



e=MOBILITY
WORKS



Integration of e-mobility in European municipalities and businesses



MARIBOR EXPERIENCES

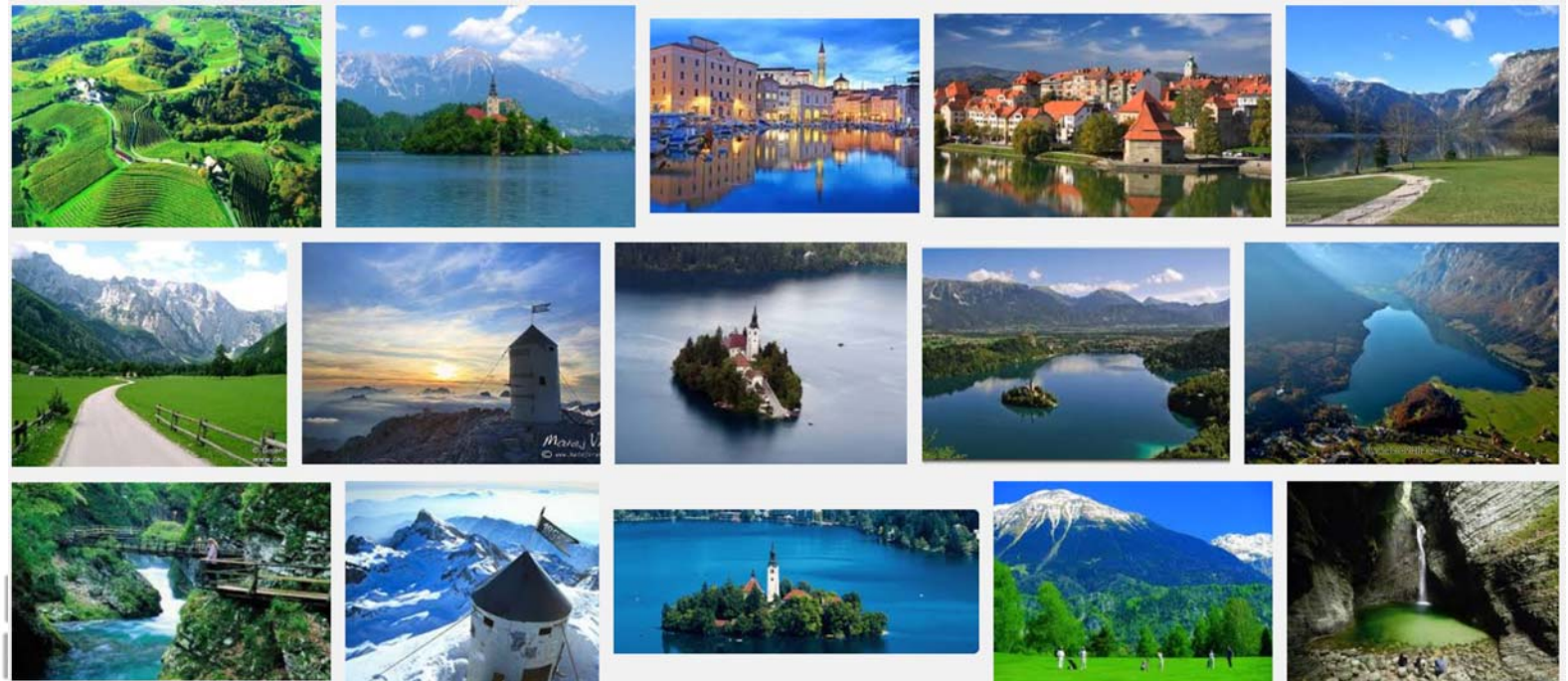
Vlasta Krmelj and Adrijana Copot

Energy agency of Podravje

25th MAY 2016

SLOVENIA

- In 2012 1.078 mio. vehicles registered
- Slovenia is 99,9 % dependent on the imported fuel
- number of cars using diesel around 36% in 2011, 64% benzoin and 0,1,% alternative fuels
- In 2012 150 e-cars and 34 electric filling stations, in 2015 245 e-cars and 186 filling station – 26 fast along the highways
- National subsidies for buying electric vehicles:
 - 4.000 EUR for a new car, in 2012 only 62 persons used them, 98 in 2014
 - up to 7.000 EUR in 2016
- Economic crisis still influence people's behaviours



