



SUPPORTED BY
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Smarter Cities Through Collaboration

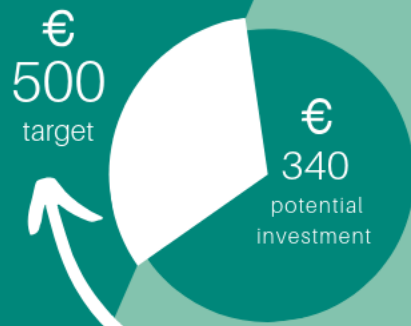
Key learnings and collaborations from Sharing Cities

Nathan Pierce



Horizon 2020
European Union funding
for Research & Innovation

Sharing Cities: Building smart cities together



Platform



3

City-wide open data platforms



3

City-wide sustainable energy management systems

People



1,700+ users on digital social markets



167 e-logistics vehicles



253 e-cars



299 e-charge points



Place



1,700 planned eBikes

580 eBikes operational



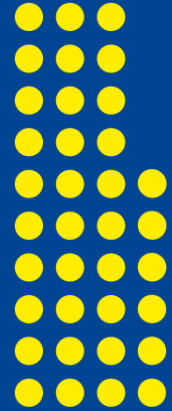
2,400 smart lampposts upgraded with sensors & LED lights



5,614,780 kWh per year reduction in energy in 3 cities

H2020 Lighthouse Programme: Europe's largest smart cities initiative

40
Lighthouse
Cities



53
Follower
Cities





Objectives:

- Scale
- Digital first
- Open up & accelerate the market
- Share and collaborate for society

Sharing Cities in numbers (2020)

- 2,400 smart lampposts
- 855 e-bikes
- 167 e-logistics vehicles
- 113 e-vehicles
- 311 EV charging points
- 343 smart parking spaces
- 4 fully functioning SEMS/BEMS
- 3 behaviour change mechanisms trialled (Digital Social Market)

An impressive record of delivery



Completed pioneering energy retrofit of Lisbon's iconic City Hall



Reduction of 6,124,494 kWh/yr through retrofitting buildings



Privacy Impact Assessment



E-mobility measures: On course to achieve 1,916 tCO₂ savings, representing a 70% over-delivery



First water sourced heat pump on public housing



Led on the development of European and UK smart cities networks



45% more units of technology delivered than what we were committed to deliver in the original bid

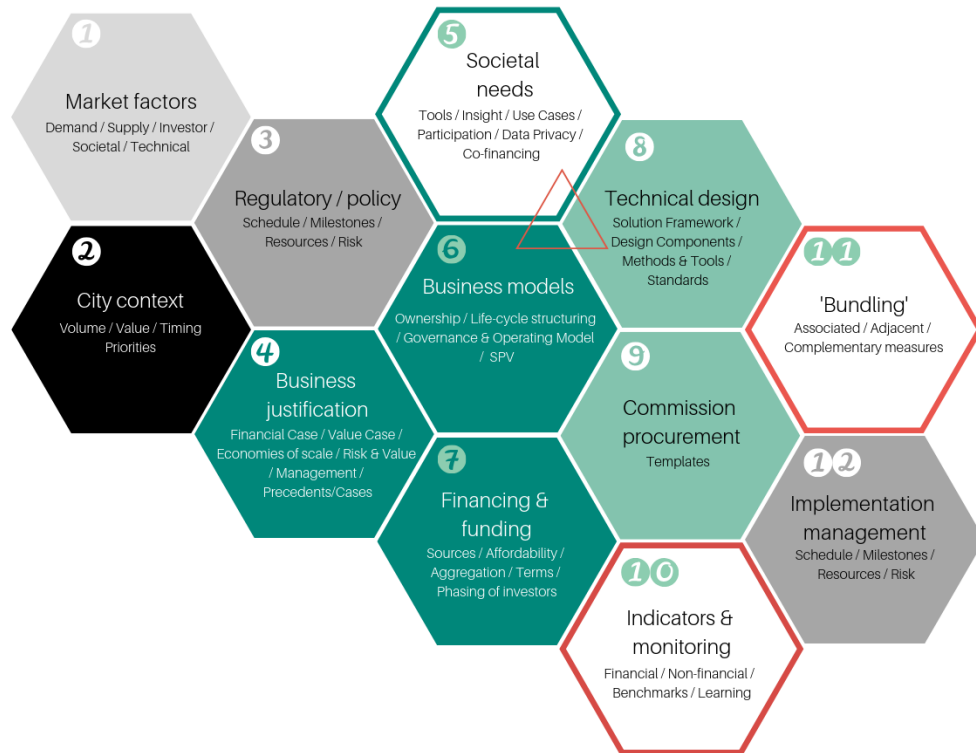


Real-time data fed to the London Datastore

Scaling up in London

- We want to share our learning with London's boroughs and other cities
- We want to accelerate the market - move from pilots to mainstream adoption

