

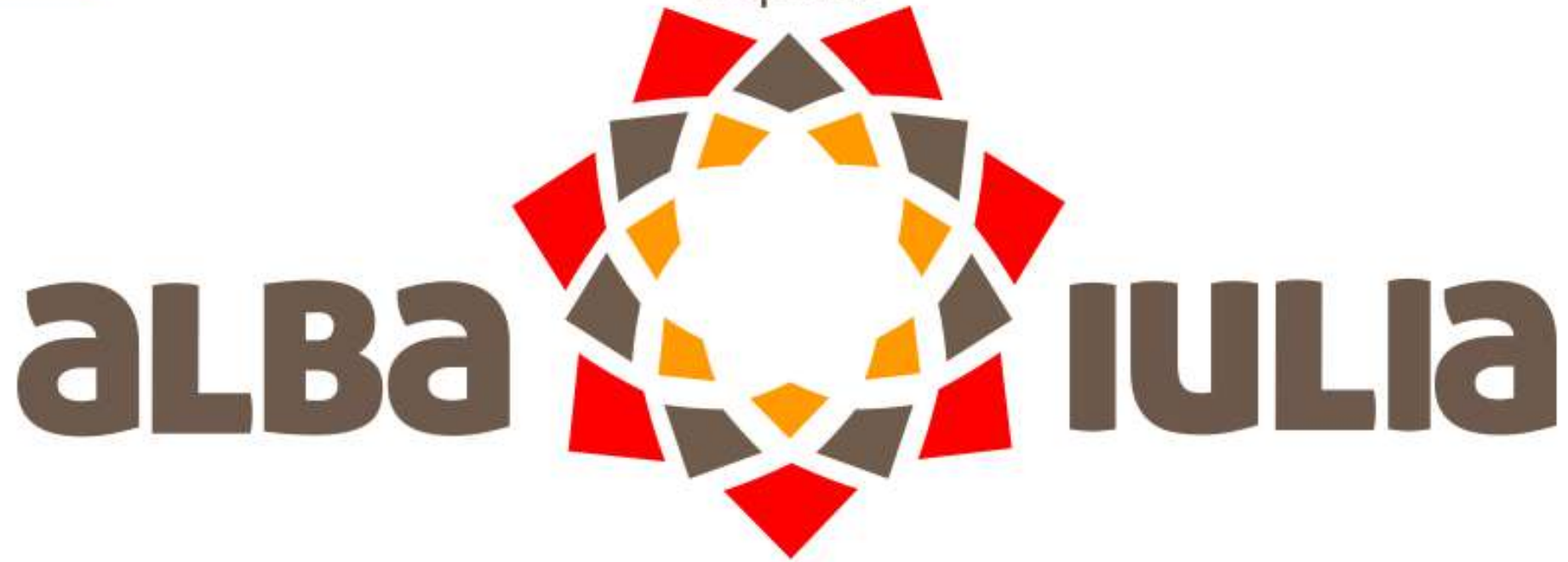
Alba Iulia  
Municipality- steps  
forward to become  
a greener city  
23rd of March 2023







