



## The (social) territories of mobility

Paula Teles

from engineering infrastructure  
to the design of urban mobility



ORDEM  
DOS  
ENGENHEIROS





The city, mosaic of hypermobilities





# 01 | **New** urban realities

# THE BLOCKED CITY





# The segregated city [by major infrastructure]





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“THE CITY THROUGH THE  
Window of the parents car”

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## **02 | New problems on the planet: climate changes**



# climate changes



# decarbonization

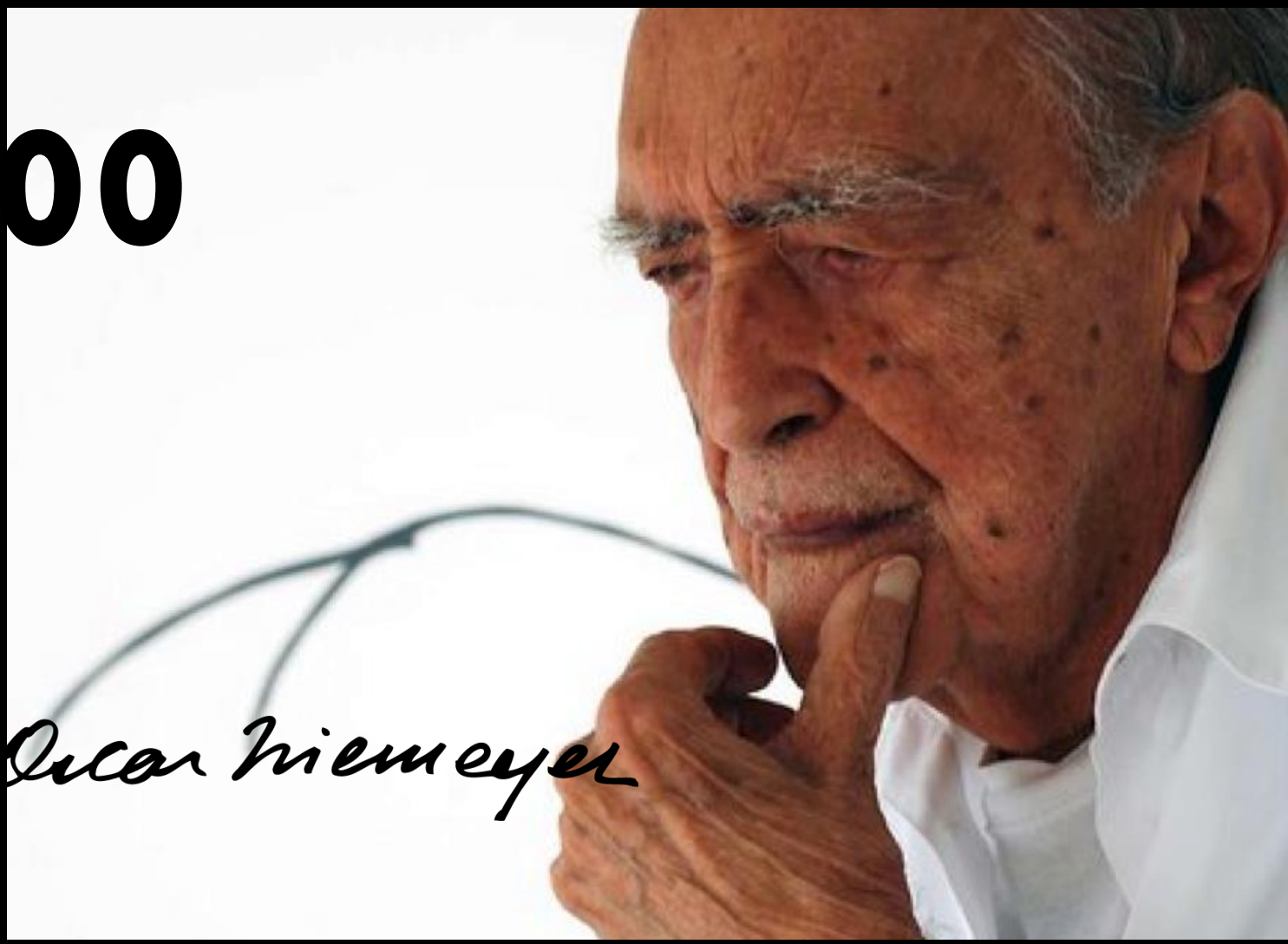


## **03 | New social changes**



*Mamoe de Oliveira*

**100**



*Oscar Niemeyer*

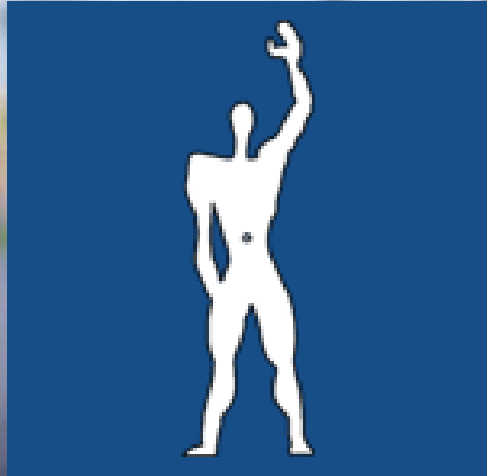
