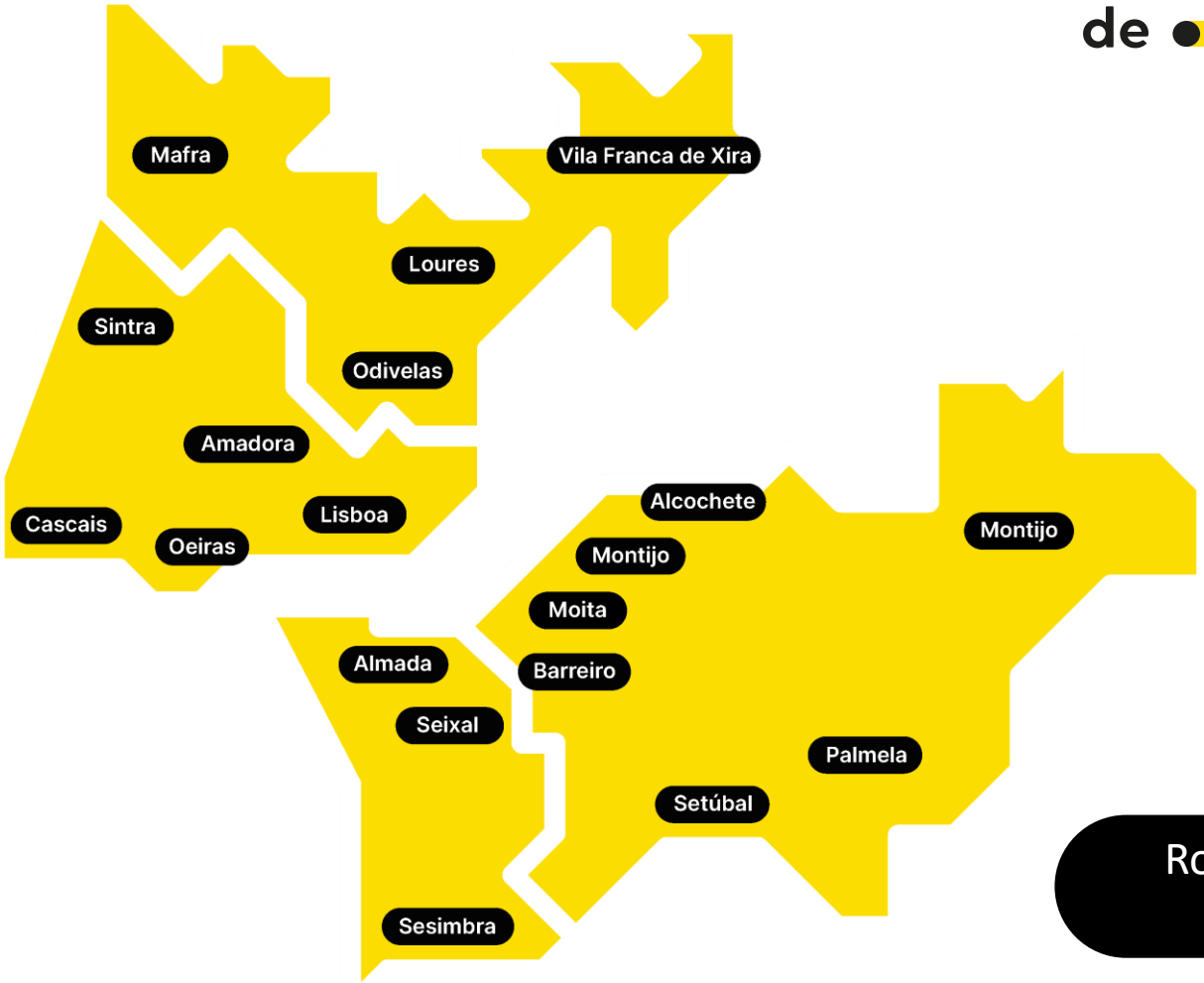
transportes metropolitanos de lisboa

TML | Cohesive Transportation Story

ITS European Congress | Lisbon | 2023.05.24

TML is the road public transport authority of a bus operation that covers @Lisbon's Metropolitan Area