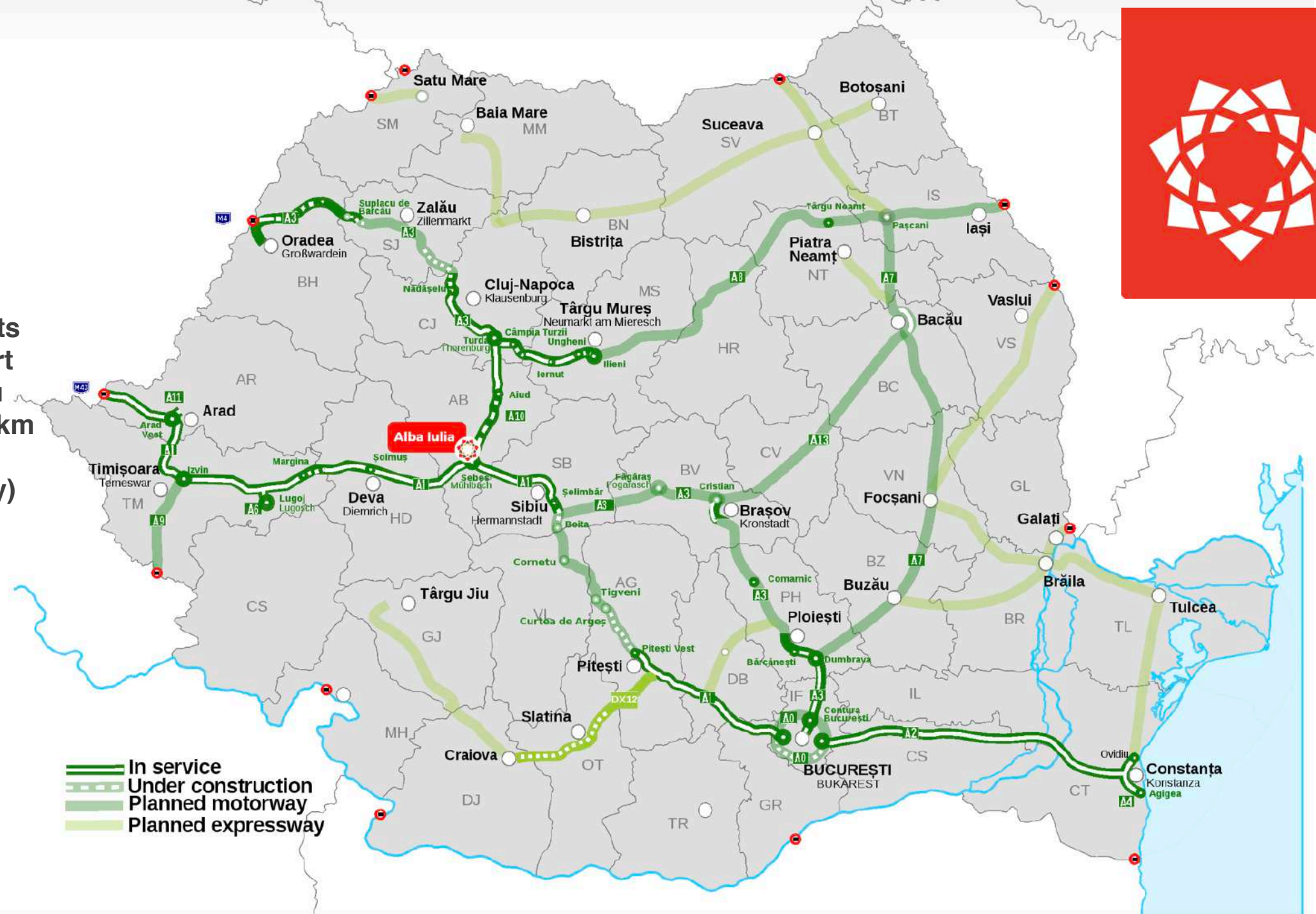
theother  
capital



WELCOME TO THE LARGEST  
CITADEL IN ROMANIA

# GEOSTRATEGIC POSITION

Alba Iulia is connected with 3 international airports (Cluj-Napoca Airport 120 km away, Târgu Mureş Airport -100 km away and Sibiu Airport -70 km away)



