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The 27th **INTERNATIONAL  
ELECTRIC VEHICLE  
SYMPOSIUM & EXHIBITION.**

Barcelona, Spain  
17th-20th November 2013



## **Pilot test in Vigo & CIP projects clustering**

**Diego Rodríguez Nión**  
**CTAG – Galician Automotive Technology Centre**

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## MobiEurope : pilot test in Spain : Vigo



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**vigo**

**population: ~300.000 (~480.000 including metropolitan area)**

**mid size city – although largest city in the region (Galicia)**

**NO tramway - NO subway - NO bike sharing - hardly bike lanes  
→ limited mobility options**

**are alternative mobility initiatives possible in mid size cities?**

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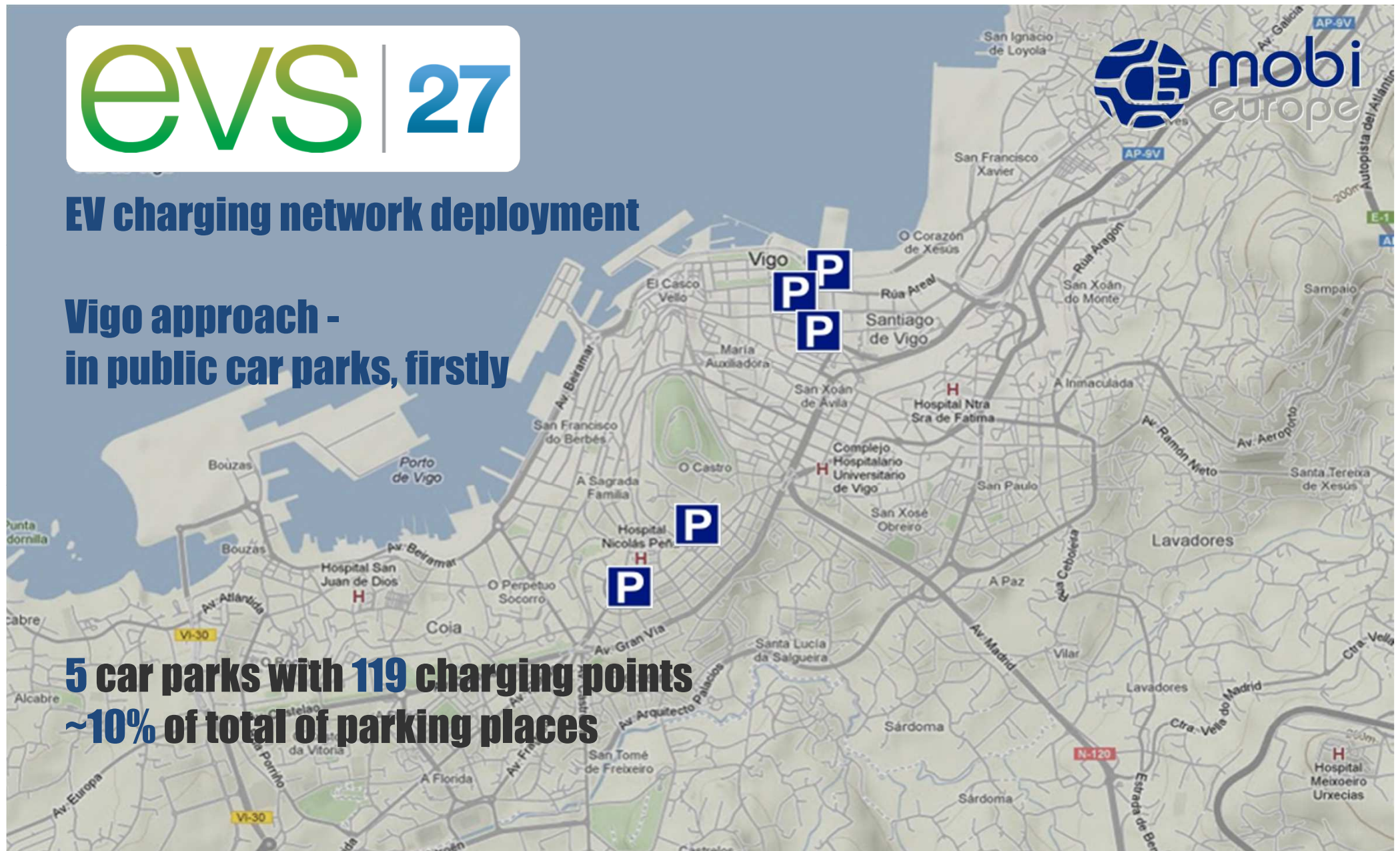




