Ajuntament de Barcelona

BCN SMART CITY

VEHICLE ELÈCTRIC

Deployment of a Charging Infrastructure in Barcelona

Rotterdam October 9th, 2014

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Barcelona City Council

FIRST STEPS (2009)

- Installation and commissioning of 10 stations with a total of 20 charging points for ecars and ebikes. AGENCIA DE LA ENERGIA DE BARCELONA.
- Installation and commissioning of 2 stations with a total of 2 charging points for ecars in 22@BCN district.
- Installation and commissioning of 5 stations with a total of 42 charging points for ebikes. MOBECPOINT.

FIRST STEPS (2010)

endesa

IBERDROLA

mobecpoint

- Plan Movele to promote infrastructures (1M€, Madrid, Barcelona and Sevilla)
- Agreement with ENDESA for the installation and commissioning of 28 stations with a total of 56 EV charging points.
- Agreement with MOBECPOINT & IBERDROLA for the installation and commissioning of 5 stations with a total of 30 eMotorbike charging points.

- Agreement with Parking operators for the installation and commissioning for a total of 54 charging points on off-street parking lots: BSM, TABASA, REGESA y PCB.

B:SM Barcelona de Serveis Municipals

Tabasa Infraestructures i Serveis de Mobilitat, SA

REGESA

Parc Científic de Barcelona

FIRST STEPS: ENDESA

FIRST STEPS: MOBECPOINT

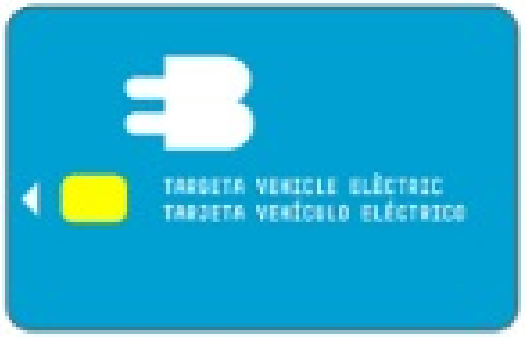
FIRST STEPS: Agencia Energia de Barcelona

FIRST STEPS: PARKING LOTS

EV CityCARD to activate charging points

•The EV Citycard is to identify users of electric vehicles in the city of Barcelona. This card offers the possibility of electric recharging anywhere in the city.

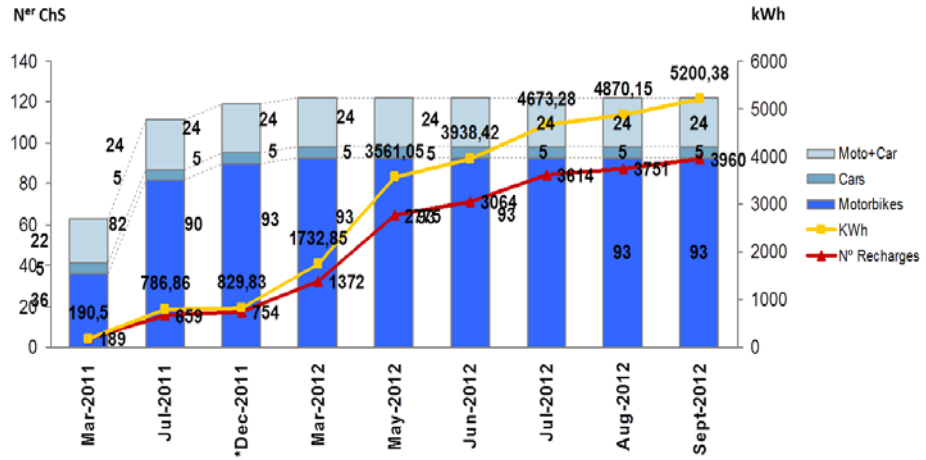
•Moreover, with the identification card of electric vehicles the users can park, for free, in regulated areas of the city (Green Zone and Blue Area), according to the criteria established



MAP OF THE CHARGING NETWORK (2012)