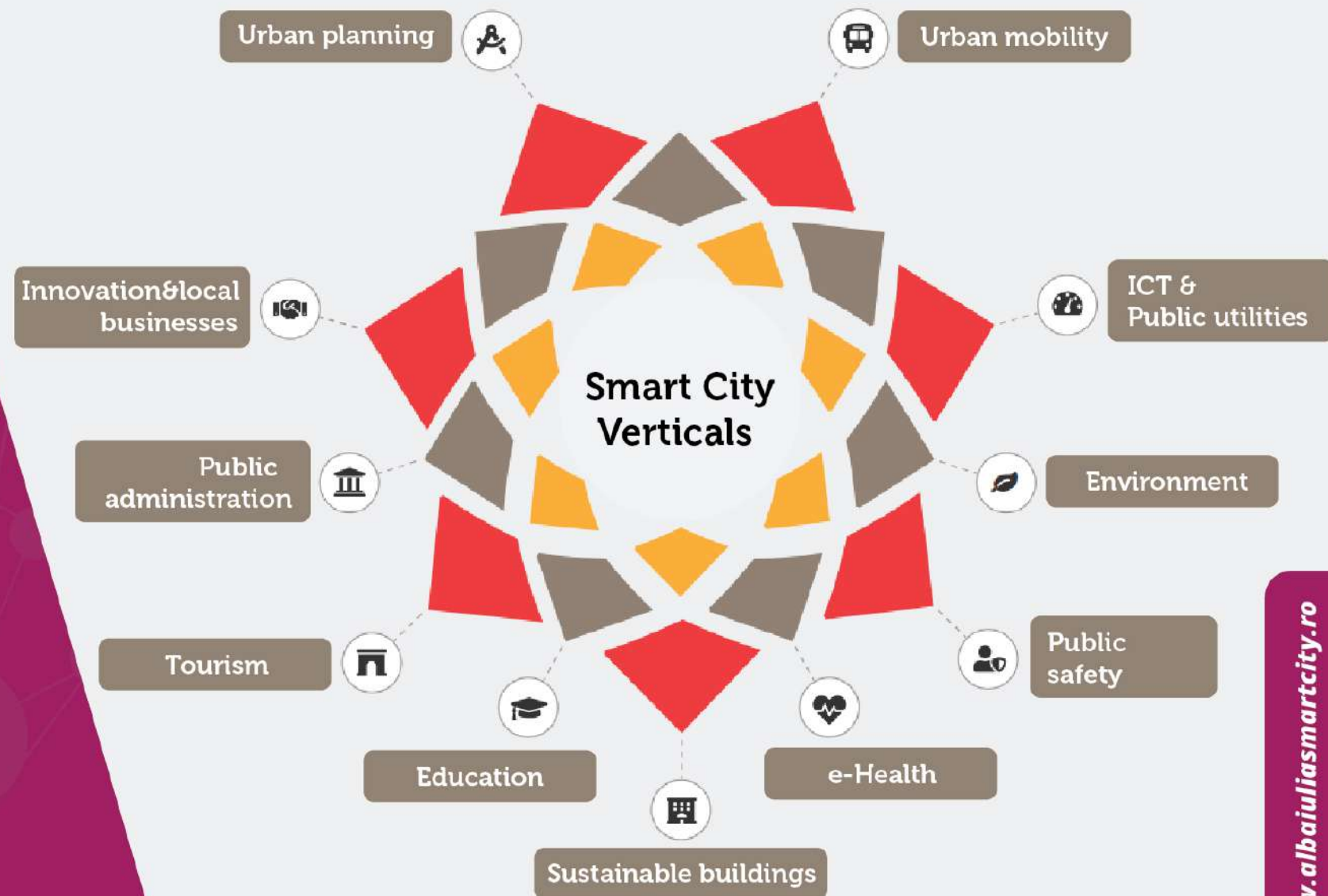
**100** smart solutions

**45** private companies involved

**50%** functional projects

e-Governance & digitalisation of public services

Ready to launch first **open data** platform in Romania







Many thanks to our partners!

