



AREADUM : BARCELONA'S NEW URBAN FREIGHT DISTRIBUTION (UFD) SMART SYSTEM

January 14th, 2015

1 PROJECT DESCRIPTION

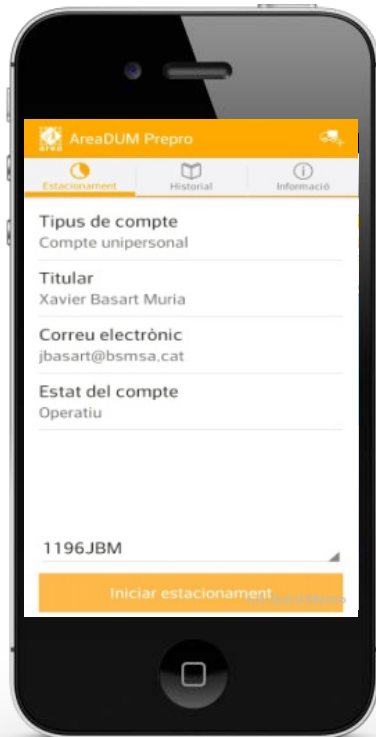
What is areaDUM?



- 1) New UFD mandatory system to access loading/unloading bays in Barcelona
- 2) Main access tool is an APP based on smartphone and geolocation technologies
- 3) For all UFD users (commercial, transport, freight, etc.)
- 4) Scope: 9.000 parking places and more than 45.000 daily operations



