

LOGISTICA URBANA

Un circuito virtuoso:
dalle esigenze alle proposte



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ROBERTO NOCERINO



in collaborazione con





Un approccio integrato per la creazione di un distretto intelligente per la Città di Milano: il progetto Sharing Cities

Roberto Nocerino
Poliedra - Politecnico di Milano

Logistica Urbana: Un circuito virtuoso: dalle esigenze alle proposte – 16 Nov. 2017



Sharing Cities – The consortium and timing



H2020 SCC-01-2015

3 LEAD CITIES

3 FOLLOWERS

20-35 SCALE UP CITIES

6 TRANSVERSAL PARTNERS

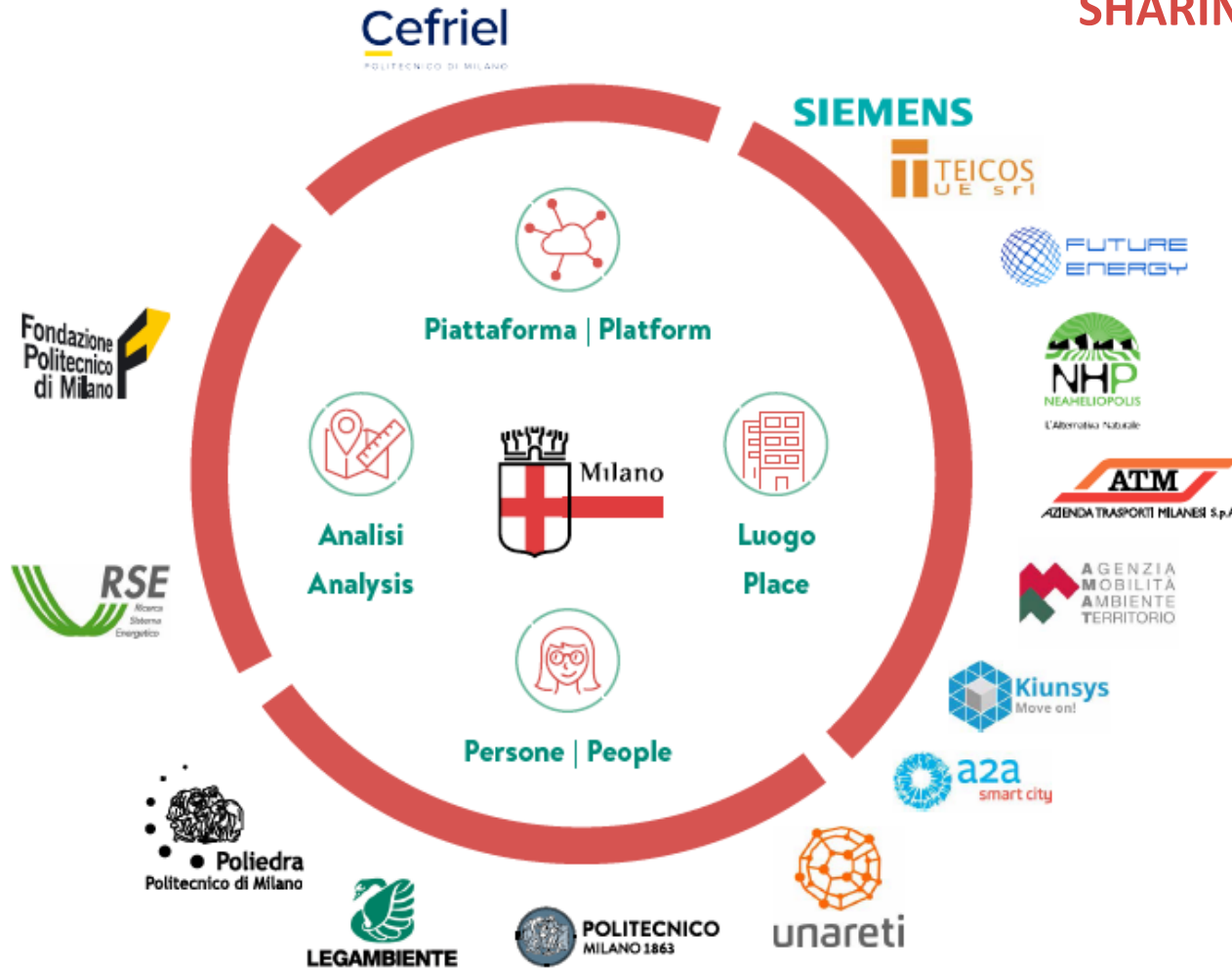
