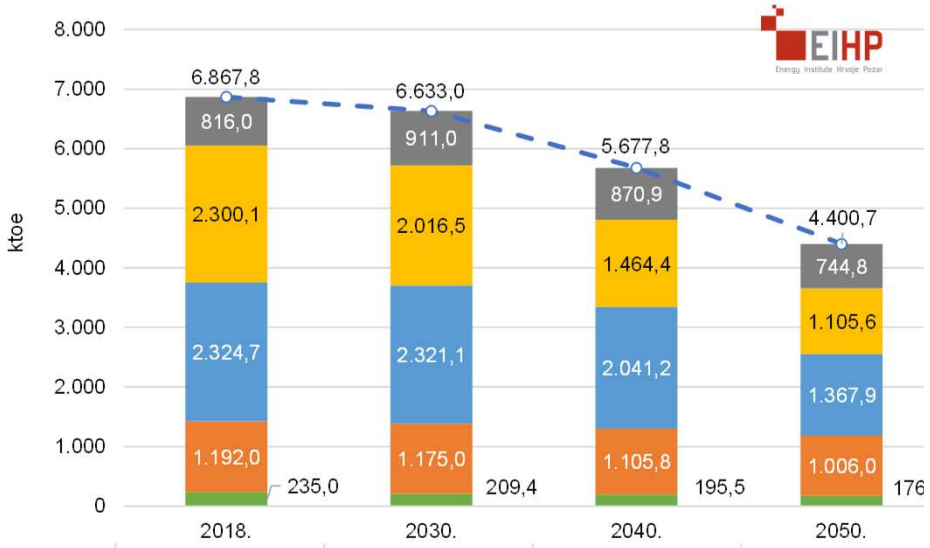
22 April 2021

National and regional aspects of the sustainable transport and concrete e-mobility actions done by Energy Institute Hrvoje Požar (EIHP)