## EV charging network deployment

**Vigo approach -  
in public car parks, firstly**

**5 car parks with 119 charging points  
~10% of total of parking places**



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## services overview within MobiEurope

**Charging points in parking lots**  
**EV car-sharing**  
**International roaming**  
**User-EV interaction**

**Welgood**  
solutions



**faimievi**  
axencia  
da enerxía  
de vigo

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## Charging points in parking lots

**ITS infrastructure**

**Integration of ICT services:  
payment, multimedia, car sharing, charging points...**

**Charging network management**

**Telematics highway VIAT payment integration**

**RFID remote services for payment and user identification**

**Indication of parking places availability**

**5 parking facilities in Vigo**

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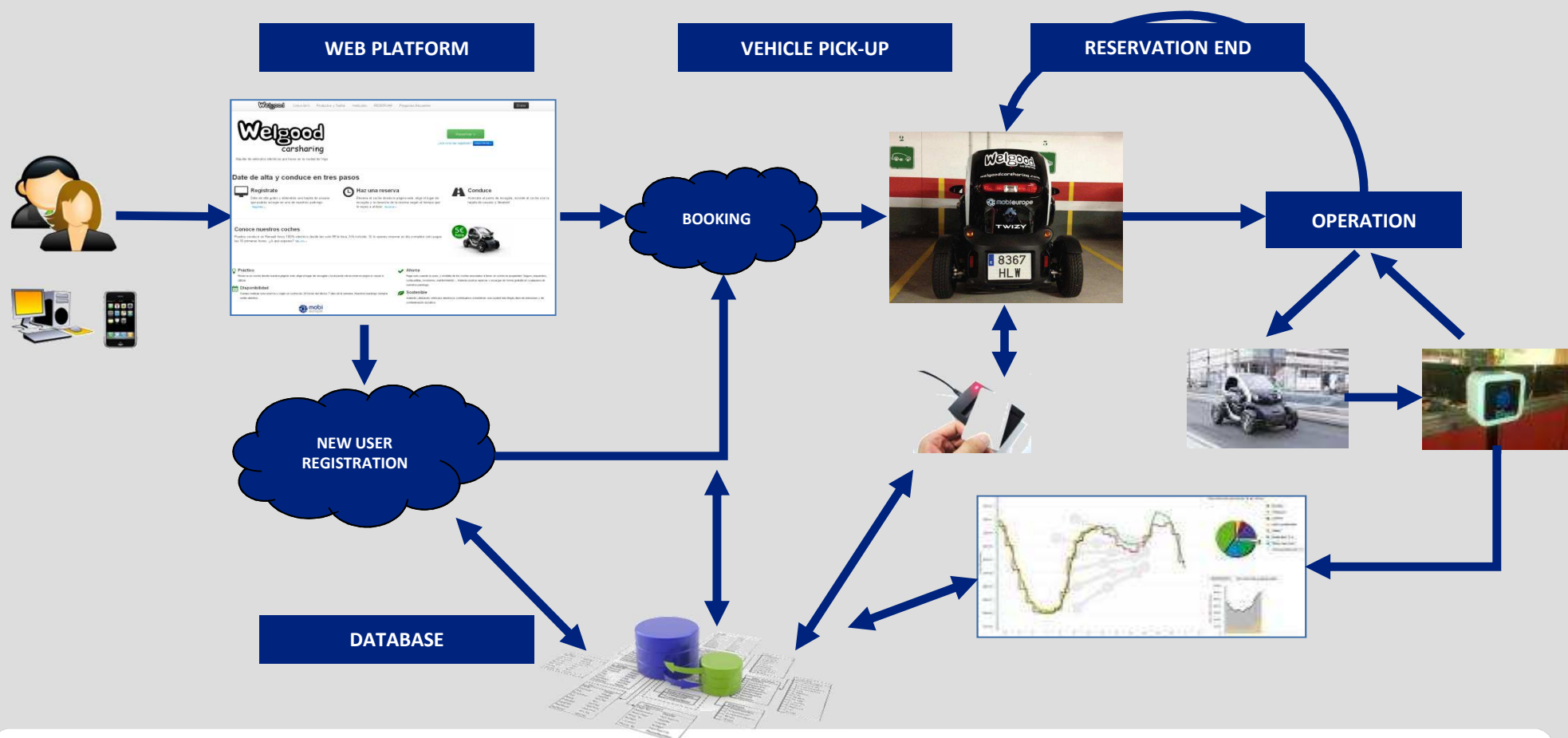