SCARCE SUCCESS

Més de 240 punts de recàrrega PUBLICS



Anàlisi d'ús i consums punts connectats al Centre de Control

SCARCE SUCCESS (in number of private ecars)

n^{er} EV in Public Fleet		**294**
	Little Van	199
	Middle Van	28
	Big Van	38
	Tourism	14
	Special vehicles	2
	Motorbikes	13
n^{er} EV Private (estimated by EV user card)		**244**
	Motorbikes	129
	Tourism	74
	Vans	1
	Moped	40
Total EV		**538**

NEW APPROACH (2013): QC network on-street

Nov2013 The first QC Tristandard

PdRR CIRCONTROL Sortida 23 Rda. del Litoral

QC NETWORK – TRIstandard on-street (2013 – today)

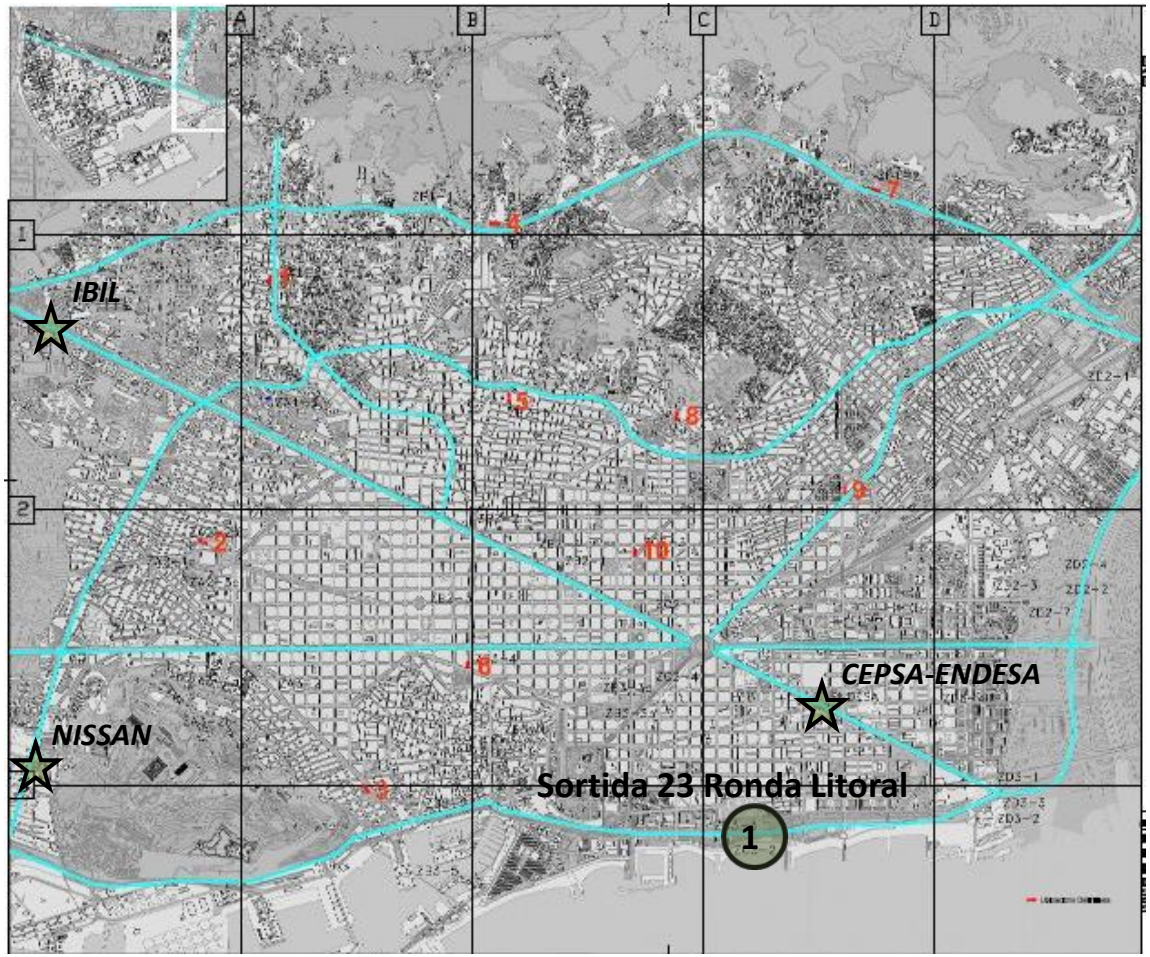
Agreement with CarMakers for the Installation of 20 stations with CHADEMO + Mennekes + CCS COMBO