PROSPECT2030 | EIHP| Bruno Židov, Tomislav Čop, Matija Vajdić

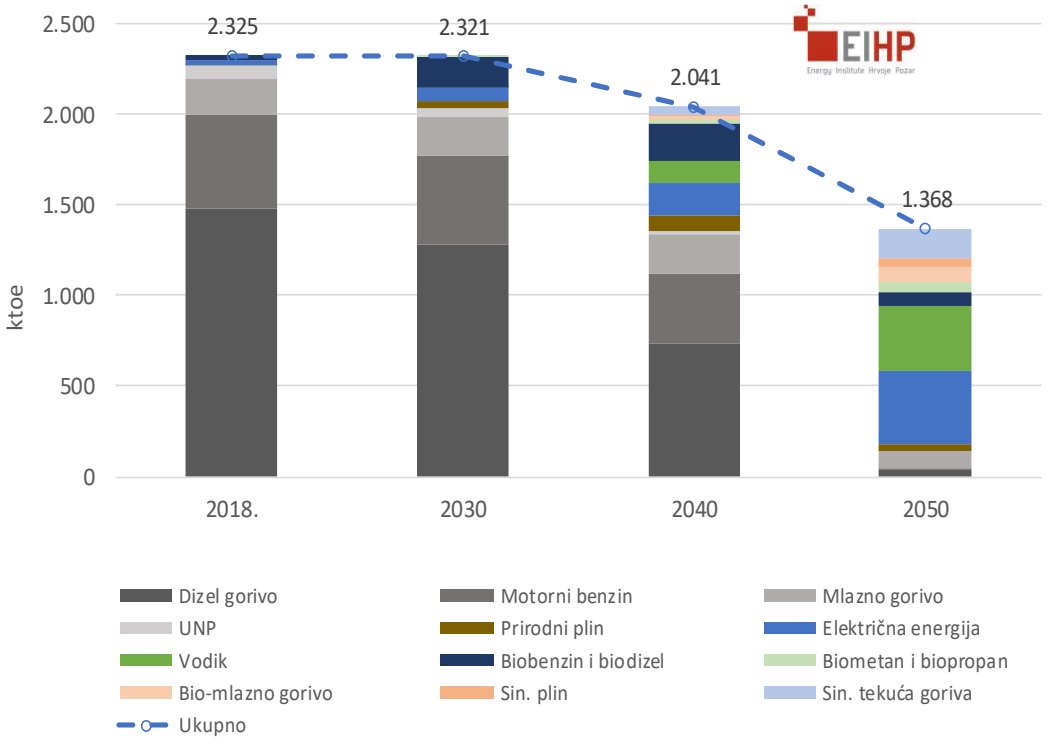
SCENARIO FOR ACHIEVING CLIMATE NEUTRALITY BY 2050 – CASE STUDY CROATIA

Final energy consumption



	2018.	2030.	2040.	2050.
Usluge	12%	14%	15%	17%
Kućanstva	33%	30%	26%	25%
Promet	34%	35%	36%	31%
Industrija	17%	18%	19%	23%
Poljoprivreda	3%	3%	3%	4%

Final energy consumption in transport



Types of energy efficiency measures in transport

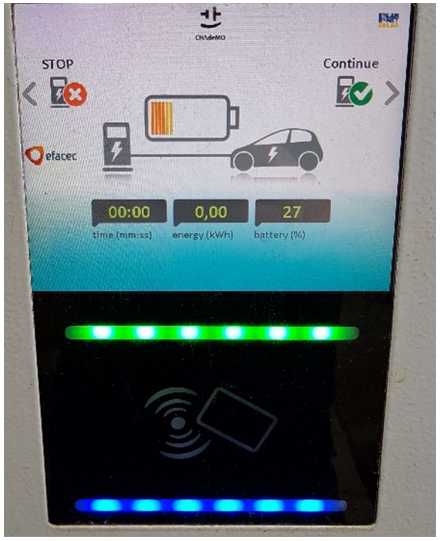
Avoid – policies that reduce travel or the need for travel

Shift – policies to increase shares of trips made on more efficient modes

Improve – policies include technological improvements to increase vehicle and fuel efficiency