transportes metropolitanos de lisboa



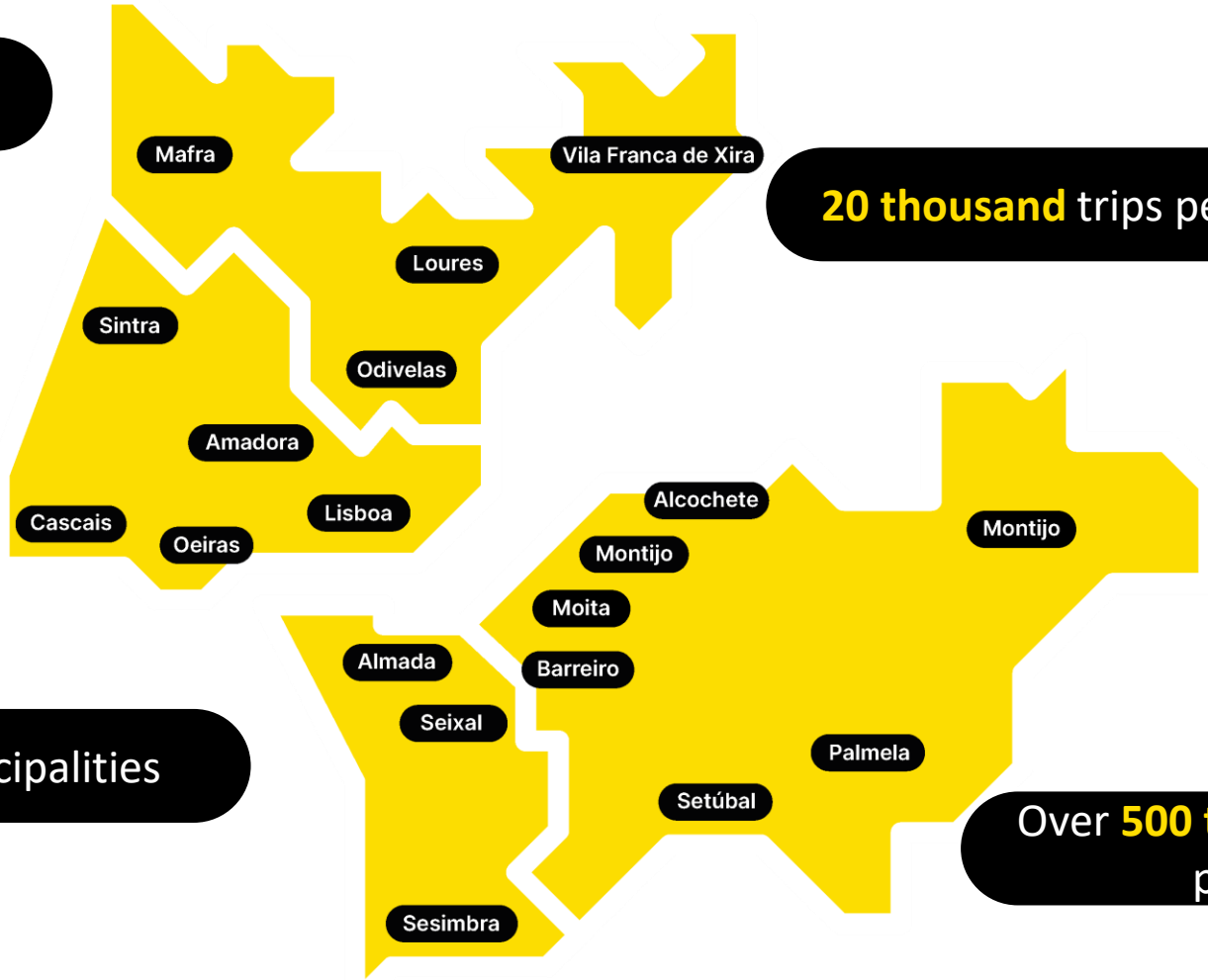
Road public transport authority

carris metropolitana

Over **12 thousand** Stops

Over **700** Lines

18 municipalities

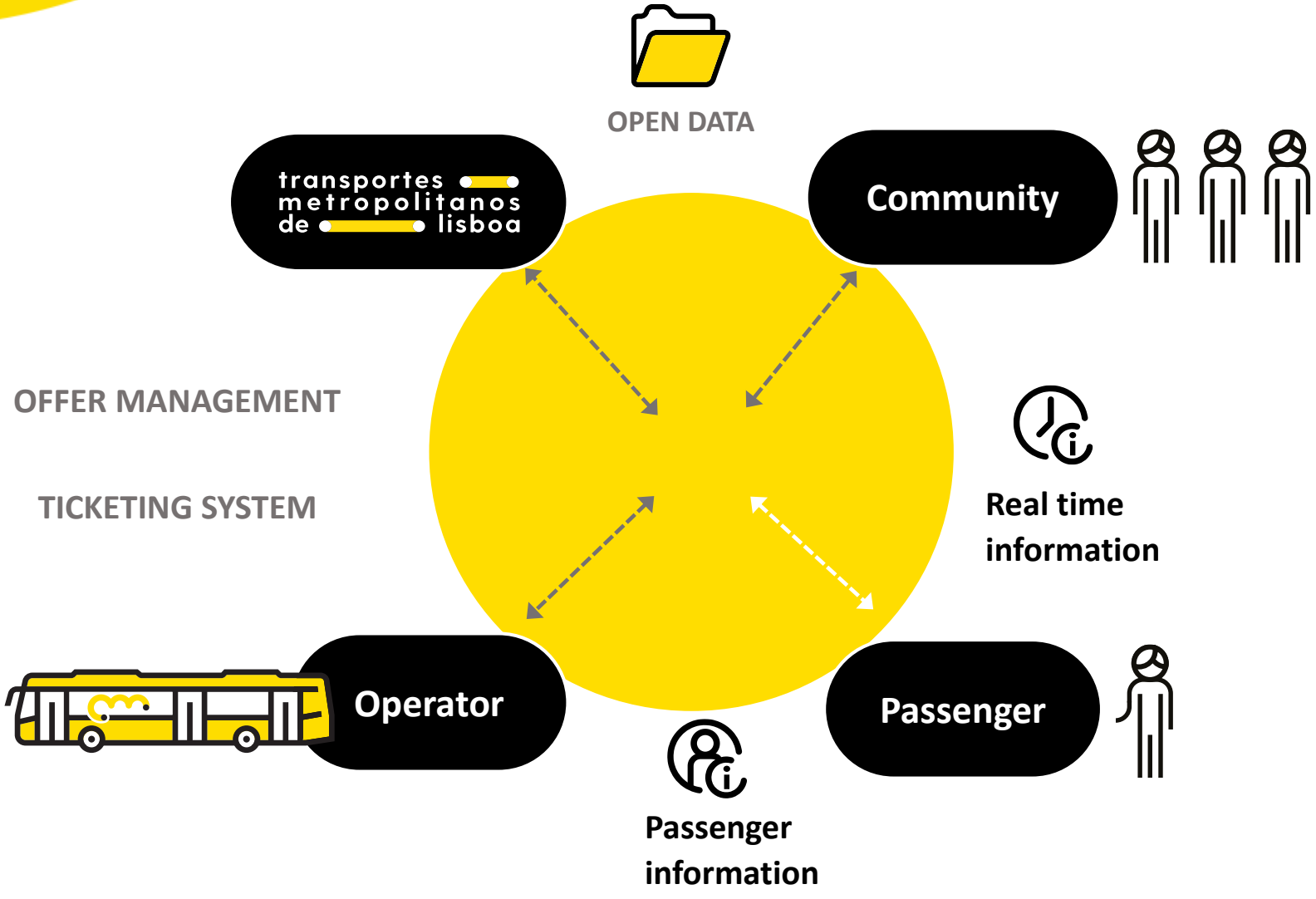


20 thousand trips per weekday

4 Bus Operators

Over **500 thousand** passengers per weekday

Integrated management platform



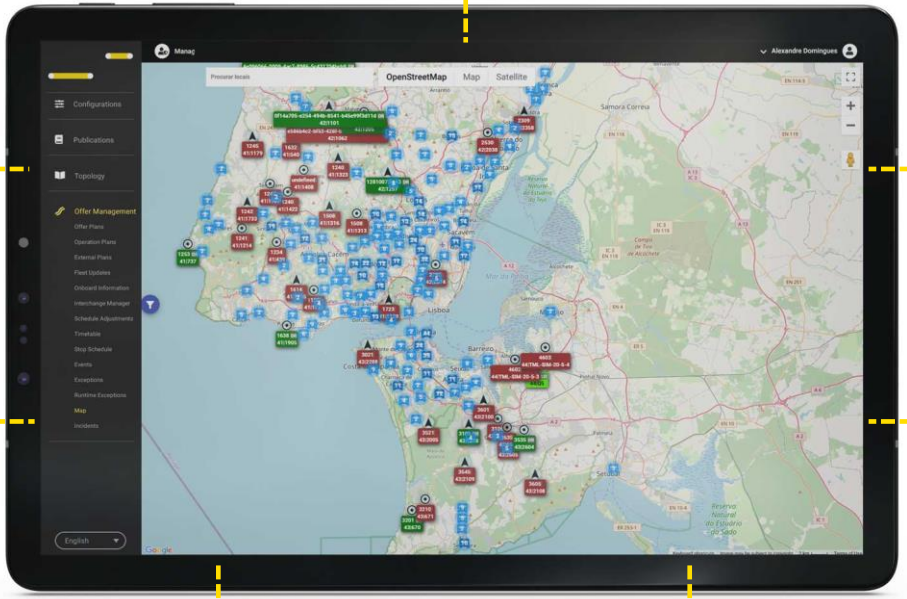
Offer management

