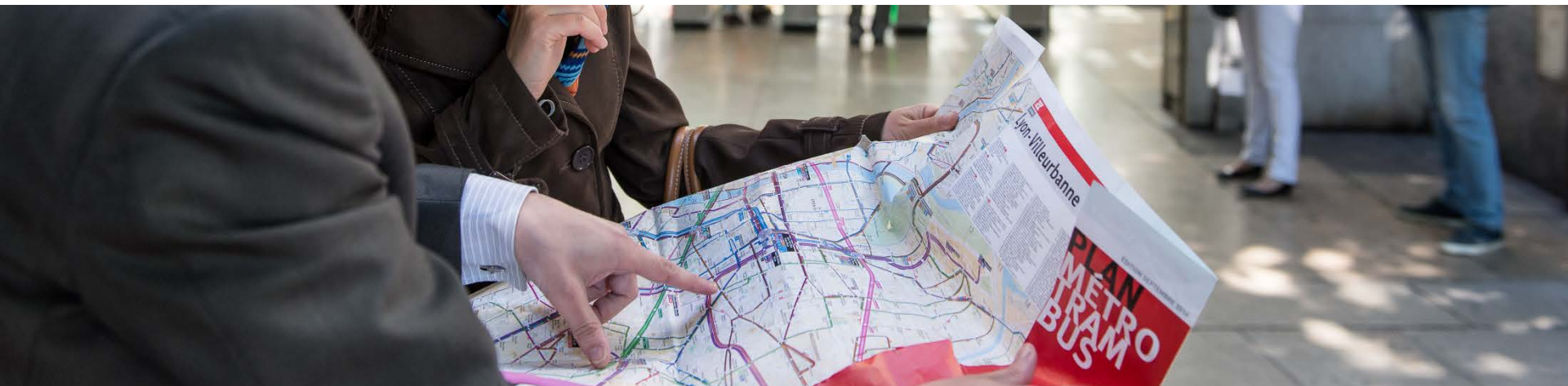
SYTRAL, exclusive transport authority for Rhone County and the Lyon area



- The Rhone County
 - Area : 2 715 km²
 - Density : 163 inhab/km²
 - Population : 447 000 hab
- The Metropole de Lyon
 - Area : 533 km²
 - Density : 2538 inhab/km²
 - Population : 1 300 000 inhab



- **Finances** the system and its development
- **Owns and supervises** the infrastructure and equipment
- **Defines** the transport offer
- **Delegates the operation** of the system to external operators
- **Defines and controls** service quality, standards, regularity, availability, cleanliness, safety, fare evasion...
- **Defines an adapted** and inclusive fare policy



SYTRAL

The TCL urban transport system

The biggest multimodal system (*excluding Paris*) in terms of its offer and use.

TCL

SYTRAL



2 PSD contrats - 6-year fixed term

SYTRAL's financial contribution
€ 390 million per year

1,7 million trips/day

58 million km served per year

4500 employees
helping to run the system

7500 parking spaces
in **22 park-and-ride sites**

5 tram lines

100 tramway trainsets, 88 stations
(64km)

4 metro lines

178 cars, 44 stations (35 km)