20+ DEVELOPMENT PARTNERS

Implementation 2016-2018

Monitoring 2019-2020



ITALIAN PARTNERS OF SHARING CITIES



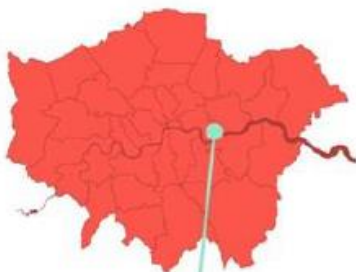


Project goal

Sharing Cities aims at:
Create nearly-zero emission districts

LONDON

Greenwich



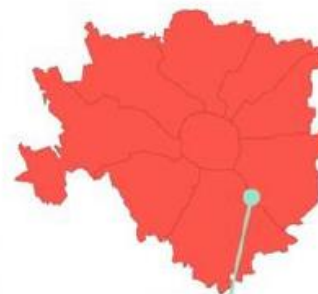
LISBON

Downtown



MILAN

Porta Romana





Innovative solutions for

PLACE

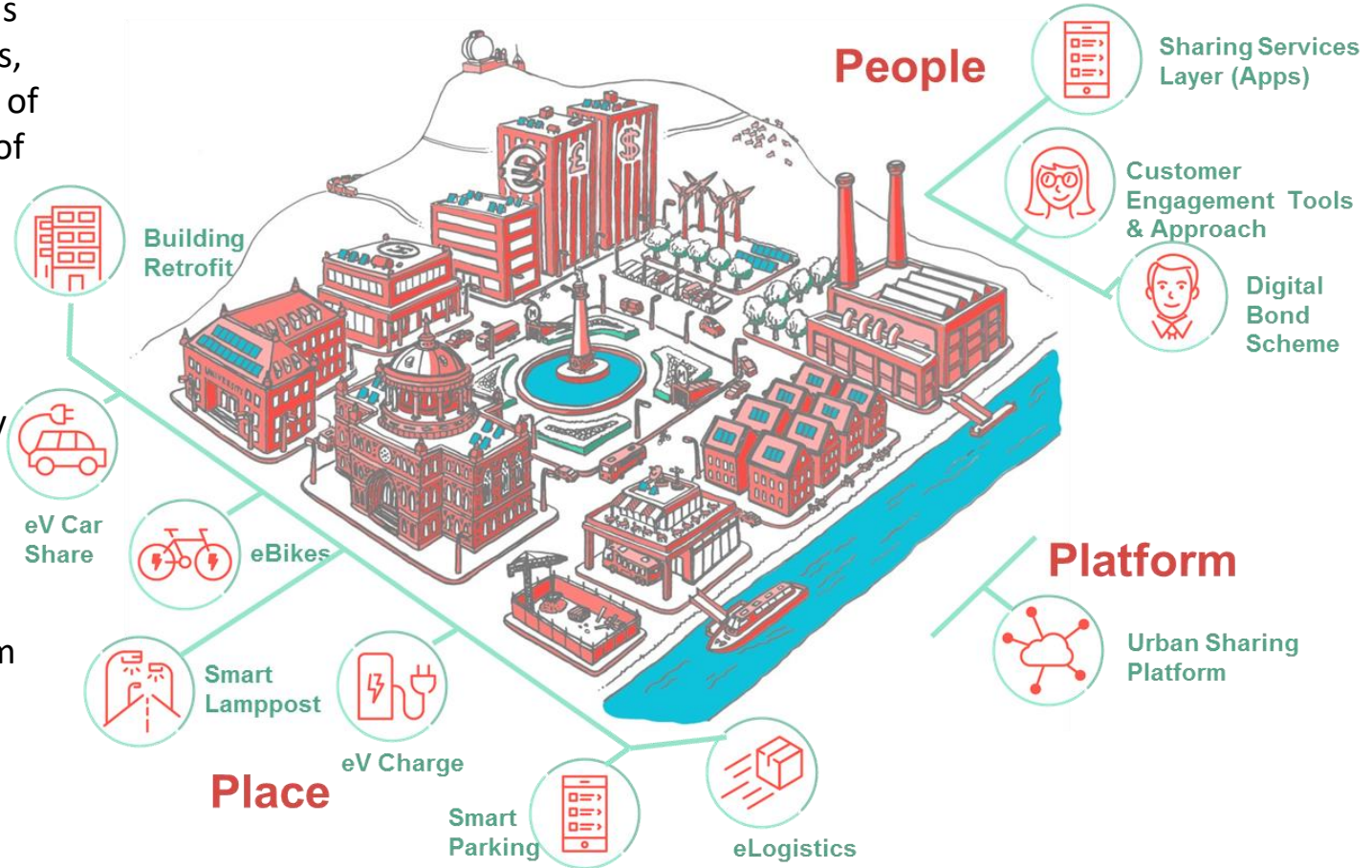
Infrastructure solutions for low-energy districts, e-mobility, retrofitting of buildings, installation of sustainable energy management systems and smart lamp posts.