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MARIBOR

- 2nd the biggest city in Slovenia, 115.000 inhabitants, regional centre
- Local energy concept 2009
- Covenant of Mayors initiative signed in 2011
- Sustainable energy action plan in 2013
- Sustainable urban mobility plan in 2015
- Renovation of Local energy concept in 2016 with e-mobility action plan integrated
- Many projects and activities implemented for sustainable mobility in last 5 years

Presežimo zastavljen cilj – zmanjšanje rabe energije za 3% letno!



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Co-
Prc

Za vsebino je odgovorna Energap in v nobenem pogledu ne izraža stališča Evropske unije.



MARIBOR PIONEER IN E-MOBILITY - 1

- Pilot and demonstration project for promotion: Company Elektro Maribor and Company Dravske elektrarne Maribor (electricity distribution and hydropower stations operator and electricity producer) started with e-filling stations and vehicles in 2011
- Filling stations – slow and quick charge
- Charging is free of charge



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MARIBOR PIONEER IN E-MOBILITY - 2

- Monitoring of the results
- Informational and promotional campaign: leaflets, conferences, workshops
- Promotion of RES – 100% hydropower
- Free parking spaces for e-vehicle in the city centre



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PUBLIC COMPANIES

- Waste management company - SNAGA
- Public bus operator – public procurement for e-buses
- Testing and promotion activity at the University of Maribor with 100 % RES from FV and regionally manufactured batteries



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PRIVATE SECTOR

- Charging stations in private companies, shopping centres,..
- Local e-bus producer TAM DURABUS,
- E-car rental and sharing AVANT CAR



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E-MOBILITY AND ICT DEVELOPMENT

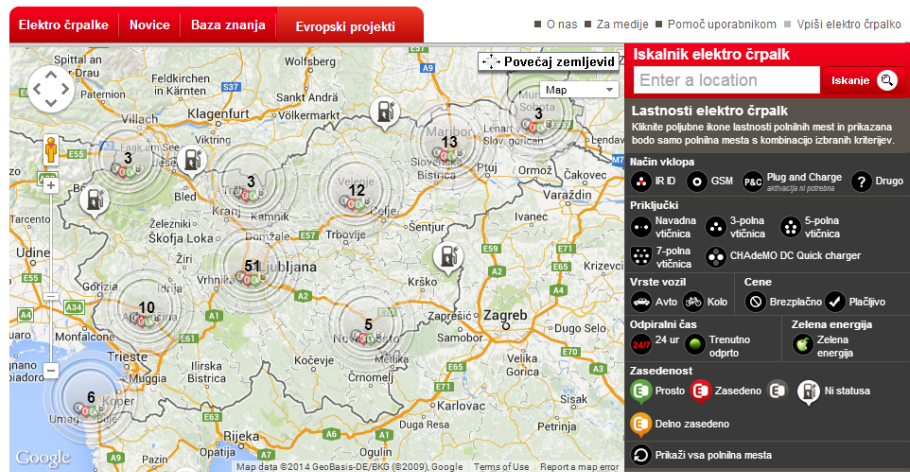
- Develop the ICT tool for business car pooling and sharing
- Application for the charging stations

