

Green eMotion

Málaga's experience in GeM project

Brussels. February 24th, 25th and 26th 2015

Jaime Briales. Municipal Energy Agency of Málaga. Director

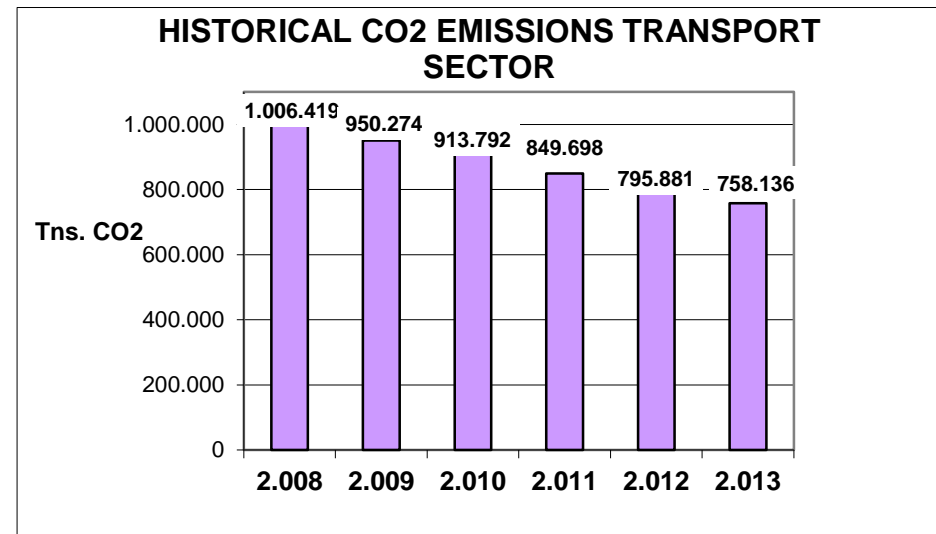
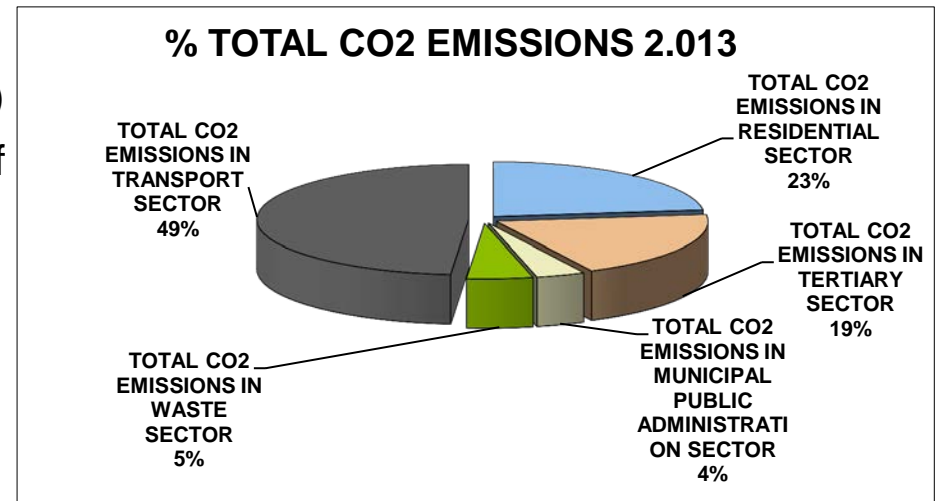


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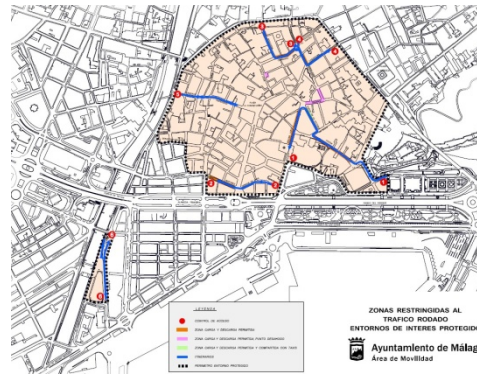
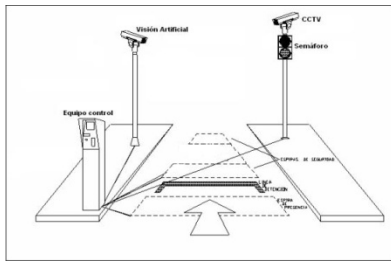
Málaga's vision and strategies as a demo region (WP02)

