



International Urban Cooperation

Fostering Sustainable Urban Development on a global scale

Sub-plenary:

Smart and digital solutions to drive a green recovery City of Dubrovnik



CITY OF DUBROVNIK

- City in Croatia
- Population 42.000
- Founded in 7th century
- Under UNESCO protection since 1979





DUBROVNIK SMART CITY STRATEGY

MOBILITY AND INFRASTRUCTURE

 Establishment and continuous development of a smart and integrated mobility system in Dubrovnik

ECONOMIC DEVELOPMENT

 Smart city concept as part of the overall working and living culture where City of Dubrovnik is recognized for smart tourism and smart culture

QUALITY OF LIFE

 Bring public administration and the educational system closer to the citizens

MANAGEMENT AND INSTITUTIONS

 Ensure digitalization of City's activities and services and strengthen the concept of interoperability, open data and scalability

DUBROVNIK EYE

 Web service with iOS and Android mobile applications for reporting communal and similar issues in the city.



- Reports from citizens are confirmed and delegated to corresponding city department
- The citizens are notified of each status change of the issues they reported
- All data is public and available online

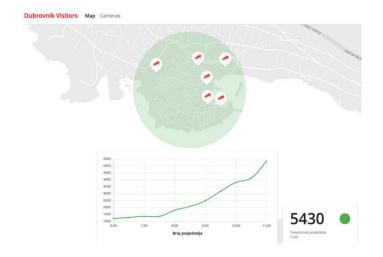
SMART PARKING SOLUTION

- Traffic one of the crucial problems of Dubrovnik
- After a pilot developed in 2017 City of Dubrovnik in 2019 started implementation of full scale project based on NB-IoT technology.
- A total of 2010 sensors connected to the NB-IoT network were installed.
- City of Panaji used it as example of good practice to improve its traffic and parking infrastructure



PEOPLE COUNTER

Web site with real-time data about total number of people in the Old Town, people counting cameras in historic core.



Based on this data City can make smarter and more rational decisions about pedestrian traffic management around and in the historic core and find out better ways to organize the delivery and supply of the historic core

GDPR compliant

PREDICTING NUMBER OF VISITORS

Application for predicting the number of visitors uses machine learning (AI) to predict the number of people in the Old Town on a given day.



- Algorithm uses 5 parameters as the input
- Algorithm improves with new data
- Useful to both citizens and tourists

AIR QUALITY MONITORING SYSTEM

2019 - pilot project for monitoring air quality in Dubrovnik schools and kindergartens



DIGITAL PLAYGROUNDS

2020 - New project which aims to increase physical activity of children during their play on communal playgrounds.



THANK YOU FOR YOUR ATTENTION

Stjepan Ćavar

Senior Professional Associate for Local Development and EU Funds

Branitelja Dubrovnika 15 20 000 Dubrovnik

w: www.dura.hr

e: scavar@dura.hr