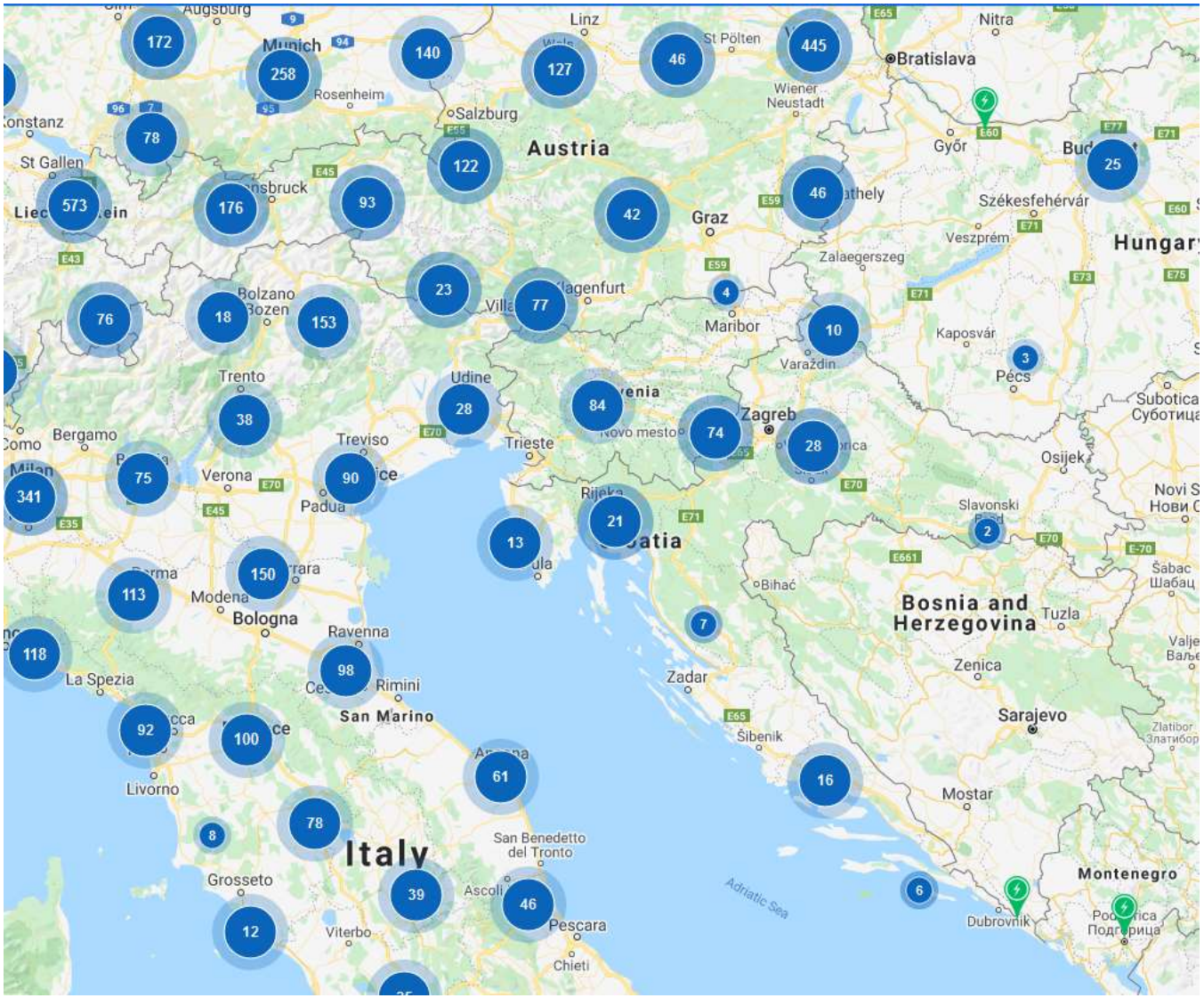
E-MOBILITY

1. Electric vehicle
2. Charging infrastructure
3. IT

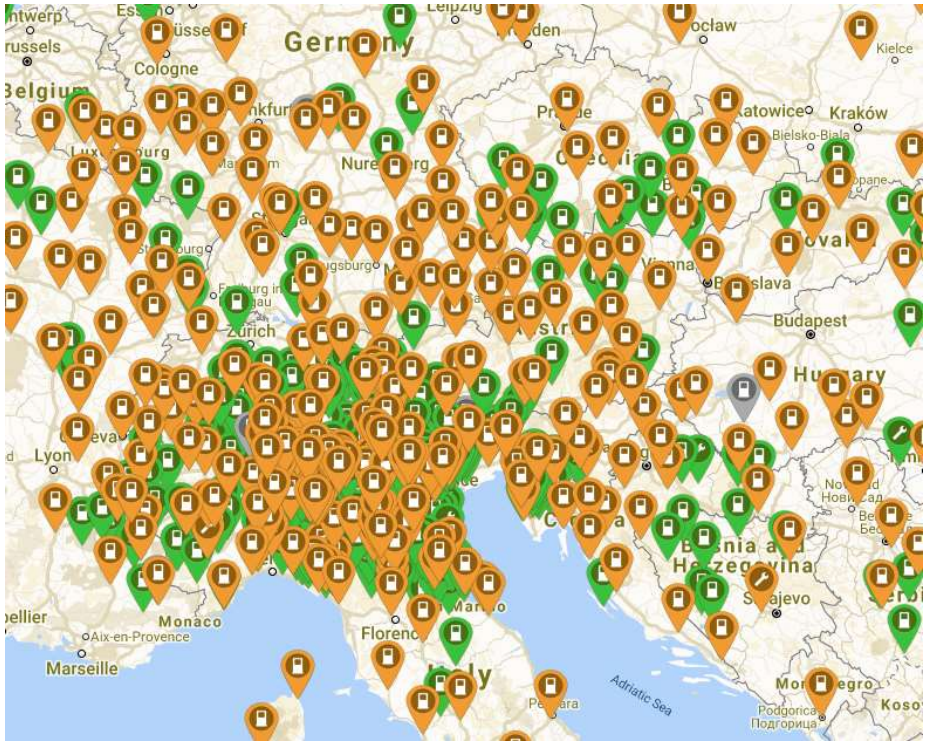


E-MOBILITY

Plugsurfing



