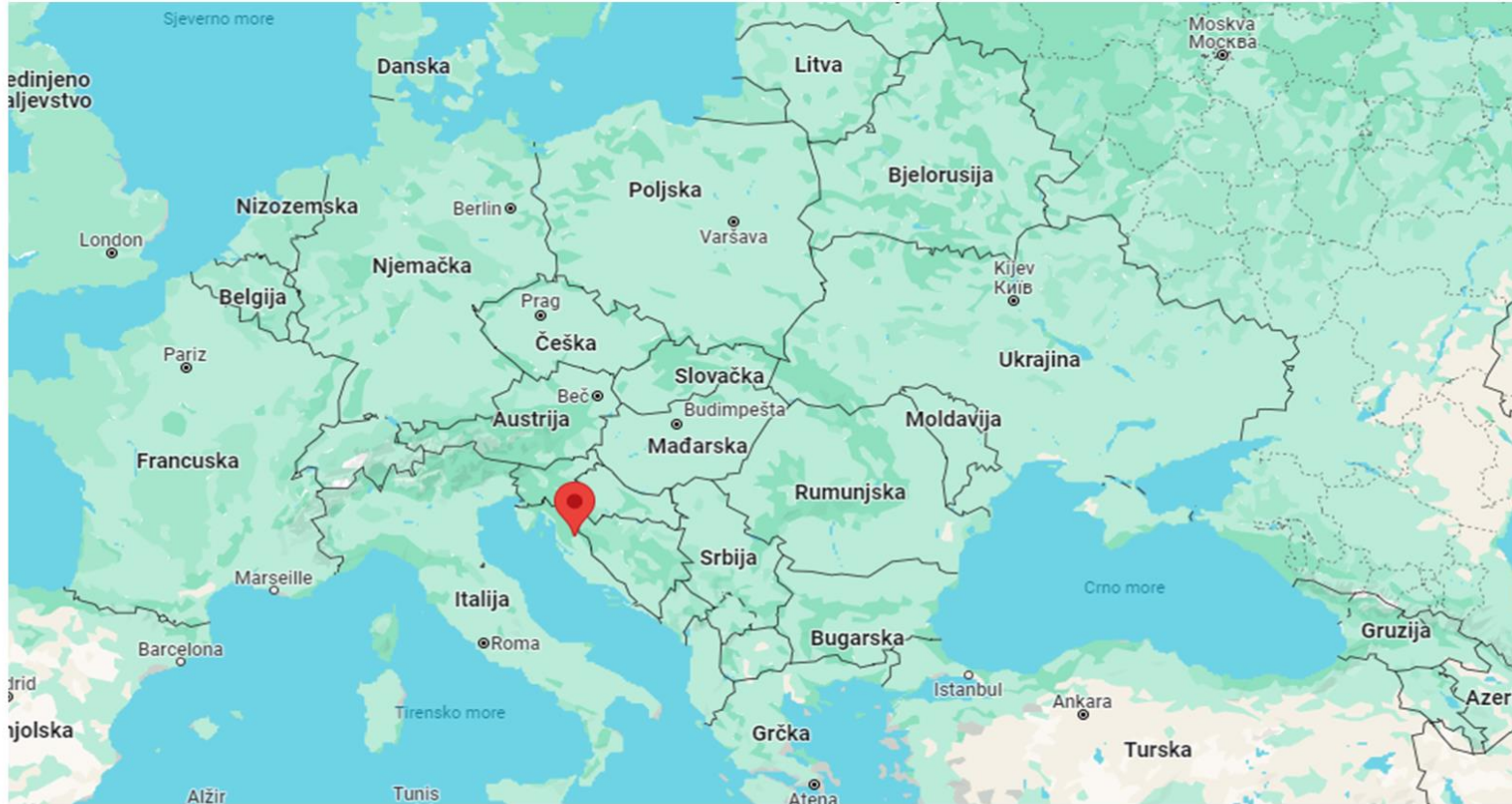


Karlovac – location



Karlovac :

- Bordering with 2 countries: Slovenia and Bosnia and Hercegovina

- Close to several central European cities: Vienna, Ljubljana, Budapest...
Sharing common history in Central Europe

- = Excellent geografic location!

Karlovac – Heart of Croatia



- Was founded 13th July 1579 by Karl Habsburg as a fortress to protect the area from invasions.
- Number of inhabitants: 49.594 (census 2021)
- located in the center of Croatia between Zagreb (the capital) and Rijeka (Adriatic sea)
- an important traffic and economic center
- wealth of natural resources such as rivers and geothermal energy (under development)
- City of Karlovac and its development plans are oriented strategically towards -green and smart city.

