Smart City Dubrovnik
Pilot Projects
Nikša Vlahušić,
Professional Associate, DURA
CITY OF DUBROVNIK

- POPULATION: 42,000
- NUMBER OF TOURISTS PER DAY: 14,000
- CITY TOTAL AREA: 21.35 km²
- CITY FOUNDED IN 7th CENTURY
- CITY UNDER UNESCO PROTECTION
PROJECTS – SMART COMMUNITY COMPLETED

• **STARTUP WEEKEND DUBROVNIK** – Four years in a row, education and competition

• **CITY OS HACKATHON DUBROVNIK 2015** – Call to local engineers, programmers, developers, hackers and makers

• **CITY OS SMART CITY STARTUPS CONFERENCE 2016** – Another hackathon event, but this time with more workshops, more attendees and great international keynote speakers
• **DUBROVNIK EYE** – Web service with iOS and Android mobile applications for reporting communal and similar issues in the city. Reports from citizens are confirmed by the city government administrator and delegated to correct department. The citizens are notified of each status change of the issues they reported. All data is public and available online. [http://dubrovacko-oko.hr/](http://dubrovacko-oko.hr/)
PROJECTS – SUSTAINABILITY COMPLETED

- SMART SPRINKLERS – Public parks irrigation system, moisture sensors, sprinklers, web
- SOLAR BENCH – Air quality monitor + charging + mobile app (iOS and Android)
PROJECTS – VISITORS INFORMATION COMPLETED

• **DUBROVNIK CARD APP** – Mobile app (iOS and Android), tourist information, iBeacons, navigation, discounts


• **SMART PARKING** – IR Parking sensors + web + mobile app (iOS and Android)

PROJECTS – PEOPLE COUNTER COMPLETED

PEOPLE COUNTER – Web site with real-time data about total number of people in the Old Town, 6 people counting cameras in historic core + 120 on intersections

TELEOPERATOR MOBILE DATA
3 weeks of data from cell towers

SMART CITY MOBILE APPS
users geolocation, heatmaping, crowd management

Website: http://bit.ly/PeopleCounterDubrovnik-Web
PROJECTS – PEOPLE FLOWS IN IMPLEMENTATION

SMART CITY MOBILE APPLICATIONS
Get exact GPS location data about people using your smart city apps (Smart Parking, Dubrovnik Eye, Dubrovnik Card...)

PEOPLE COUNTING CAMERAS
Count the total number of people in the city using cameras or other methods

Generate heatmaps (people density) by combining GPS location data with total number of people in the city
PROJECTS – SMART CITY IN DEVELOPMENT PHASE

- LIGHT NAVIGATION
- AIR/SEA QUALITY AND PEOPLE COUNTER FOR BEACHES
- PERSONALISED OFFERS
- FREE WIFI IN HISTORIC CENTRE
- LARGE SCALE TRAFFIC MONITORING
PROJECTS – SMART CITY

- **High tech lab** – Coworking space open to public
- Free WiFi
- PCs and Macs
- Electronics equipment, IoT devices and sensors, 3D printer
SMART CITY DUBROVNIK STRATEGY – Base document containing current state analysis of ICT services available in city of Dubrovnik and plans for development of SC projects and technologies, made publicly available on official city website for comments and suggestions
- 5 projects implemented in 2 years
- 7 new projects in development
CONTACT:

Phone: +385(0)20 640-555
Fax: +385(0)20 638-237
Mail: nvlahusic@dura.hr
Web: www.dura.hr
Address: Branitelja Dubrovnika 15, 20000 Dubrovnik, Croatia

THANK YOU!