

POLIS

CITIES AND REGIONS FOR TRANSPORT INNOVATION

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CONFERENCE

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#POLIS2022

New urban cable car & 3rd metro line projects in Toulouse: Innovation and environmental assets

3E: Planning and building for regional access

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Mobility Strategy 2025-2030

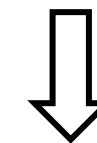
The second-quickest demographic growth in the metropolitan areas amid one and two million inhabitants

(source : OECD database)

	population 2018 (thousands)	annual growth since 2006 %	thousand of inhabitants/y
Oslo	1,380	+1.8%	+24.2
Toulouse	1,423	+1.4%	+19.6
Dublin	1,935	+1.3%	+24.7
Helsinki	1,490	+1.2%	+18.2
Copenhagen	1,919	+0.9%	+17.9
Bordeaux	1,277	+1.3%	+16.6

Today 500 000 trips a day on the Tisséo PT network

⇒ +700 000 trips a day in 10 years (all modes)



Need of a PT capacity system and connections



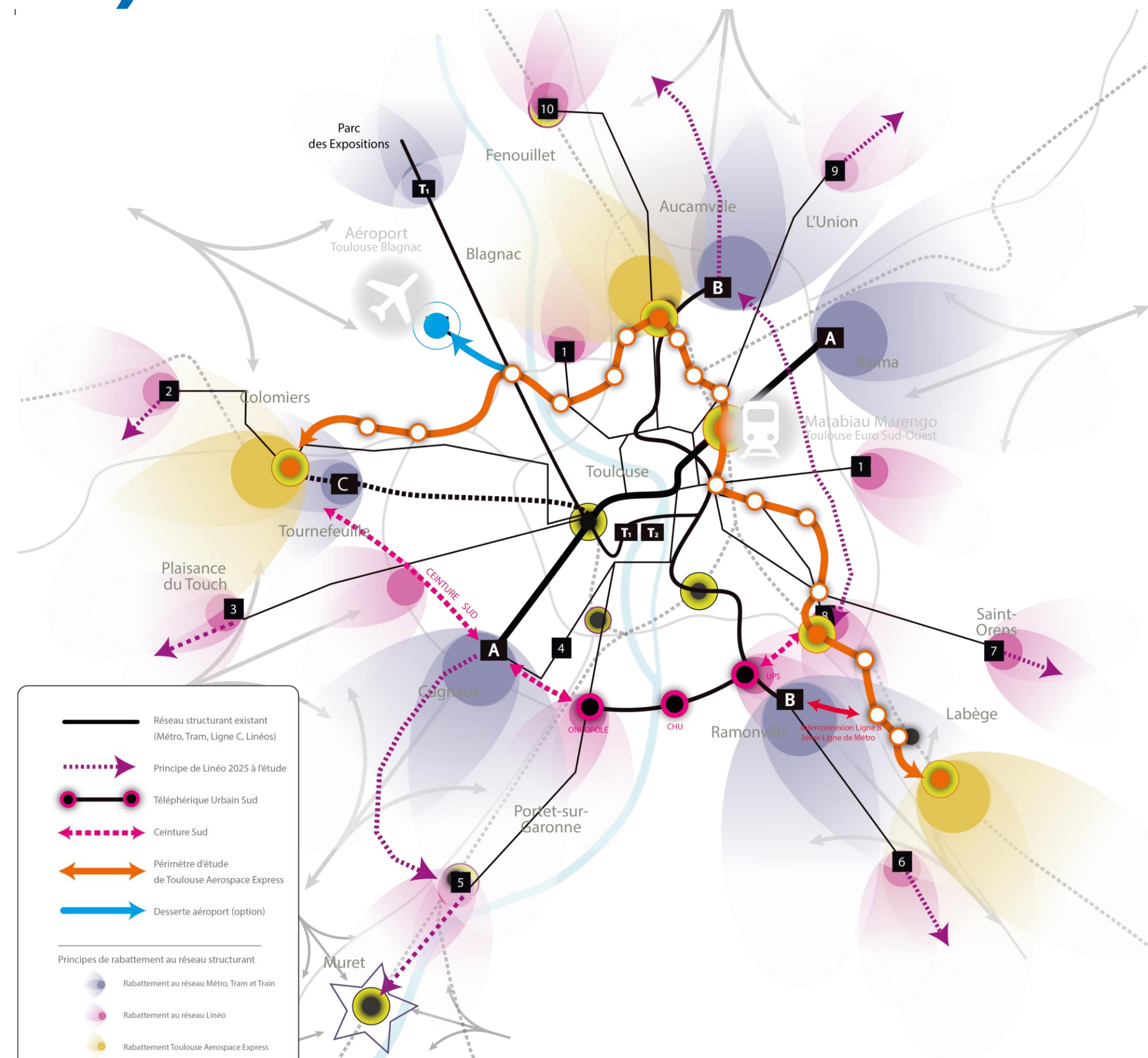
3rd Metro Line (C-Line) : the new backbone