- **Goal:** To reduce CO₂ emissions by 20% from 2008 to 2020 (Covenant of mayors)
 - Emissions in transport sector: 49% of the total in 2013
 - CO₂ emissions in **transport sector**: 24,67% reduction from 2008 to 2013
- **Initiative:** European and international projects (e-Mobility, Smartcity Zem2All and Victoria)
- **Initiative:** Infrastructure for EV
 - 21 QCP in Málaga
 - 1 QCP in Fuengirola
 - 1 QCP in Marbella
 - 6 SCP in municipal underground parking garages
- **Initiative:** Municipal EV
 - 45 EV through renting
 - 4 12-meter hybrid municipal buses



Incentives and policies in Málaga (WP01)

- **Access to restricted areas**



- **New exclusive parking spaces**



- **Discounted rates**

- On surface parking (blue zones)
- 45 minutes for free in municipal underground parking garages

- **Local taxes : 75% discount on municipal vehicle taxes**



ZONA DE APARCAMIENTO EN BATERÍA



ZONA DE APARCAMIENTO EN LÍNEA



ZONA DE RECARGA EN BATERÍA



ZONA DE RECARGA EN LÍNEA



Key features for implementation of Electric mobility (WP02)



- **Málaga: leader of task 2.4**

- **Local background:**

- Meeting (Málaga) -> February 2012
- Deliverable 2.4 -> 1st version March 2013
- Workshop (Málaga) -> April 2013
- Updated Deliverable 2.4 -> 2nd version December 2014

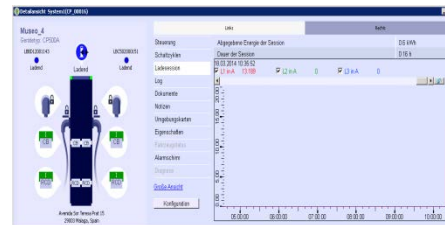
- **Conclusions:**

- **Infrastructure:** Standard criteria for the development of quick and normal charging infrastructure; standardized quick and normal charging protocols; standardization of signage and use of IT to locate charging points; simplification of the billing systems, both domestic and roaming; less administrative bureaucracy; integration in the electric grid
- **Vehicles:** Promote price competitiveness of EV; extended variety of EV designs; break through the "range anxiety" barrier; appropriate maintenance network
- **Policies, financial incentives, marketing and communications:** Grants and subsidies; financial incentives and tax breaks for EV; general local incentives for EV; promotion and dissemination of green transport
- **Freight Urban Electric Vehicles:** green logistic centers and loading and unloading charging areas; access to controlled zones; the application of new ICT...



Malaga as demo region of GeM (WP08)

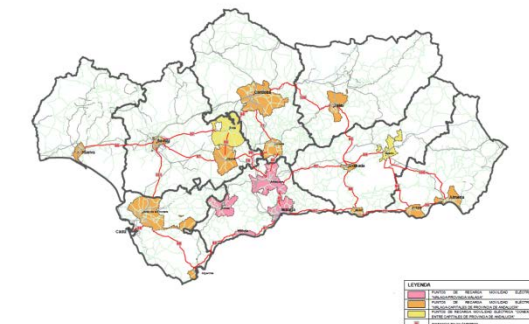
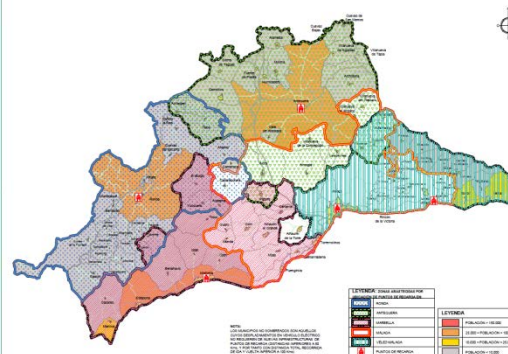
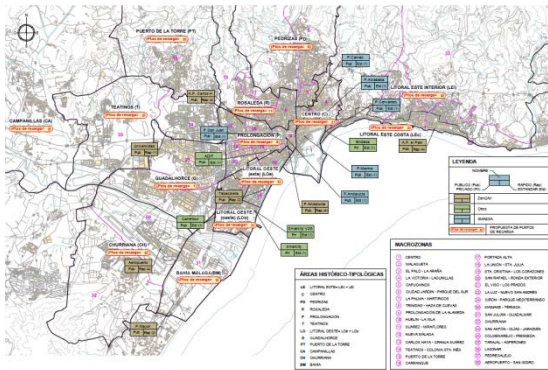
- **Load Management:** 10 Siemens CP500A charging points with the capability of performing Load Management have been installed and tested