Packaging framework & playbooks



The infographic 'Engaging communities to encourage behaviour change: Digital Social Market' (DSM) explains how cities can use digital tools to promote sustainable smart city services. It includes the following text:

Engaging communities to encourage behaviour change: Digital Social Market

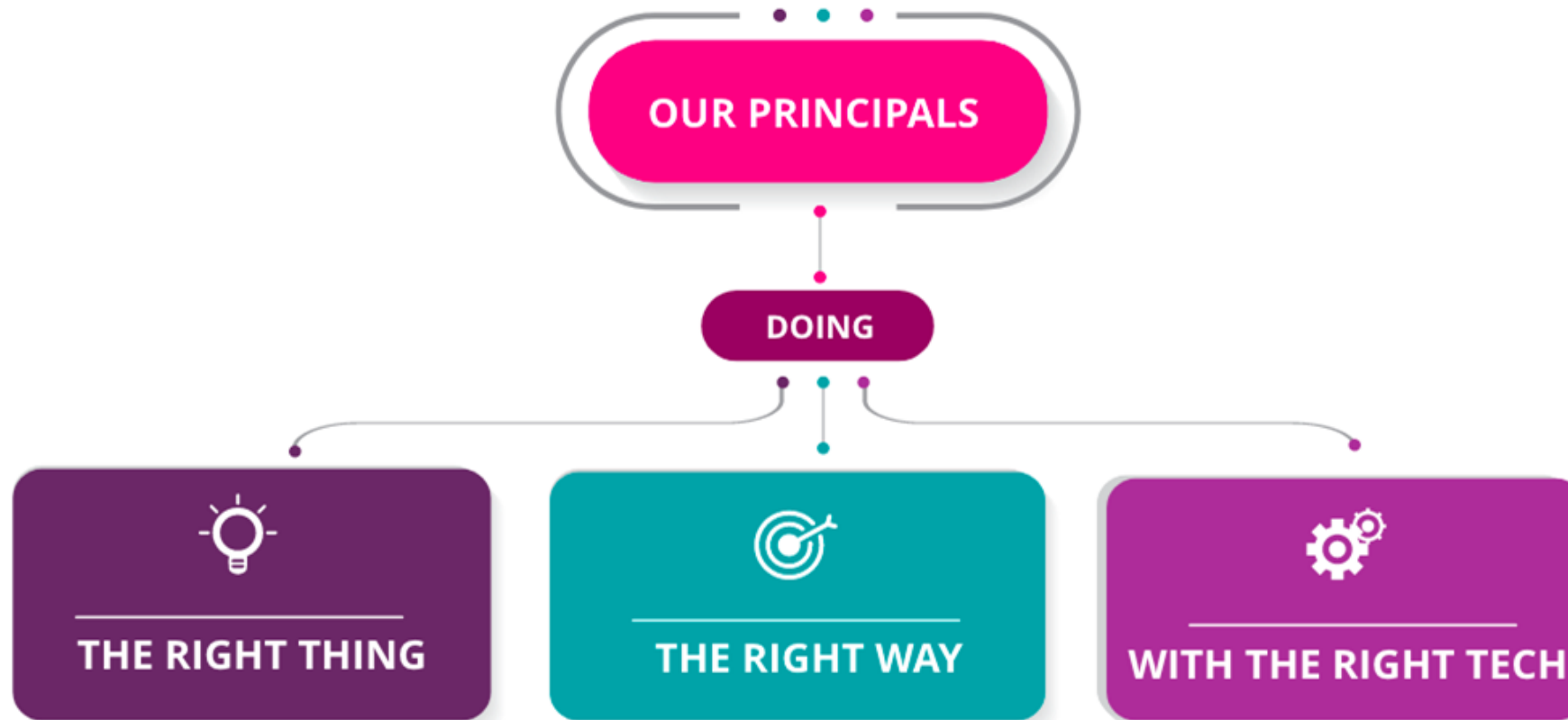
We tested the digital social market (DSM) in our three lighthouse cities of Lisbon, London and Milan. The DSM is a new way to engage citizens, developed by Future Cities Catapult. It has both online and offline components – so online is used to trigger different behaviour offline using rewards. The overall aim is to increase uptake of sustainable smart city services.

Why should you care?
To solve problems around air quality, material consumption, transport and energy use, cities must change. They need to lead on green issues and bring their citizens with them. As such, it's vital for city authorities, businesses and citizens to have a closer dialogue. The DSM is one way to enable this.

Benefits of the DSM
The DSM allows cities to explore and experiment with citizen participation. The benefits include:

- Raise awareness of and enable smart city services (like cycling and EV use)
- Harness citizens' enthusiasm to drive change
- Increase positive behaviour
- Environmental, economic, social and health benefits
- Improve inclusion through information sharing

London IoT Framework



Scaling up in London

- Digital districts & opportunity areas
- Positive energy districts
- Performance monitoring information
- Digital twins
- Feed into Mayoral strategies
- Access to city networks: EU Horizon 2020, UK Smart Cities Group, OASC...

SHARINGCITIES

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