Cidades e Comunidades Inteligentes: Oportunidades de Financiamento no H2020
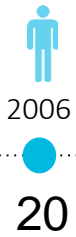
Horizon 2020 Lighthouse Project

"SHARLLM" Sharing Cities

CEiiA

CEiiA: Processo de Crescimento

2006
20

Desenvolvimento de capacidades de engenharia no desenvolvimento de projetos na indústria automóvel.

2009
79

Serviços de engenharia para a indústria automóvel.

2012
150

Desenvolvimento de produtos próprios para a indústria da mobilidade.

2015
230

(…)

ENJOY

BUDDY

AW

UAV

MOBILIDADE

AERONÁUTICA

PROTÓTIPOS E PRE-SÉRIES

O primeiro sistema de gestão e monitorização em tempo real de mobilidade e energia para cidades.

ONE OF THE
BEST CLOUD
SERVICE
2014

With a Strong & Clear Vision

Our vision is of a more agile and more collaborative smart cities market that dramatically increases the speed and scale at which we implement smart solutions across European cities.

Society will engage in new ways causing them to play an active role in the transformation of their communities – delivering more vibrant, liveable, economically active, and resource efficient cities.

Underpinning this are shared solutions that apply a 'digital first' approach;
are more common, integrated, open;
and provide the 'building blocks' incorporating European and worldwide leading practices that can be deployed at scale, yet tailored to cities of different size and stage of development.

This is a vision where Sharing Cities, in collaboration with other like-minded parties, is instrumental in 'creating the movement' that makes a profound and sustained difference.
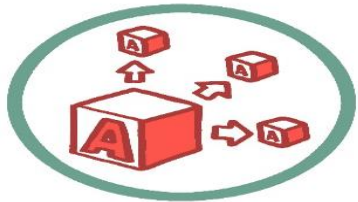
To Collectively Address
10 Audacious Goals

1) Aggregate demand & achieve wide scale deployment of smart city solutions

2) **Deliver highly relevant, common and replicable innovative solutions**

3) Attract quantum external investment

4) **Make acceleration in uptake of smart solutions real**
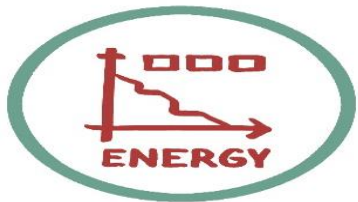
5) Deliver three role-model low energy efficient Districts