**Work till old age ...**





**Increased Average Life Expectancy**





**Humanization - Inclusion**



## **04 | New solutions new mobilities**





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**Energetic transition – smart and sustainable cities**

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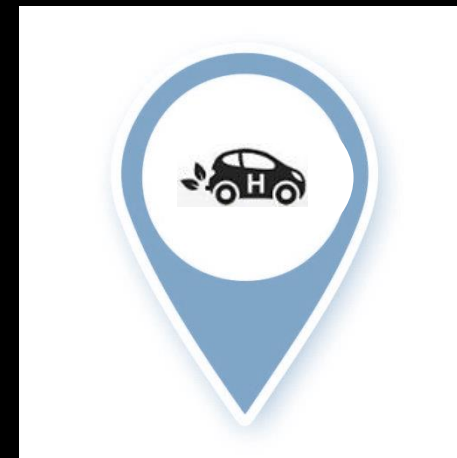
Smart City technology



Electric Cars



Autonom Vehicle



hydrogen car



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# Energetic transition – smart and sustainable cities

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# The inversion of the concept

## The urban mobility paradigm

The balance between modes of transport



How the old traffic engineers saw the city

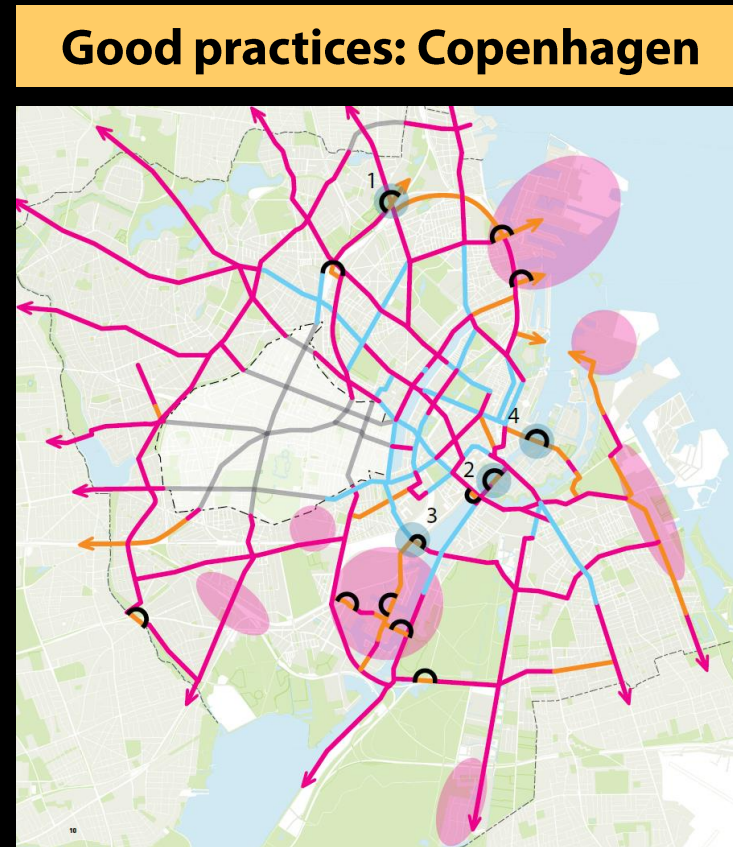


How cities should be drawn

The importance of prioritizing modes of transportation in city design.