PEOPLE

User-centric smart city services co-designed with citizens.

PLATFORM

Urban sharing platform based on open data.





Innovative solutions for

PLACE

Infrastructure solutions for low-energy districts, e-mobility, retrofitting of buildings, installation of sustainable energy management systems and smart lamp posts.



1. Refurbishment of 21.000 smq of private residential building and 5.000 of public residential buildings
2. Sensors and SEMS for monitoring and managing energy consumption



PEOPLE

User-centric smart city services co-designed with citizens.



eV Car Share



PLATFORM

Urban sharing platform based on open data.



Face

Smart Parking

eLogistics

ing Services
er (Apps)

Customer

ent Tools
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Digital
Bond
Scheme

ing



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10 recharging stations with 60 recharging points (20 fast), integrated into the Mobility areas



Place

eV Charge

Smart Parking

eLogistics

Sharing Services
per (Apps)

Customer
Engagement Tools
Approach

Digital
Bond
Scheme

Form

Urban Sharing
Platform



Innovative solutions for

PLACE

Infrastructure solutions for low-energy districts, e-mobility, retrofitting of buildings, installation of sustainable energy management systems and smart lamp posts.



1. Enhancement of the e-car sharing offer in the area thanks to the recharging points offer
2. 2 e-vehicles for condominium car sharing
3. User and operator based relocation system



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Smart Lamppost



eV Charge

Place

Smart Parking



Sharing Services
er (Apps)

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& Approach

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Innovative solutions for

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1. 150 new e-bikes for bike sharing
2. 14 new bike sharing stations (10 integrated into Mobility Islands)
3. User and operator based relocation system



Sharing Services
per (Apps)

Customer
Engagement Tools
& Approach

Digital
Bond
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eV Car
Share

PLATFORM

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Smart
Lamppost



eV Charge

Place

Smart
Parking





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125 parking places with sensors (for logistics, disabled people, no-parking areas)



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Building Retrofit



eV Car Share



Smart Lamp

Smart Services (Apps)

Smart Management Tools

Digital Bond Scheme

Smart Sharing



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1. 11 new e-vehicles for the logistics
2. Optimization system