6) Shift the thinking irreversibly to De-carbonised / Local Renewables

7) **Shift thinking irreversibly to new models of eMobility in the Districts**

8) Make real the notion of citizen participation

9) **Exploit 'city data' to genuinely prove its value**

10) Strengthen local scale-up businesses in (at least) the three cities

Fator de sucesso #1: Objetivos globais ambiciosos, mas realistas

The conceptual and the detailed programme models

SHARLLM: H2020 Lighthouse Work Programme
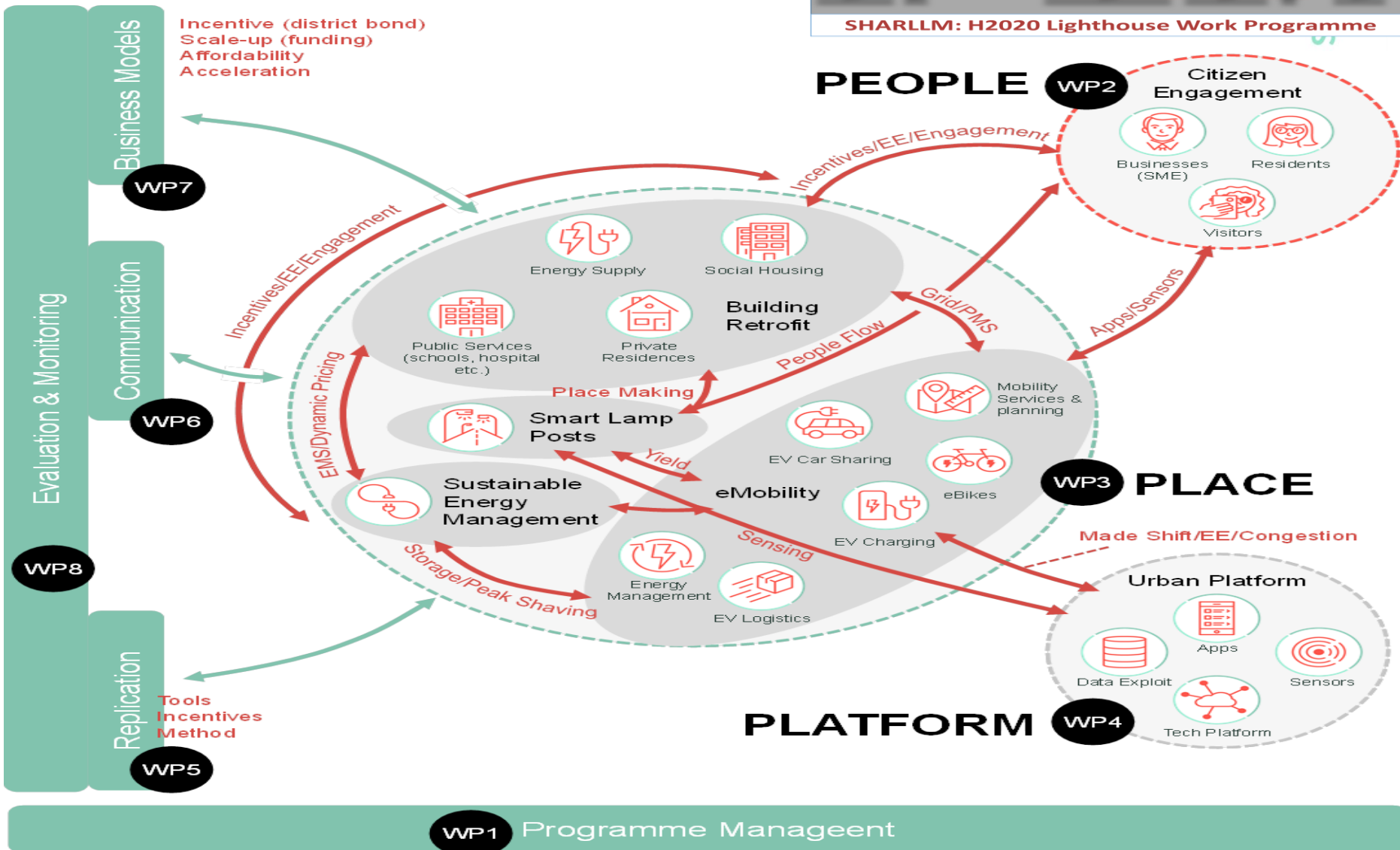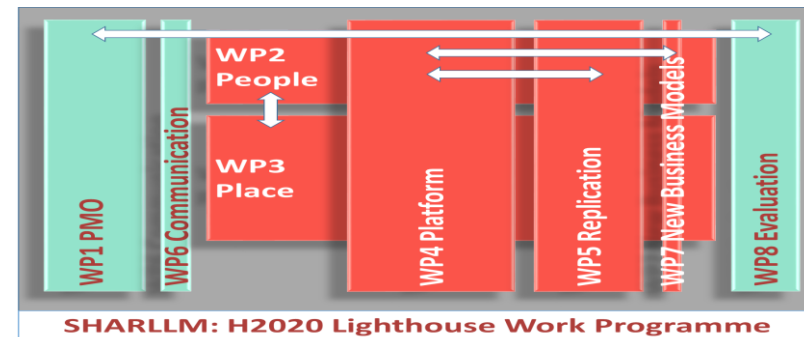
With a World Class Consortium Bringing Best-of-Breed & Scale Partners

CONSORTIUM
VIRTUAL PMO +
DESIGN AUTHORITY
CORE CITIES:
London, Lisbon, Milan
FOLLOWERS:
Bordeaux, Burgas, Warsaw
+ scale-ups

LONDON
LISBON
Bordeaux
MILAN
Warsaw
Burgas

3 LEAD CITIES
3 FOLLOWERS
20-35 SCALE UP CITIES
6 TRANSVERSAL PARTNERS
20+ DEVELOPMENT PARTNERS

CONCIRRUS
PT INOV
PLATFORM
URBANDNA
MASTADONC
LONDON
IMPERIAL
BORDEAUX
BURGAS
SIEMENS
EVALUATION
LISBON
MILAN
EUROCITIES
WARSAW
GLA
FCC
PEOPLE
LEGAMBIENTE
PLACE