**200 MIL**

**EURO**

**2007-2017**



**15 TIMES THE LOCAL BUDGET**



**2700 EURO/CAPITA**



**1500 JOBS**



**THE OTHER CAPITAL**





EUROPEAN UNION

European Regional Development Fund

# Alba Iulia Fortress Rehabilitation

50 mil. €



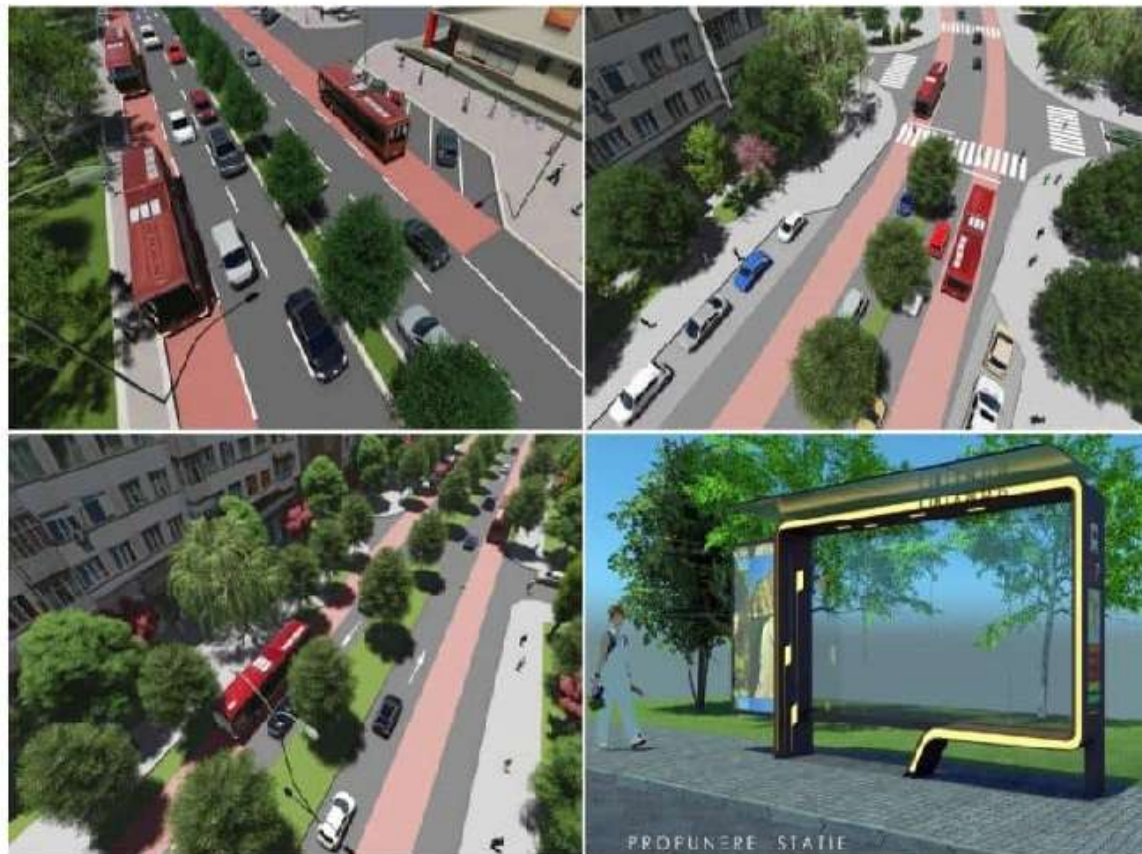


EUROPEAN UNION

European Regional Development Fund

# 2014-2023

80  
mil. €





# Thermal rehabilitation of public, residential buildings Over 20 Mil Euros attracted





# Urban Mobility Projects

- **300** electric bikes - sharing system, integrated into the local public transport system
- **13** electric busses
- **4** quick charging stations
- **18 km** separate lanes for public transport
- **95** camera for video surveillance
- **45** modernized bus stations
- **1** management center for traffic





**4114**

*LEDs*

**2753**

*new poles*

**232**

*photovoltaic panels*

**132 km**

*smart lighting system*

**50%**

*consumption decrease*

**50%**

*CO<sub>2</sub> decrease*

**11**

*million Euro*



**Smart public lighting**

**200 streets**

**In cloud  
monitoring  
sensors**

**Smart pedestrian  
crossings  
presence sensors**

**EU funds**

**Post Pilot Mobility**

# ***Bike lanes in Alba Iulia***

- **16 km**
- **18 km** (in the making)
- **12 km** (documentation phase)