# The inversion of the concept

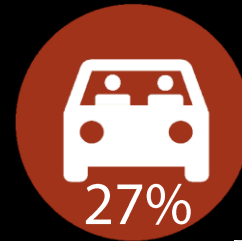
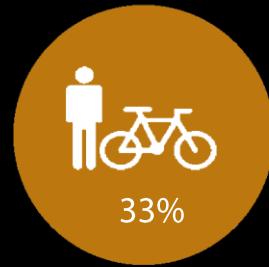
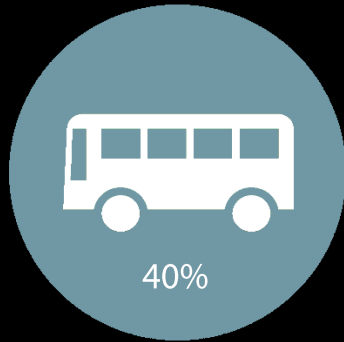
## The urban mobility paradigm



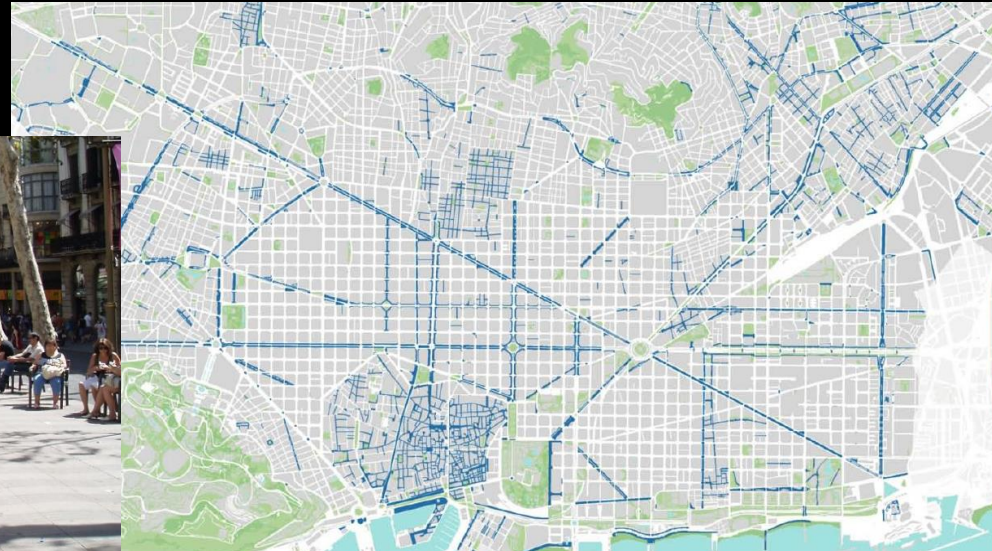


# The inversion of the concept

## The urban mobility paradigm



Good practices : Barcelona



# Urban mobility in AML - Metropolitan Area of Lisbon

2001



43%



20%



24%



1%\*

2011



60%



22%