2 MAIN GOALS & BENEFITS PURSUED

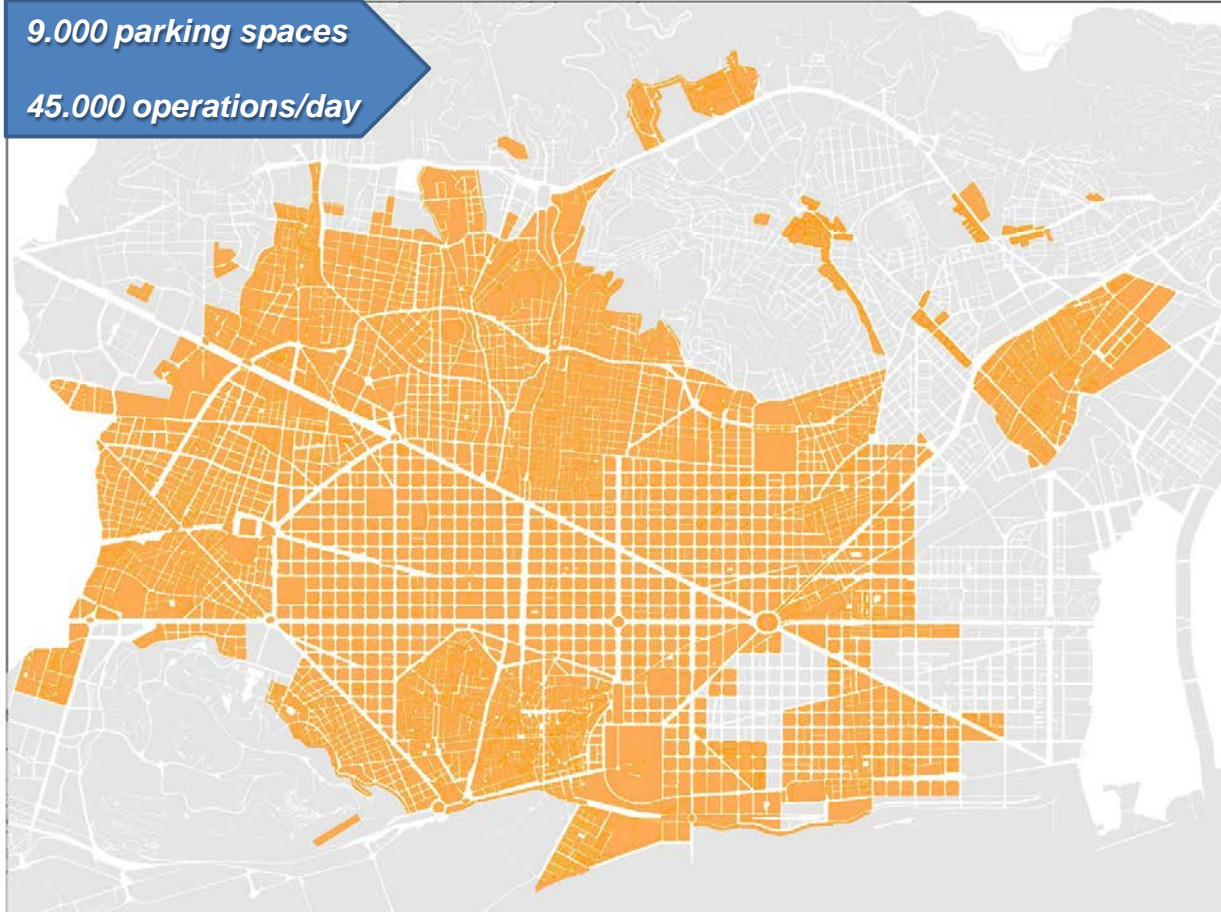


- To optimize the use of a scarce resource: **Public Space**
- To match real supply and demand according to real needs
- To have more available parking space
- To reduce indiscipline
- Improved enforcement efficiency: x2 productivity
“ONE-SHOT INFRINGEMENT DETECTION PROGRAM”
- Improved UFD management through smartphone technology
- Integrated special permits (booking) without printed authorisation
- Reinforced Barcelona’s leadership among Smart Cities

3 SCOPE OF THE PROJECT

9.000 parking spaces

45.000 operations/day



Distribució Urbana de Mercaderies (DUM)



Laborables de dilluns a dissabte
8-11 h i 15-17 h

Excepte càrrega i descàrrega: camions,
furgonetes i vehicles mixtes de dos seients

Validació per mòbil obligatòria
Temps màxim 30 minuts

Codi Zona: 8 4 3 2



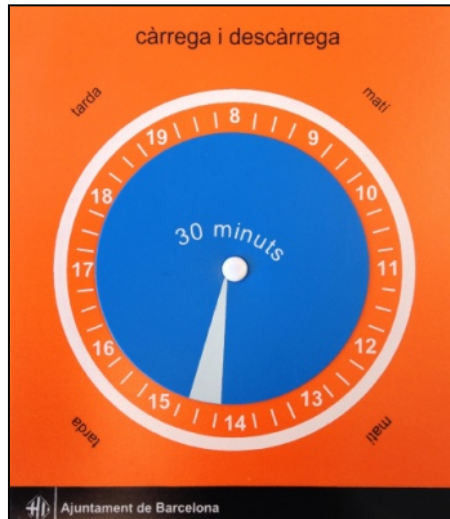
Per descarregar-vos l'App
i seguir les instruccions









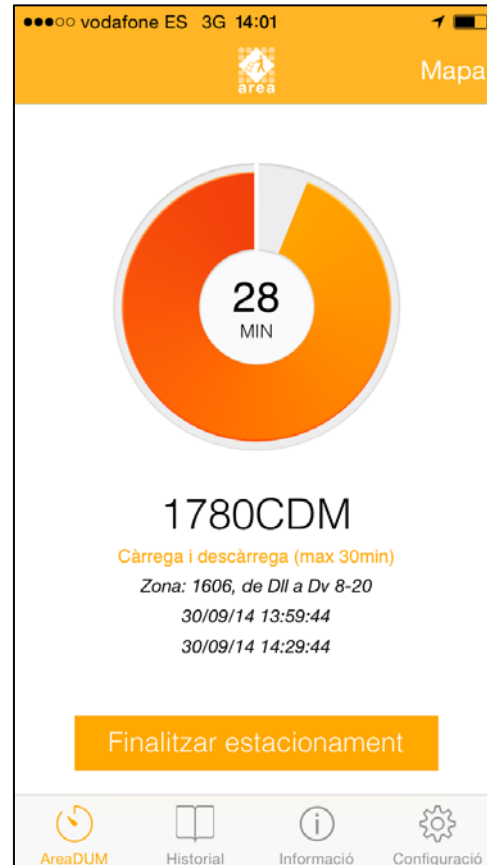
Envieu un SMS* al 217010 escrivint:
DUM (espai) **matrícula** (espai) **CODI ZONA**
(la matrícula sense espais ni guions).










Rebreu la confirmació amb l'horari màxim d'estada.
* cost del SMS 0,19€ (petició i resposta).