MENS
TEICOS
NH
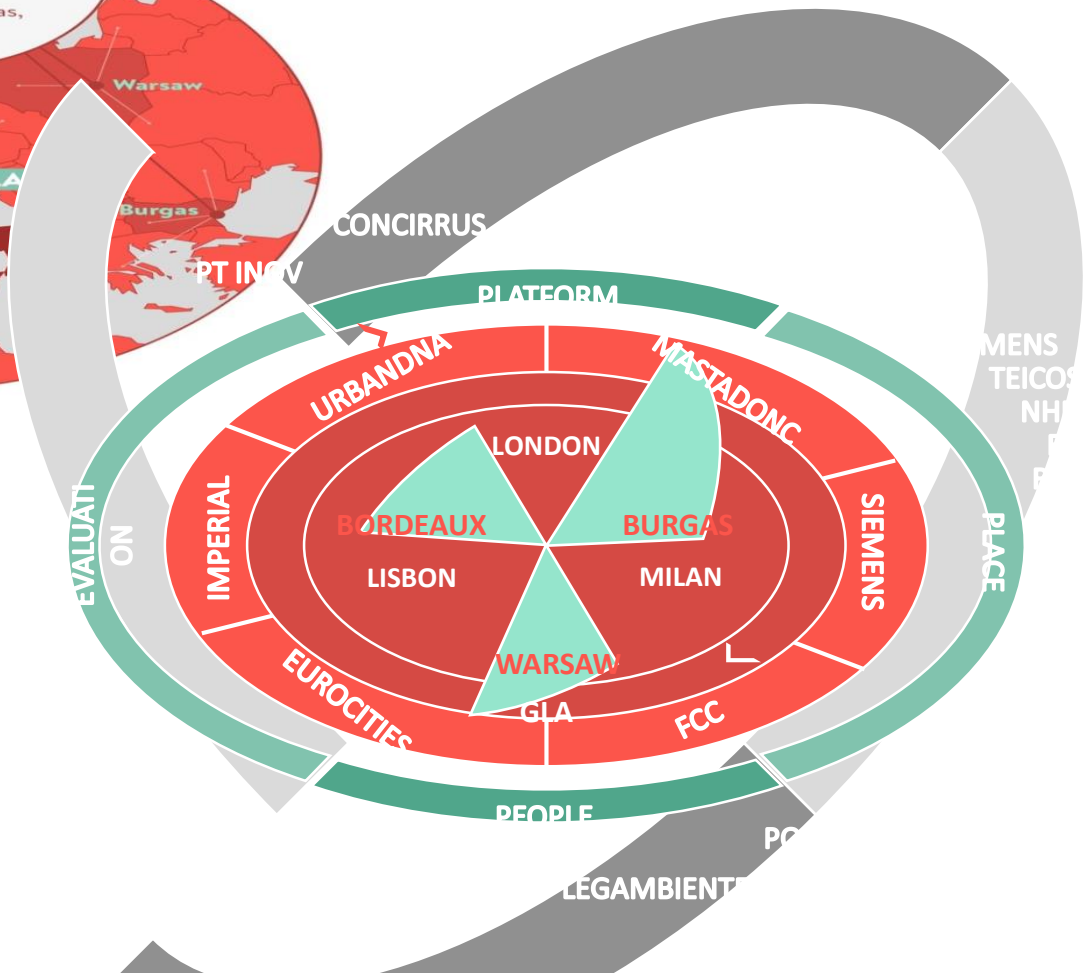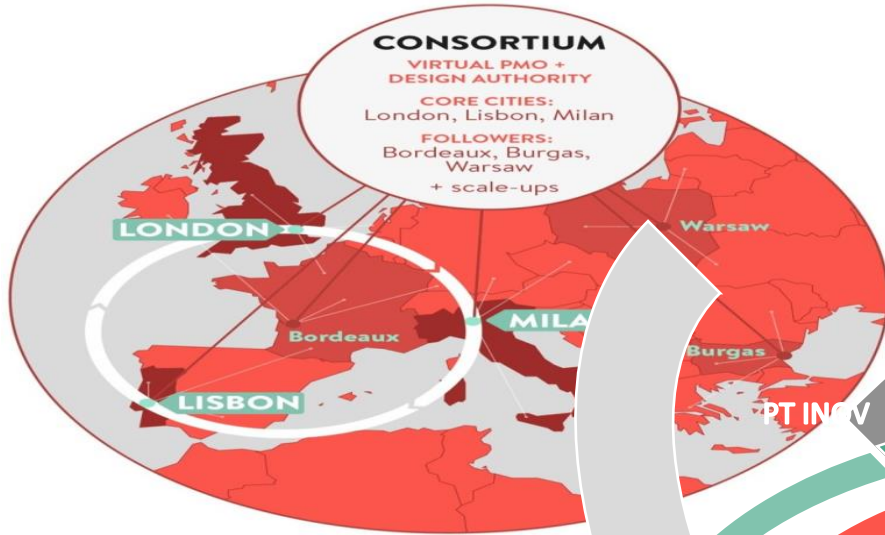
The current governance structure

