

# BRT SYSTEM IN BRASILIA

(Bus Rapid Transit)

How does the BRT public transport system work in Lucio Costa's city?

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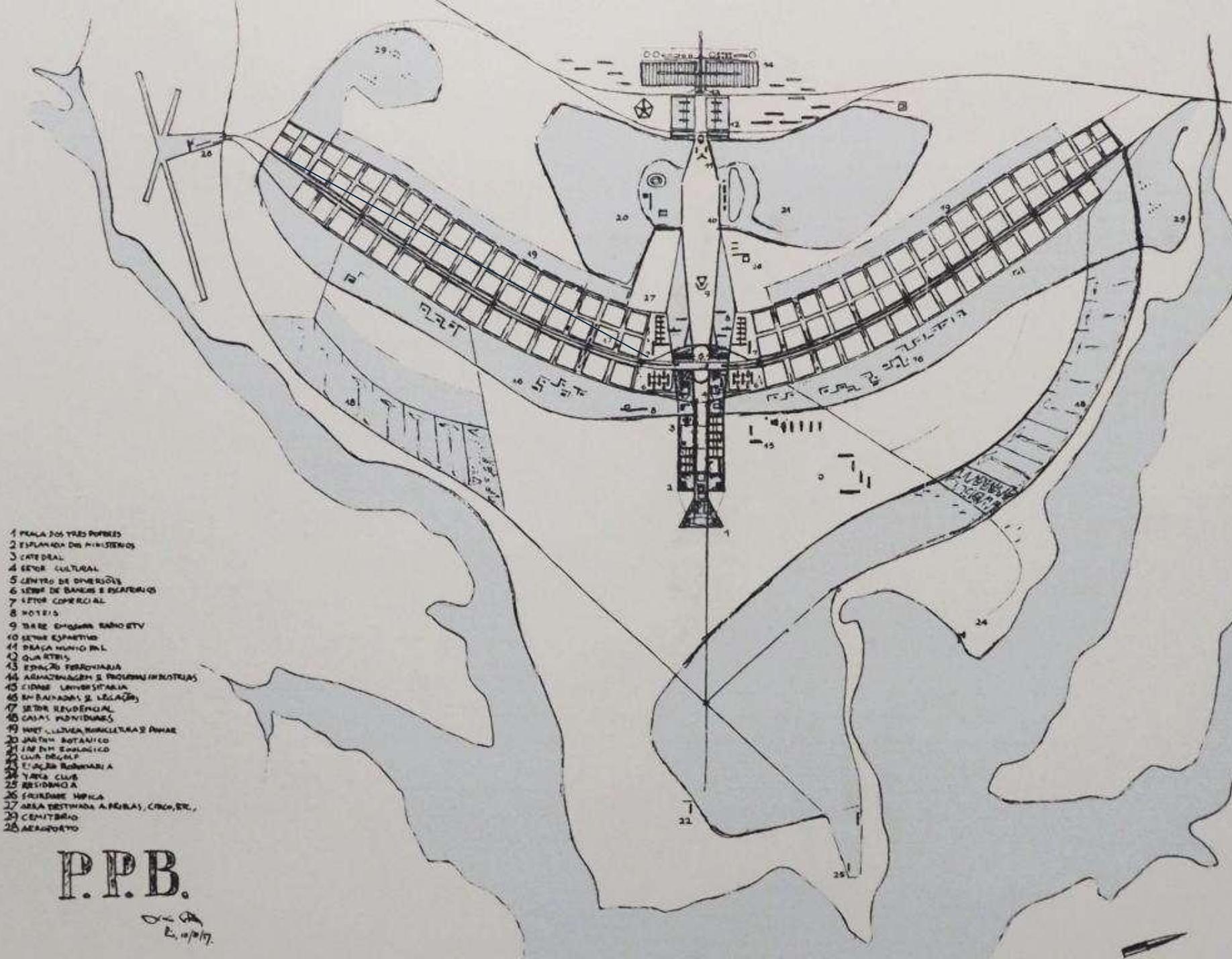


# BRT SYSTEM IN BRASILIA (Bus Rapid Transit)

- BRASILIA, THE CITY DESIGNED BY LUCIO COSTA
- PUBLIC TRANSPORT IN BRASILIA
- WHAT IS THE BRT?
- BRT IN BRASILIA
- BRT IN BRASILIA RELATED TO ANOTHER SOUTH AMERICAN CITIES
- CONCLUSION