Integrated and interconnected information

Routes

Schedules

Vehicle monitoring services



Incident management services

Passenger Information services

Real-time information

Common GIS platform

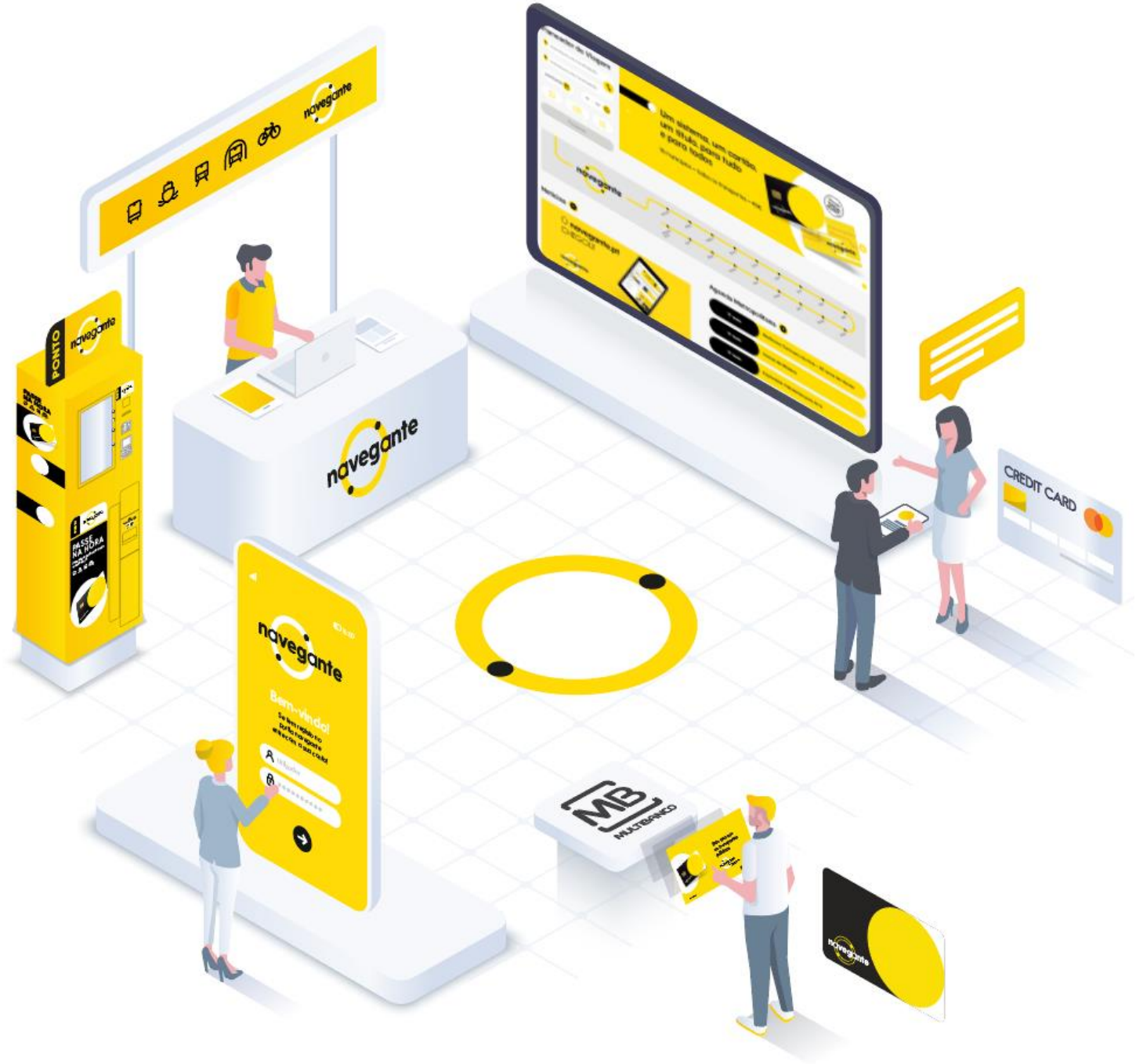
TML is responsible for managing the integrated ticketing system in the Lisbon metropolitan area

Introduce new technologies and elements:

- **Open Loop**

- **Mobile App** and Validation