Building Retrofit



eV Car Share



eBike

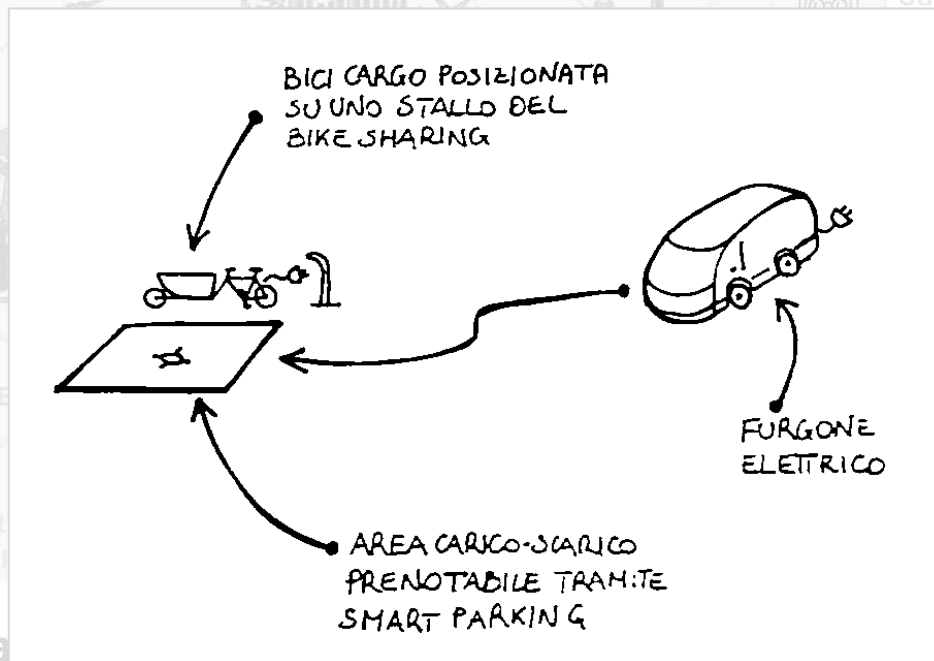


Smart Lamp

Pla

Smart Parking

eLogistics



ing Services
er (Apps)

Customer
Management Tools
Approach

Digital
Bond
Scheme

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an Sharing
Form



Innovative solutions for

PLACE

Infrastructure solutions for low-energy districts, e-mobility, retrofitting of buildings, installation of sustainable energy management systems and smart lamp posts.



From Humble to LED to Smart Lampposts (300) (WiFi antennas, Environmental monitoring, Monitor traffic flows and speeds, discouraging double parking)

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eV Car Share

PLATFORM

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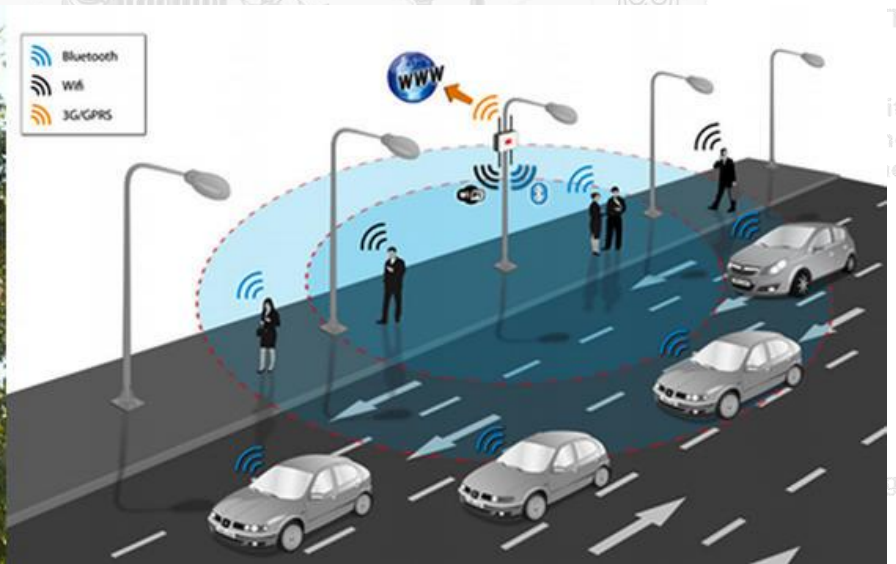


Place

eV Charge

Smart Parking

eLogistics



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er (Apps)

Customer

Tools

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Innovative solutions for

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Infrastructure solutions for low-energy districts, e-mobility, retrofitting of buildings, installation of sustainable energy management systems and smart lamp posts.



1. Codesign activities
2. Dissemination and engagement

Sharing Services
per (Apps)

PEOPLE

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eV Car Share



Customer Engagement Tools & Approach



Digital Bond Scheme

PLATFORM

Urban sharing platform based on open data.