QC NETWORK – TRIstandard on-street (2013 – today)

Agreement with Utility Provider ENDESA-ENEL for the Installation of 5 stations with CHADEMO + Mennekes + CCS COMBO

(2014 1T) 1 PdRR públic universal

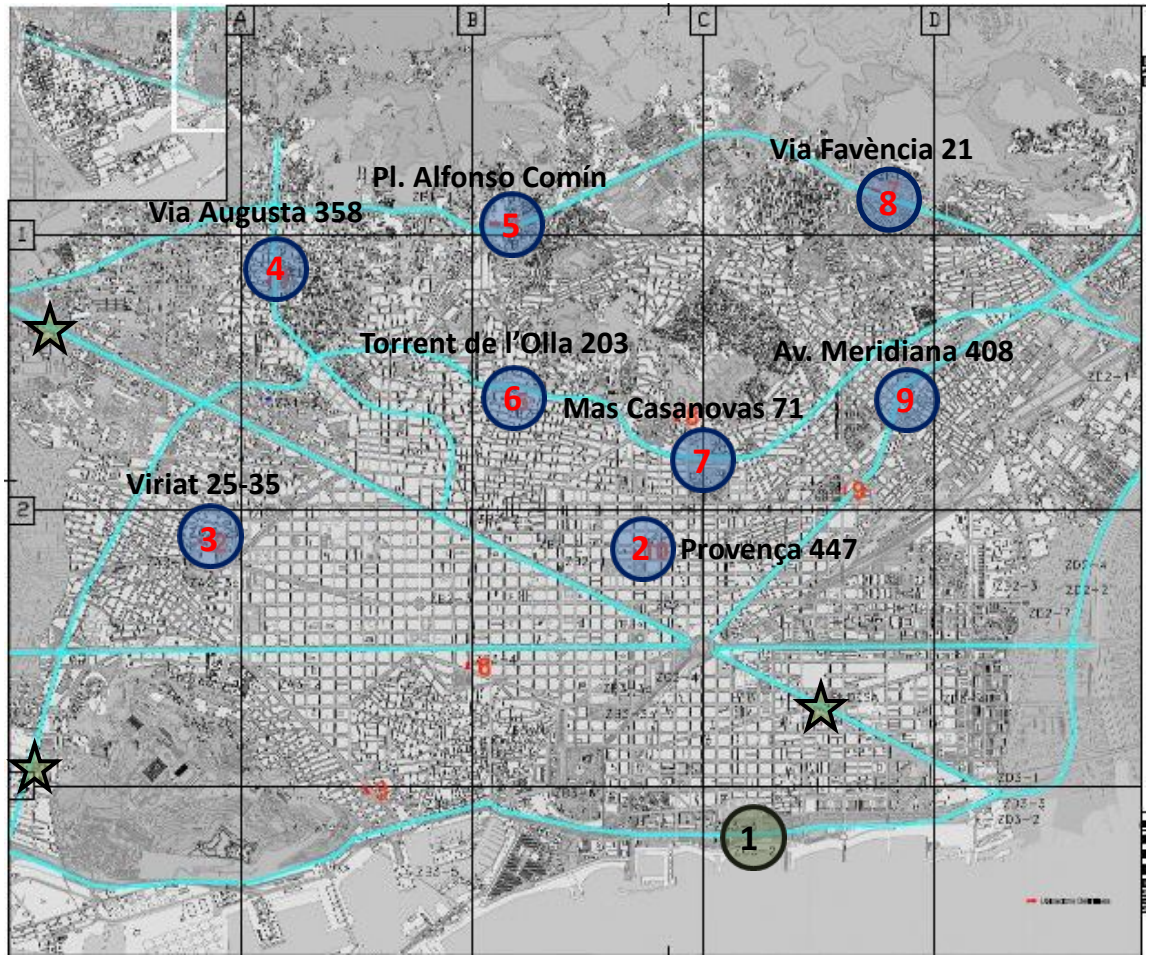
(CHAdeMO + CCS-Combo + Mode3 44kW) i 3 PdRR privats (CHAdeMO)



