



TIMIȘOARA

BECOMING A SMARTER CITY





Location: Western Romania, very close to the Hungarian and Serbian border



340.000 inhabitants / **500.000** including suburbs



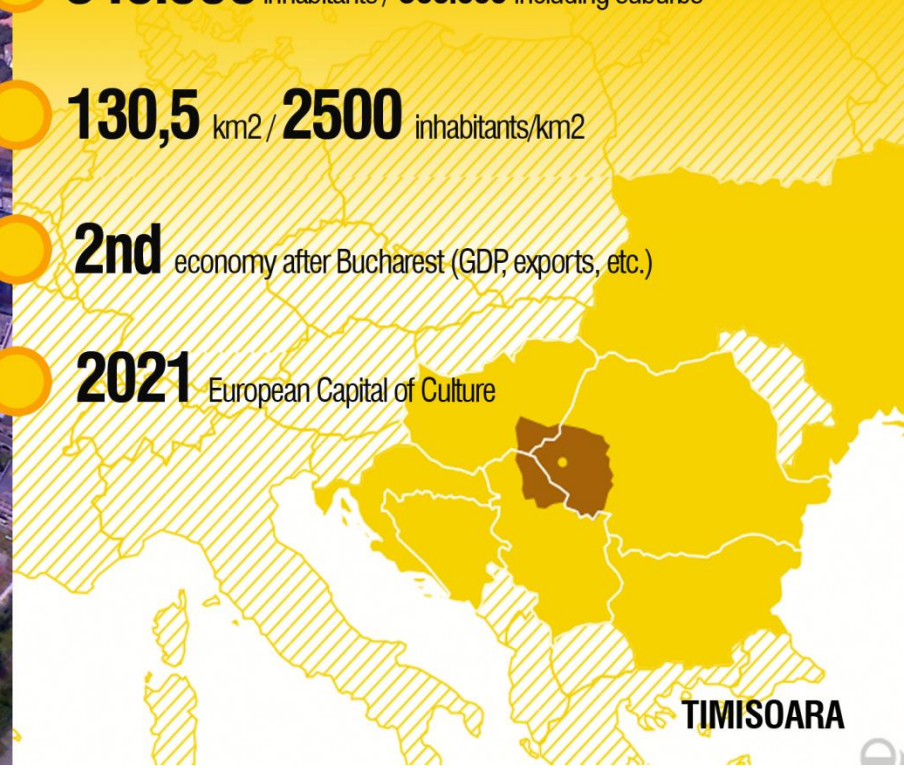
130,5 km² / **2500** inhabitants/km²



2nd economy after Bucharest (GDP, exports, etc.)