Smart Lamppost



eV Charge

Place

Smart Parking





Innovative solutions for

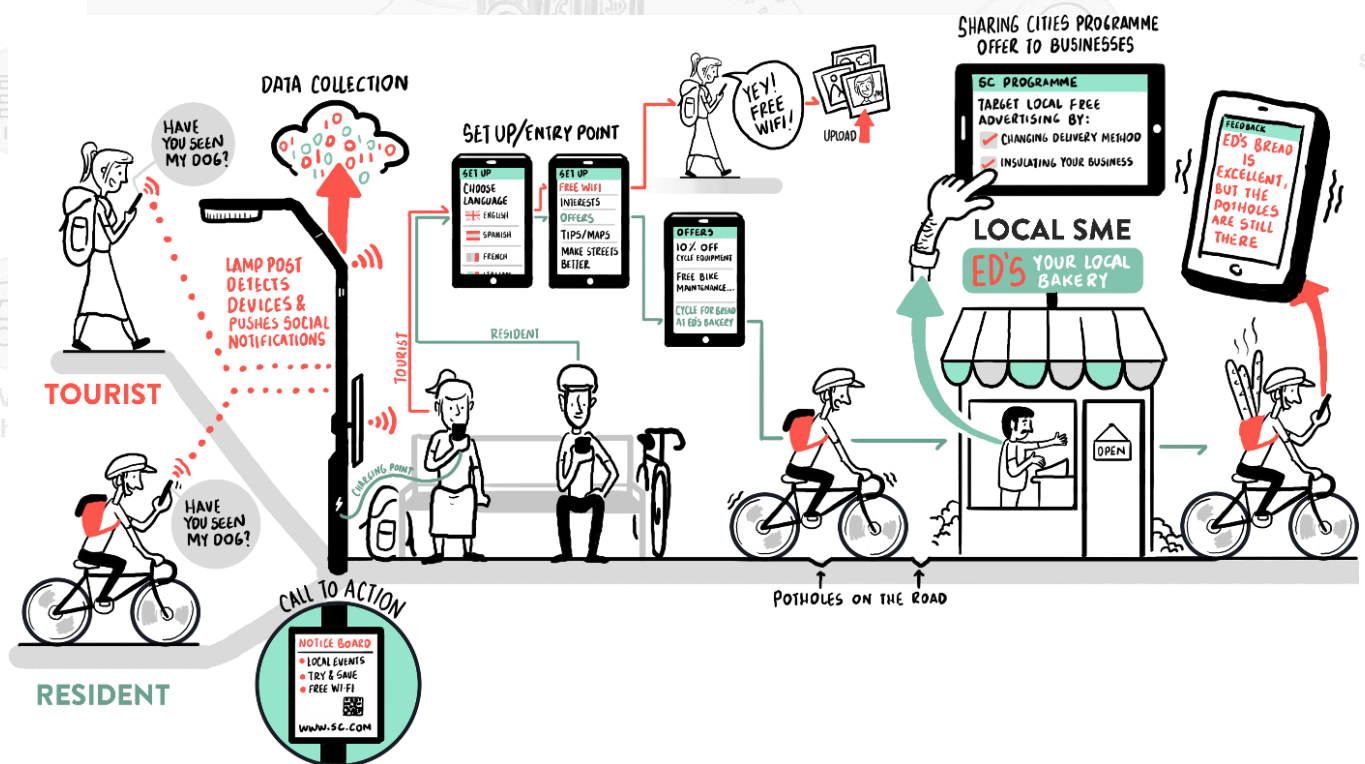
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PEOPLE
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PLATFORM
Urban sharing platform based on open data.



Rewarding system for encourage sustainable behaviors, support local businesses and the urban economy