Focus on **customer satisfaction** and **integration**



our aim is to serve people with integrated and unified services focused on the passenger

transportes metropolitanos de lisboa

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transportes metropolitanos de lisboa

TML| Consistent and predictable public transit

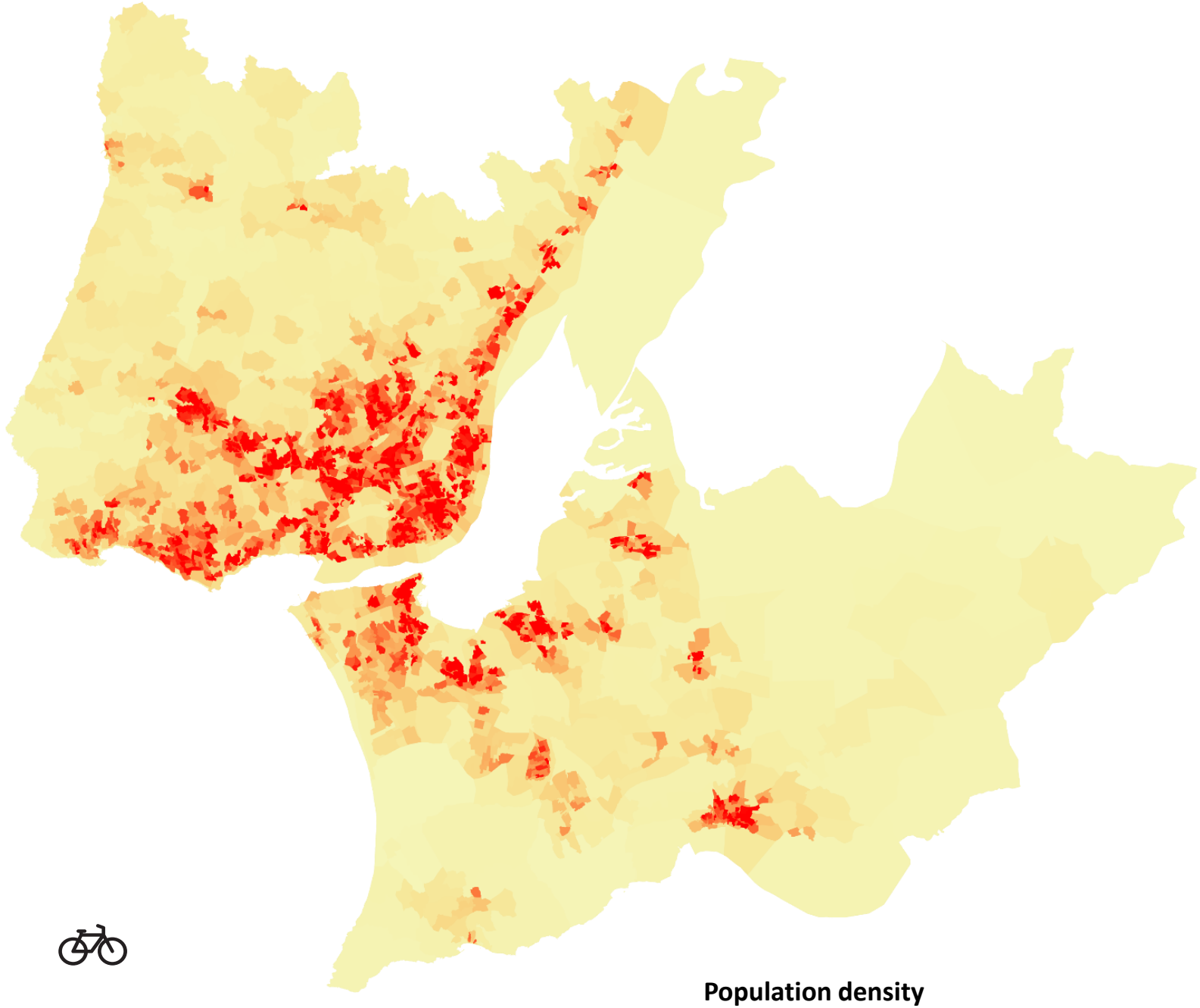
ITS European Congress | Lisbon | 2023.05.24