# Planul Național de Redresare și Reziliență

Pachet de reforme și investiții publice  
finanțate prin Mecanismul de Redresare și Reziliență

Alba Iulia: over 120 mil euro -projects submitted, 80% - green projects



EUROPEAN UNION  
European Regional Development Fund



European  
Commission



THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION  
HORIZON 2020



Interreg  
Danube Transnational Programme



URBACT  
Driving change for  
better cities



Co-funded by  
the European Union



Innovation  
Norway



METAMORPHOSIS



PlastiCircle  
TOO VALUABLE TO WASTE



5G FACTORY



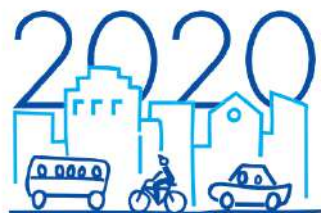
+CITYXCHANGE



THERMOS



ULDS  
URBAN LOGISTICS AS AN ON-DEMAND SERVICE



2020  
CIVITAS  
Cleaner and better transport in cities  
SUMP-PLUS



City  
Changer  
Cargo  
Bike



FIND YOUR  
GREATNESS

EUROPE'S FIRST  
STRATEGIC  
BRAND BUILDING  
PROGRAM  
FOR SMART CITIES



FOOD  
CORRIDORS  
EMPOWERING RURAL & URBAN FOOD CONNECTIONS  
WITHIN EUROPEAN REGIONS



CITY LOGO  
Innovative  
place-brand management



TUTUR



CIVITAS  
Cleaner and better transport in cities  
SUITS



TinnGO  
Transport  
Innovation  
Gender  
Observatory



ENCLOSE  
ENERGY EFFICIENCY IN CITY LOGISTICS SERVICES  
FOR SMALL AND MID-SIZED EUROPEAN HISTORIC TOWNS



LOCARBO  
Interreg Europe

Social Green  
Interreg Europe



EURE  
Interreg Europe



# *Jan GEHL*

*A good city is like a good party  
- people stay longer than is  
really necessary because they  
feel good.*



***Covenant of  
Mayors for Climate  
and Energy***

***Emission reduction with***

***40%***

***until 2030***





# *Green City Accord*

*From  
April  
2021*



# *European Energy Award*

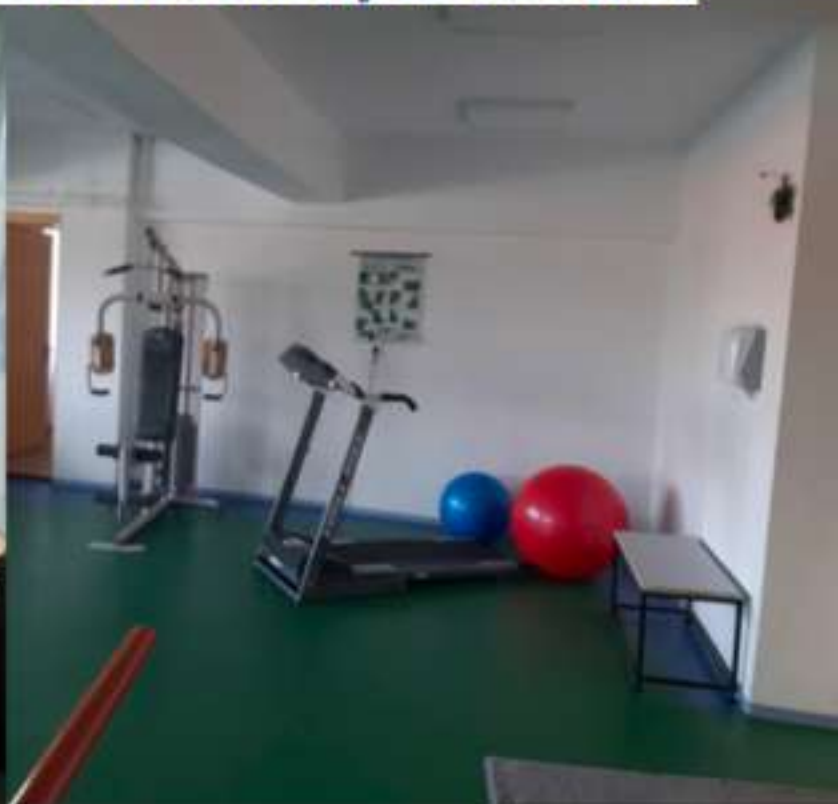
*August 2021 - the first municipality in Transylvania to receive the title Sustainable Community - European Energy Award. The performance evaluation was made on the basis of 79 indicators and 6 areas of energy efficiency.*