Innovative solutions for

PLACE
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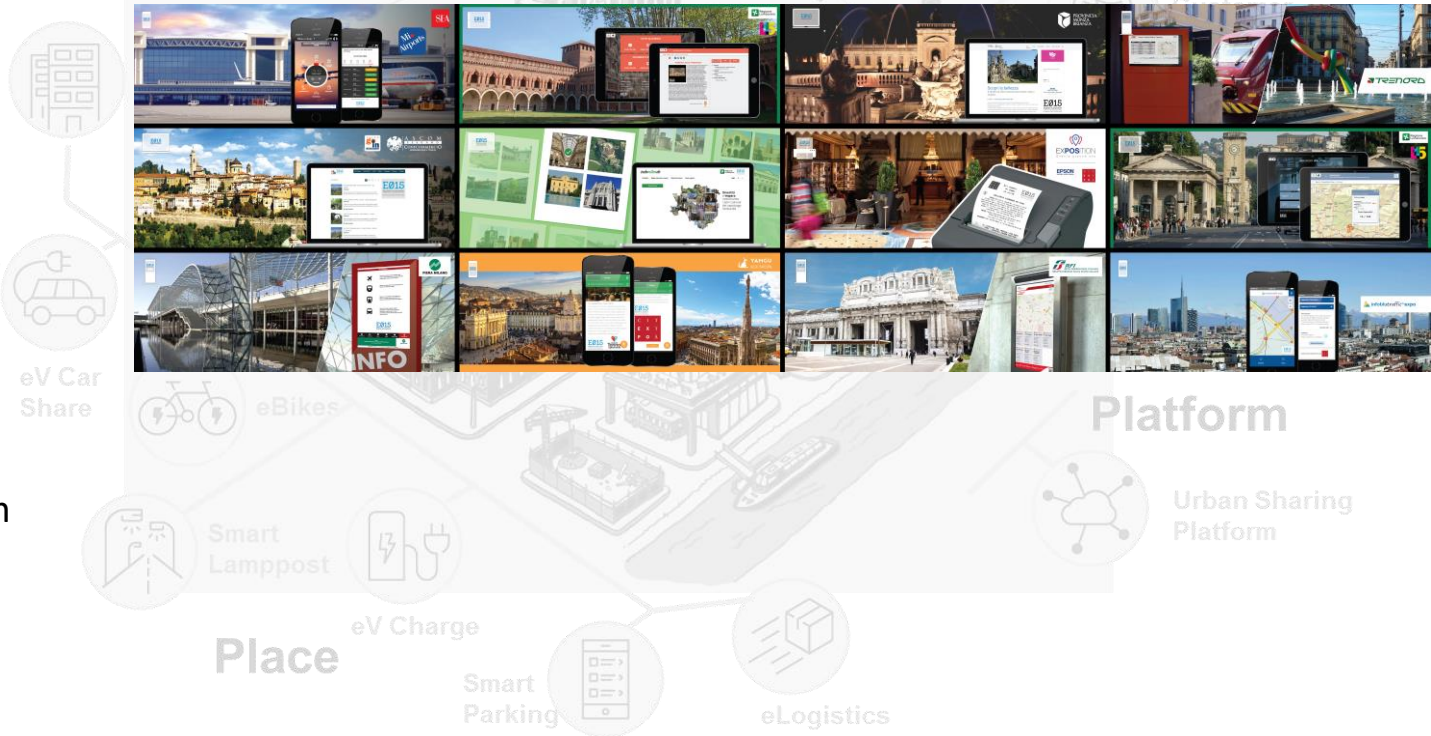
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Urban sharing platform based on open data.



Manages data from a wide range of sources, including sensors, as well as traditional statistics. It is built on common principles, open technologies and standards.

Sharing Services
er (Apps)