3 PdRR Existents Privats (CHAdeMO)

1 PdRR Existent Públic (Universal)

(2014 final 3T) 9 PdRR públics universals

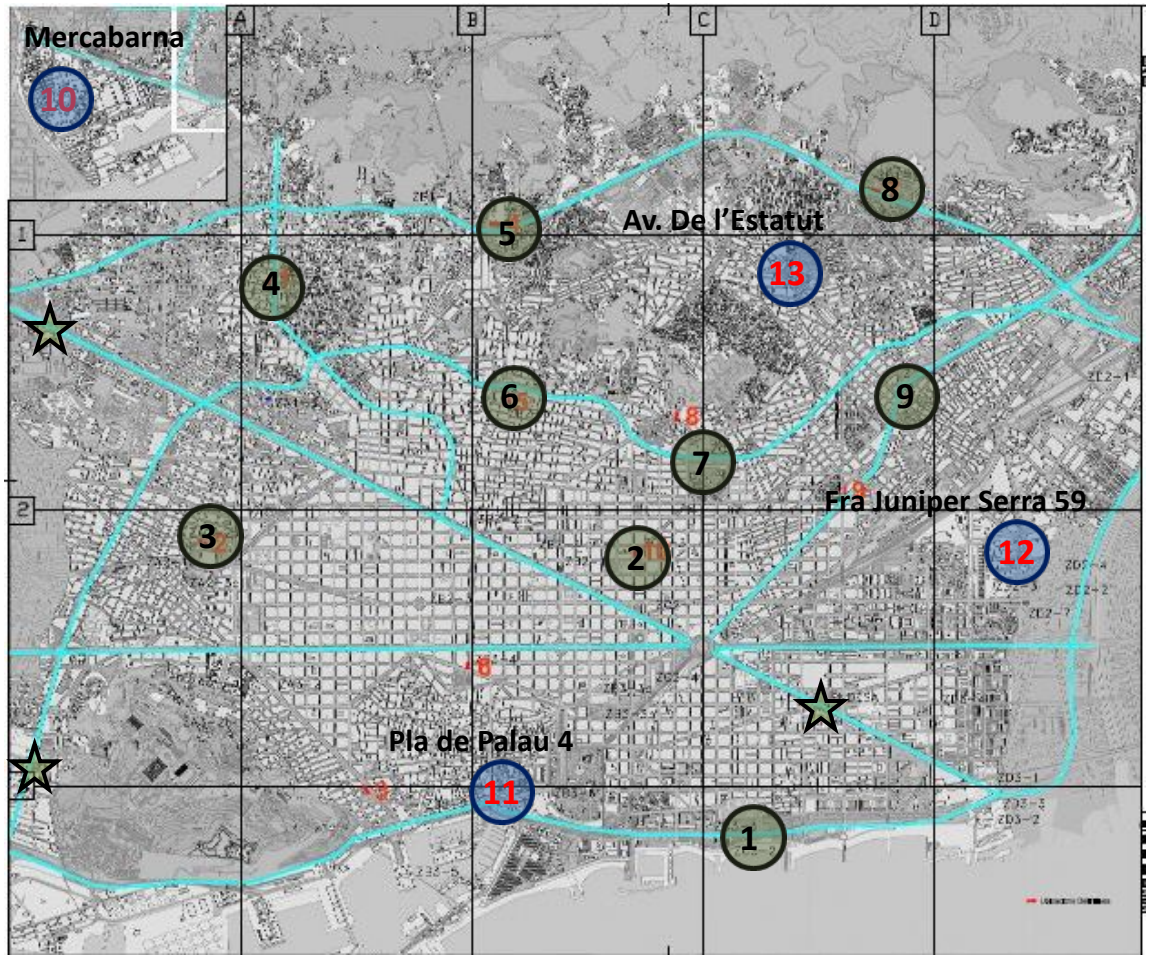


3 PdRR Existents Privats (CHAdeMO)

1 PdRR Existent Públic (Universal)

8 PdRR Públics nous (Universal)

(2014 final 4T) 12 PdRR públics universals

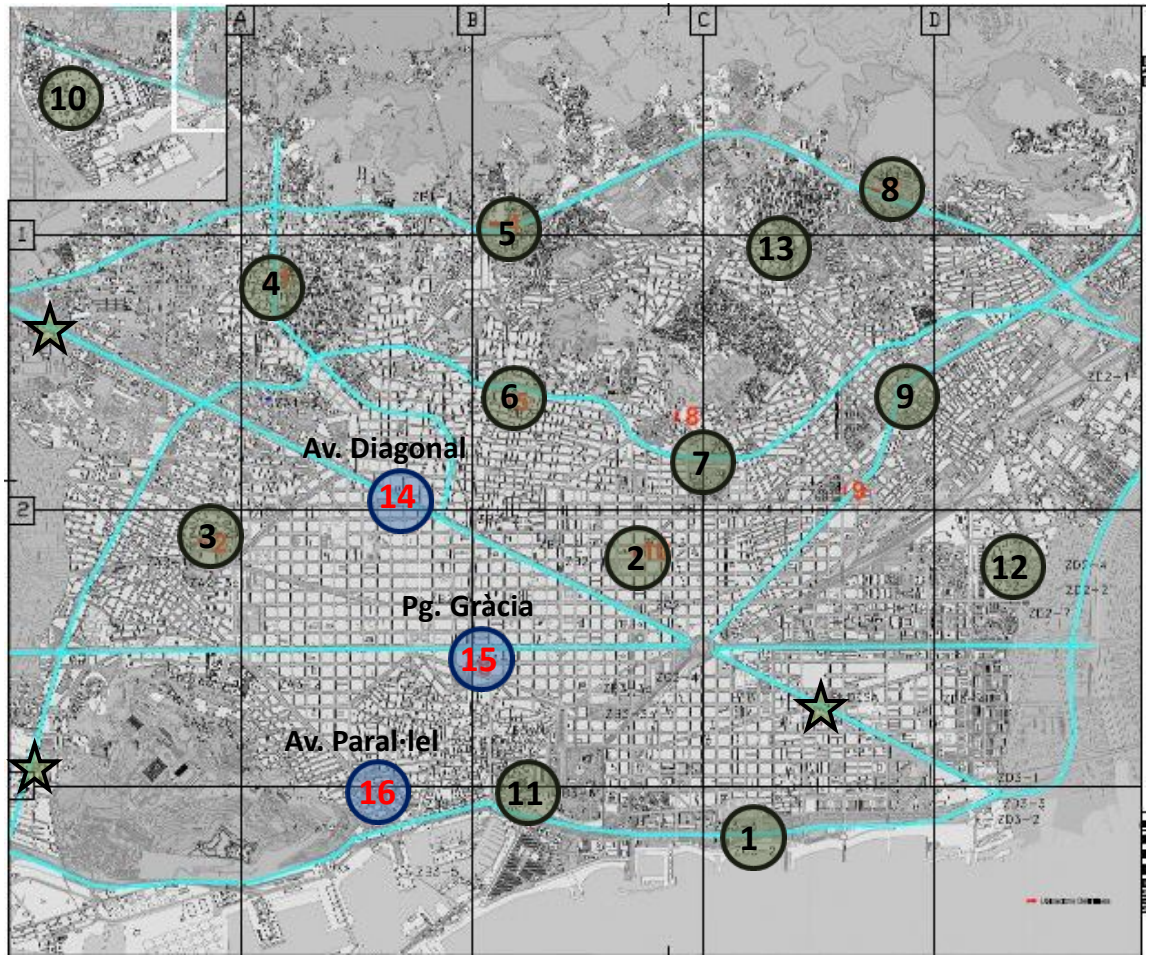


3 PdRR Existents Privats (CHAdeMO)

9 PdRR Existent Públic (Universal)

4 PdRR Públics nous (Universal)

(2015 1T) 16 PdRR públics universals



3 PdRR Existents Privats (CHAdeMO)

13 PdRR Existent Públic (Universal)

3 PdRR Públics nous (Universal)

PdRR DBT universal. Conveni NISSAN-BMW-RENAULT

Viriat 25-35 (set-14)

Via Augusta 358 (set-14)

Pl. Alfonso Comín (set-14)

Torrent de l'Olla 203 (set-14)

Mas Casanova 71 (set-14)

Via Favència 21 (set-14)

