Projects

TEN-T Trans-European Transport Network

Ele.C.Tra – Electric City Transport

City Office of Energy, Environment and Sustainable Development

CEGC

Central European Green Corridors

Fast Charging Cross Border Infrastructure for Electric Vehicles, Connecting Austria, Slovakia, Slovenia, Germany and Croatia

TEN-T 2013 Annual Call; *2013-EU-92069-S (26040482)*

Project Overview

Co-financed by the European Union
Trans-European Transport Network (TEN-T)

City Office of Energy,
Enviroment and Sustainable Development

FOND ZA ZAŠTITU OKOLIŠA
I ENERGETSKU UČINKOVITOST

Key Facts Central European Green Corridors

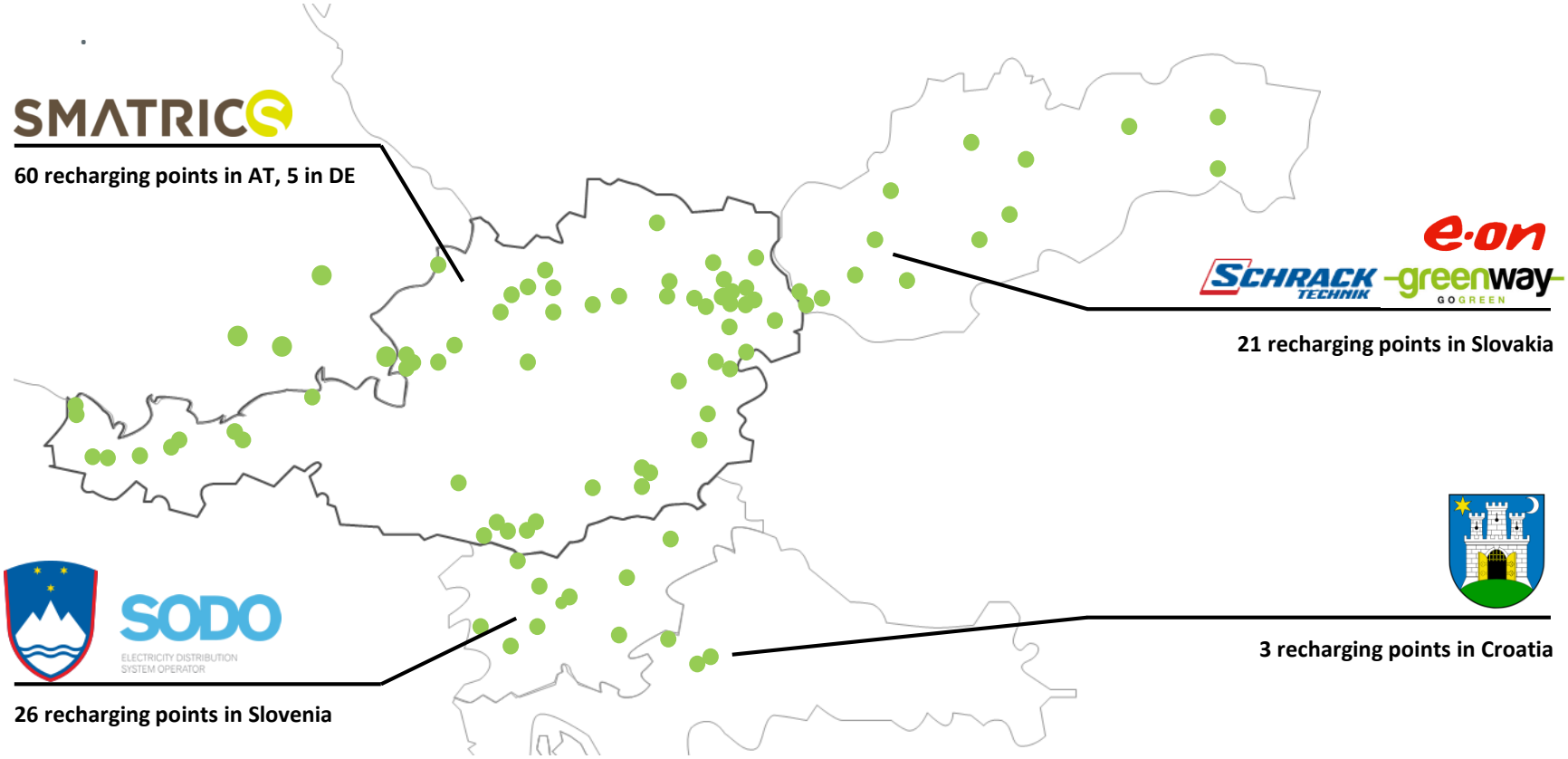
- **Project aim: to support the roll out of e-mobility, the following tasks will be implemented**
  - **Installation of 115 high power recharging points (CCS, CHADEMO, AC) thereof 60 in Austria, 26 in Slovenia, 21 in the Slovak Republic, 5 in Germany, 3 in Croatia**
  - **Integration of IT systems to provide services for customers & interconnectivity in the network**
  - **Studies on Integration into the Energy System, Integration of Customers, Network and Services Planning**
  - **Quality management, montoring, project management & communication**
- **Project Coordinator: VERBUND AG**
- **EU Member States: AT, DE, SI, SK, HR, FR**
- **Partner (Beneficiaries & Affiliated Entities): Bayern Innovativ, BMW, Government of Slovenia, GreenWay, Nissan, OMV, Renault, Schrack, Smatrics, VERBUND, Volkswagen, City of Zagreb, ZSE; Associated partners: AustriaTech; ASFINAG, SODO, *et al*.**
- **Budget: €7.124.000, thereof €3.562.000 funding by TEN-T**
- **Project Duration: 15th March 2014 – 31st December 2015**