Plugsurfing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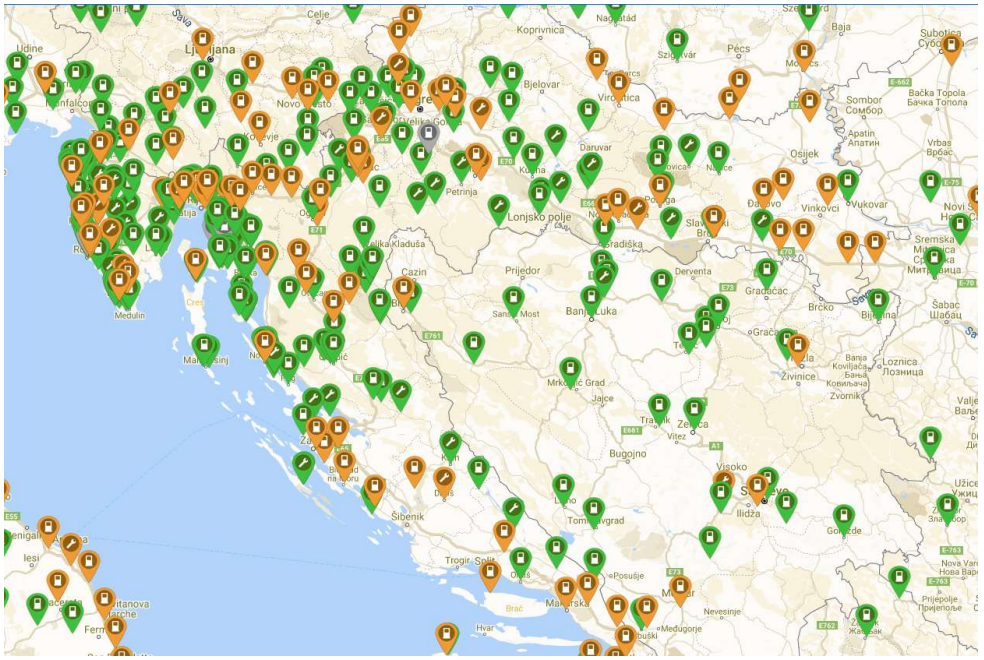
Belgium
Kraków
Budapest
Hungary
Zurich
Lyon
Monaco
Aix-en-Provence