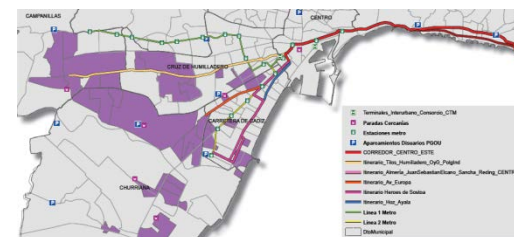
- **DC Quick Charging with storage:** One 50 kW Quick charger and an Energy Storage System, composed by a second life battery and a 20kW bidirectional converter have been installed and tested



- **Electric vehicles public charging stations and infrastructures expansion plan**



- **Urban electric public transport feasibility plan**



Dissemination (WP10). GeM in Greencities

Greencities is an annual fair with a complete program of conferences, project presentations, and round tables for debates about mobility, smart buildings, energy efficiency and environment.

- Conferences and round tables**

2012



2013



2014



- Test drives (2012, 2013 and 2014):** attendees could test different electric vehicles: Renault Twizy, Renault Zoe, Nissan Leaf, Nissan e-NV200, BMW i3,...



- GeM stand**



2012

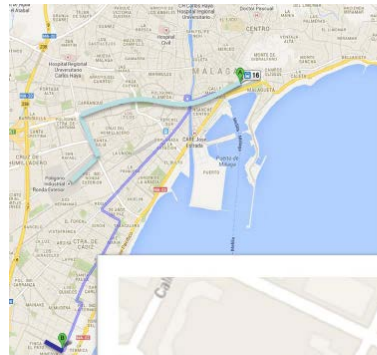
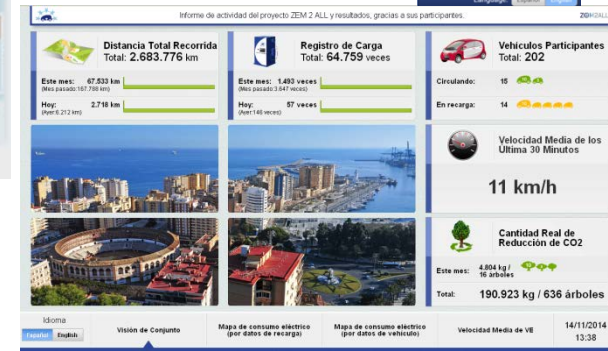


2013

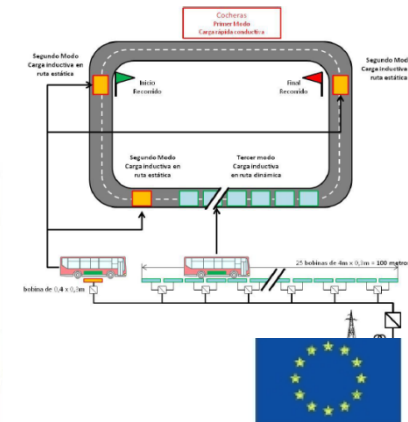
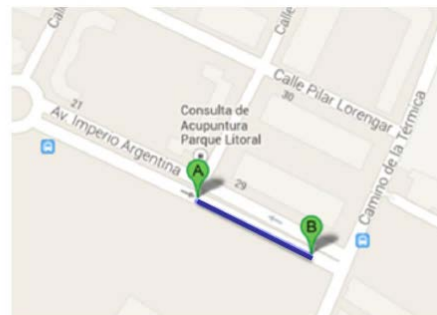


2014

Relationship between GeM and other electric mobility projects in Málaga



GULLIVER ELÉCTRICO MD. U520 ESP/LR



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Thank you for your attention

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