134 bus lines

1000 vehicles

8 trolleybus lines

131 vehicles

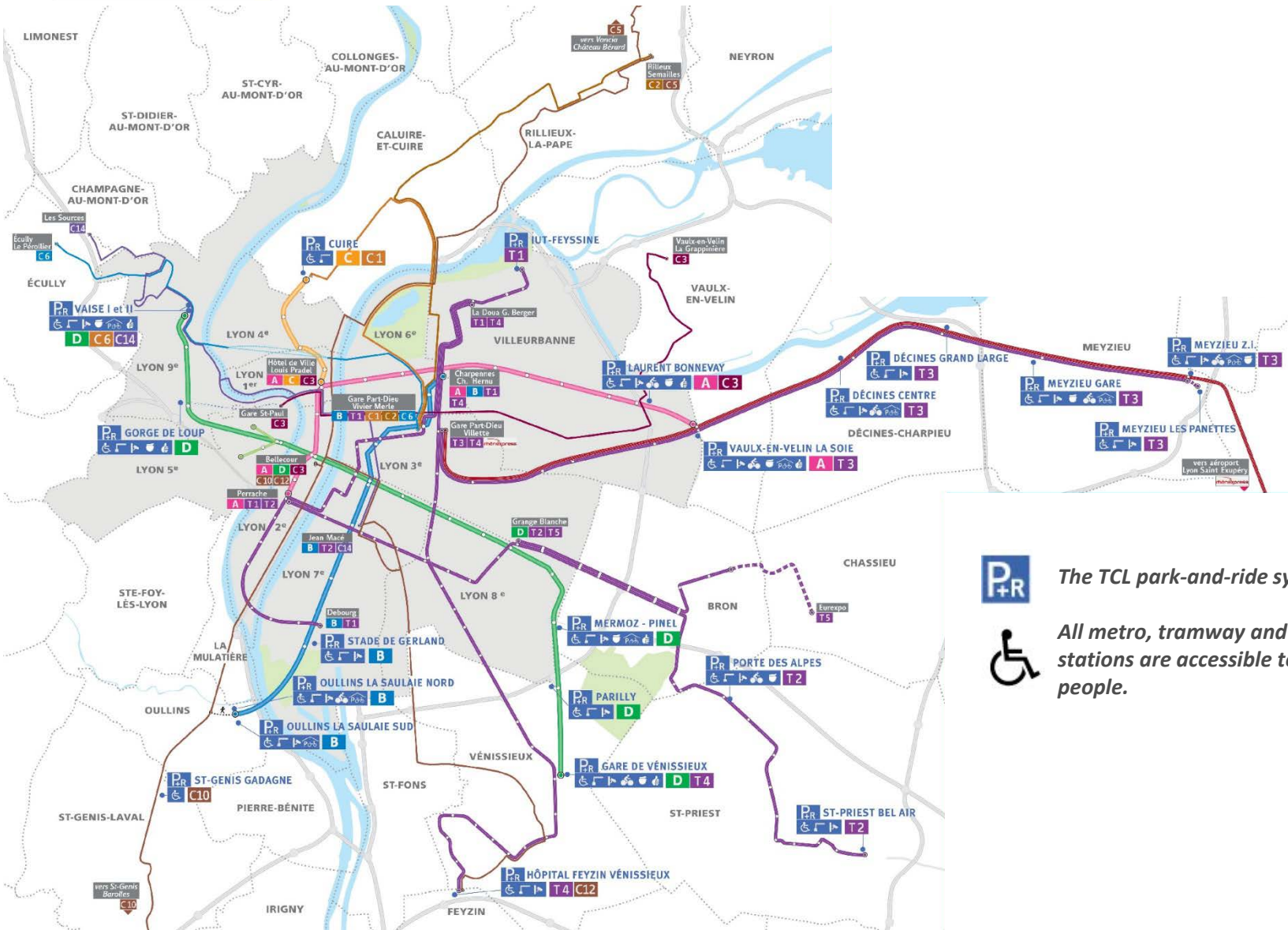
2 funicular lines

6 cars (1,2km)

4 night bus lines

131 vehicles

1 ring and ride service for disabled persons



The TCL park-and-ride system



All metro, tramway and trolleybus stations are accessible to disabled people.





- 3/4 trips are operated by electric mode



- 25% of urbains travels represent only 3% of atmospheric pollution.