Marseille
Adriatic Sea
Sarajevo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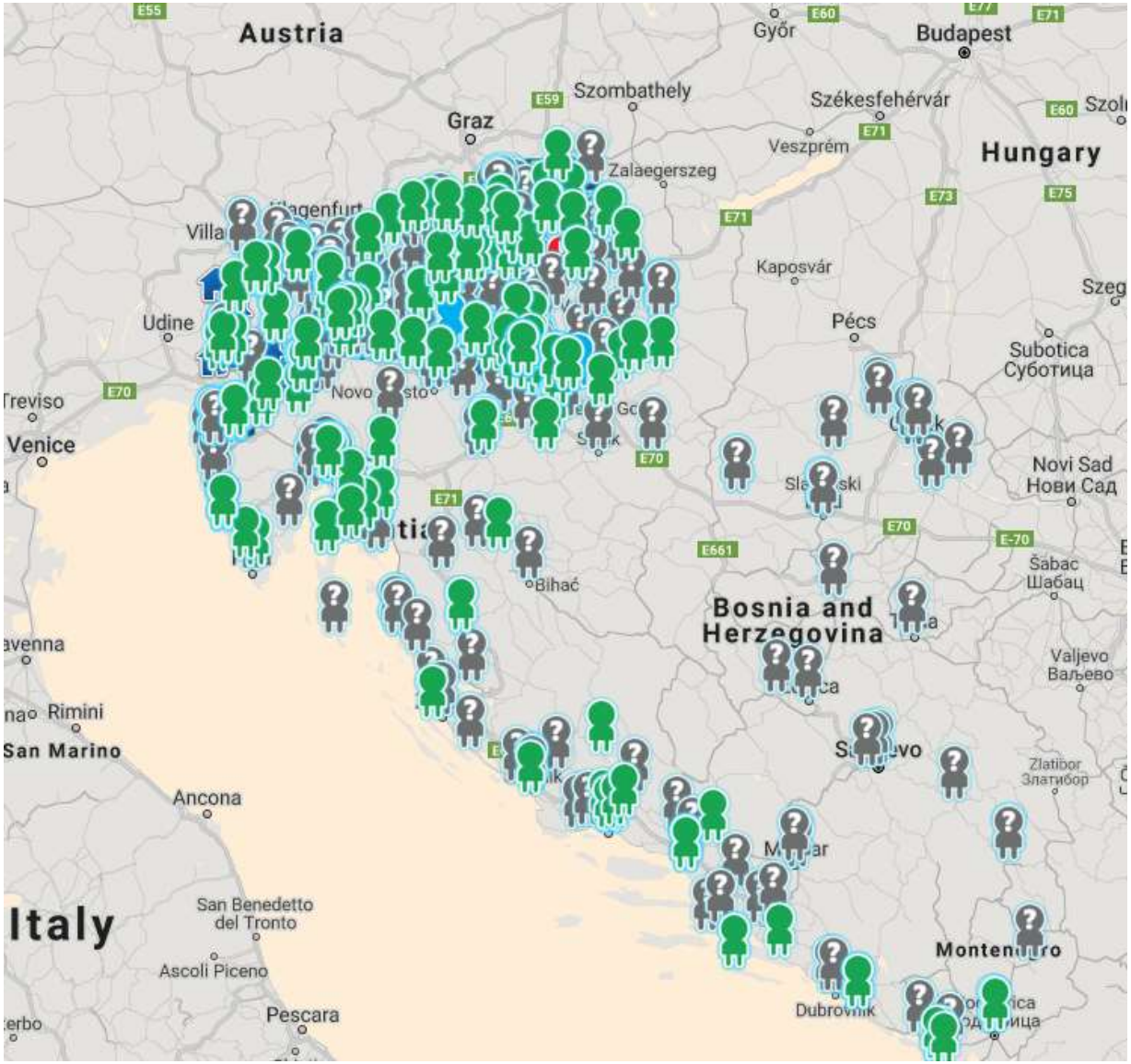
Zagreb
Osijek
Banja Luka
Split
Sibenik
Mostar

