### H2020 Transport 2016 call



## **Ecological Transition Tool in Lisbon**and PT operator

**Portugal** 







### Ecological Transition Tool in Lisbon and PT operator

- Carlos Gaivoto <u>carlos.gaivoto@carris.pt</u>
- "Transportes de Lisboa", Urban Integrated PT operator
- www.transporteslisboa.pt
- Planning Department in Development Network Board
- Modelisation and Simulation on PT Network and Services Scenarios

Indicators	Lisbon Metropolitan Area	Lisbon (city)
Area (km²)	3.015,2	100,1
Population	2.807.525	511.667
Jobs	1.089.057	419.429
Commute journeys (home-work and home-school)	1.673.592	304.835
Motorisation rate (Vehicles / 1000 Inhabitants)	475	583





### Ecological Transition Tool in Lisbon Proposal MULTIMODAL-BASED CITY

and PT operator

How to evolve from Intermodal or Multimodal transportation system?

### Compact urban areas

Karlsruhe (Tram-Train)
Strasbourg (Tram-Train)
Mulhouse (Tram-Train)
Twentee or Almeere (BHLS)
Dresden (Cargo Tram and Tram)
Fribourg (Cargo Tram??)
Praha; Budapest

Multimodal approach

### Dispersed urban areas

Manchester (TT+QBS)
Bordeaux (Tram-Train)
Nantes, Barcelona (BHLS+ TT)
Lyon (Tram-Train)
Aveiro (walkability+cycling)
Porto (Tram-Train)
Sheffield, Coimbra, Stuttgart

### Intermodal approach

But, can these cities to evolve to a multimodal approach?

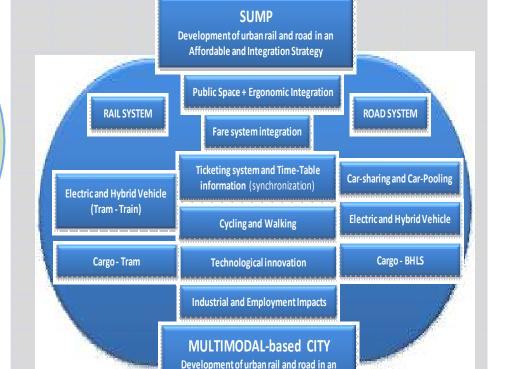


### **Proposal**

Acronym: **MULTIMODAL** Cities

Meaning: <u>Multi Use Land with Transit Intelligent MODes for All Livable cities or</u>

<u>M</u>ulti Use <u>L</u>and and <u>T</u>ransit <u>I</u>ntelligent <u>MO</u>des for <u>Develop <u>All Livable</u> city</u>



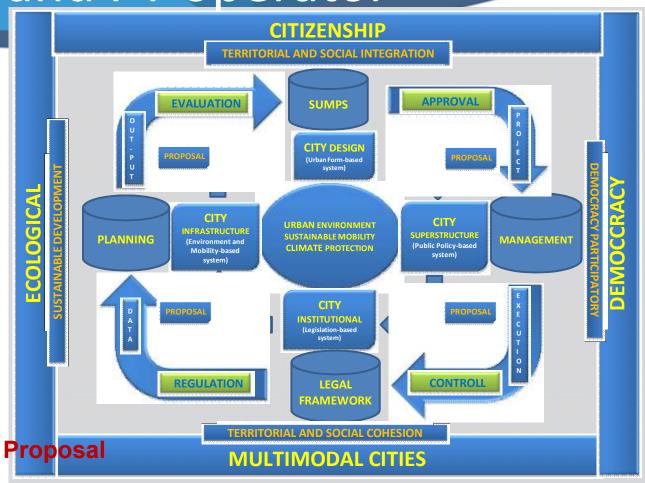
Affordable and Integration Strategy



Ecological Transition Tool in Lisbon and PT operator

STAKEHOLDERS?
PROJECT DEFINITION?
WHICH CITIES?
OUTLINES?
NEXT MEETING?
IS IT POSSIBLE?
YES, IT IS!





Acronym: MULTIMODAL Cities

Meaning: <u>Multi Use Land with Transit Intelligent MODes for All Livable cities or</u>

Multi Use Land and Transit Intelligent MOdes for Develop All Livable city



### Ecological Transition Tool in Lisbon and PT operator

**Proposal** MULTIMODAL-BASED CITY with Hybrid Network and Mode

### Passenger mobility (sub-projects) — to select

Mobility management and travel awareness + Collective passenger transport + Demand management strategies

### To select consortium with Cities, Universities and Operators



? (KVV, GEMPT, PMA, LMA, STIF, IST, IFFSTAR) ?

• **Technological innovation** rolling stock/energy/safety/ affordability

? (IST/UNL, IFSTAR, KVV, ITAS, CDV) ?

Evaluation of TOD Corridor/Network ? (IST, LET, KVV, ISEL...) ?

• Cycling and Walking ? (UA, Nantes, Fribourg, KVV...)?

• Public Space + Ergonomic Integration ?(Aveiro, UA, GEMPT, KVV...) ?

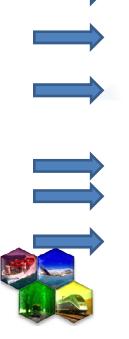
• Fare system integration ? (IST, LET, AMTP, KVV, CRTM...) ?

• Ticketing system and Real-Time information ? (KVV, EMTA, CTRM, IST, GEMPT...) ?

•SUMP guidebook? (CERTU, GART, VDV, IFFSTAR, IST, ISEL, FEUP)?

Decision-making process assessment? (LEEDS, IST, LET, CDV, KVV, GEMPT, IFSTAR)?





# Ecological Transition Tool in Lisbon and PT operator The dual mode vehicle

Multimodal transportation system?
Yes, with Hybrid Modes!

Mobility for Growth

**Green Vehicles** 

Fast Track Innovation for Transport





**CONTACTS:** 

carlos.gaivoto@carris.pt luis.arega.lopes@metrolisboa.pt

**Obrigado!** 