# BRASILIA, THE CITY DESIGNED BY LUCIO COSTA





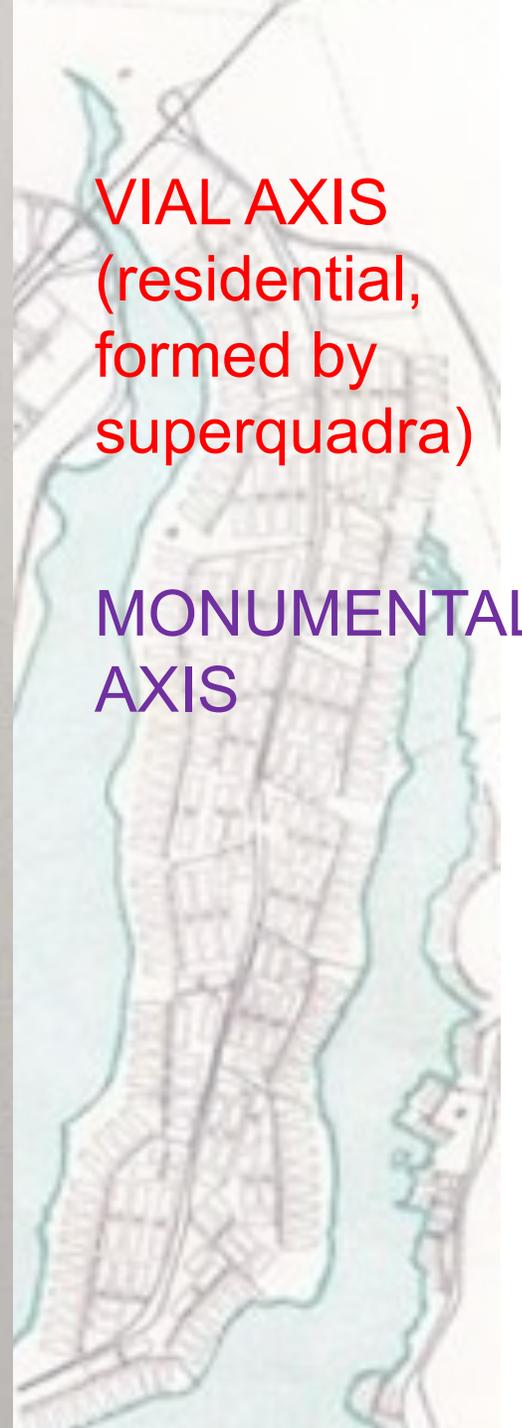
- 1 PALA DOS YRÉS POBRES
- 2 ESPLANADA DOS MINISTÉRIOS
- 3 CATEDRAL
- 4 SETOR CULTURAL
- 5 CENTRO DE DIVERSÕES
- 6 SETOR DE BANHAS E ESCABELOIS
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- 8 HOTÉIS
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- 10 SETOR ESPORTIVO
- 11 PRAÇA MUNICÍPIO
- 12 QUARTIS
- 13 EDIFICAÇÃO FERROVIÁRIA
- 14 ARMAZÉMAGENS E PROSESSO INDUSTRIAIS
- 15 CIDADE UNIVERSITÁRIA
- 16 EMBAIXADA E LEGAÇÃO
- 17 SETOR RESIDENCIAL
- 18 CASAS INDIVIDUAIS
- 19 HORT. LILIEIRA, MURKLETRAS E PÁVIAE
- 20 JARDIM BOTÂNICO
- 21 JAPIM ENOLOGICO
- 22 QUAR. TRICAP
- 23 L. ACQUA BOBBIANA A
- 24 YACIA CLUB
- 25 RESIDENCIA
- 26 FORTITUDE HIPICA
- 27 ÁREA DESTINADA A FERILAS, CIRCO, SR.
- 28 CEMITÉRIO
- 29 AEROPORTO

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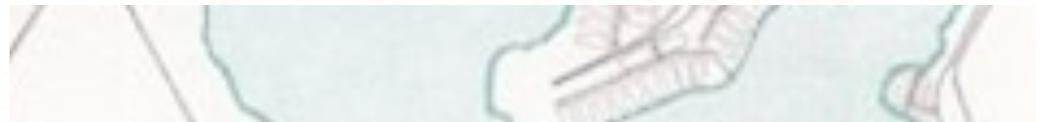
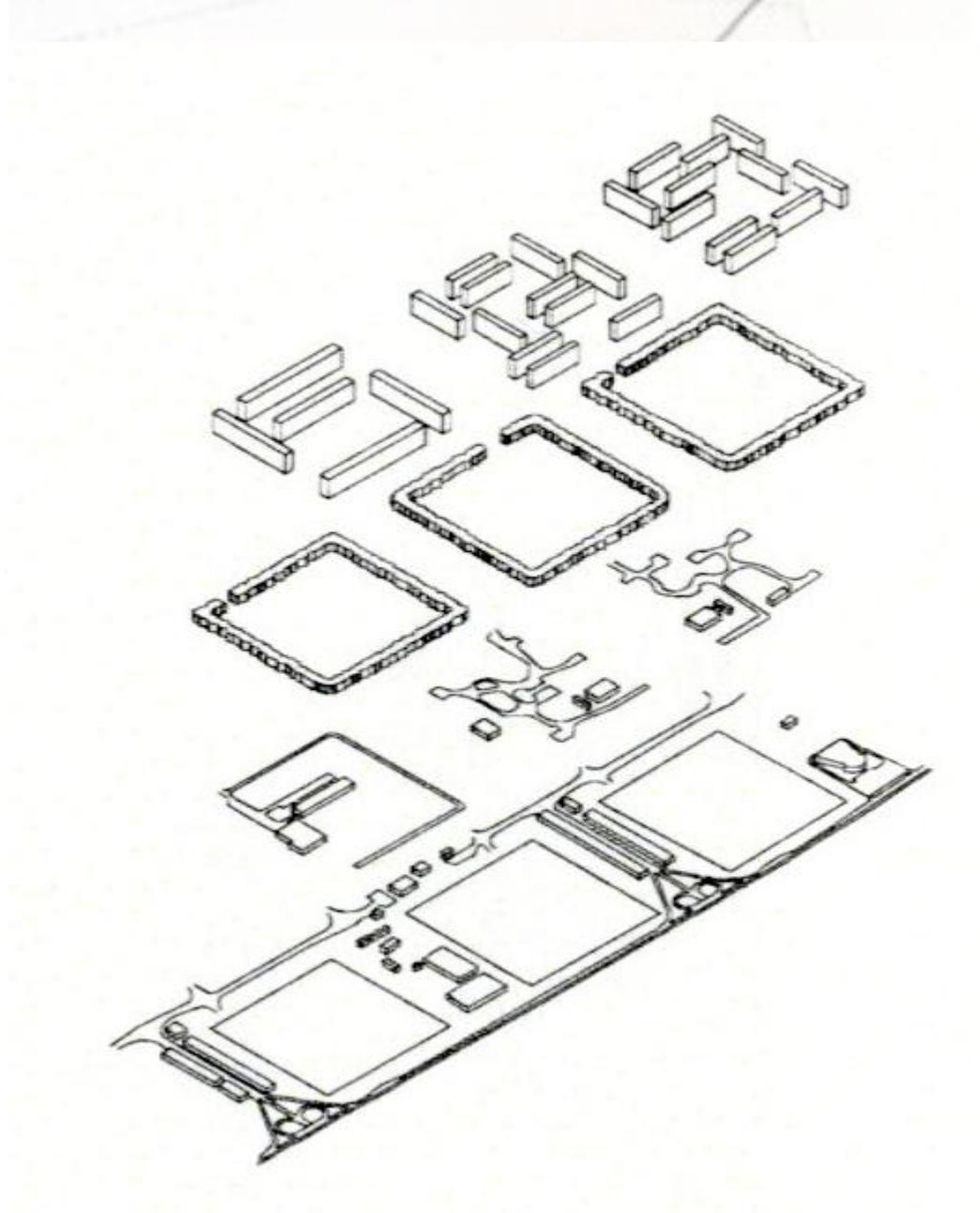
VIAL AXIS  
(residential,  
formed by  
superquadra)

