

# GIS PLATFORMS FOR URBAN MOBILITY FROM SERBIA



**Igor Velić, master traffic engineer**

**[sigurnestaze.com](http://sigurnestaze.com)**



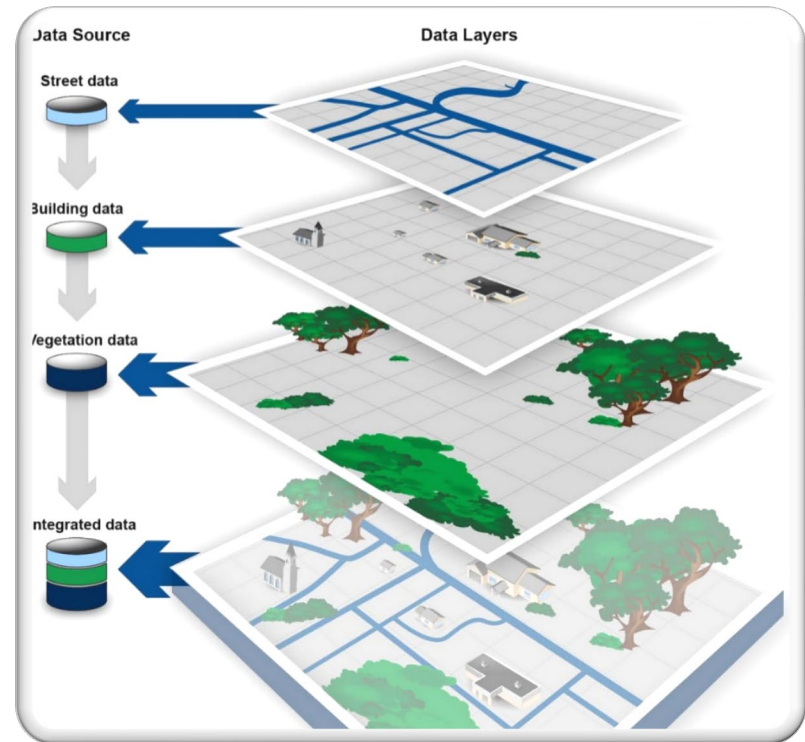
# GIS METODOLOGY ON EXAMPLES bicibor.rs & ekobus.rs

- **Open data**
- **Scientific research data**
- **Traffic safety features**
- **Structure of traffic flow and load**
- **A set of urban, construction and architectural data**
- **Statistical data**
- **Field analysis and study**
- **Data collected by citizens**
- **Geospatial data**