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## EV car-sharing service



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## EV car-sharing service



**18 cars (Renault Twizy, Citroën C-Zero, Peugeot Ion)**  
**92 users**  
**11.784 km**

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## International roaming



**Vigo →**  
**35km to the portuguese border**  
**150km to Porto**

**“Vigo-Porto electromobility corridor”**



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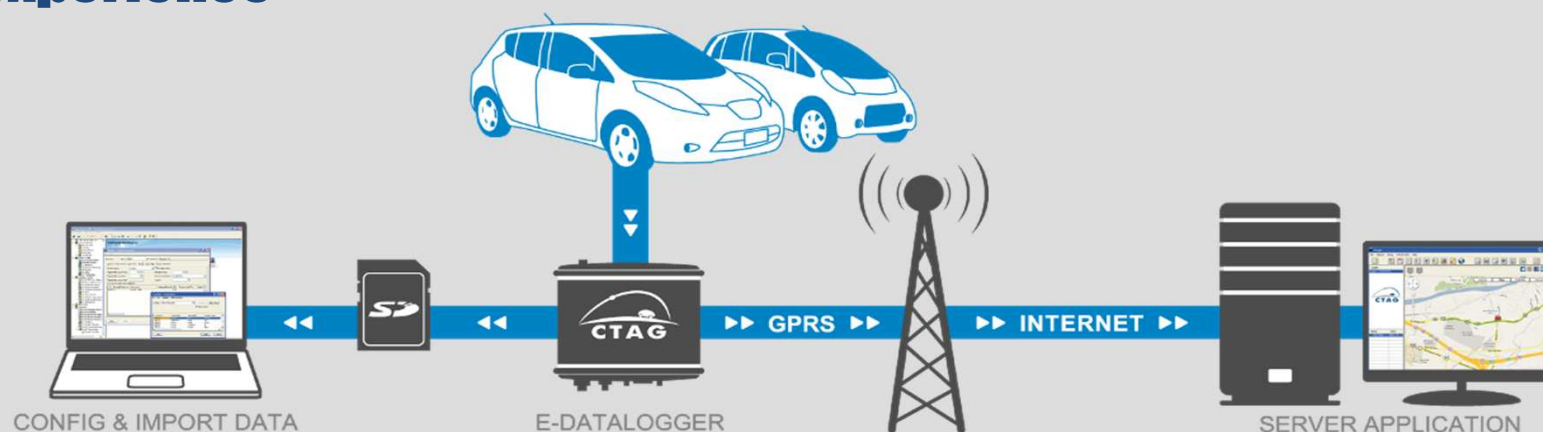
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## User-EV interaction

**Interactive applications for electro-mobility**

**E-datalogger solution for real-time monitoring of EV parameters and driving data**

**Specific questionnaire for EV drivers to assess driver behaviour and user experience**



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## CIP-ICT-PSP.2011.1.3 Smart Connected Electro-Mobility



**MobiEurope  
SmartCEM  
Molecules  
ICT4EEU**

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## **MobiEurope – Integrated and interoperable ICT applications for ElectroMobility in Europe**



**Dublin  
Limerick**

**Amsterdam**

**Vigo**

**Porto**

**Lisboa**

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smartCEM

## SmartCEM – Smart Connected Electro Mobility

Newcastle

San Sebastián

Turin

Barcelona

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**Molecules – Mobility based on electric connected vehicles in urban and interurban smart, clean, environments**

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Paris

Barcelona

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## ICT4EVEU – ICT services for electric vehicle enhancing the user experience

Bristol

Maribor  
Ljubljana

Vitoria  
Pamplona

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**MobiEurope  
SmartCEM  
Molecules  
ICT4EVEU**

**Coordination activities -  
3 experts working groups:  
Evaluation  
Architecture  
Dissemination**

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## **Working group on Evaluation**

### **Objectives:**

**Creation of common list of indicators**

**Environmental**

**Transport and mobility**

**User uptake**

**Economic**

**Development/employment of common methodology (based on FESTA)**

**Creation of common Pilot & Evaluation Guidelines for CIP project pilots**

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## **Working group on Architecture**

### **Objectives:**

**To define common architecture templates (use case, system requirements, common high level architecture)**

**To establish common vocabulary**

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## Working group on Dissemination

### Objectives:

To promote common dissemination activities

To organise common actions

To exchange information on dissemination (potencial events, ...)

To coordinate representation of the 4 CIP projects at events

### Events:

Common launch event at EU Parliament - Brussels

Common dissemination at ITS World Congress 2012 – Vienna

CIP ICT PSP Smart Electromobility Event - Vitoria



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**Thank you!**  
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