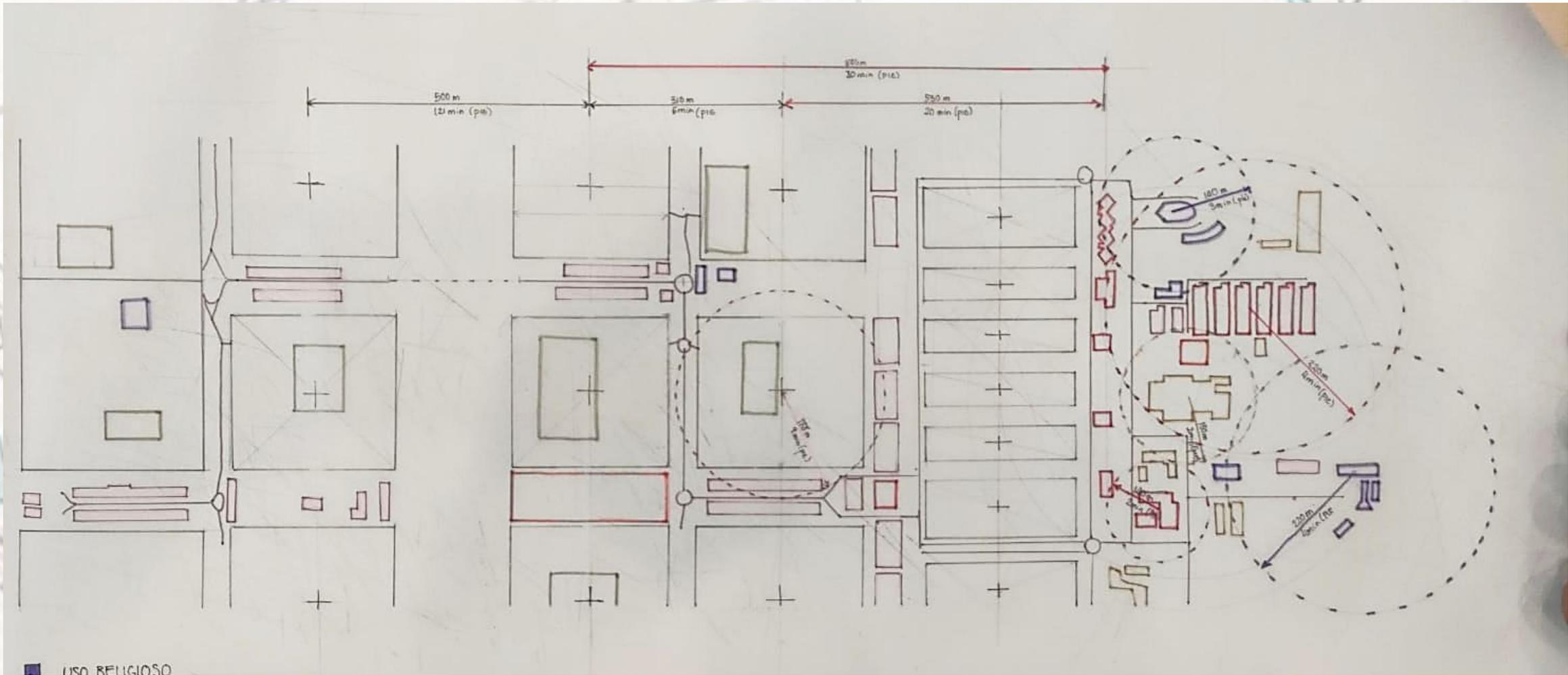
MONUMENTAL  
AXIS



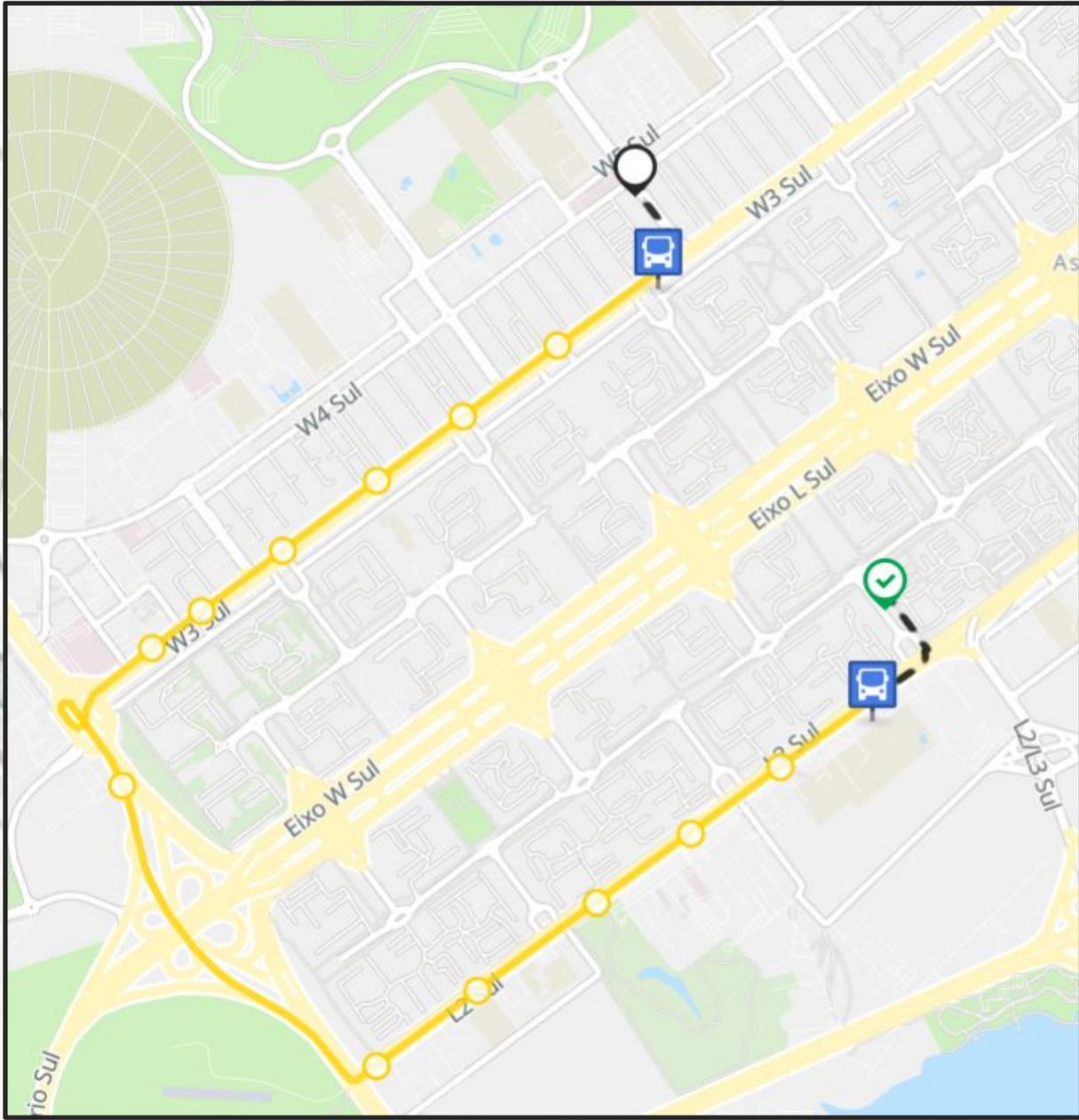


Typical *Superquadra*, Brasilia





■ USO RELIGIOSO



Brasilia's wing design makes it difficult to move perpendicular to the road axis, having to completely surround the wing to get from one point to another.





Spatially one of the most emblematic urban manifestations of Brasilia's car vocation is the preventing of junctions, where