Plugshare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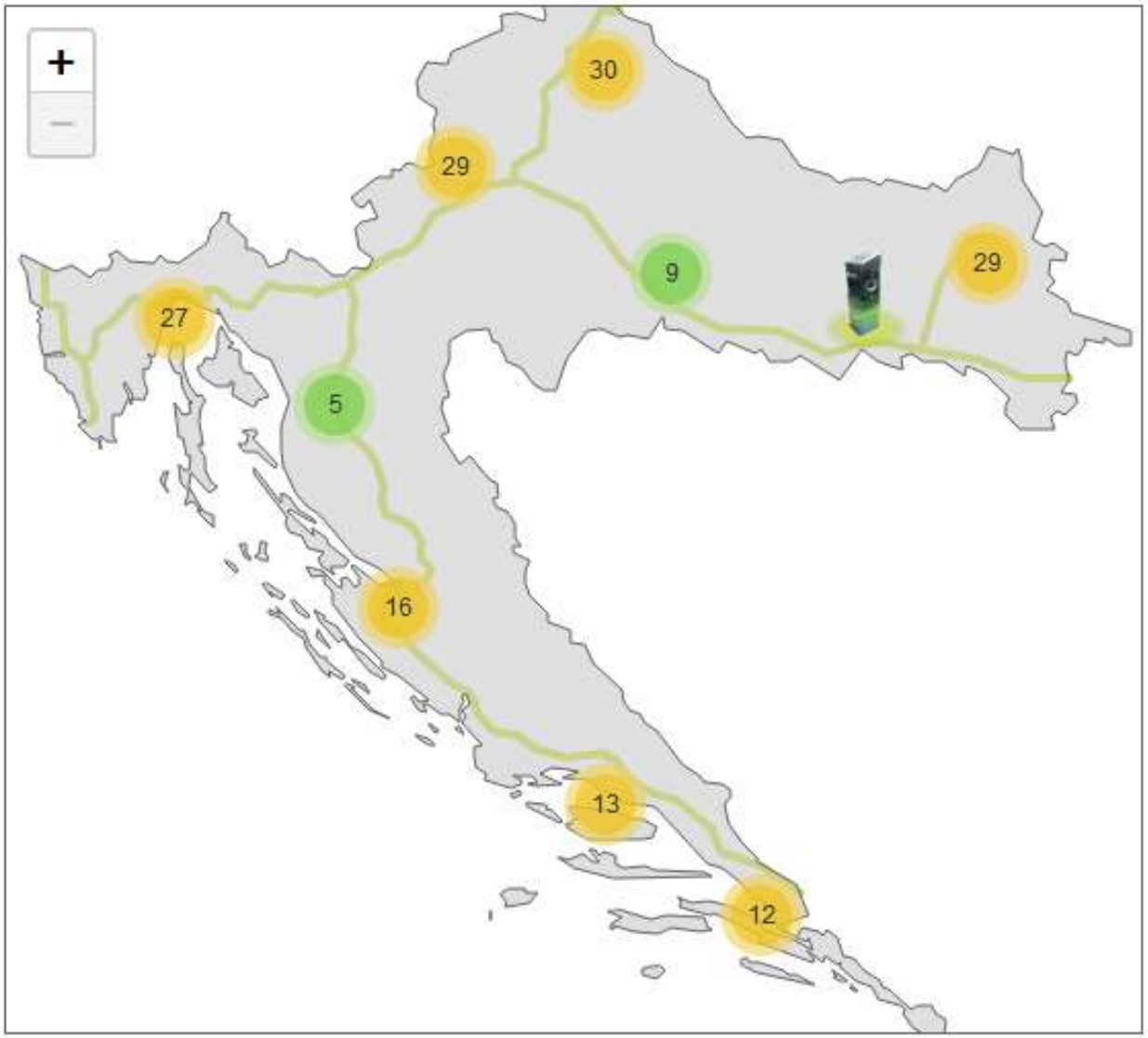