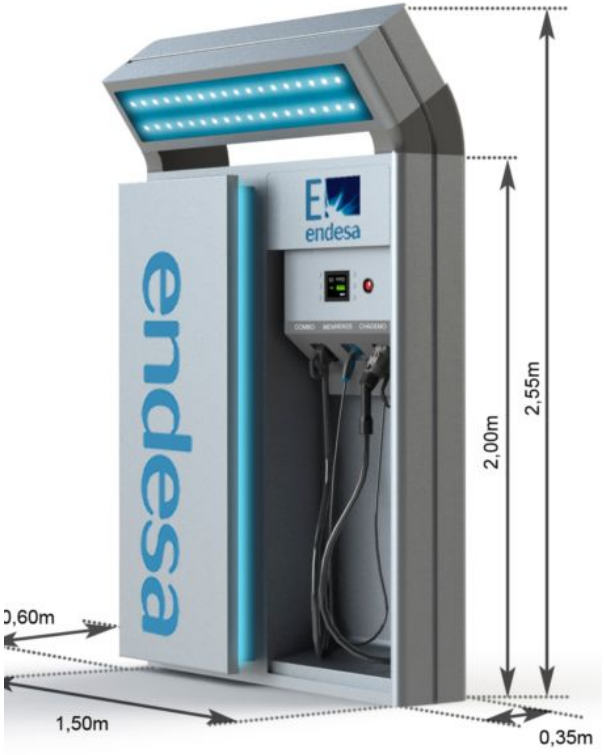
Av. Meridiana 408 (set-14)

Mercabarna (MERCABARNA) (des-14)

Pla de Palau 4 (des-14)

Fra Juniper Serra 59 (des-14)

PdRR FASTO universal. Conveni ENDESA



Provença 447 (set-14)

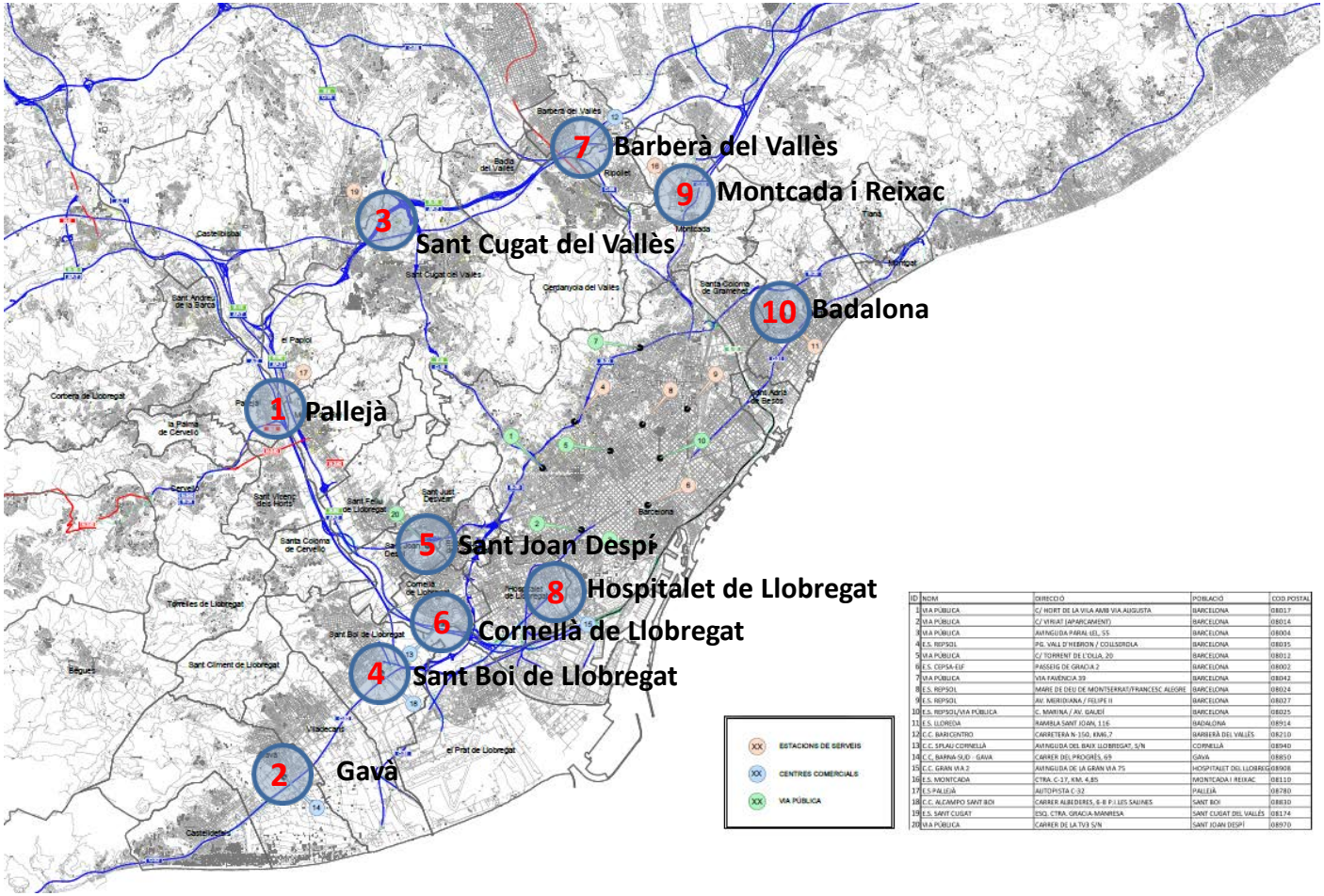
Av. De l'Estatut de Catalunya (fotovoltaica) (des-14)