- **1,7 million trips/day** in 2017
- **+ 27% attendance** for TCL system from 2010 :
 - + **80% for tram**
 - + **19% for metro**
 - + **21% for bus and trolleybus**



The evolution of modes of transport (Métropole de Lyon)

- **Cars : 42%** (48% in 2006)
- **Walking : 35%** (33% in 2006)
- **Public transport : 19%** (15% in 2006)
- **Cycling : 2%** (like in 2006)



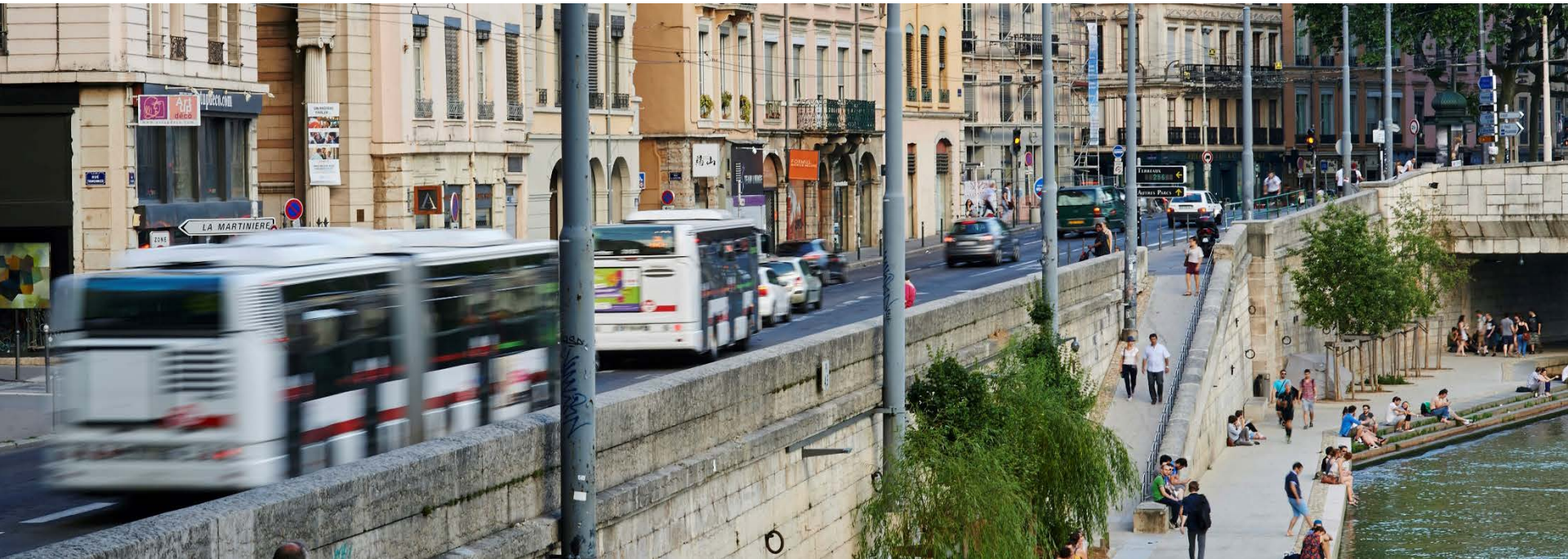
**THE CHOICE OF THE
APPROPRIATE MODE**



- Financial issues

But they are not the only considerations :

- The expected traffic volumes
- The urban projects



System	BRT	Tramway (43m)	Metro
Cost of a vehicle	Standard bus 300 K€ Electric bus 500 K€ Articulated electric bus 900 K€	3 M€	5 M€
Maximal capacity Trip/hour/way	2 500	5 500	10 000
Vehicle lifetime	15 to 25 years	30 to 40 years	40 to 50 years
Investment /km	8 M€	20 M€	120 M€
Operating costs/km	4 to 6 M€	6 to 9 M€	10 to 16 M€





An efficient multimodal network

- Led and coordinated by a PTA
- UMP (urban mobility plan) – long term vision
- Integrated network
- Efficient connections
- Single ticketing system



- Reduce the use of private cars in favour of public transport and active modes : public health issues, relieve congestion in city centers...
- Technical and technological innovation : passenger information, clean transport...
- Sustainable mobility solutions : digital development, autonomous transport...



Thank you for your attention



LYON - SYTRAL