17%



0,3%

2017



60%



23%



11%



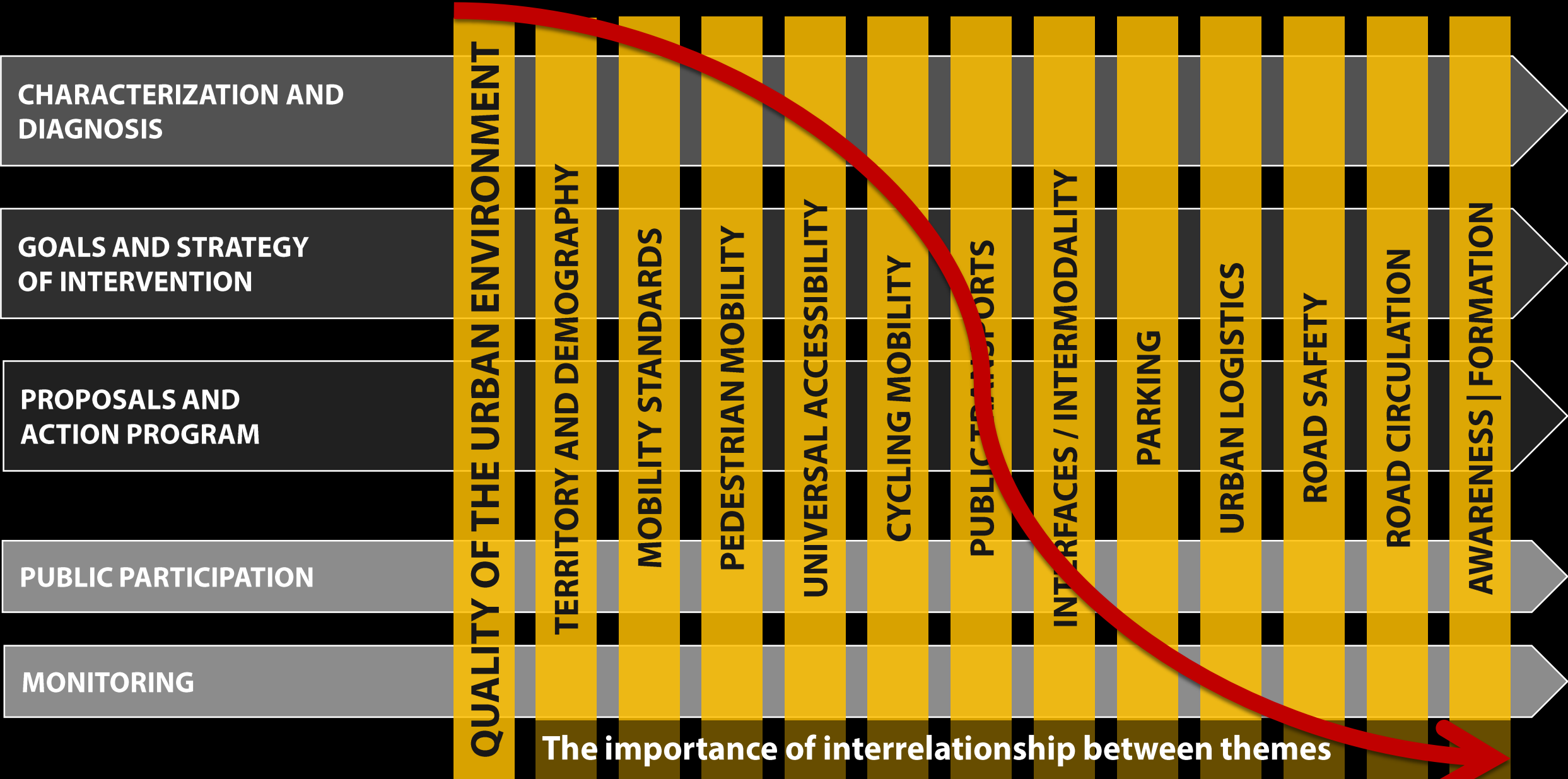
0,5%

\* motorcycle + bike



# **05 | Urgency** in Sustainable Urban Mobility Planning **SUMP**

# SUMP Themes





# GRONINGEN SUMP

## GRONINGEN CITY-REGION

INNOVATIVE MEDIUM-SIZED EUROPEAN CITY

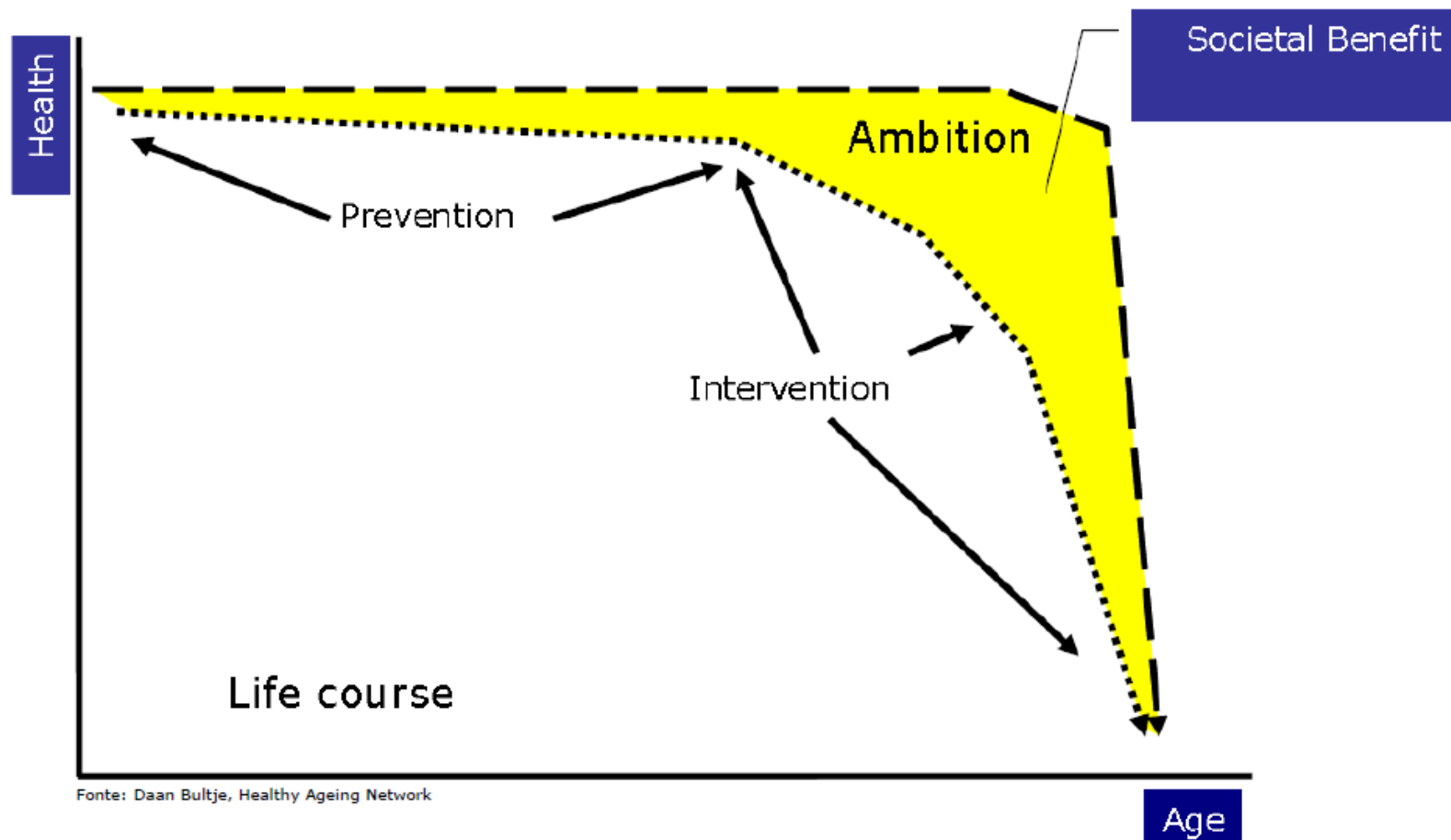


### is in our veins!

50 years of integrative mobility planning, focusing on:

- Shift from traffic to quality of life
- An attractive, liveable and connected inner city

## What do we mean by Healthy Ageing



# GRONINGEN . ZERO CARBON CITY 2025





# THE PLANS



GUIMARÃES



FARO



LEIRIA



NAZARÉ



BRAGA



AMARANTE



PENAFIEL



SINES



VILAMOURA



# SUMP faro

- IMPROVEMENT OF CITY'S RELATIONSHIP WITH RIA FORMOSA BY CHANGE OF RAILWAY
- NEW INTERFACE
- OLD VILLAGE QUALIFICATION AND URBAN REQUALIFICATION OF WATERFRONT