5 UFD EVOLUTION: from Cardboard Parking Clock to Smart App



-  Anonymous User / Unknown usage
-  More indiscipline / Noise
-  Strong enviromental impact
-  Easy cheatable
-  No time alerts for customers
-  Permanently visible.

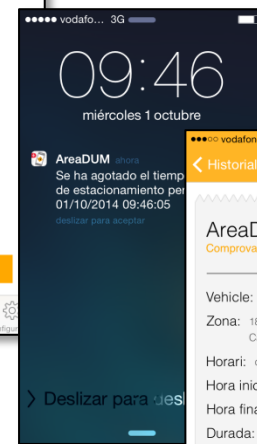
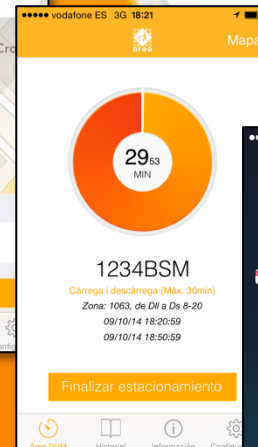


-  User-friendly, easy-to-use APP.
-  Direct communication between user & on street operator.
-  Infringement prevention through in-app programmable alarm system.
-  Information available online and personally through supervisors.
-  Data management, enables track information.
-  Efficient customer service +99% incidences and support response ratio in <24h.
-  Less indiscipline
-  Less noisy city and improved environment
-  Better, smarter city for residents and foreign visitors.

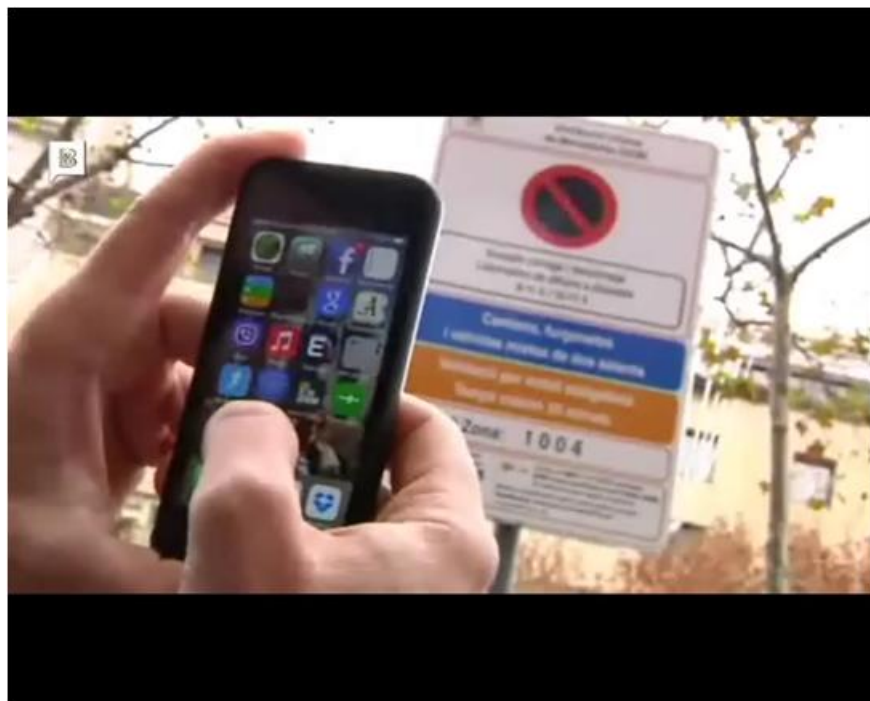
6 HOW IT WORKS



- 1 Download free App
- 2 User and Car Registration
- 3 Geolocation
- 4 Press «Start parking» button
- 5 Alert before max. time is reached
- 6 Press «Stop parking» and leave parking space