Av. Diagonal (BIMSA) (feb-15)

Pg. De Gràcia (BIMSA) (feb-15)

Av. Paral·lel (BIMSA) (feb-15)

(2015 T1) 10 PdRR públics universals a lÀrea Metropolitana de Barcelona



ID	NOM	DIRECCIÓ	POBLACIÓ	CODI POSTAL
1	VIA PÚBLICA	C/ HORT DE LA VILA AMB VIA AUGUSTA	BARCELONA	08017
2	VIA PÚBLICA	C/ VIRIAT (APARCAMENT)	BARCELONA	08014
3	VIA PÚBLICA	AVINGUDA PARAL·LEL, 55	BARCELONA	08004
4	E.S. REPSOL	PG. VALL D'HEBRON / COLLSEROLA	BARCELONA	08035
5	VIA PÚBLICA	C/ TORRENT DE L'OLLA, 20	BARCELONA	08012
6	E.S. CEPSA-ELF	PASSEIG DE GRACIA 2	BARCELONA	08002
7	VIA PÚBLICA	VIA FAVENCIA 39	BARCELONA	08042
8	E.S. REPSOL	MARE DE DEU DE MONTSERRAT/FRANCESC ALEGRE	BARCELONA	08024
9	E.S. REPSOL	AV. MERIDIANA / FELIPE II	BARCELONA	08027
10	E.S. REPSOL/VIA PÚBLICA	C. MARINA / AV. GAUDÍ	BARCELONA	08025
11	E.S. LLOREDA	RAMBLA SANT JOAN, 116	BADALONA	08914
12	C.C. BARICENTRO	CARRETERA N-150, KM6,7	BARBERÀ DEL VALLÈS	08210
13	C.C. SPUAU CORNELLÀ	AVINGUDA DEL BAIX LLOBREGAT, S/N	CORNELLÀ	08940
14	C.C. BARNA-SUD - GAVÀ	CARRER DEL PROGRÉS, 69	GAVÀ	08850
15	C.C. GRAN VIA 2	AVINGUDA DE LA GRAN VIA 75	HOSPITALET DEL LLOBREG	08908
16	E.S. MONTCADA	CTRA. C-17, KM. 4,85	MONTCADA I REIXAC	08110
17	E.S PALLEJÀ	AUTOPISTA C-32	PALLEJÀ	08780
18	C.C. ALCAMPO SANT BOI	CARRER ALBEDERES, 6-8 P.I LES SALINES	SANT BOI	08830
19	E.S. SANT CUGAT	ESQ. CTRA. GRACIA-MANRESA	SANT CUGAT DEL VALLÈS	08174
20	VIA PÚBLICA	CARRER DE LA TV3 S/N	SANT JOAN DESPÍ	08970

SOME INITIAL RESULTS

Ajuntament
de Barcelona