# GIS METODOLOGY ON EXAMPLES mobilitybor.com & pristupacnostbor.com

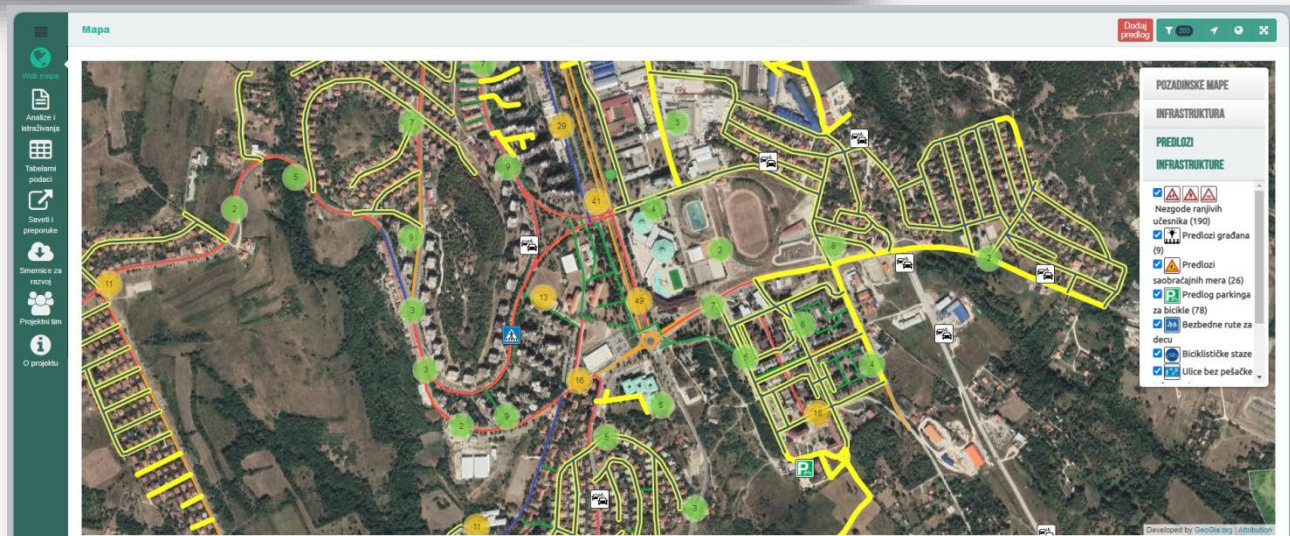
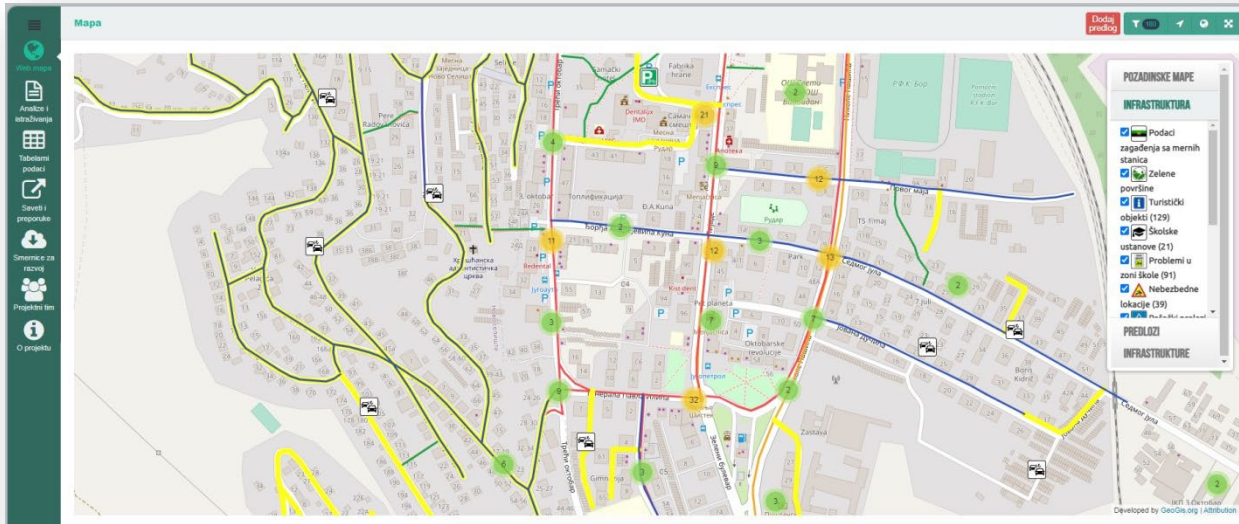
- Analyzes of all collected spatial and attributive data sets;
- Conversion of data into a format for the web;
- Design and creation of web interactive maps;
- Reconnaissance, recording, collection and conversion of obtained data sets into digital form;