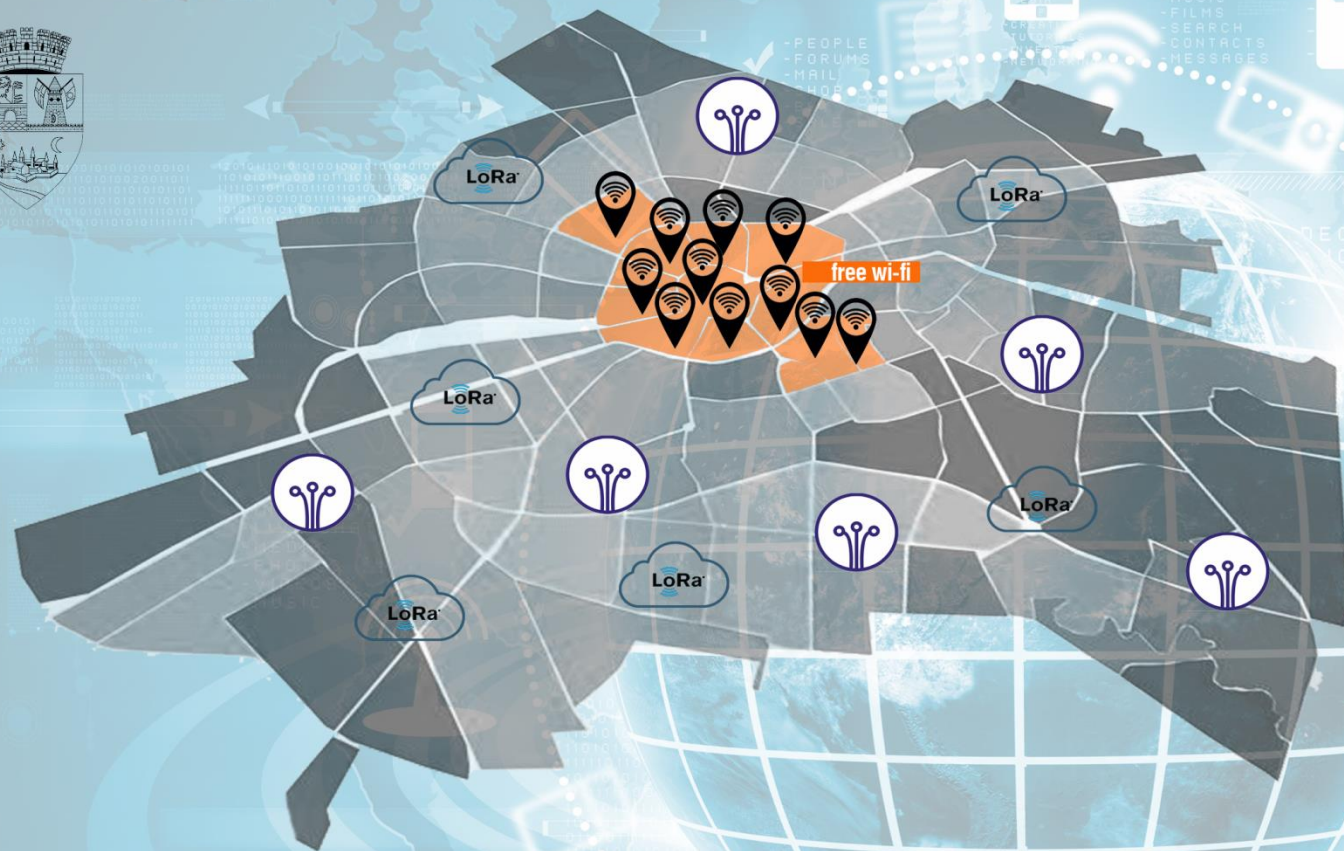


2021 European Capital of Culture



TIMISOARA

DIGITAL INFRASTRUCTURE



free public wi-fi
(City of Timisoara together with Continental and Orange, Vodafone, Telekom)



LoRaWAN™

Low Power Wide Area Network (LPWAN)
(ETA2U)



CityLAN

(Covering most of the City - Traffic Management System, CCTV, existing)

SMART MOBILITY



Smart parking

asphalt sensors/ mobile app / EV charger



Decarbonisation of PT

5 modes of PT: tram, trolleybus, bus, bike, ship



Smart intermodal bike sharing

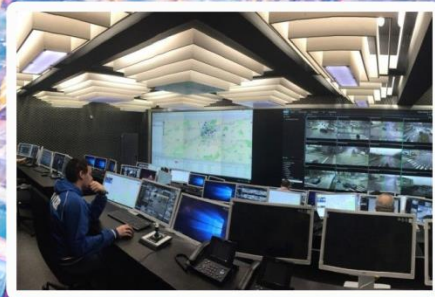
25.000 users / 33 stations / 450 bikes



Real time information - public transport

GPS monitored fleet / Info panels /

Mobile and web app / e-ticketing



Traffic Management

Traffic Control Centre of Timisoara City

Integration platform (OMNA)

Detection Subsystem (inductive loops, video)

Traffic Light Subsystem

Centralised Traffic Management and Control Subsystem (UTOPIA)

Public Transport Prioritization Subsystem (FLASH)

Video Surveillance Subsystem (CCTV)

Communication Subsystem;

Red & Speed Enforcement Subsystem

Automatic License Plate Recognition Subsystem (ALPR)

Fault Management Subsystem (FMS)

Info-Mobility Subsystem (Compass)

SMART ENERGY



2013

SMART LIGHTING PARCUL COPILOR

55 controlled bulbs

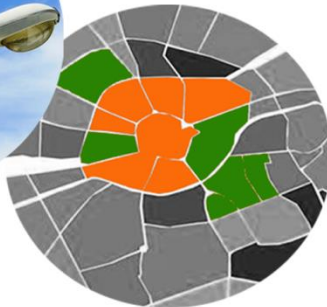
Mobile app

Dimming / Error reporting / on off

35%-50% energy savings



SOLAR ENERGY LIGHTING



area with exclusive solar energy lighting

The Strawberry Tree is a solar urban device and a smart city platform, which provides free mobile phone charging, WiFi internet and environmental sensing.



SOLAR ENERGY MOBILE CHARGER

+ free Wi-Fi

SMART BUILDING pilot project - Moisil High and Elementary School
IOT / Network of lighting and temperature sensors / Internet controlled
District heating automation - 35% energy savings

NeZeR

Promotion of smart and integrated NZEB renovation measures in the European renovation market



Co-funded by the Intelligent Energy Europe Programme of the European Union

<http://www.nezer-project.eu/>

OTHER INITIATIVES

Open Data - first city in Romania to publish open data sets (2012)

Green Infrastructure / Smart rainwater harvesting

CCTV system - main public squares / schools / roads

Augmented reality - pilot on historical buildings and statues