18 cities

2.870.208 residents

2.542.000 trips/day

6 modes



challenge

How can we evolve in a sector that cannot be exclusively digital?

PIP

Very dynamic information
Almost analogic

Spider Maps

Completly analogic
but very complex to generate

MUPI

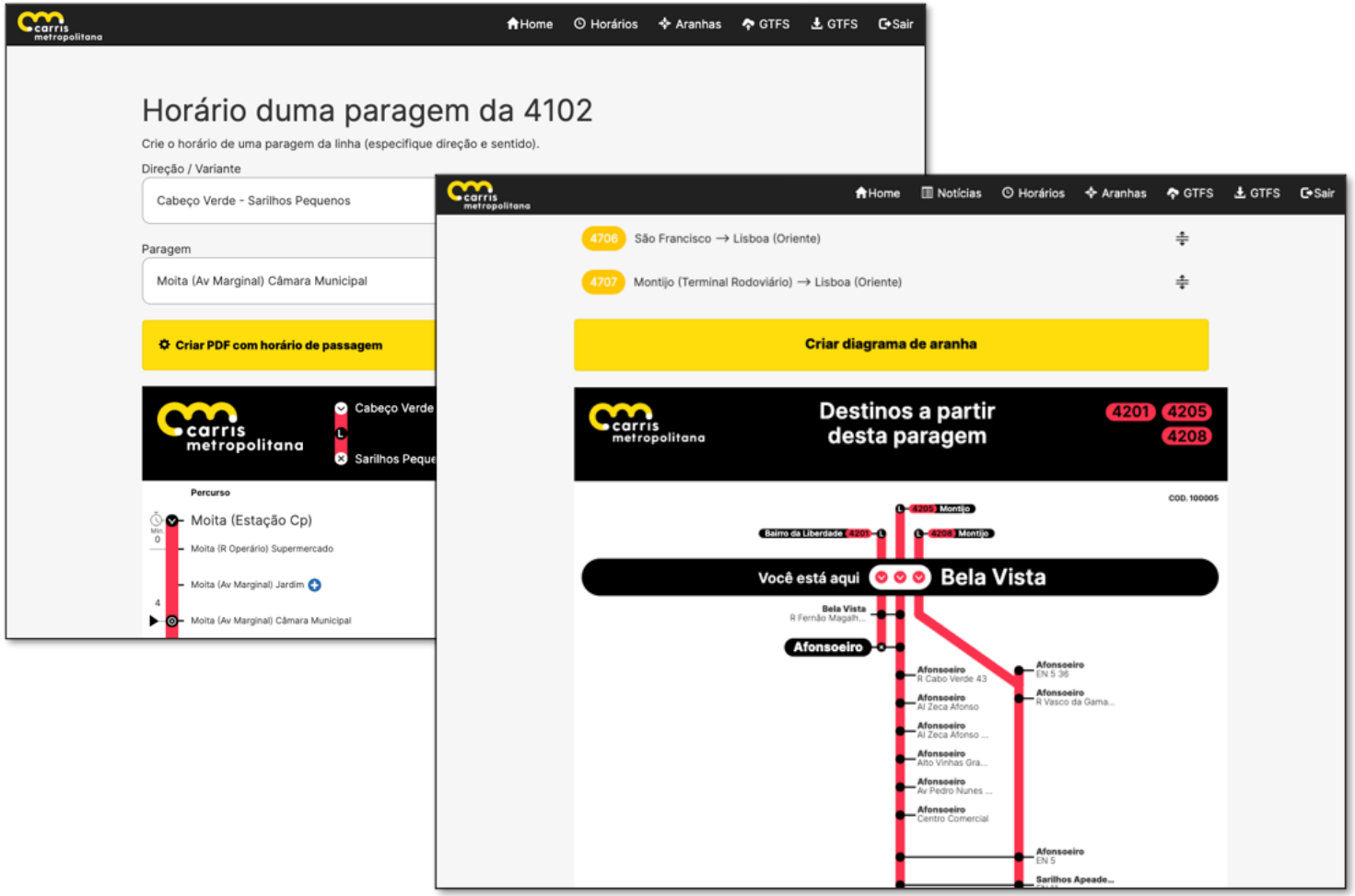
Dynamic and Interactive
Easy for inexperienced users

