
XVI CAT
Funchal, 23 - 28 Novembro
A Introdução de Veículos Autónomos Partilhados Em Zonas Urbanas
António Reis Pereira

ITF work on Shared Mobility

How can cities reduce the negative impacts of car traffic without reducing the mobility of their citizens? Can air pollution, congestion, CO2 emissions or the use of public space be limited while enhancing people's access to jobs, shops, health services or educational institutions? ITF's work on shared mobility explores workable answers to these questions.

This work starts from the observation that the car today is a spectacularly under-used asset. The average privately-owned car operates less than one hour per day and carries an average of 1.5 passengers or less. Improving the use of existing capacity through car sharing and ride sharing could potentially reduce the number of total kilometres driven. Digital technology offers effective possibilities to match demand for travel and supply of rides, so that shared travel must not mean people will be less flexible.

In its now-famous "Lisbon Study", ITF researchers in 2015 examined a "what if" scenario: What if all private cars in a city were replaced by shared vehicles? Using real mobility data from a real city (Lisbon, Portugal) they built a highly detailed computer model of mobility in that city. They then removed all private car trips and replaced them with trips in shared vehicles, testing different configurations including self-driving shared vehicles, electric vehicles, 6-seater Shared Taxis and 8- and 16-seater "Taxi-Buses". The results were stunning: In the shared mobility city, only 10% or less of the number of vehicles were needed to get citizens where they wanted when they wanted. Congestion disappeared, CO2 emissions fell by one third and on-street parking space was no longer needed.

EXEMPLO DE CONCEITOS IDENTIFICADOS EM PHOENIX

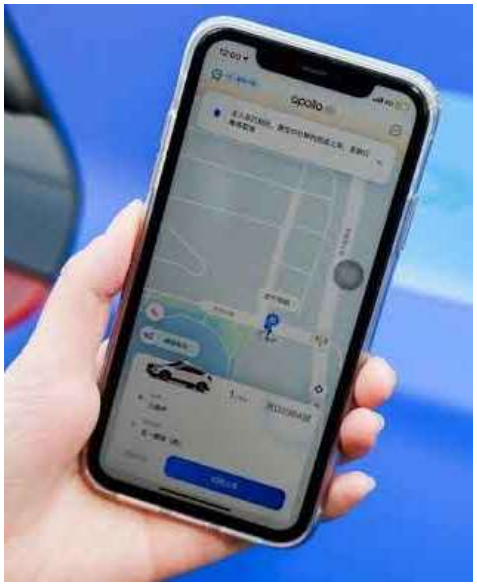
Automaker
Model
Autonomy
Mobility service provider
Fleet
Hardware
Software
Obstacles approach
Mapping
Simulator
Data
Server
Cloud
E-Mobility
Where
Local Authority
Type of service
Customers
Pricing
Client interface
Customer's feedback
Customer Perks
Pickup & drop-off
Emergency
Parking & Physical Vehicle Support
Internet service providers
Insurance Provider
Cybersecurity
Safety
Law

Veículo

Seguros

Clientes

Tecnologia AV



Rede

Promotor

Parking e Infreaestrutura física

Legal

1900 New York 5th avenue

1913 New York 5th avenue

2023 – 13 anos = 2010

2010-01-08
Casamento homossexual aprovado na AR

2010-02-20
Calamidade na Ilha da Madeira

2010-05-12
Visita de Bento XVI a Portugal

2010-06-18
Morte de José Saramago

2010-09-03
Leitura do acórdão da Casa Pia

2010-11-19
José Sócrates recebe Barack Obama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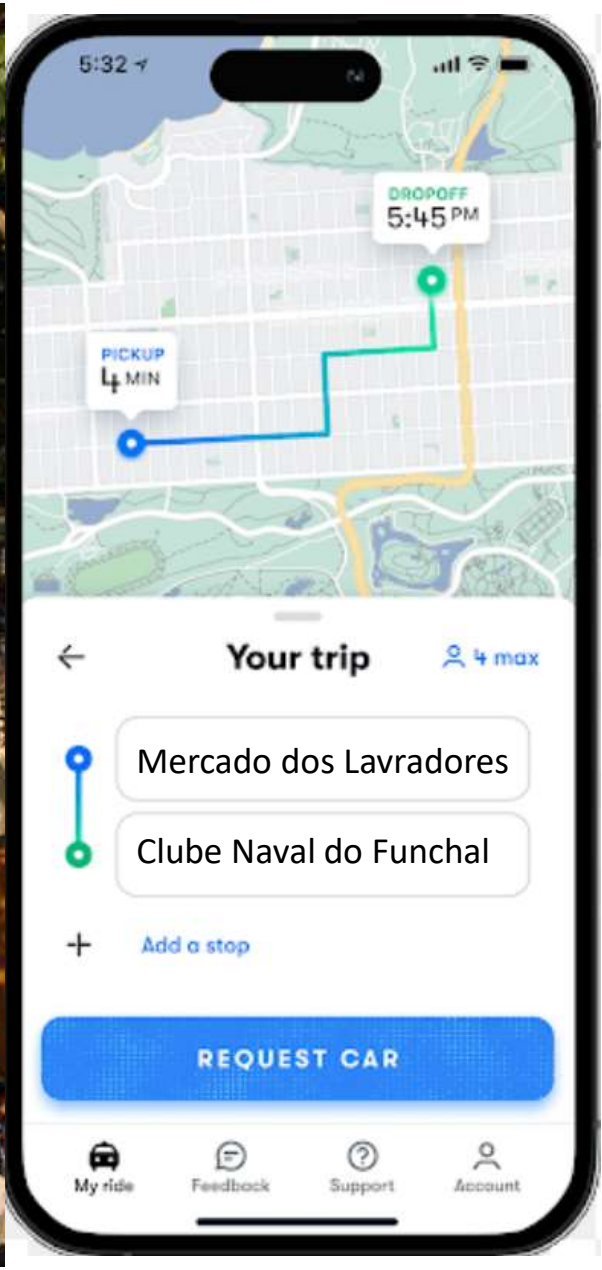
5:32
DROPOFF
5:45 PM
PICKUP
4 MIN
Your trip
4 max
Mercado dos Lavradores
Clube Naval do Funchal
Add a stop
REQUEST CAR
My ride
Feedback
Support
Account