First steps carried out : 10 BRT lines
+ the south belt (bus+cable car)

Serving +200 000 jobs (including Airbus in NW and SE) + extension of the B-line

5 train stations connected to go with the development of the commuter rails services

5 connections with metro and tram lines



The future metro C-line

Expected Project Completion: 2028



C-line in numbers

Automated metro = 5,000 to 15,000 pphpd

21 stations

80% underground

40 km/h

5 connections w/ train lines

5 connections w/ tram and metro lines

C = 27 km = A + B

1,500 bicycle parking places

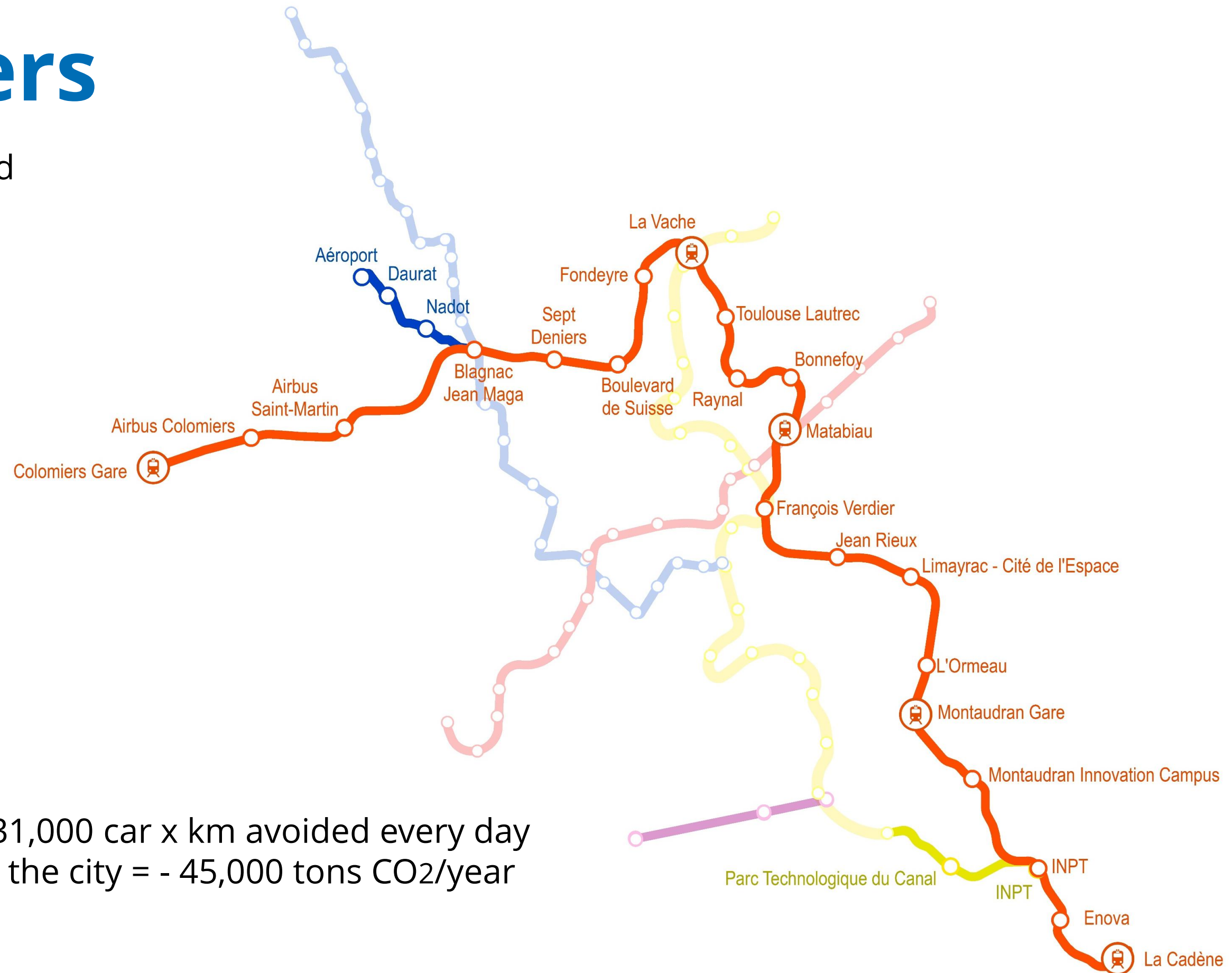
4 P+R

200 000 trips a day

CAPEX: B€2.7

Construction: 2022-2028

531,000 car x km avoided every day
in the city = - 45,000 tons CO₂/year



Environmental Ambitions



Utilize 100% of energy created when train brakes

Use circular economy throughout the project

Ex: Promote the use of the waste produced during building and operating phases

Use environment-friendly materials

Promote solutions increasing components lifetime



Environmental Ambitions

Implementation of the European and French strategy

Avoid > Reduce > Compensate
damage to the nature the impact residual impacts

Reduction of urban sprawl (equivalent of 500 football fields)