**Energy efficiency and increased comfort in the building of the Home for the elderly in Alba Iulia**



# Budget gross and grant requested

Budget	
Total project budget	<b>1.294.118</b> Euro
Grant amount requested	<b>1.100.000</b> Euro
Grant intensity	85%



# Objectives

- **OS1: 47,93% reduction CO2 emissions** reductions generated by the building of Home for the elderly, in Alba Iulia, (the equivalent of 148 tons of CO2 emissions), through an innovation process in the field of geothermal and solar energy, by developing and implementing a microgrid technical solution.
- **OS2:** Increase from 0 to **1174 MWh/year in energy production from RES** at the level of the building of Home for the elderly, through implementing a microgrid technical solution.
- **OS3: 11,76% reduction of annual savings** from renewable energy production within the local budget of Alba Iulia Municipality , (the equivalent of 29945 Euro reduction);
- **OS4:** Enhancement of the administrative capacity of one public entity in Alba Iulia, by organizing 2 types of **trainings of operating personnel**.
- **OS5: Encouraging and stimulating an energy efficient indoor environment** and also a more responsible civil society, by promoting and disseminating the project activities and outputs

**Target year: 2024**



MINISTERUL MEDIULUI,  
APELOR ȘI PĂDURILOR



PRIMĂRIA MUNICIPIULUI  
**ALBA IULIA**



**alea**   
agenția locală a energiei alba

Iceland   
Liechtenstein   
Norway grants 

# DEVELOPMENT OF CLIMATE CHANGE ADAPTATION AND MITIGATION CAPACITY WITHIN ALBA IULIA MUNICIPALITY, Acronym DEVELOP Alba Iulia

Working together for a **green**, **competitive**, and **inclusive** Europe



Iceland  
Liechtenstein  
Norway grants



Norway grants



Innovative  
Norway

# Innovative energy efficiency solutions for the Olympic Swimming Pool - Alba



# Estimated outcomes of the project

- **Estimated annual decrease of CO2 eq. emissions/year: up to 334 tons of eq. CO2 / year (70%)**
- **Estimated annual reduced energy/electricity consumptions: up to 1632 MWh/year. (65-72%)**
- **Estimated annual monetary savings from energy efficiency measures: up to 62 k EUR/year (52-72%)**

## Project budget

**Total: 603.875 EUR**

**Grant: 513.000 EUR (84.95%) – Innovation Norway**

**Own contribution: 90.875 EUR + Not eligible costs**



### 3. Design and development of an Energy Efficiency Management and Control System with cost-effective solutions for residential and educational buildings Acronym: DOITSMARTer