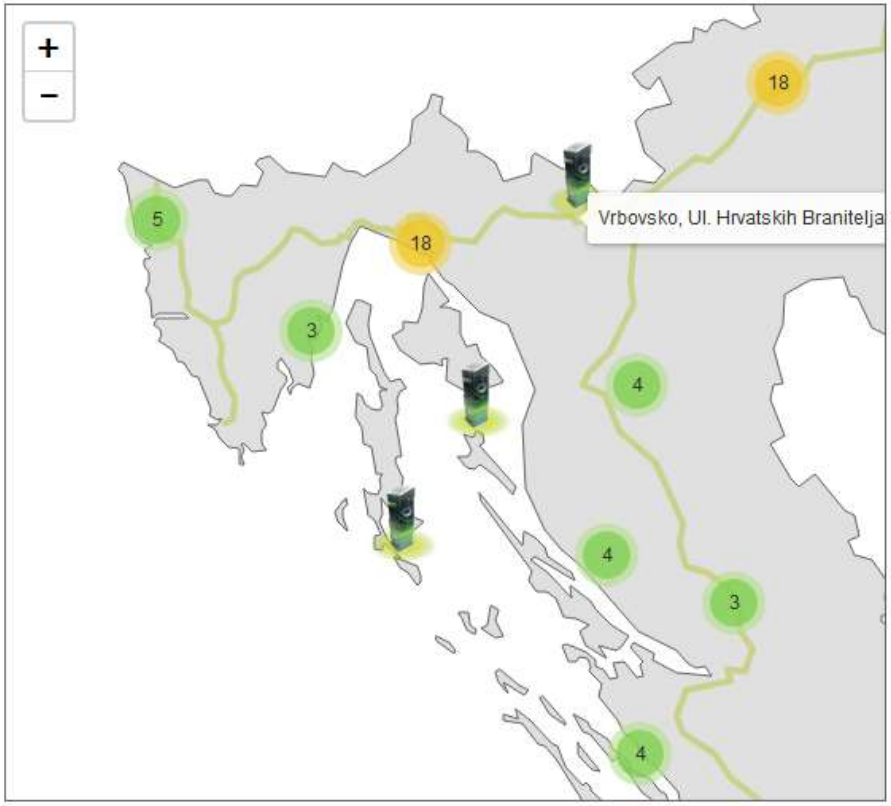
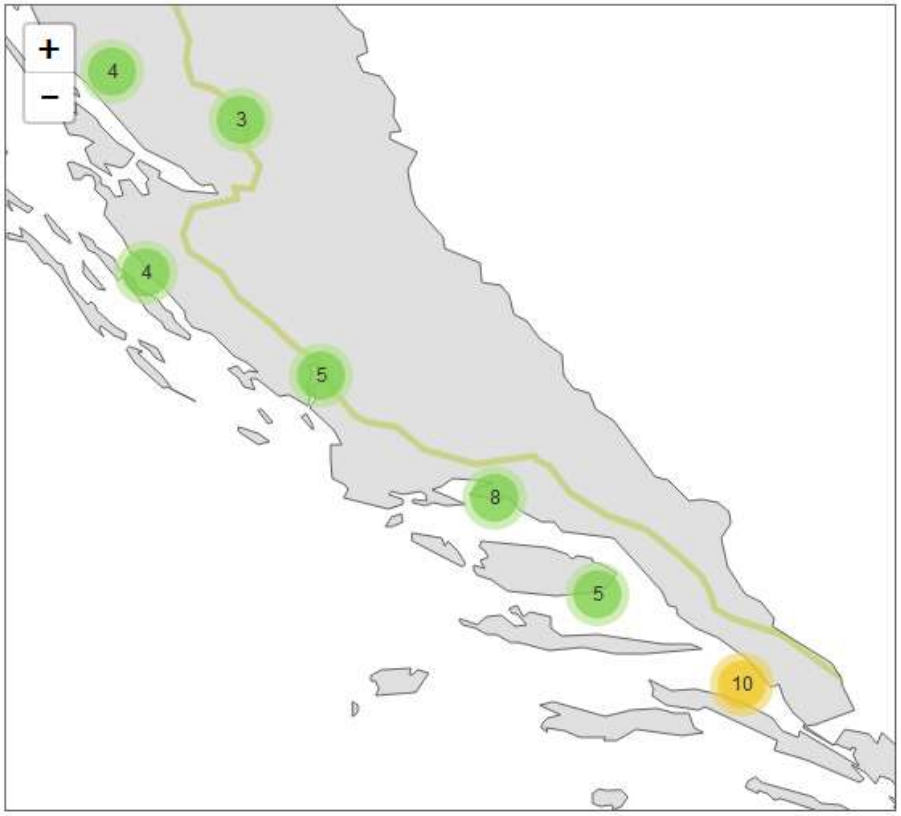


