

# Attractive public transport policies for climate, air and public spaces quality

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**Workshop 6**  
**Sustainable mobility**

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# Metropolis of Grenoble



"At the end of every street, there is a mountain" French writer Stendhal said

## Introduction

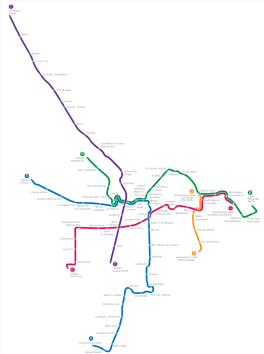
- Public transport, the basis for sustainable transport
- Develop attendance in public transport
- Benefits of shift in transport behaviours

## Conclusion

# **Public transport, the basis for sustainable transport**

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# History of Grenoble public transports : tramway lines



Tram network : 5 lines, 44 km long



- 1975 : studies for 10 km tramway line, creation of ADTC, a citizens' organization for public transport development
- 1988 : opening of 1<sup>st</sup> tram line 100% accessible
- 2000 : first CNG buses
- 2014 : 5<sup>th</sup> tram line
- 3 to 5 min, tram frequency between 7 am to 7 pm. Regular schedule during the evenings too.

# Mobility policies : many alternatives to the car

Strongly develop the pedestrian perimeter of the city center.

Creation of the chronovélo, large bike network (40km long in 2020)

Reduction of speed limit at 30 km/h on whole city and metropolis



- A complete treatment of a central axis where 15,000 vehicles / day circulated
- Walking, cycling
- Car sharing
- Public transport
- Telecommuting

# Priority to bikes

Grenoble, champion of cycling for commuting from home to work  
(17 % source Insee 2021)



- a flat and sportive city
- a 40 km chronovélo network
- 9000 bikes on long-term loan
- 1,100 parking spaces near the Grenoble main station



## **Develop attendance in public transport**

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# Factors in the use of public transport

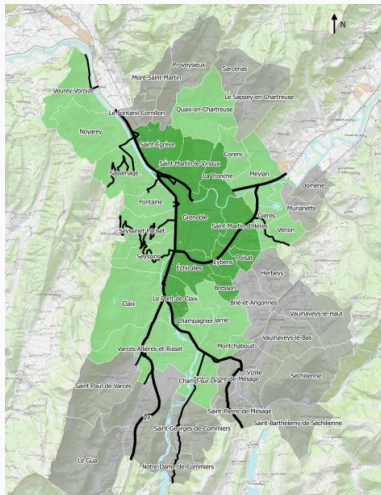
- urban density and transport network density
- quality of service : fast frequency, cadenced schedule
- ticket price, perceived cost of transport modes
- parking trouble at destination

## Attractive, clean public transport



- Transport network that acts on air quality and climate change mitigation
- bus fleet : 122 Compressed Natural Gas (CNG), 56 hybrid  
51 diesel fuel, 7 electric buses
- part of CNG comes from a methane production facility, from water treatment plant sludge
- 5 new CNG stations benefit other heavy vehicles, trucks to enhance the role of bio-CNG, renewable energy

# Low Emission Zone started in 2017



- First LEZ in 2017 :  
Only the north of Grenoble
- Current scope : LEZ on 27 municipalites, **Heavy goods vehicles and LCVs, light commercial vehicles**
  - end of thumbnails Crit'Air 5 in 2019, Crit'Air 4 in 2020
  - Crit'Air 3 in 2022
  - Crit'Air 2 (diesel) in 2025
- On going study :  
**all vehicules LEZ** on 12 municipalities

## Intermodality : single card



- metropolitan tram, bus network : TAG company
- same support for regional express train, regional buses
- 22 park and ride available in Grenoble metropolis (3200 parking spaces) + 11 Voiron + 7 Crolles

# Urban mobility plan PDU2030 for metropolis



regional express train - Grenoble station

- improve attraction of public transport
- framework of structuring network linking urban poles and dense areas
- secondary additional rapid bus network (bus chrono)
- develop and secure rail connections
- organize parking in the service of modal shift
- a metropolitan express train 2030 :
  - 4 trains/h to north-east (20 km)
  - 4 trains/h to north-west (30 km)
  - and 2 trains/h to south (50 km)

## **Benefits of shift in transport behaviours**

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## Health and greenhouse gas mitigation

- Less air pollution, ie PM2.5 particles
- Less traffic jam and noise pollution
- Effective action to reduce greenhouse gas emissions from transport

## Esplanade : a new town planning project



- construction of 840 housing units by 2035
- removal of a 300-space car park near city center
- requalification of the space for a pleasant green esplanade at the foot of the Chartreuse mountain



- PDIE (inter-company travel plan) on Presqu'île of Grenoble  
A club of mobility managers of local businesses : website, events, real time information
- town planning projet, based on a reduced car part : silo parking
- city and public corporation staff : bicycle kilometer allowance 200 €/y, 50 to 80% public transport subscription supported

## Conclusion

- PT, in the heart of new mobility policies
- First challenge for climate protection, for city renovation
- Reduced public transport fares have been existing for a long time
- Free transport project during the weekend