City Boards
DELIVERY MANAGE-MENT
- City Lead
- City Sponsor
- CityPMO
- Local WP leads
- Co-optees (e.g. senior supplier)

Lisbon City Board — Teresa Almeida, City Lead

Milan City Board — Lucia Scopelliti, City Lead

Greenwich City Board — Trevor Dorling, City Lead

London City Board — Daniel Barrett, City Lead

Christophe Colinet — Follower City Lead
Jana Koleva — Follower City Lead
Marcin Wróblewski — Follower City Lead

Programme Board
DECISION MAKER
- Outcomes
- Plan & Deliverables
- Budget & Resources
- Risks & Issues
- Change Management

Andrew Collinge — Senior Responsible Owner, PB Chair & SG Chair

Antony Page — Interim Programme Director, AG Chair & SG Member

Nathalie Guri — WP6 Lead Co-opted

As Required WP Lead Co-opted

Sandeep Duggal — Programme Manager

Sponsor Group

City Sponsor (Senior Political Representative)
LDN Matthew Pencharz
LIS
MIL
RBG Cllr Sizwe James
BOD
BOJ
WAW
Programme Director

Advisory Group

Carl Cederschoild
Brenna Berman
Dan Hoornweg
Greg Clark
Dr Tom Heath
Júlia Seixas
Riccardo Luna
Alberto Cottica
João Barros
Ivana Pais

WP Leads

PMO

Fator de sucesso #2: Governance do projeto (compromisso, colaboração, eficácia e recursos)

Lisbon

- 0.6m residents
- 0.4m visitors
- 10M tourists

Lisbon's smart city strategy

The **City of Lisbon's** smart city strategy has the citizen and their needs at the core. Technology is only a means to an end - to achieve a sustainable, competitive, participated, creative and innovative citizen-centric smart city.
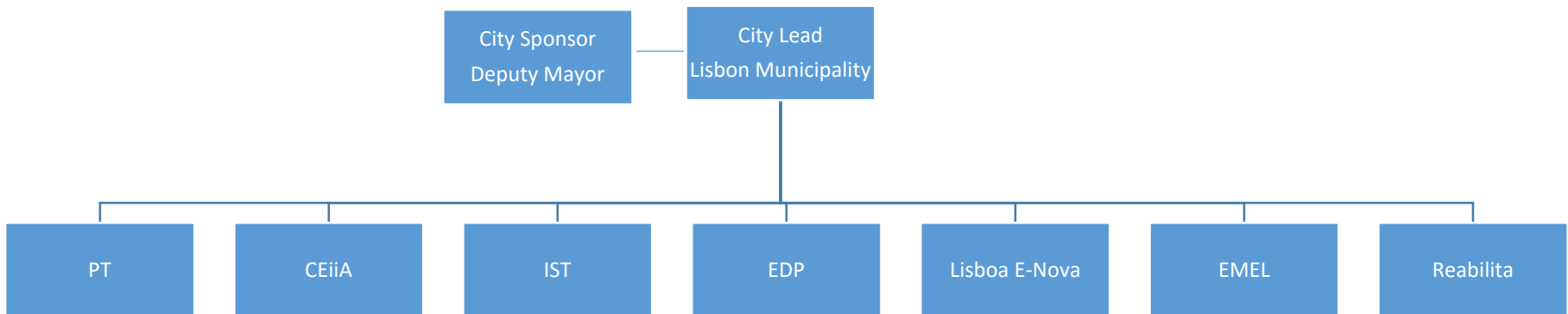
Downtown