elektro  črpalke

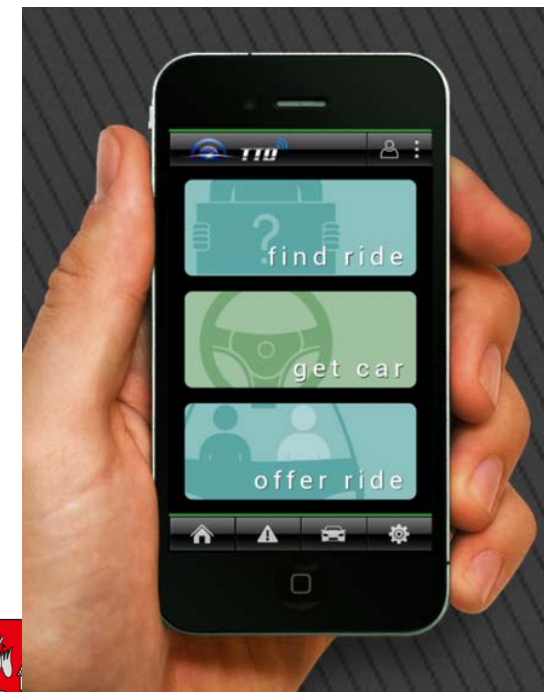
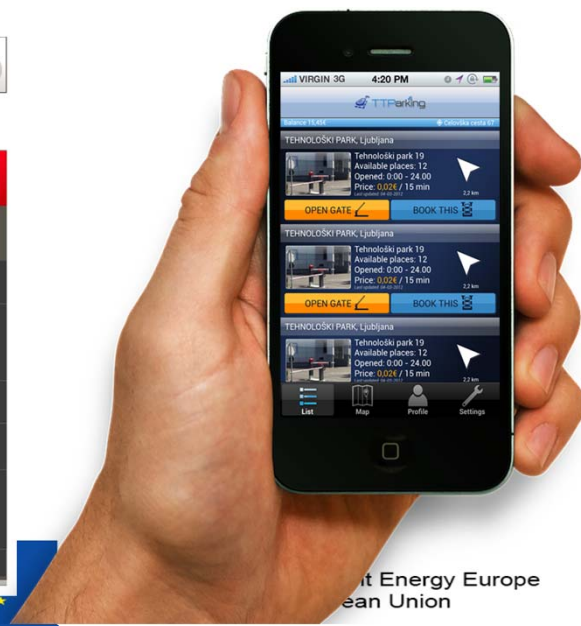
Slovenski iskalnik očitnih mest za električno vozilo - www.elektro-crpalke.si

Ste lastnik elektro črpalke?

>> VPIŠITE NOVO elektro črpalke 



The screenshot shows the website interface for 'elektro črpalke'. It features a map of Slovenia with various charging stations marked. The sidebar on the right contains search filters for 'Iskalnik elektro črpalke', including options for 'Način vstopa' (IR ID, GSM, Plug and Charge), 'Priključki' (Navadna višičnica, 3-polna višičnica, 5-polna višičnica, 7-polna višičnica, CHADEMO DC Quick charger), 'Vrste vozil' (Avto, Kolo, Brezplačno, Plačljivo), 'Odpiralni čas' (24 ur, Trenutno odprto), 'Zelena energija' (Zelena energija), and 'Zasedenost' (Prosto, Zasedeno, Ni statusa).



Energy Europe
European Union



TO OVERCOME BARRIERS

- Knowledge and skills
- Finances and economy
- Policy and legislation
- Administration
- Organisational
- Cooperation

- Educational and informational campaign for wider public and target groups
- Special education campaign for public administration – green procurement roles, operation of the e-vehicles, bikes and motors
- National subsidies, local energy-climate fund subsidies, free charging and parking, ...
- Policy and strategies with action plans approved by high and low level decision makers
- To have wider stakeholders groups including public and private sector, University, Chamber of commerce, crafts, association of energy related companies, batteries producers,...
- Cooperation with all stakeholders, sharing the information, plans, good and bad practices, ... cooperate in projects
- New business opportunity, research and development

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<http://maribor-pohorje.si/o-mariboru-in-destinaciji.aspx>

Thank you for your attention!



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