crossing free principles of highway engineering were applied. View from the TV tower, Plano Piloto 2007  
Photograph by Sahil Latheef

# PUBLIC TRANSPORT IN BRASILIA

Types of public transport in Brasilia:

-Bus 2.00R\$  
Brazilian Real =  
0.33€

-Taxi 2.00R\$  
Brazilian Real =  
0.33€

-Subway >3.00R\$  
Brazilian Real =  
0.50€



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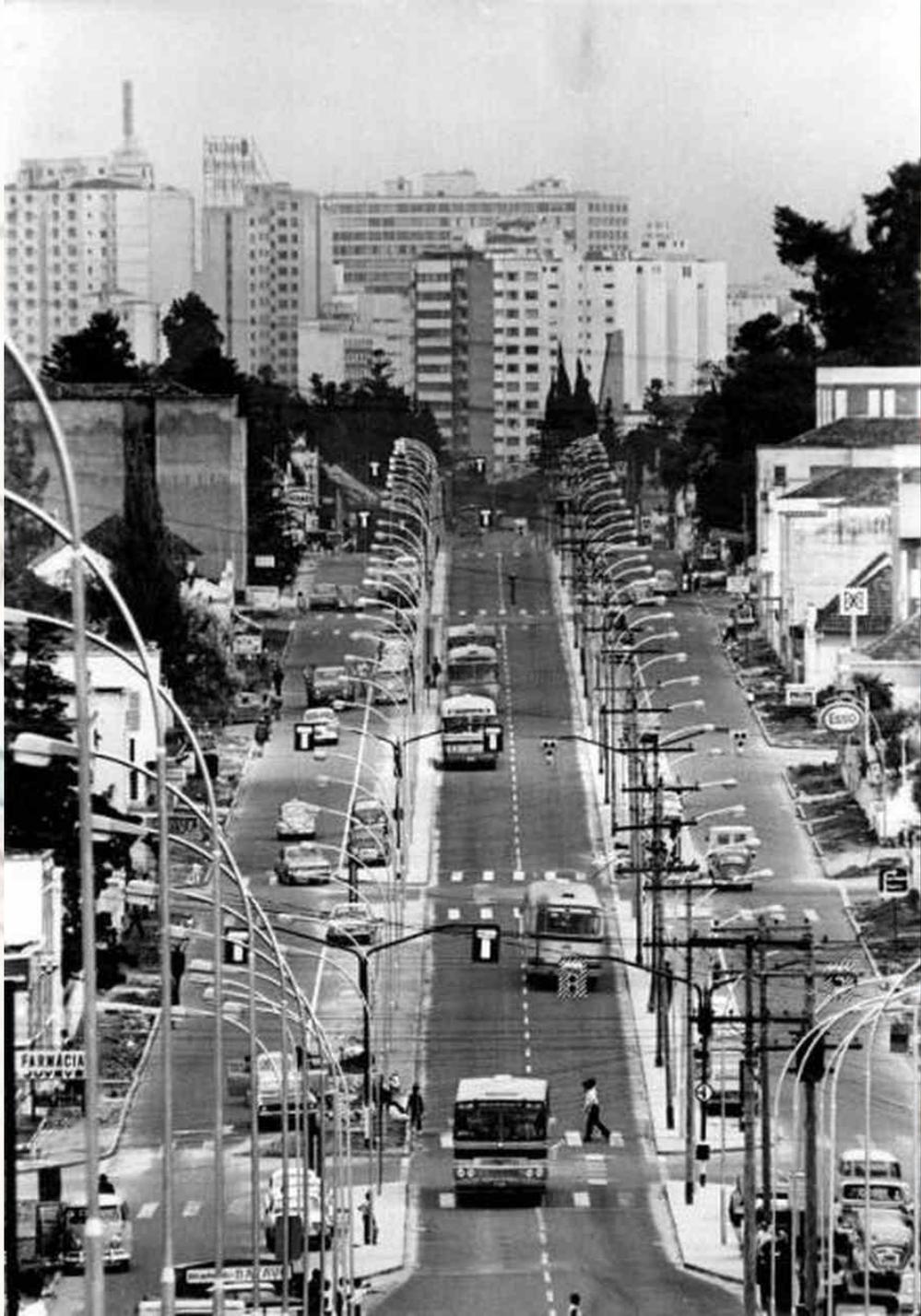