Iceland  
Liechtenstein  
Norway grants



Norway grants



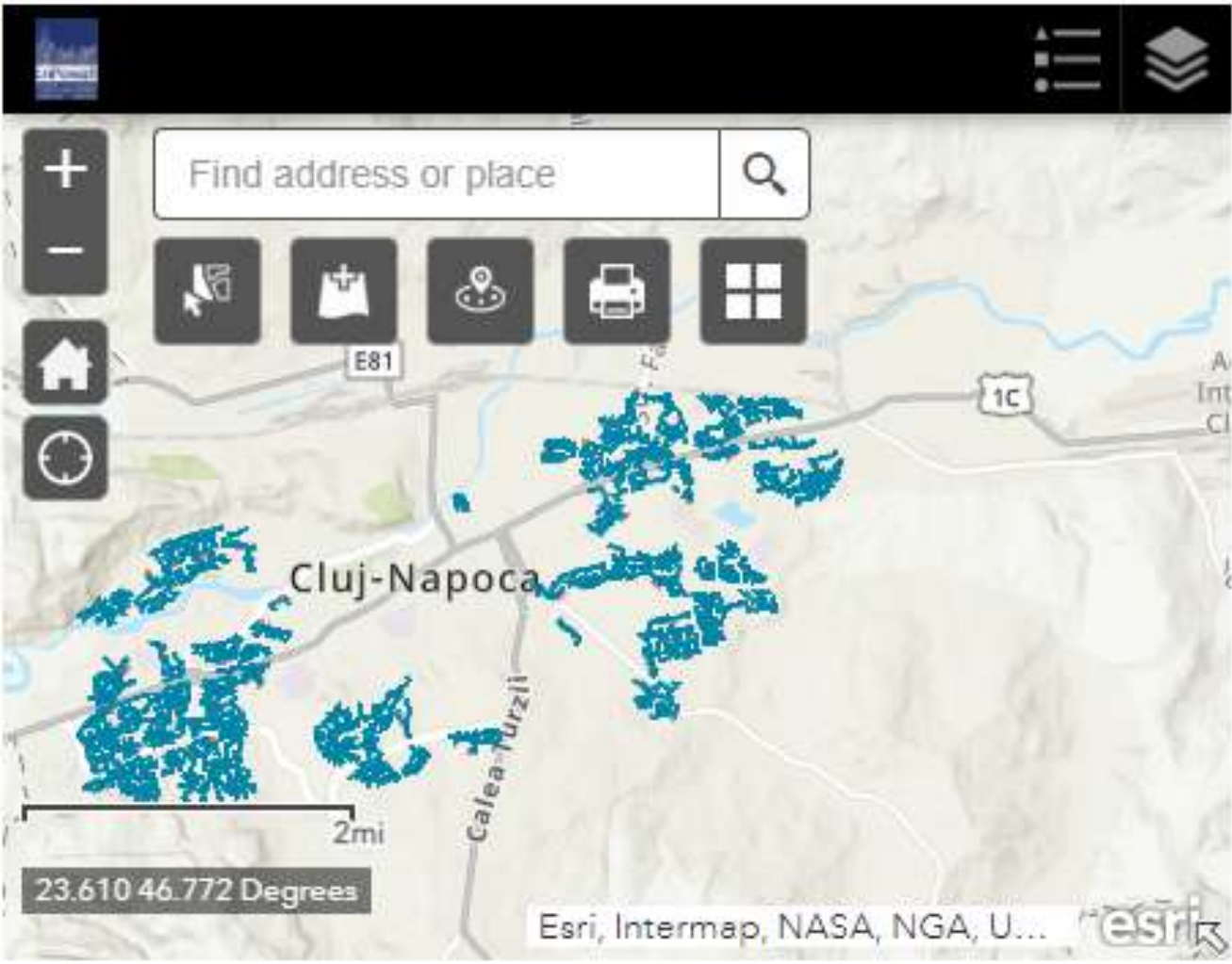


Iceland  
Liechtenstein  
Norway grants



Norway grants

# Energy poverty map





## Preparation for pilot

# Social apartments building with solar system for hot water



- Continuation of Social Green, an Interreg project (informing/ involving tenants in energy efficiency activities, smart home systems in 10 social apartments, rehabilitation of solar thermic system for hot water)
- OTHER: total DOITSMARTER project budget 544 k Euro;
- Alba Iulia budget: 67.060 Euro (Grant 57.000 Euro, 85%)

***Thank you!***

**Maria Seemann  
public manager  
Alba Iulia Municipality**

[maria.seemann@apulium.ro](mailto:maria.seemann@apulium.ro)