Innovative solutions for

PLACE

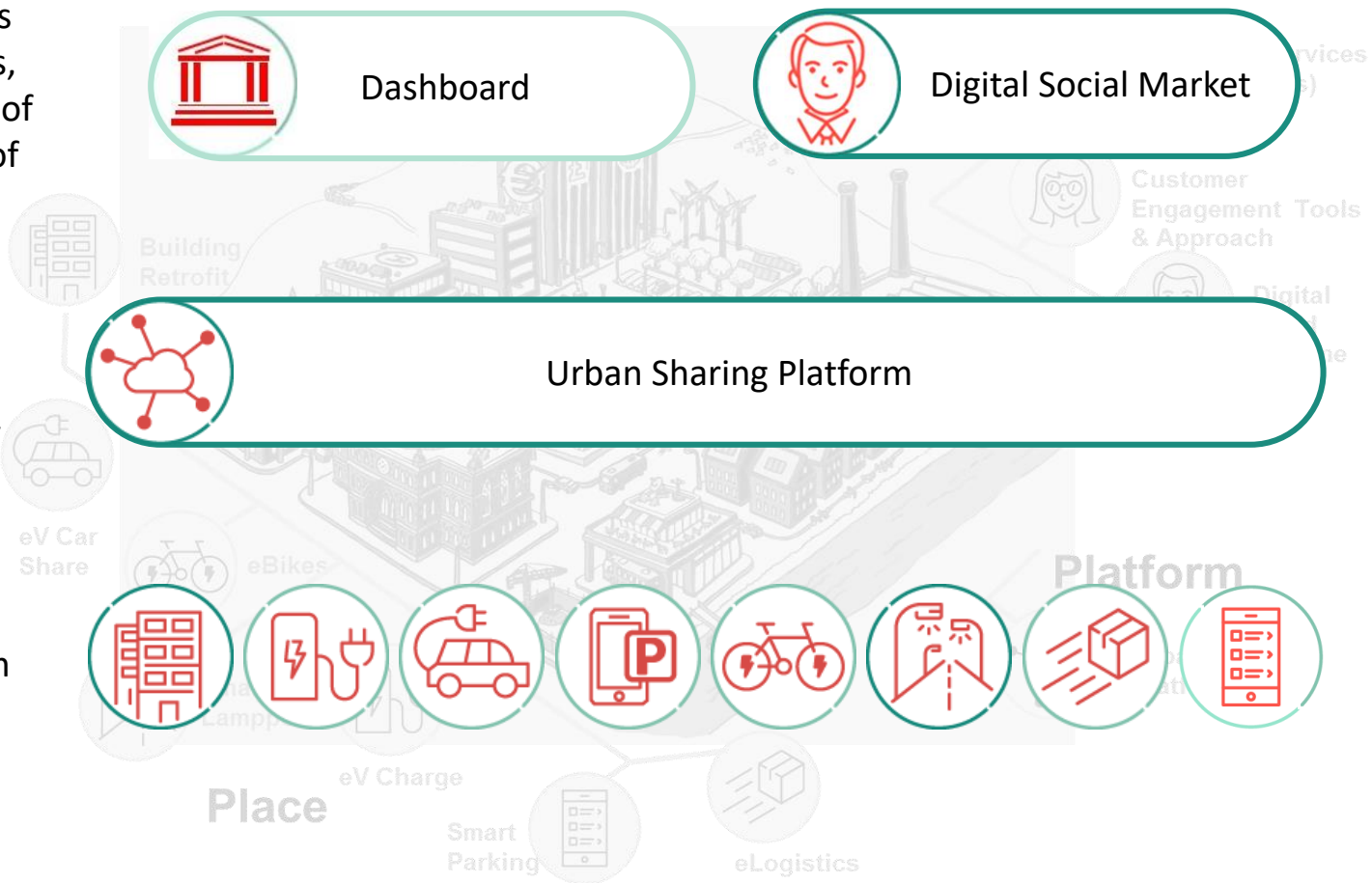
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Sharing Cities aims at:

- Creating nearly-zero emission districts in London, Lisbon, Milan
 - Refurbish a massive number of buildings
 - Promote new models of e-mobility
 - Optimize what is already on the ground
 - Successfully engage citizens rewarding positive behaviors
 - Exploit city data to maximum effect
 - Foster local level innovation, new businesses and jobs
 - Create methodologies and business models for exploiting the results





Grazie!

- Poliedra

- Alberto Colorni
- Alessandro Luè
- Roberto Nocerino
- Federico Lia

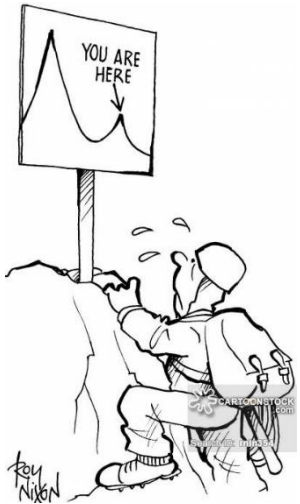
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The activities are performed within the SCC-H2020 Sharing Cities project. For more info:

www.sharingcities.eu

www.milano.sharingcities.it



Milano