# WHAT IS THE BRT?



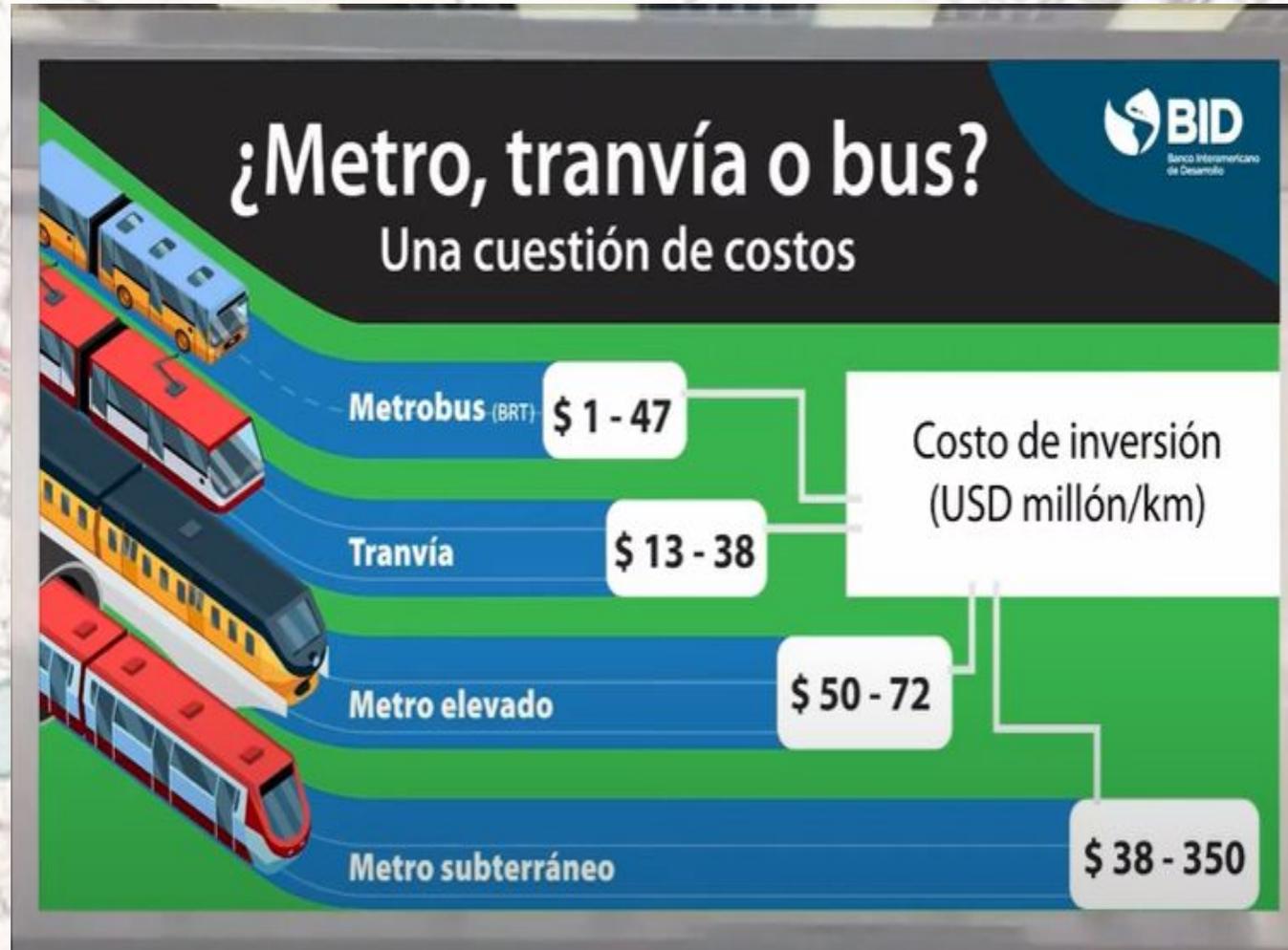
Where did it all begin?