- 540 ev public charging points from 4 providers
- MOBiE single platform to manage ev charging points
- Transporlis public transport platform
- 64 000 street lights
- 163 sets of open data

City roles & resources

Fator de sucesso #3: Liderança e Coordenação Local

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┌──────────────────┐   ┌──────────────────┐
│  City Sponsor    │───│   City Lead      │
│  Deputy Mayor    │   │ Lisbon Municipality │
└──────────────────┘   └──────────────────┘
```

| PT | CEiiA | IST | EDP | Lisboa E-Nova | EMEL | Reabilita |

City priorities

Work Package or WP Measure	City Role - Leading / Co-developing / Validating	City Ambition	SHARLLM Audacious Goal	Dependencies
WP2 People	Co-developing	Implementing the 'digital social market' and achieving significant behavioral change	Make real the notion of citizen participation	WP3, WP4
WP3 Place Building Retrofit	Leading	Demonstrate the feasibility of energy consumption reduction in existing residential buildings	Shift the thinking irreversibly to decarbonised/local renewables	WP4
WP3 Place Energy Management	Leading	Converge and integrate energy and mobility strategies within each core city/district	Deliver role-model low energy efficient Districts	WP4
WP3 Place E Mobility	Leading	Create sufficient change that it will deliver sustained behavior within the districts	Shift the thinking irreversibly to new models of e mobility in the Districts	WP4
WP3 Place Smart Lamp Posts	Leading	Save energy	Deliver role-model low energy efficient Districts	WP4
WP4 Platform	Co-developing	Meaningful smart city enablement through the implementation of USP	Exploit 'City Data' to Genuinely *Prove its Value*	WP2, WP3,WP5
WP5 Replication	Co-developing	Engage other European cities (2016) and have them exploiting the products of the program (2018)	Aggregate demand and achieve wide scale deployment of smart city solutions	WP2, WP3, WP4
WP7 New Business Models	Validating	Test and prove new business models applicable for the various measures	Attract quantum external investment	WP3,WP4

Parceiros chave

Partner / Supplier	Description of role	Deliverable	Resource (man month)
Câmara Municipal de Lisboa	Transversal. City lead. WP3 City Lead. Local Coordination.	Coordination. City Implementation. Engagement, citizen participation. Retrofit Intervention.	131 PM
PT	Transversal. Technology. Telco Operator.	Urban Platform design, requirements and standards . Technology. App development. Management systems. Engagement.	132 PM
CEiiA	Transversal. Technology. E Mobility.	E Mobility services. Technology. App development. Management systems. Engagement.	73 PM
EDP D	Electricity Distribution Company –National Smart Grid Operator	Energy management systems. Engagement. Communication. EV logistics fleet.	96 PM
IST	Lisbon University	Engagement, evaluation	56 PM
Reabilita	SME. Private Building Refurbishment.	Private Building Refurbishment	49 PM
Lisboa E-Nova	Transversal. Energy and ambient agency. WP3 Lead.	WP3 coordination. Implementation & SEAP monitoring. Engagement and participation. Facility management.	82 PM
EMEL	Mobility and Parking Municipal Company	EV shared mobility services. Smart parking. Implementation. Parking facility management.	34 PM

Risks, issues and concerns

Name	Mitigation	Probability	Impact
Political change due to upcoming local elections	Strong local implementation and local stakeholder commitment.	Low-Medium	Medium
Regulatory/privacy issues preventing use of citizen data as planned	1. the project will look to work with regulators to challenge existing regulations and propose new solutions which respect privacy 2. modify the planned activity to comply with the regulations	Low-Medium	High
Activities do not deliver the foreseen result	1. Continuous quality control mechanisms 2. Adjust activities or create contingency activities to deal with the new circumstances 3. If impact is critical, decisions are taken by the General Assembly	Low-Medium	High
Absence of citizen buy-in	1. Continuous monitoring of citizen participation 2. Partners will experiment with a series of incentives to encourage take up	Medium	High
Data compatibility within open platforms, both within and between cities	Significant attention to data protocols	Medium	High

OBRIGADO!