City Office of Energy,
Enviroment and Sustainable Development

FOND ZA ZAŠTITU OKOLIŠA
I ENERGETSKU UČINKOVITOST

CEGC project partners implement 115 high power recharging points in the project area

- Through unified standards and aligned technical specifications CEGC aims at building up a network of multi standard high power recharging stations. Customers in the project region get access to a high quality recharging network.



City of Zagreb charging points

- Three high power recharging points implemented on following locations:
  - Trg Stjepana Radića 1;
  - Park Stara Trešnjevka 2;
  - Avenija Dubrovnik 15.
- Technical documentation: TEB Kompleksni sustavi i rješenja d.o.o., Zagreb
- Contractor: TEB inženjering d.d., Zagreb
- Expert supervision of works: PGT Škunca d.o.o., Zagreb
- Total cost of works: 868.112,32 kn (bez PDV-a)
- Co financing TEN-T program: 434.056,16 kn (50%)
- Co financing FZOEU : 200.000,00 kn
- City of Zagreb budget: 234.056,16 kn
- Charger type: DBT Three-Standard (tri tipa priključka, 43 kW AC za IEC61851-1 type-2 priključak, 44 – 50 kW DC za CHAdeMO priključak i 44 - 50 kW DC za Combo-2 priključak)

City Office of Energy,
Enviroment and Sustainable Development

FOND ZA ZAŠTITU OKOLIŠA
I ENERGETSKU UČINKOVITOST

Co-funded by the Intelligent Energy Europe
Programme of the European Union

Co-funded by the Intelligent Energy Europe
Programme of the European Union

Project goals

Co-funded by the Intelligent Energy Europe Programme of the European Union

- Defining innovative model of sustainable transport which will suit the needs of citizens (short-term sharing or renting e-scooters or e-light vehicle)
- Tourist offer expansion of participating cities in the project
- Raising awareness on the importance of sustainable transport and encouraging a change of behavior in daily travel
- Allow for model sustainability because a total of 300 electric scooters in pilot cities are not financed through project

Co-funded by the Intelligent Energy Europe Programme of the European Union

Project implementation

- Testing the model in 3 pilot cities – Barcelona, Genova, Firenca
- Adaptation of model for other cities and areas - Murcia, Zagreb, Atena, Skopje, Suceava, Lisabon and La Valletta

Why e-scooters and e-light vehicles?

- high level of technological development;
- increasing the share of e-vehicles in traffic caused by rising fuel prices;
- in the pilot cities - Genoa, Florence and Barcelona, the share of scooters and e-vehicles is between 15 and 20%;
- reduction of air pollution caused by traffic
- improving the quality of life
- noise reduction in urban areas

Co-funded by the Intelligent Energy Europe Programme of the European Union

Project results

- Development of project application - http://maps.electraproject.eu/
- Pilot cities– model implementation
- Barcelona – the withdrawal of the private operator Mottit from the pilot area
  – reasons – small pilot area, the availability of other means of transportation, large flat areas, new operators, learning from mistakes, introduction new possibilites in business
- Genoa – development of e-mobility through the support of local incentives (access to limited zones, free charging of e-vehicle, free parking)
  development of application for easier usage of e-vehicle (availability of e-chargers, location of the e-chargers), >100 e-vehicle available for usage
- Firenza – development of e-mobility through the support of local incentives (access to limited zones, free charging of e-vehicle, free parking, a 50% reduce tax on e-vehicles); over 400 e-vehicles circulating on the streets,
  an internal e-vehicle sharing, sales to private and business customers
- Accesability to Ele.C.Tra KIT by other cities and areas

Co-funded by the Intelligent Energy Europe Programme of the European Union

City of Zagreb in project

- non-pilot city
- collection of experiences within the pilot cities
- analysis of electromobility in the city of Zagreb
- defining the model
- dissemination of electromobility - signing agreements with other stakeholders (EIHP, Zagrebparking, Zagreb Tourist Board)

City of Zagreb in project

Co-funded by the Intelligent Energy Europe Programme of the European Union

- implementation possibilities–agreements with suppliers Ema-skuteri, Electa
- presentations on energy week
- production of the feasibility study
- defining the operational plan

Co-funded by the Intelligent Energy Europe Programme of the European Union

City of Zagreb in project

- three possible scenarios for e-light vehicle sharing:

  - building infrastructure of e-chargers
  - battery replacement
  - using during day, charging during night

- private owners of e-light vehicle and e-scooters

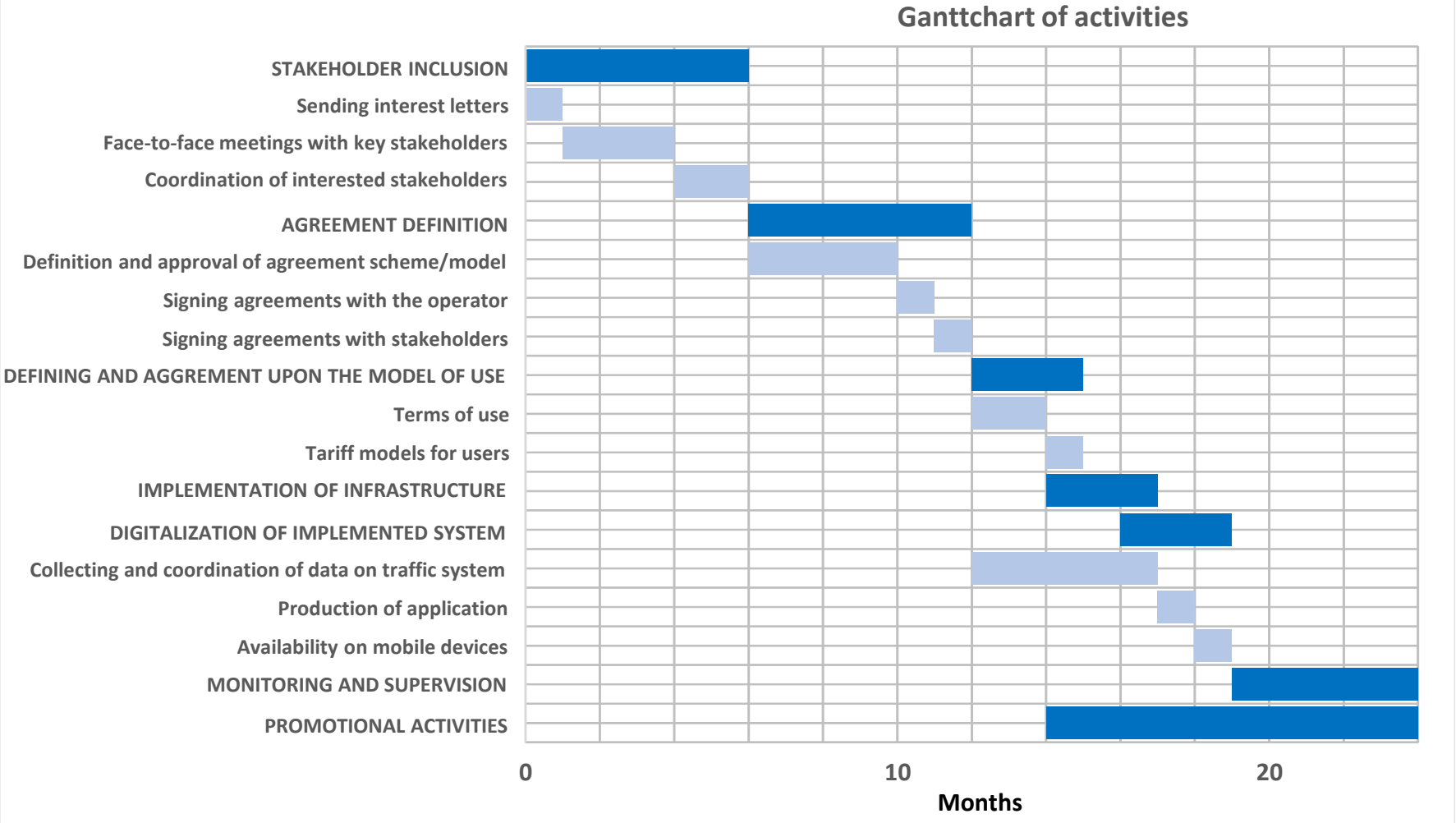
  - increase the share of e-light vehicle and e-scooters among private persons; Various incentives for purchasing e-vehicles (discounts, free charging, access to limited zones, free parking in the city centre,…)

- business owners of e-light vehicle and e-scooters

  - sharing system for employees within bigger companies

City of Zagreb in project

Co-funded by the Intelligent Energy Europe Programme of the European Union



IEE/12/041/SI2.644730 – Ele.C.Tra.
01 July 2013 – 31 December 2015

INTELLIGENT ENERGY EUROPE

Gradski ured za energetiku, zaštitu okoliša i održivi razvoj

Co-funded by the Intelligent Energy Europe Programme of the European Union

Thank you for your attention!

maja.sunjic@zagreb.hr

City office for energy, enviroment and sustainable development

IEE/12/041/SI2.644730 – Ele.C.Tra.
01 July 2013 – 31 December 2015

INTELLIGENT ENERGY EUROPE

Gradski ured za energetiku, zaštitu okoliša i održivi razvoj