# ADVANTAGES AND DISADVANTAGES

## Advantages

- Lower cost
- Quick implementation
- Flexibility
- Traffic reduction

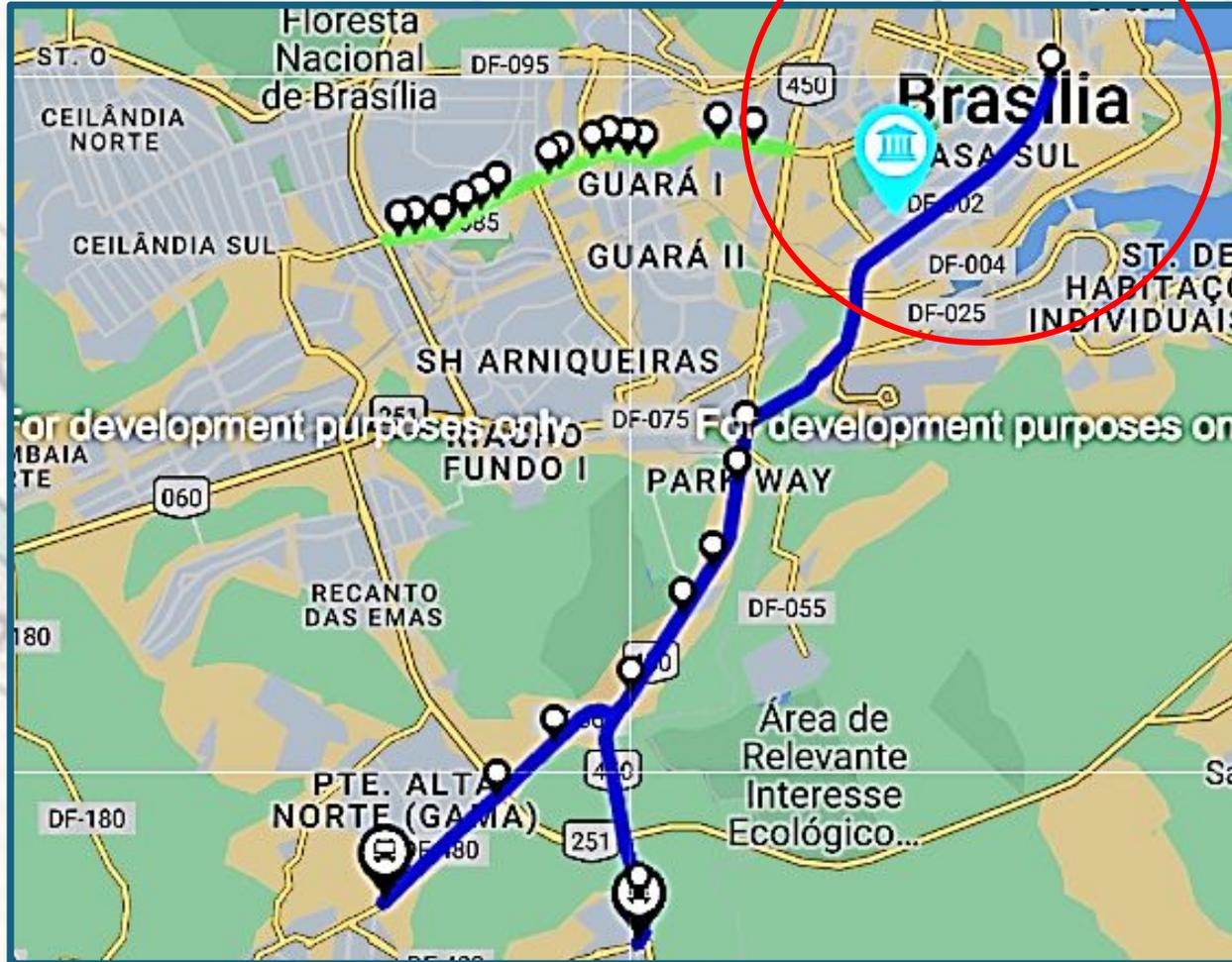


## Disadvantages

- Limited capacity
- Impact on traffic
- Durability
- Pollution

# BRT IN BRASILIA

## LUCIO COSTA'S INTERVENTION



### Brt stats

population: 2.914.830

Passengers per day: **51.000**

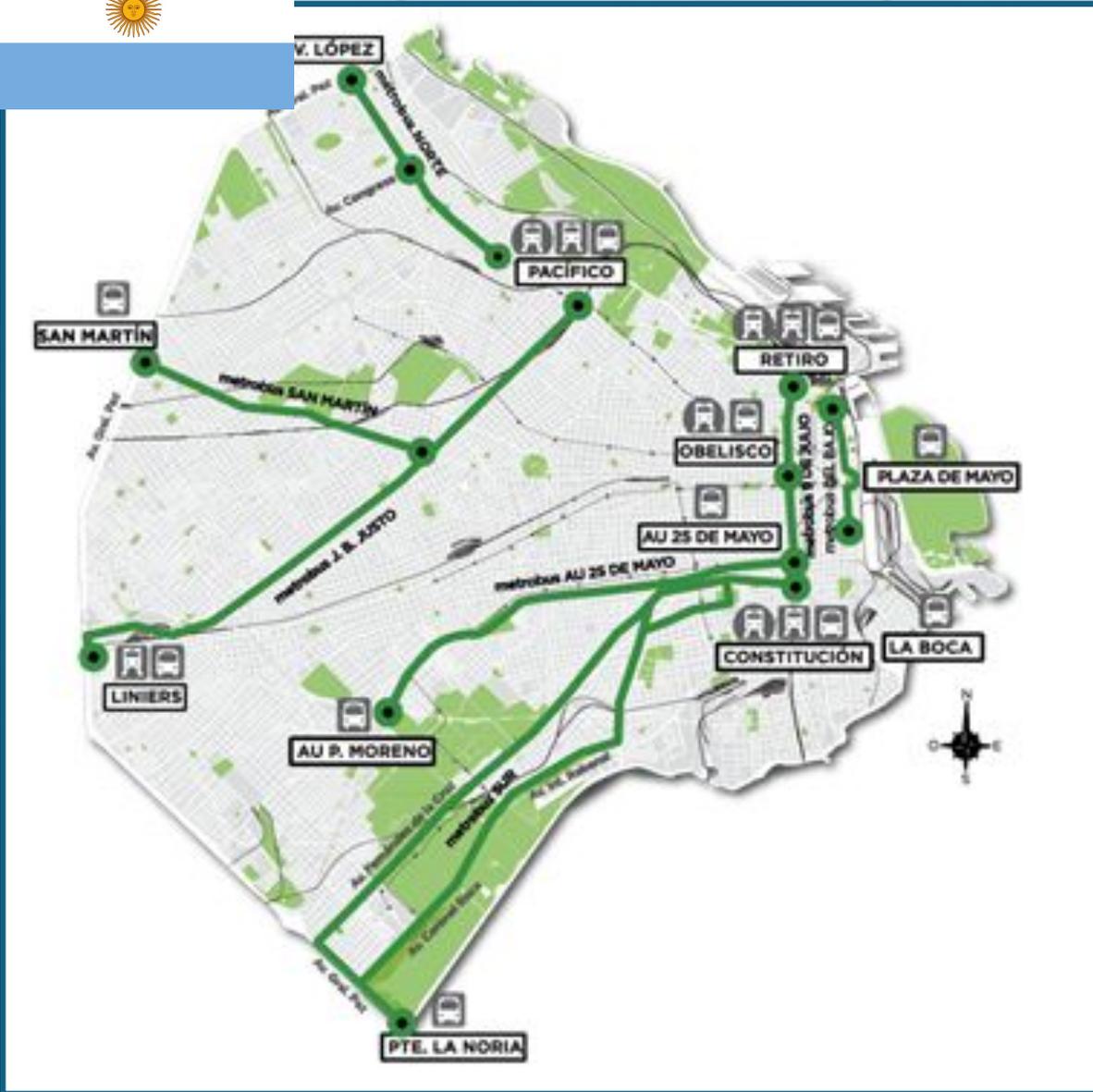
total brt length: **49 km**