STRATEGIC DETERMINATION OF THE CITY OF KARLOVAC

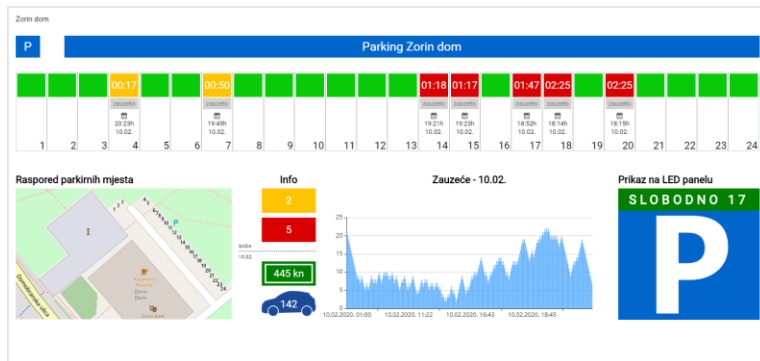


- recognizing the importance of energy efficiency and renewable energy sources and the possibility of development based on the principles of energy sustainability, the City of Karlovac joined EU initiative the EU initiative **Covenant of Mayors in 2008**.
- in 2015. the City of Karlovac joined new version of Covenant of Mayors for Climate and Energy, when the **Energy Sustainable Development Action Plan (SEAP)** was upgraded to a new version
- in 2020. at the City Council session as the official implementation document the **SECAP** was accepted, and we started with the preparation and implementation range of projects in the field of energy efficiency and renewable energy sources
- the general goal was preparation of the projects which are connected is **the field of use of solar and geothermal energy** in the area of the City of Karlovac
- so we finished 2 mayor projects in this field (instaled 14 solar power plants on public buildings and made a preparation of the ground for the exploration well KaGT-1 in order to prepare the location for the future well production from geothermal energy)

Smart City Karlovac

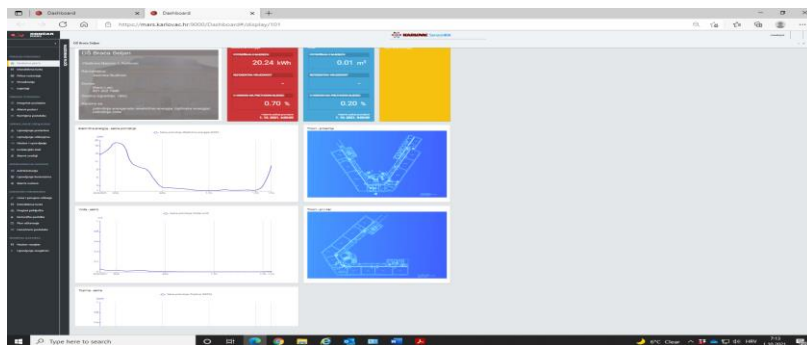
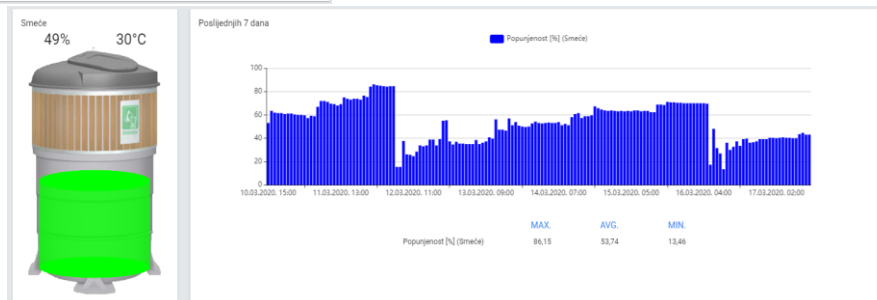


- in cooperation with various partners and city companies, we have developed and implemented **digital solutions** for monitoring the occupancy of parking spaces - with the display of the number of free spaces on the external LED panel,
- **control and monitoring of energy consumption** (electricity, water, heating) in schools, which monitored by remote reading, as well as monitoring the air quality in school classrooms,
- meteorological station has also been set up, and Karlovac and their guests can read various meteorological data on the external LED panel!



Smart City Karlovac

- **remote monitoring** of water meters,
- measurement of occupancy of semi-underground containers of mixed waste, and reading and management of the heating substation, as well as remote reading of temperature and humidity in the room,
- everything is monitored through the central city system Končar MARS, with which, thanks to digital technologies, we will provide an even better and higher quality service, but also achieve significant **savings and greater efficiency** in providing public city services to the citizens of the city of Karlovac



NEW LED LIGHTING – ESCO MODEL



We have just finished the esco epc contract by which we modernized the **entire public lighting** system by replacing the existing 9,081 lamps with new LED lamps, which have built-in communication modules that send relevant data from each lamp to the control center, enable the reduction of the light intensity of each lamp, and enable 24 hourly monitoring of the operation of the entire system.



Broadband internet



The construction of a new generation broadband network has just begun, where this project will cover all settlements and residents in **smaller rural** areas around the center of the city, which aims to enable the achievement of even economic and social development in the area of the City of Karlovac.

Karlovac is: CITY OF ENCOUNTERS- GRAD SUSRETA = CITTÀ DEGLI INCONTRI

City of Parks



CITY OF MEETING-Business



CITY ON 4 RIVERS- Ecology, free-time- Energy



CITY – STAR Cultural and historical heritage



Hvala, Thank You, Grazie!



Thank You for Your Attention

ilginiz için teşekkür!

Hvala na pažnji !



www.karlovac.hr



January 2025

Robert Vodopić

Head of smart city department- Head of

EU dept

&

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