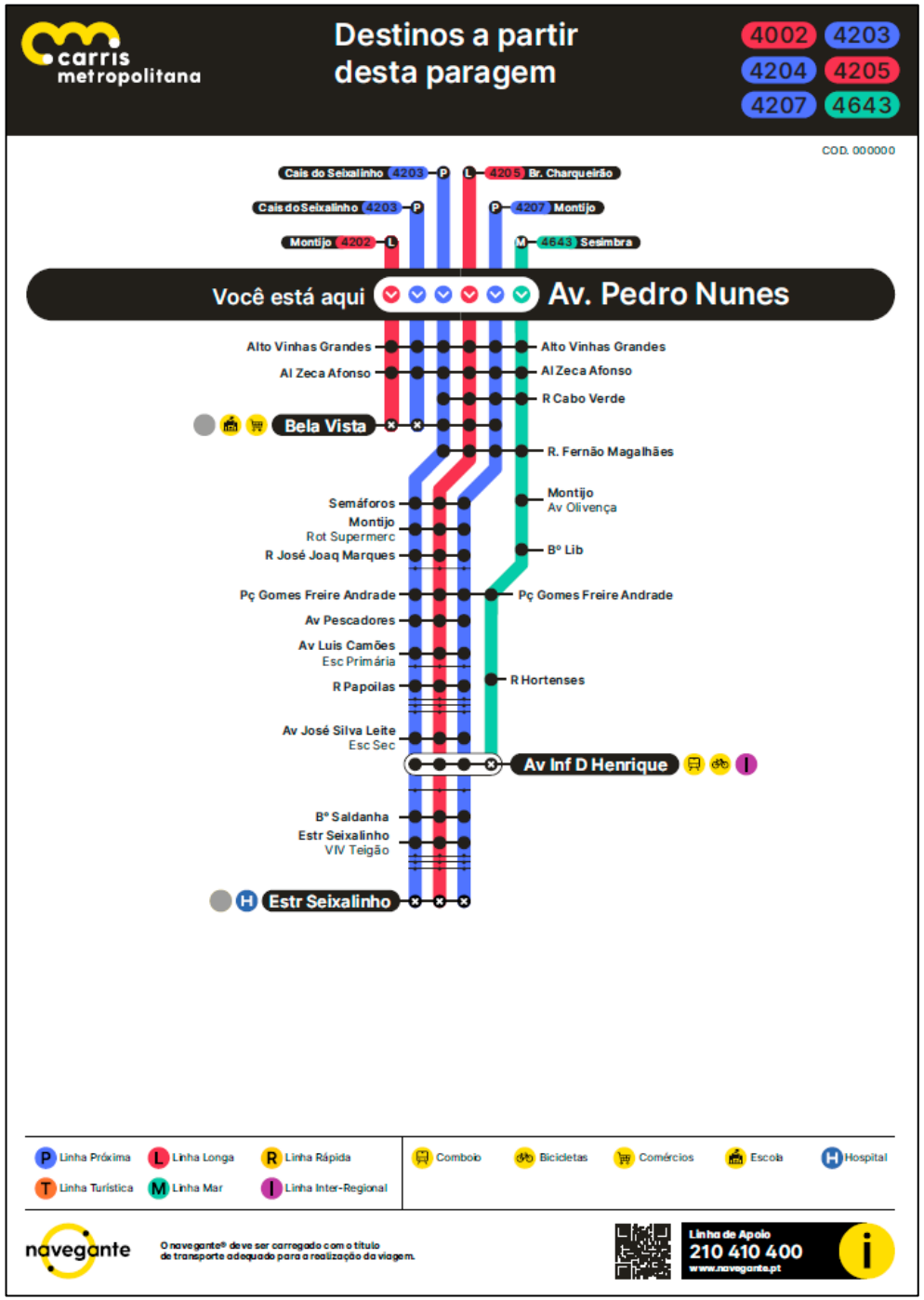
Planners

APP

Dynamic and Interactive
Smartphone generations only

Spider maps


carris metropolitana
Home
Horários
Aranhas
GTFS
GTFS
Sair
Horário duma paragem da 4102
Crie o horário de uma paragem da linha (especifique direção e sentido).
Direção / Variante
Cabeço Verde - Sarilhos Pequenos
Paragem
Moita (Av Marginal) Câmara Municipal
Criar PDF com horário de passagem
Cabeço Verde
Sarilhos Peque
Percurso
Moita (Estação Cp)
Moita (R Operário) Supermercado
Moita (Av Marginal) Jardim
Moita (Av Marginal) Câmara Municipal
Home
Notícias
Horários
Aranhas
GTFS
GTFS
Sair
4706 São Francisco → Lisboa (Oriente)
4707 Montijo (Terminal Rodoviário) → Lisboa (Oriente)
Criar diagrama de aranha
Destinos a partir desta paragem
4201 4205 4208
COD. 100005
Você está aqui
Bela Vista
Afonsoeiro