# BRT IN SOUTH AMERICA / EUROPE



# BRT IN SOUTH AMERICA

## BUENOS AIRES, ARGENTINA



### Brt stats

population: 3.075.646

Passengers per day: 522.000

total brt length: 62 km

# BRT IN SOUTH AMERICA

## BOGOTÁ, COLOMBIA

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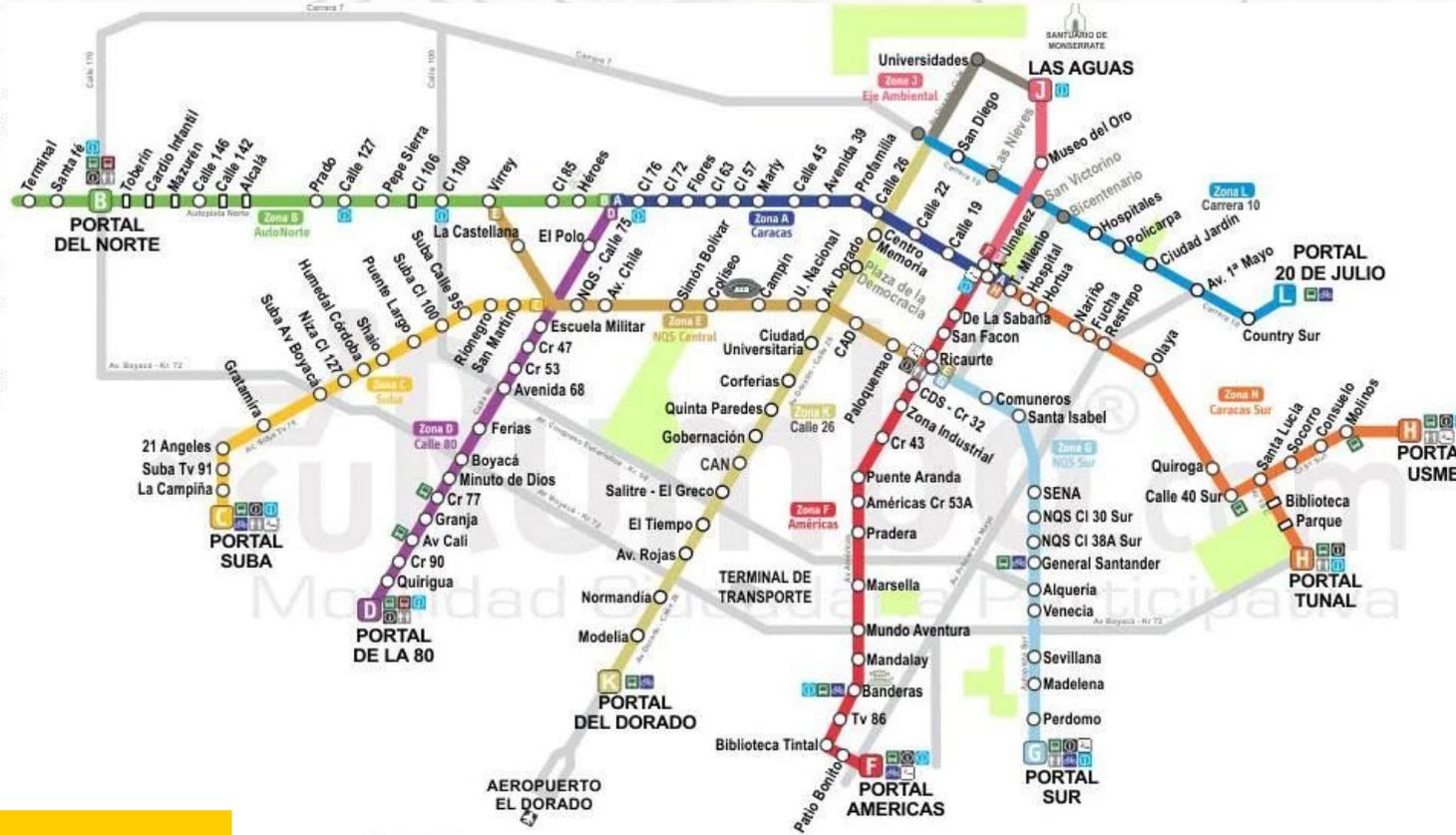


Imagen creada por SURUMBO LTDA. Copyright 2006-2012

### Brt stats

population: 8.181.047

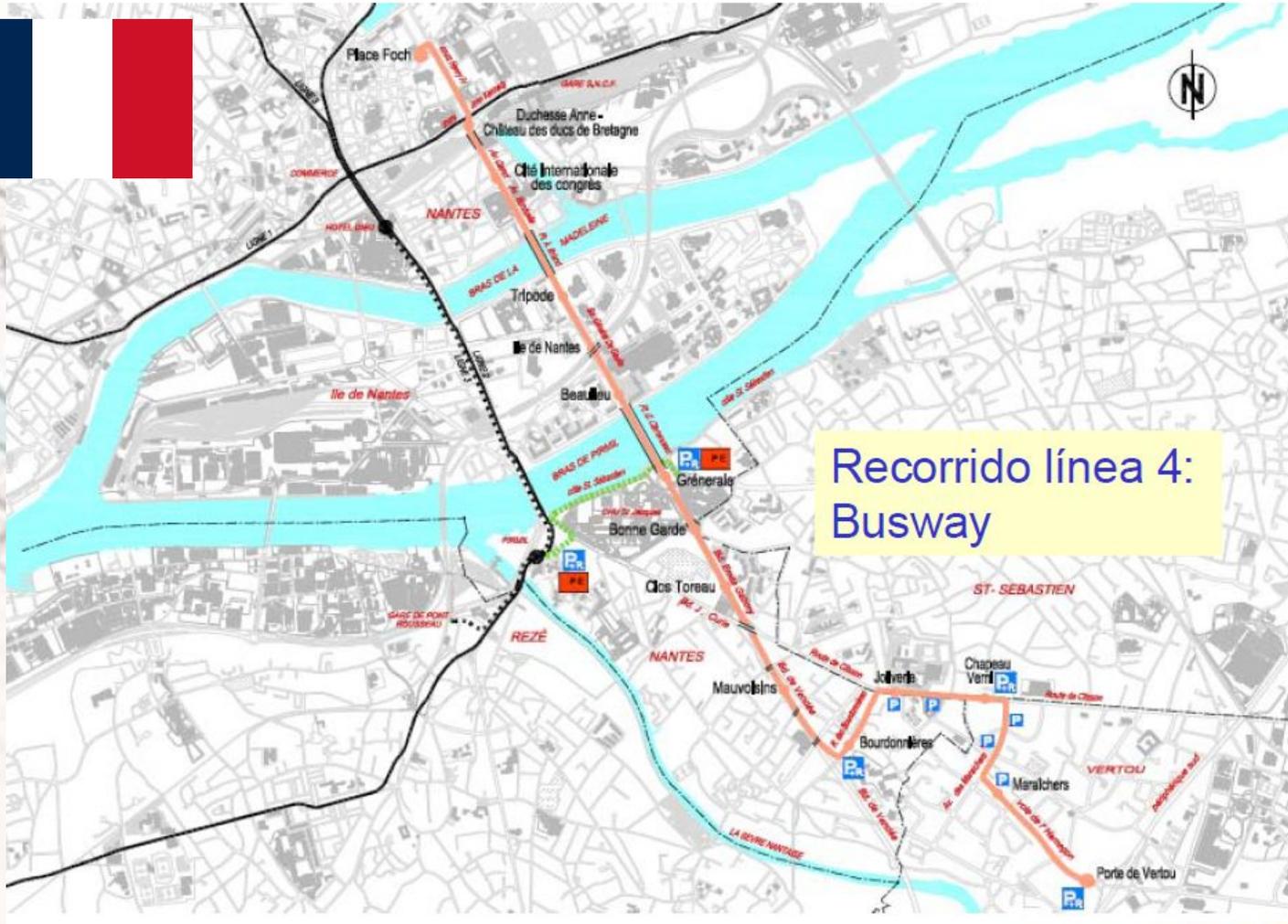
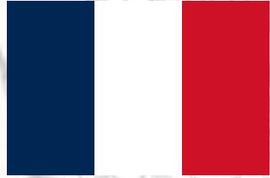
Passengers per day: 1.840.000