# GIS FOR BICYCLE TRAFFIC PLANNING

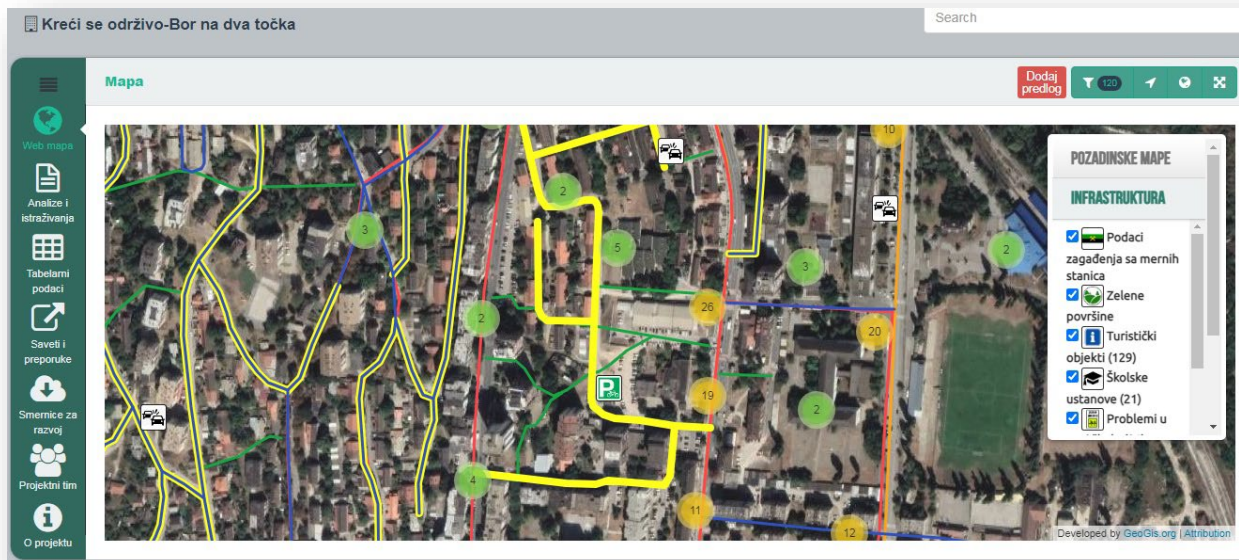
## BICIBOR.RS



# GIS FOR BICYCLE TRAFFIC PLANNING

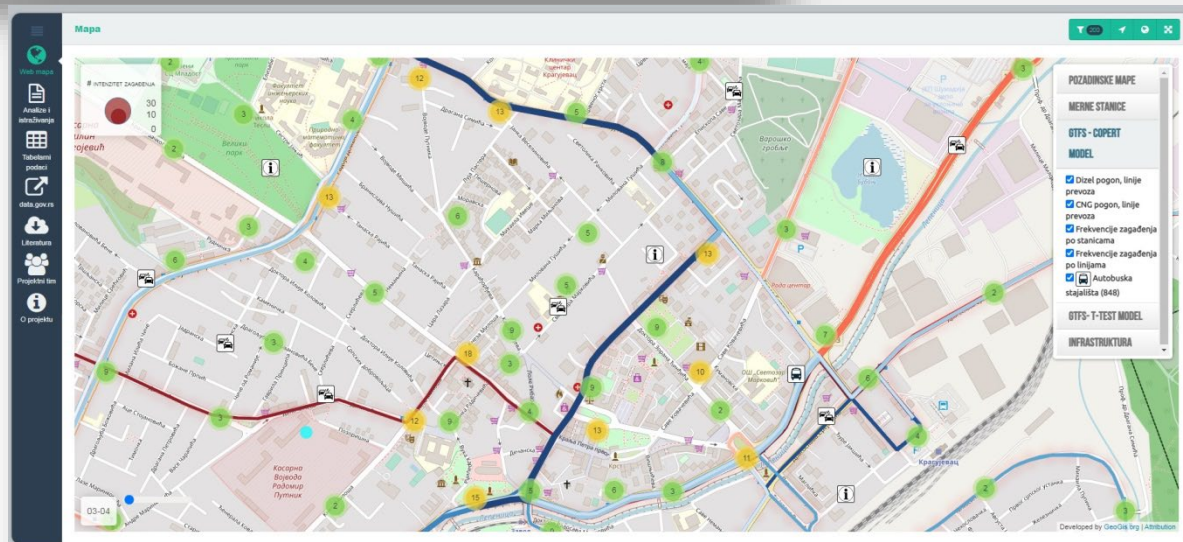
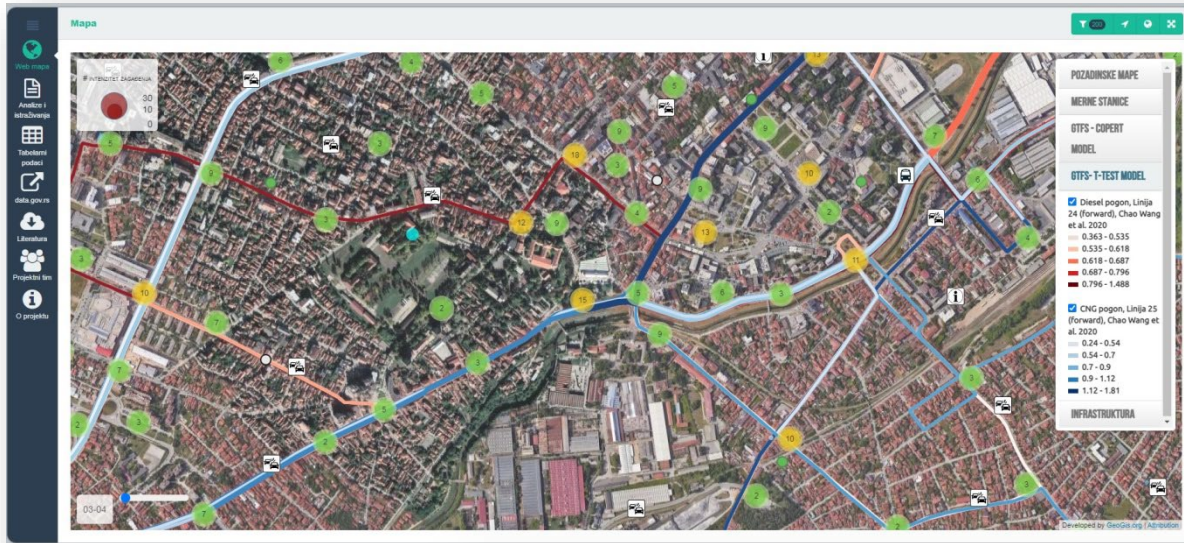
## BICIBOR.RS