7 HOW IT WORKS



**AreaDUM
Ticket OK**

10/11/2014 E 15:15

B:SM Vigilant: 101 Z-651 INICI TORN

CONSULTA 15:55

Matricula: 6666 JJJ Cercar

6666 JJJ
6666 JJJ

6666 JJJ
Resident: No hi ha dades
App:ON 15:15 Tarifa:DUM
App:OFF
1014.- GRACIA, 48, PG

**AreaDUM
Ticket KO**

10/11/2014 E 15:15

B:SM Vigilant: 101 Z-651 INICI TORN

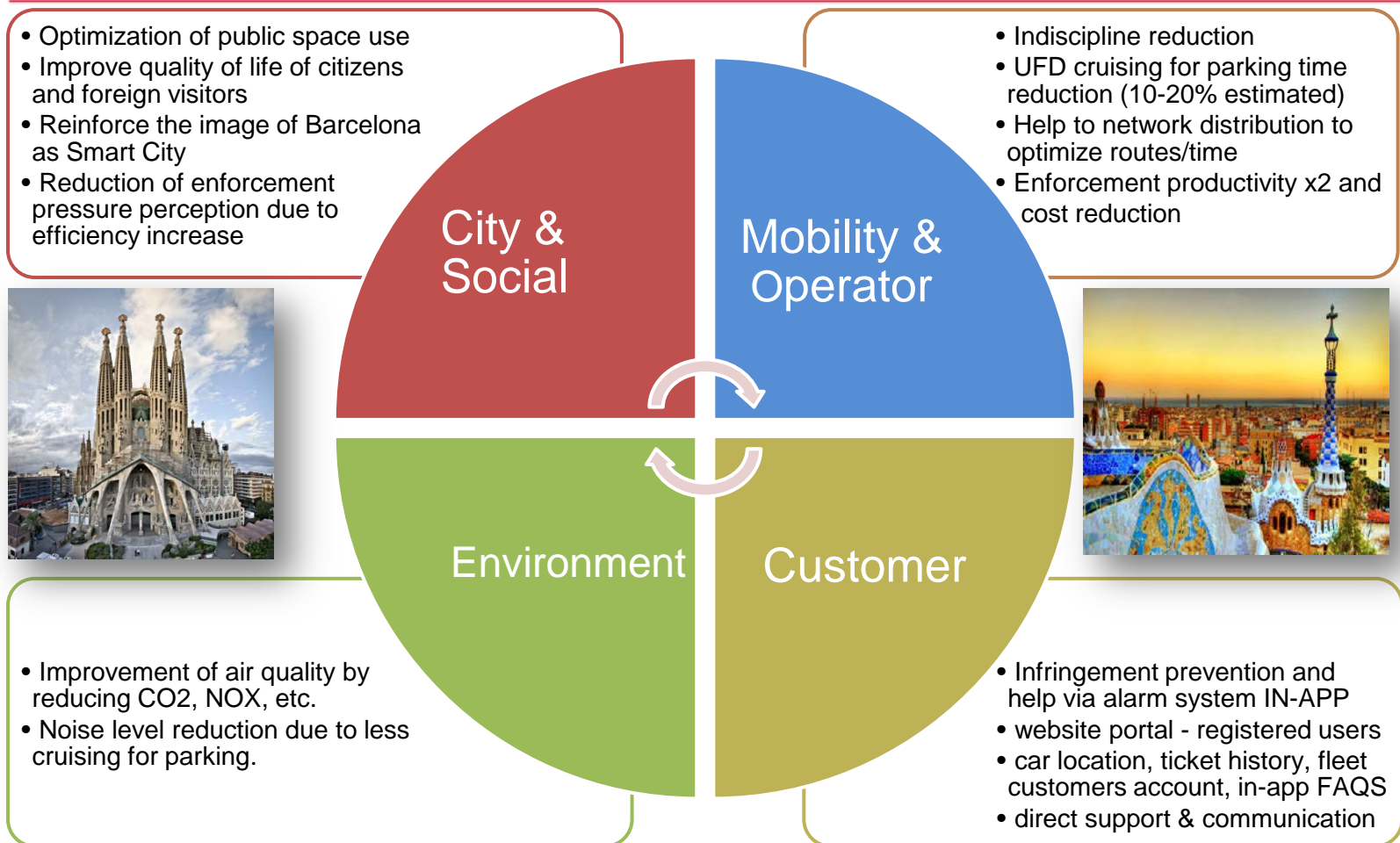
CONSULTA 15:55

Matricula: 6666 JJJ Cercar

6666 JJJ
6666 JJJ

6666 JJJ
Resident: No hi ha dades
App:ON 15:04 Tarifa:DUM
App:OFF 15:15 Tarifa:DUM
1008.- GRACIA, 59, PG

MAIN EFFECTS





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