**60%** of trips worldwide

**< a 8 Km**



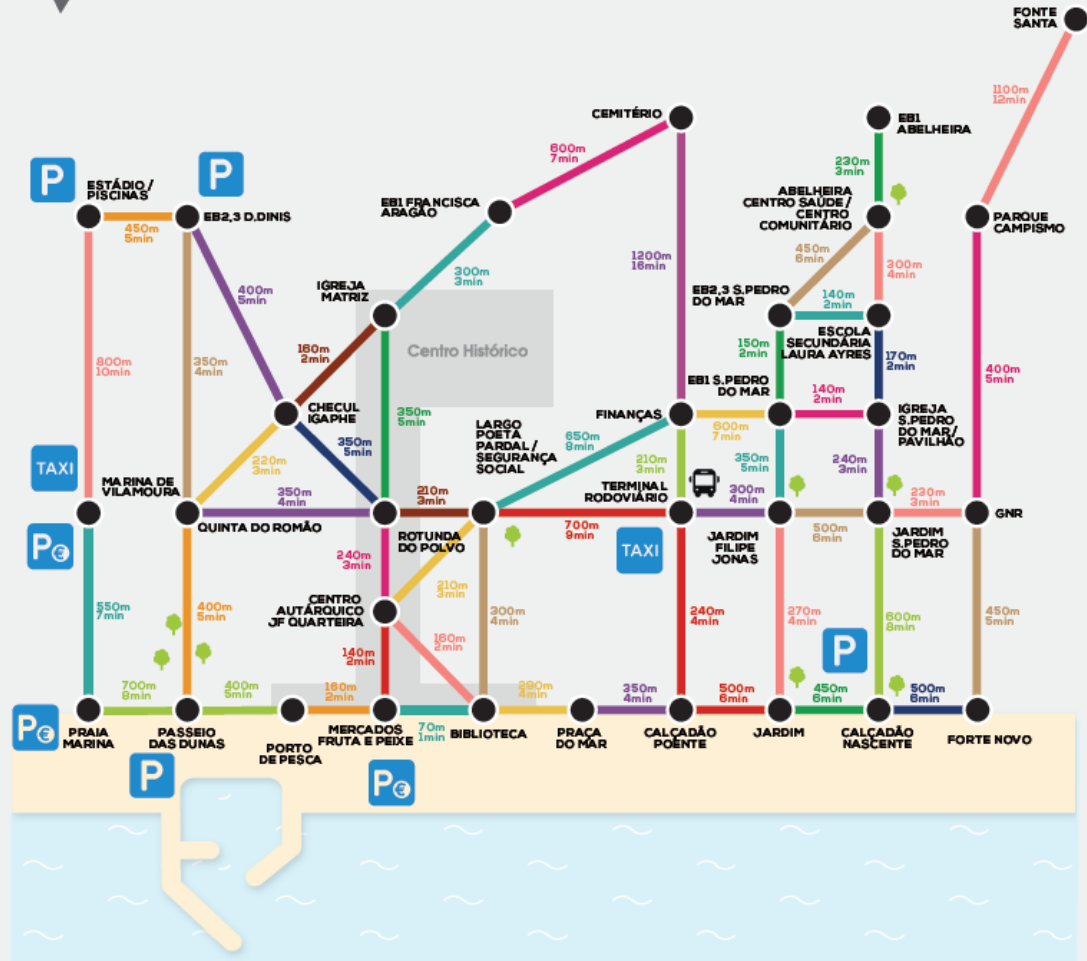


# minute meter **Quarteira**



Distâncias e tempos caminhando

Tempos aproximados para caminhar pela cidade, tendo como base uma velocidade média de 5 km/h. Verifique para cada trajecto, a distância e o tempo que aproximadamente levará percorrê-lo.