- Using the GIS platform, we have developed an entire inventory of traffic and urban infrastructure;
- We have presented unsafe locations;
- We proposed safe routes for elementary school students;
- We made a proposal for bicycle lanes and zones 30;
- We presented the tourist potential of the city of Bor;
- We presented data from measuring stations on air pollution;



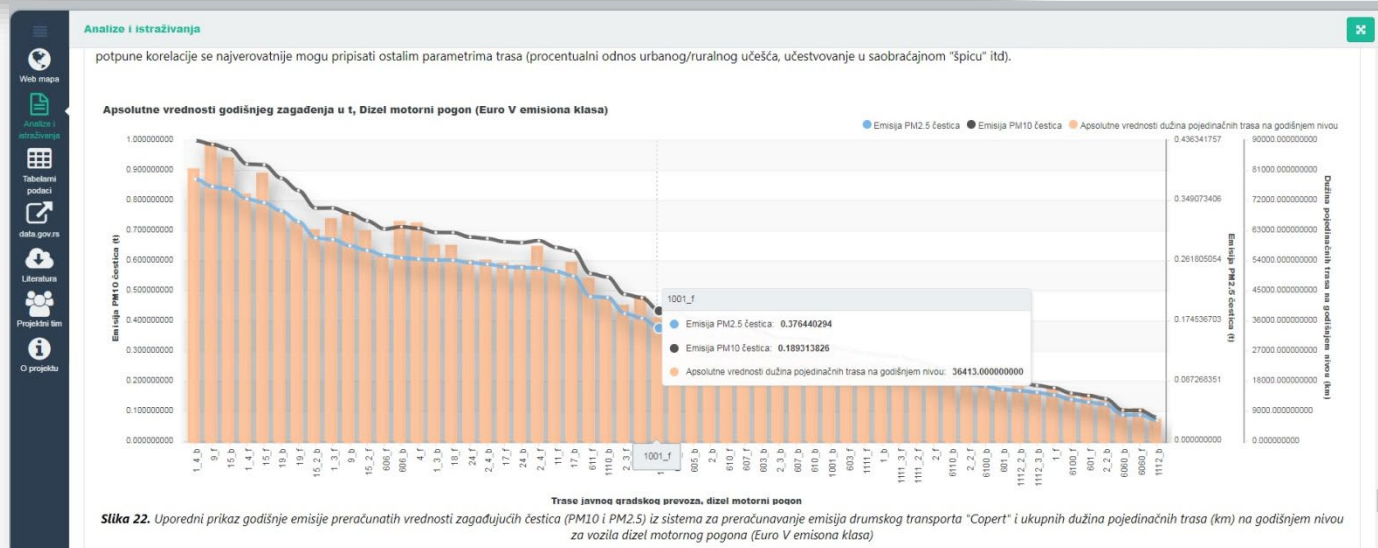
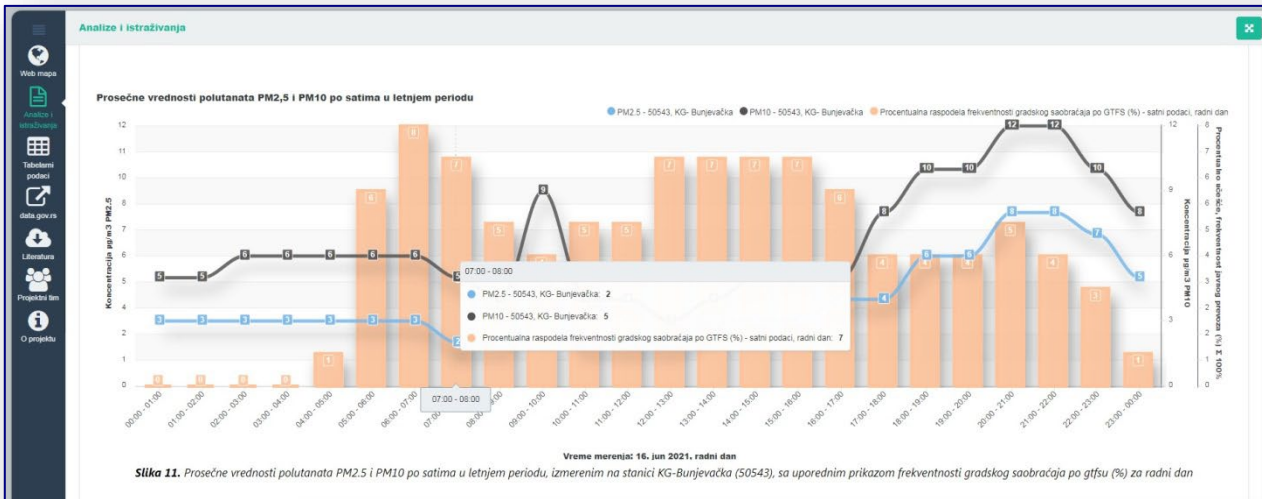