Preservation of biodiversity : positive balance of fauna and flora
(*compensation = 170,000 sqm of natural habitats*)

More nature within the city by "greening" the public spaces

+3,400 trees

Preservation of water resources, especially groundwater, by reducing impermeable surfaces



Environmental Ambitions



Commitments to a better quality of life:

- Protect the buildings during tunnelling
- Reduce noise pollution and vibration caused by construction
- Support urbanization along the C-line
- Develop bike lanes and bicycle parking spaces



The new cable car

Project Completed : May 2022



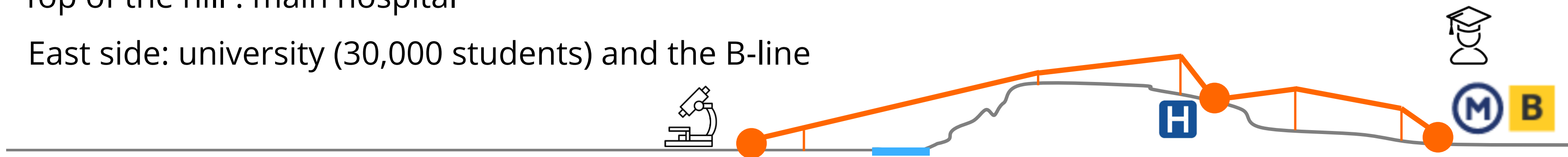
Why a Cable-Car ?

A southern-belt crossing the Garonne river and natural barriers

West side of the river : 10,000 jobs

Top of the hill : main hospital

East side: university (30,000 students) and the B-line



Cable-car :

- Preserves the natural area
- Direct-route
- 100% exclusive-lane means of transport

3-cable technology :

- Performance
- Comfort
- Light footprint : only 5 pylons
- Frequency and speed adapted in real time
- Silent

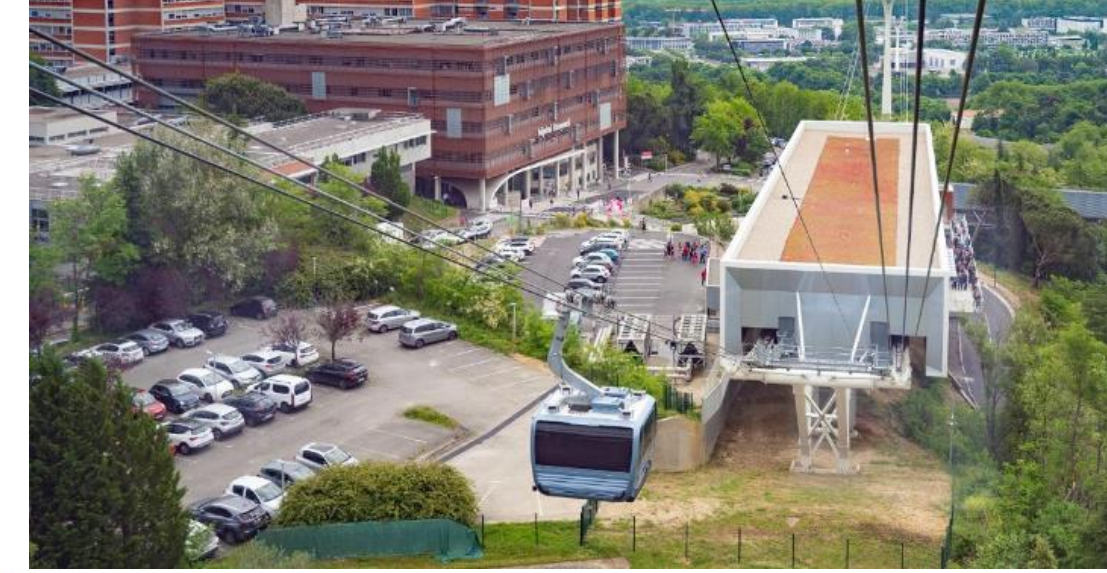


Key figures

1,000 trees saved

400 trees and 600 million hedges planted

>30 hectares to preserve wildlife



More info @ www.tisseo-collectivites.fr

Thank you for your attention!

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