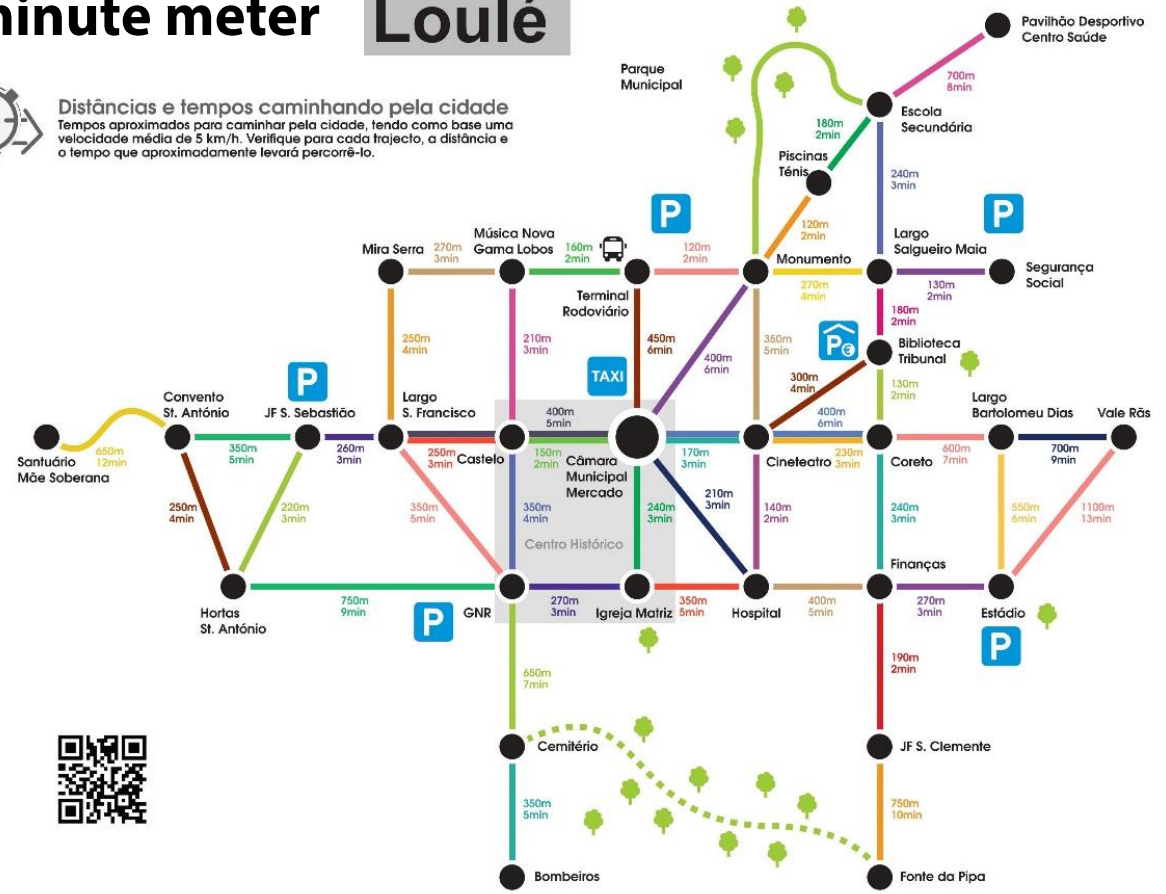


# minute meter **Loulé**



Distâncias e tempos caminhando pela cidade

Tempos aproximados para caminhar pela cidade, tendo como base uma velocidade média de 5 km/h. Verifique para cada trajecto, a distância e o tempo que aproximadamente levará percorrê-lo.



Distances and times walking the city



Plaza Mayor| Madrid  
**Before and after**



P Comércio, Lisbon  
**Before and after**





## **06 | New challenges of Urban Mobility**

**HUMANIZATION**

**DECARBONIZATION**





**HUMANIZATION**





# DECARBONIZATION

The new functions of contemporary cities



## **07 | Bet on Urban Design and Soft Modes**

# URBAN ACUPUNCTURE

## Tactical Town Planning





# URBAN ACUPUNCTURE\_LISBON – RUA NOVA DO CARVALHO

Problematic streets turned into living areas





# GOOD PRACTICE

WALKABLE  
AND CICLABLE  
BRIDGE  
Tomiño  
Cerveira





# The bet on walkable city



Walkability





Urban and architectural barriers



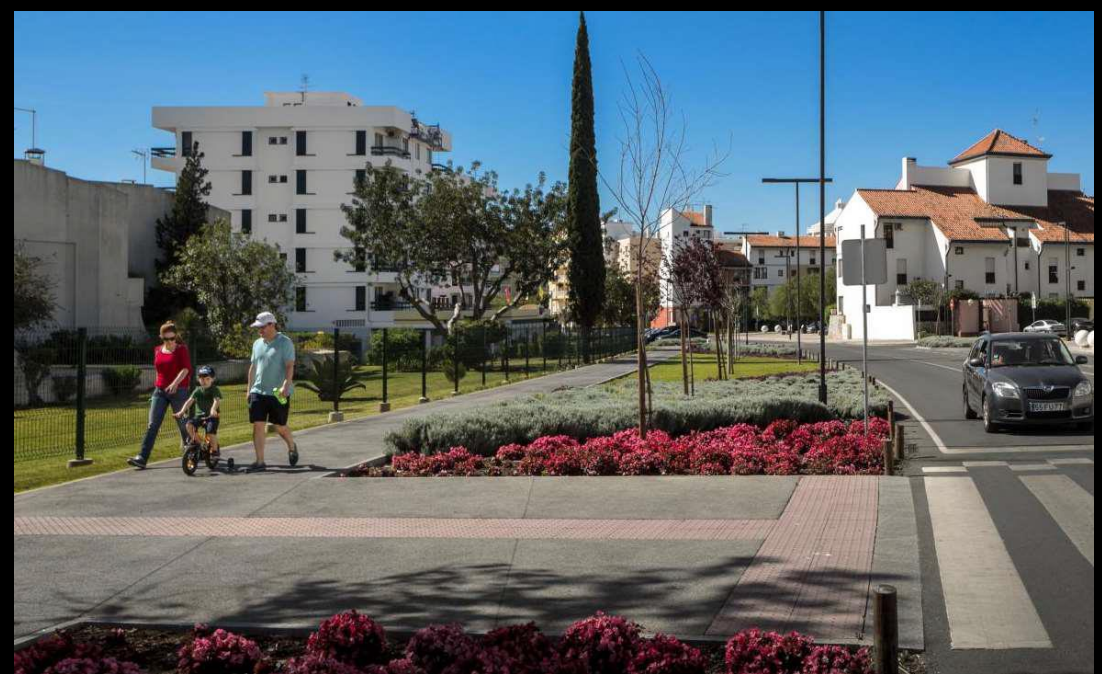
# Good practices of walkable cities and quality of urban ambience