# GIS FOR PUBLIC TRANSPORT OPTIMIZATION EKOBUS.RS



# GIS FOR PUBLIC TRANSPORT OPTIMIZATION

## EKOBUS.RS





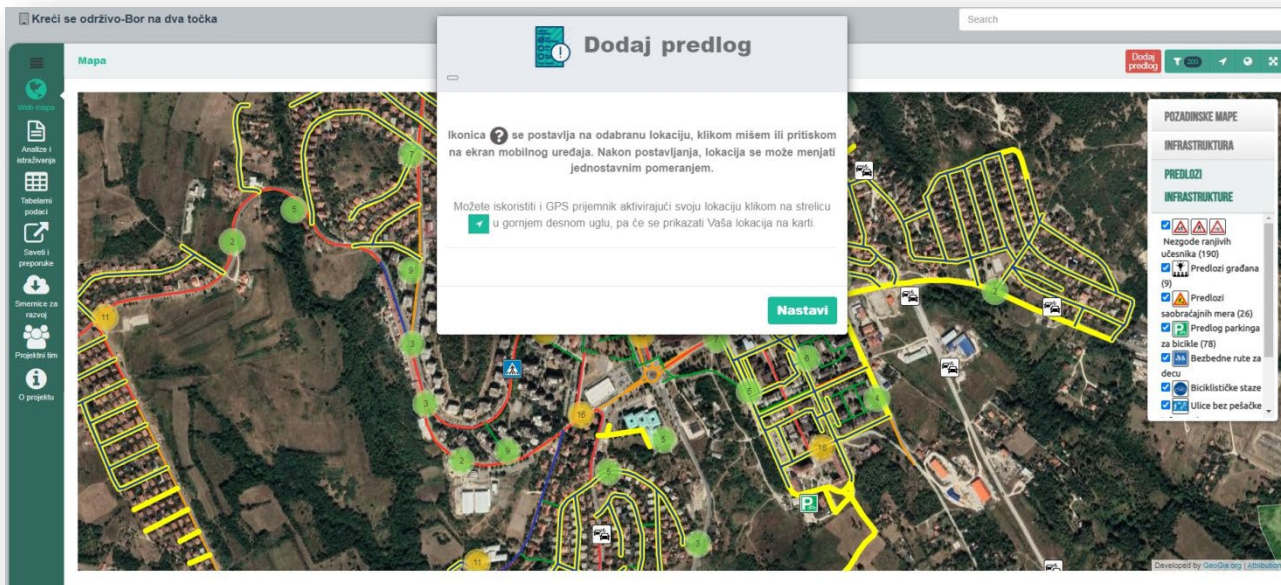
# GIS FOR PUBLIC TRANSPORT OPTIMIZATION EKOBUS.RS

- The aim of the project is to spread awareness about public urban transport as a small source of air pollution which is very important for sustainable urban mobility.
- By crossing open data on public transport in the City of Kragujevac and available data on air quality from measuring stations in that city, an insight into the emission of harmful gases from public city transport routes was made possible.



# CROWDSOURCING (citizen science) AS A PART OF BICIBOR.RS & EKOBUS.RS

- **The crowdsourcing** component is designed with the primary goal of adding photos, videos, comments, suggestions, solutions, etc. by citizens.
- **The crowdsourcing** component represents a means of communication between all actors in the field of traffic and urban planning, as well as in two-way communication between the professionals and politicians, with the active involvement of citizens.



# HUMANE ENGINEERING AND SMART CITY ON EXAMPLES BICIBOR.RS & EKOBUS.RS

- **Humane engineering** requires a different approach to problem solving and a different design of traffic and urban space;
- **GIS** allows us to manage and organize space that focuses on people and turns to the real requirements and needs of end users.
- **A smart city** is unthinkable without the use of open data, information technologies and software engineering.







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