total brt length: 114 km



# BRT IN EUROPE

## NANTES, FRANCE

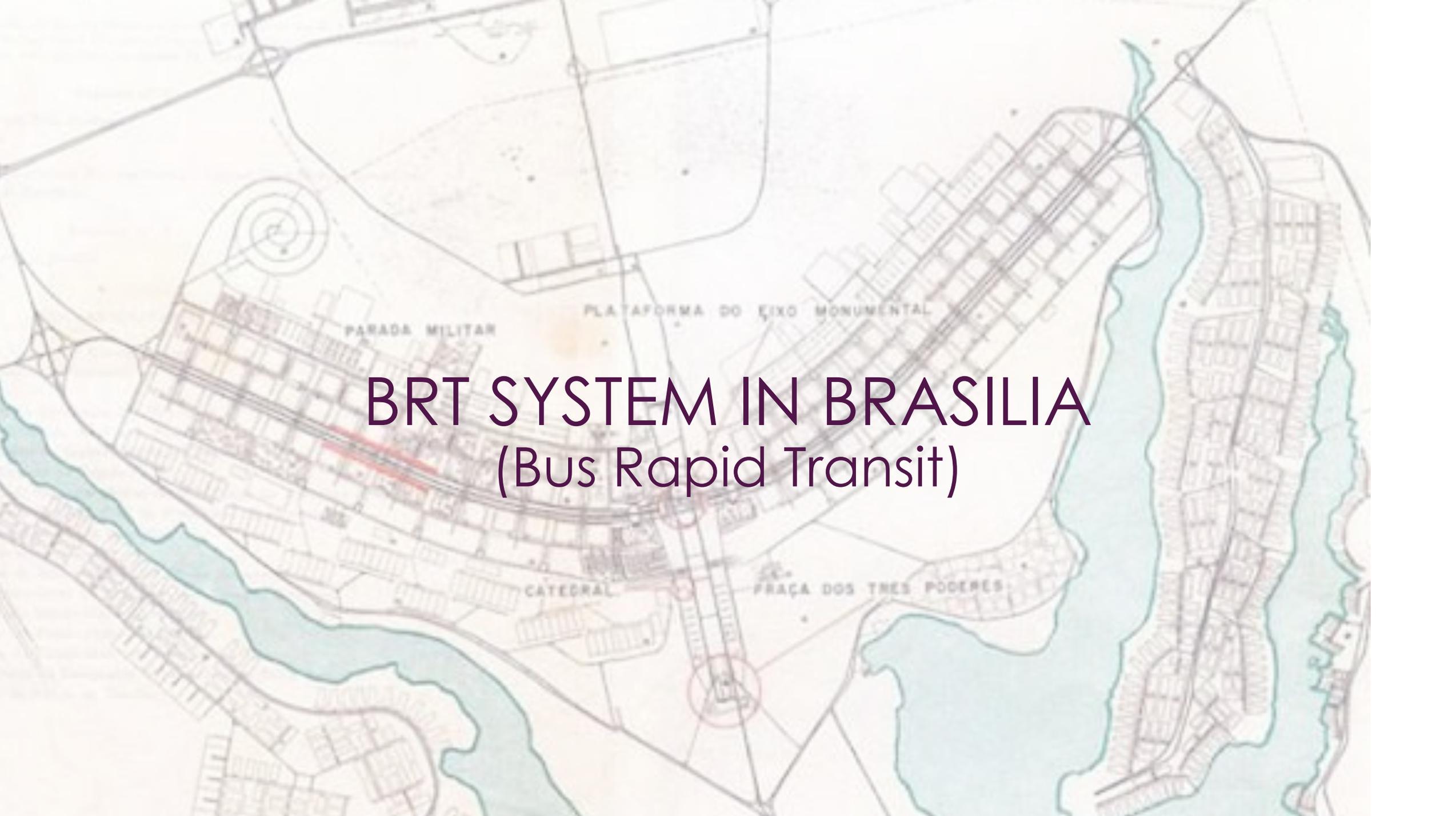


### Brt stats

population: **284.970**

Passengers per day: **47.500**

total brt length: **13 km**

A historical map of Brasília, Brazil, showing the layout of the city and the planned BRT system. The map features a central axis labeled 'EIXO MONUMENTAL' and 'PLATAFORMA DO EIXO MONUMENTAL'. A red line indicates the BRT route, starting from the 'PARADA MILITAR' and extending towards the 'CATEDRAL' and 'PRAÇA DOS TRÊS PODERES'. The map also shows the 'CATEDRAL' and 'PRAÇA DOS TRÊS PODERES' areas, along with a river and various urban blocks.

# BRT SYSTEM IN BRASILIA (Bus Rapid Transit)



## Transporte público en Brasilia df

In some bus stops of Brasilia you can find books and newspapers to read while you wait for the bus

# BIBLIOGRAFIA

- <https://www.brazilbrasil.com/es/destinos-turisticos/brasilia-brasil/medios-de-transporte-en-brasilia/>
- <https://www.youtube.com/watch?v=GE6densl1Y8>
- <https://www.youtube.com/watch?v=nd55k1OXSuK>
- <https://mapasin.org/metrobus-o-brt-un-sistema-de-transporte-publico-que-veno-desde-brasil/>
- <https://www.comsa.com/construccion/comsa-corporacion-inicia-el-brt-en-brasilia/>
- <https://www.o-city.com/es/blog/latin-america-the-king-of-brt>