carris metropolitana
Destinos a partir desta paragem
4002 4203 4204 4205 4207 4643
COD. 000000
Cais do Seixalinho 4203
4205 Br. Charqueirão
Cais do Seixalinho 4203
4207 Montijo
Montijo 4202
4643 Sesimbra
Você está aqui
Av. Pedro Nunes
Alto Vinhas Grandes
Al Zeca Afonso
R Cabo Verde
Bela Vista
R. Fernão Magalhães
Semáforos
Montijo
Rot Supermerc
R José Joaq Marques
Montijo
Av Olivença
Bº Lib
Pç Gomes Freire Andrade
Av Pescadores
Av Luis Camões
Esc Primária
R Papoilas
R Hortenses
Av José Silva Leite
Esc Sec
Av Inf D Henrique
Bº Saldanha
Estr Seixalinho
VIV Teigão
Estr Seixalinho
Linha Próxima
Linha Longa
Linha Rápida
Comboio
Bicicletas
Comércios
Escola
Hospital
Linha Turística
Linha Mar
Linha Inter-Regional
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320

outdoor panels across 18 cities

31-inch e-paper panel

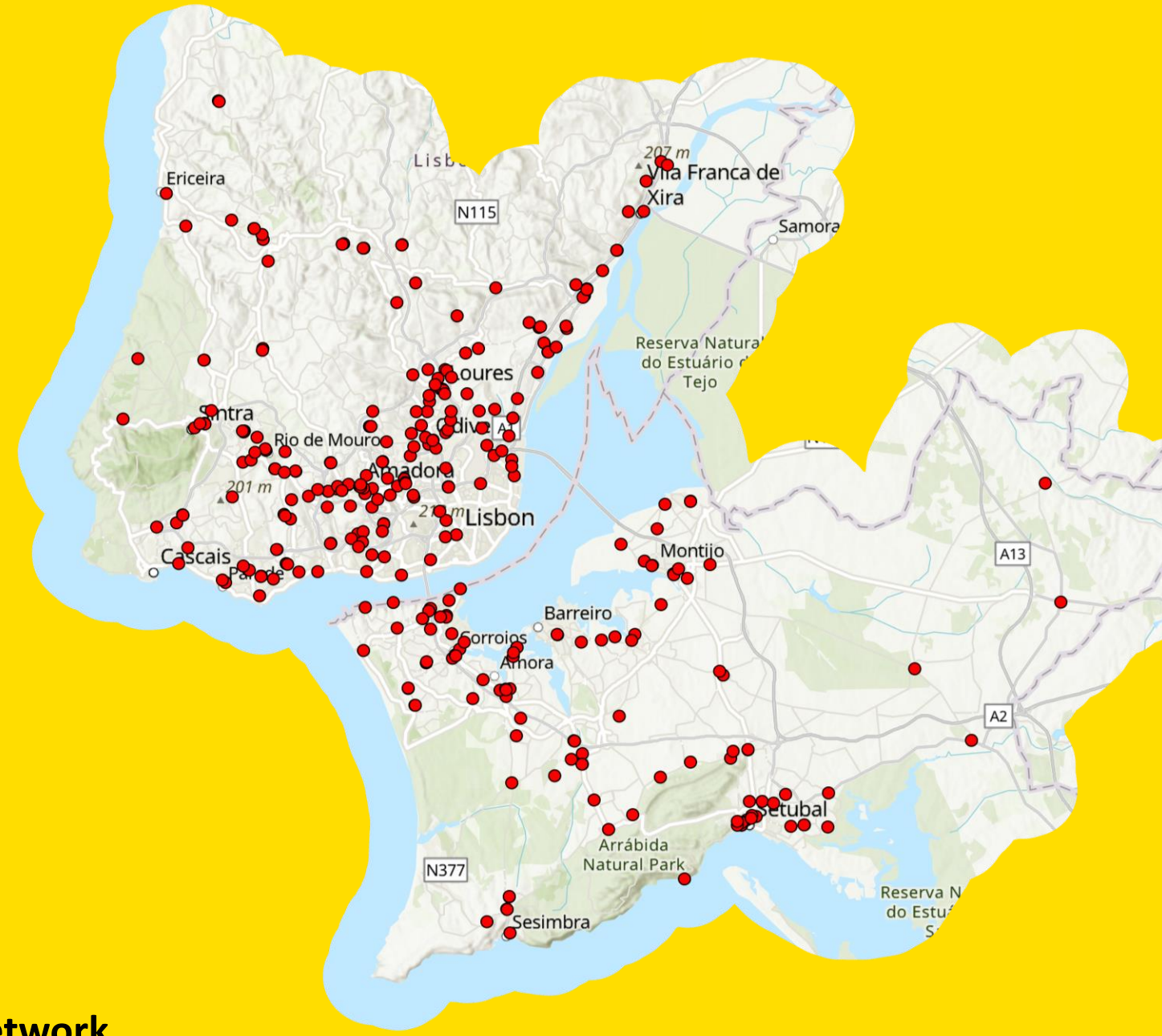
High contrast and low maintenance

Powered by a 90W solar panel

Self sustainable and location independent

Connected via 4G

Our digital connection to each stop in the network



EQUAL ACCESS TO UP-TO-DATE INFORMAITON

Real-time Information both in urban and rural areas

Mupis

Interactive

Information Dense (network)

A few target many people
(intermodal connections)

Versatile but higher cost

Pannels

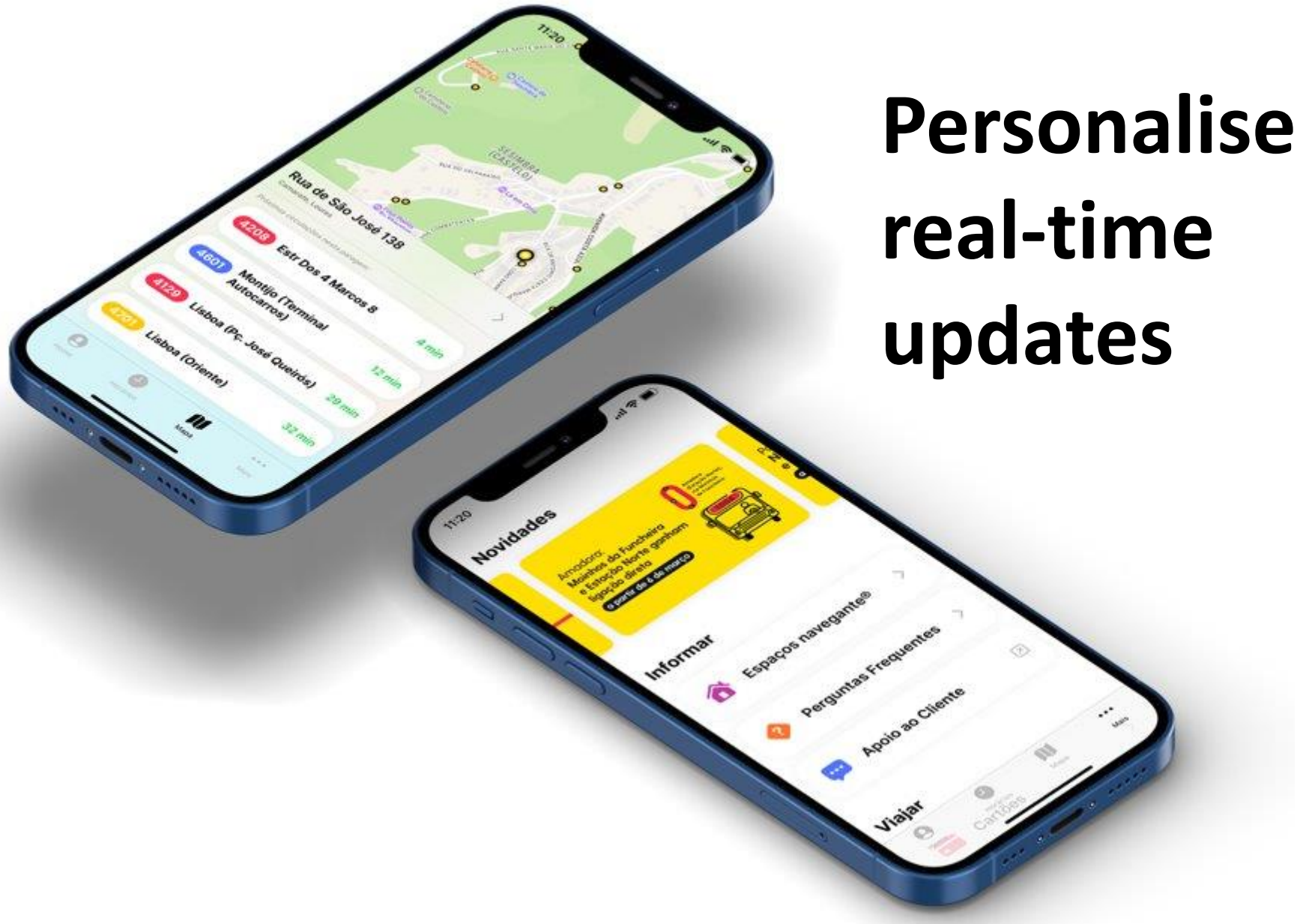
Non-interactive

Specific Information (stop)

Available even in remote areas
(rural stops)

Simple but lower cost

Personalised real-time updates



OUR GOAL:

A **unified transit system**
where real time information
is easily accessible
to every type of user

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