# Good practices of walkable cities and quality of urban ambience







Good practices of walkable cities  
and quality of urban ambience





# The bet on the cycling city



**Bikeability**





Bad design practices





Designing cycle paths is no joke



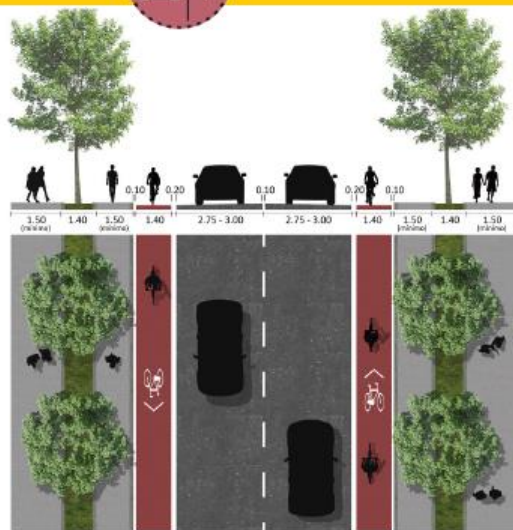


# THE CITY OF BICYCLES

**grammar  
to draw cycling cities**



## 2. Corredor ciclável



2.1 Corredor ciclável unidirecional.



2.2 Corredor ciclável bidirecional.



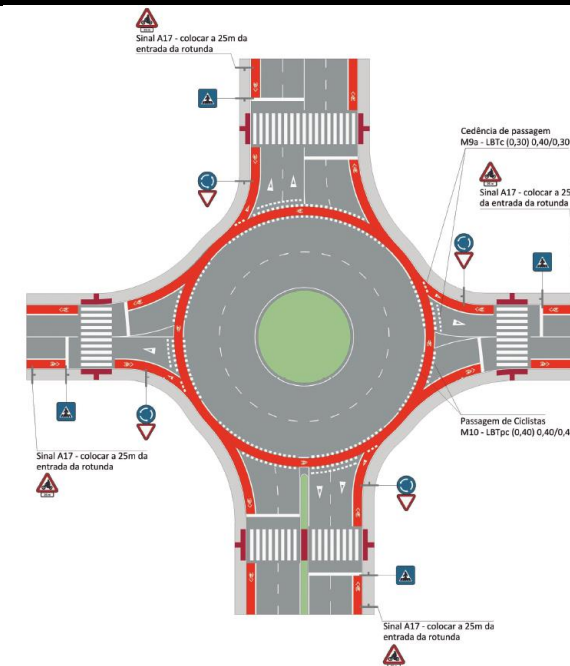
2.3 Corredor ciclável unidirecional com estacionamento transversal.



2.4 Corredor ciclável unidirecional com estacionamento longitudinal.



2.5 Corredor ciclável unidirecional entre o estacionamento e o passeio.



# Grammar/Manual to design cycle paths





Good practices of cycling cities





Good practices of cycling cities







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# “I have a dream ...”

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*Martin Luther King Jr. (1929-1968)*



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Thank you for your attention