HEP Elen





HEP Elen

EV INFRASTRUCTURE

- ✓ There is an extensive network of EV charger across the EU that allows all trips for electric vehicles, even for those with a shorter range
- ➢ Is it sufficient and suitable to supply energy to all EVs that will grow strongly in the coming years?

EV INFRASTRUCTURE

National	Regional/local
Transit charging	Destination charging
Fast charging	Slow charging
Legislative and regulatory framework	Regional and local administrative measures

E-MOBILITY SUPPORT

Support of e-mobility on the **regional or local** level

No		Yes
Charging station deployment	→	- Support private sector to deploy charging stations - Education, promotion
EV purchase subsidies	→	- Strengthening EV advantages (positive discrimination) - EV's in own fleet
Providing or co-financing of mobility services	→	- Support private sector - Education, promotion

E-MOBILITY AT THE PREMISIS OF THE ENERGY INSTITUTE HRVOJE POŽAR

Interreg CENTRAL EUROPE
PROSPECT2030

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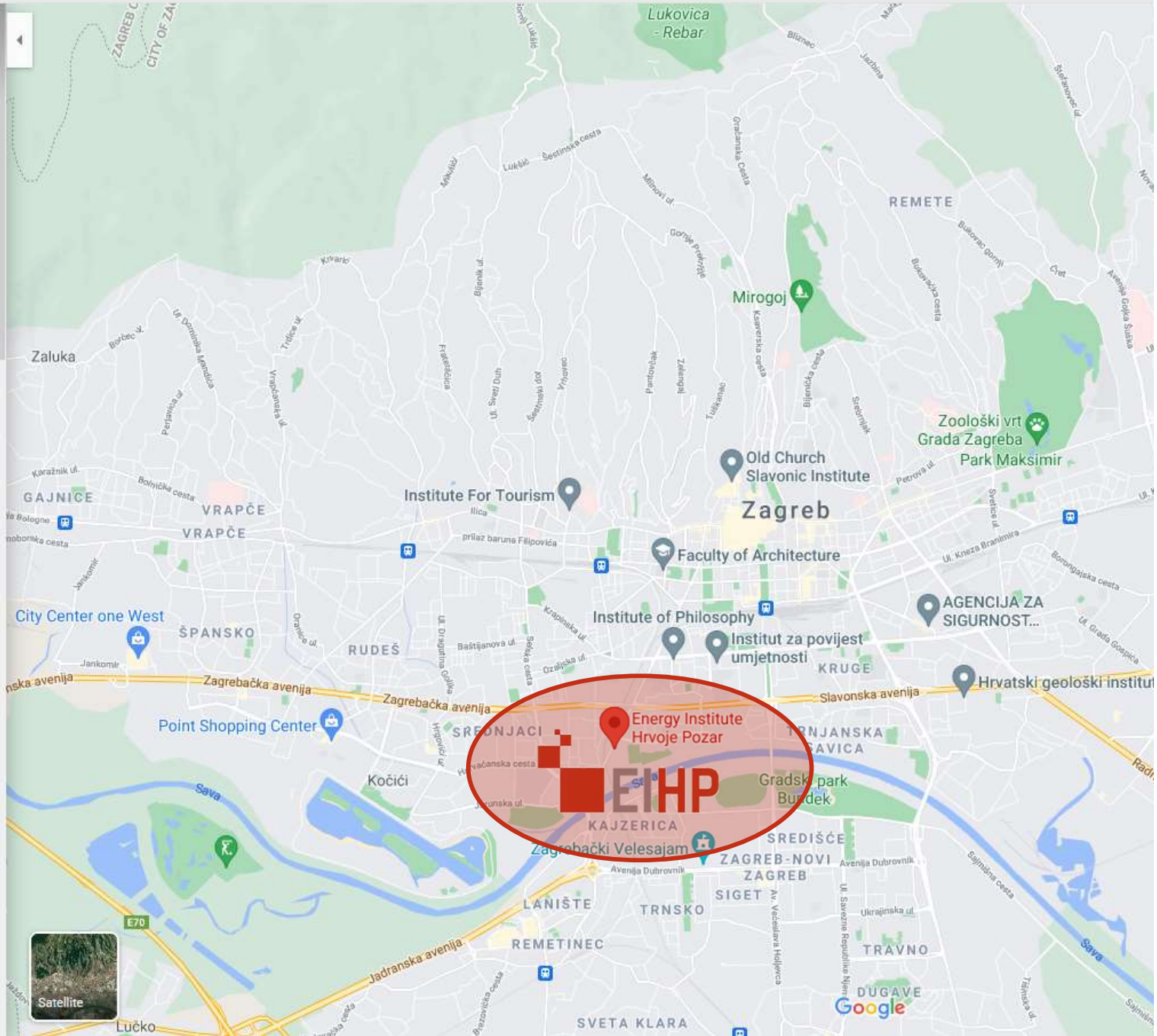

DEEP RETROFIT INCL. E-MOBILITY

New e-mobility system investment is base on three components

- Network chagrining station with eight charging points (up to 22kW per connector / dynamic load balancing)
- Implementation of complete V2X smart bidirectional charging solution system (bidirectional charger, mobile app, and a backend platform)
- compatible electric vehicle that supports V2X technology

Bruno Židov, PhD / bzidov@eihp.hr
Tomislav Čop / tcop@eihp.hr
Matija Vajdić / mvajdic@eihp.hr

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www.interreg-central.eu/prospect2030