



PROSPERA
Interreg Europe



Good Practice - Envirosense

Gergely Hunyadi PhD, Head of Division, Envirosense Ltd.

Debrecen, 22th June, 2021

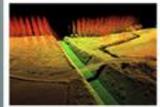
GP 1 - Envirosense



TECHNOLÓGIA ▾ SZOLGÁLTATÁSOK ▾ ESETTANULMÁNYOK PÁLYÁZATOK HÍREK KAPCSOLAT

enviMAP
A TÉRBEN REJLŐ
INFORMÁCIÓ
PRÓBÁLJA KI ONLINE
TÉRKÉPEINKET

MEGNÉZEM AZ ENVIMAPET



01

History

Established in 2009 – R&D Background - University of Debrecen, Remote Sensing Centre

02

Our team

25 employees – 10-15 temporary co-workers – Dynamic growth

03

Main focus

Remote Sensing and connected services – Research, Development and Innovation

04

Our projects

Hungarian and EU market mostly but international expertise as well (eg. Gulf of Mexico, Israel, Colombia)

05

Good Practice in PROSPERA

Creating a GIS system which is based on modern remote sensing methods and satellite data

Collaboration with the Municipality

01

2019 – a request from the Municipality of Debrecen to explore the readiness of data for spatial transformation

02

2020 – Interviewing all departments of the local government, and more than 30 organizations that are strongly connected or owned by the Municipality

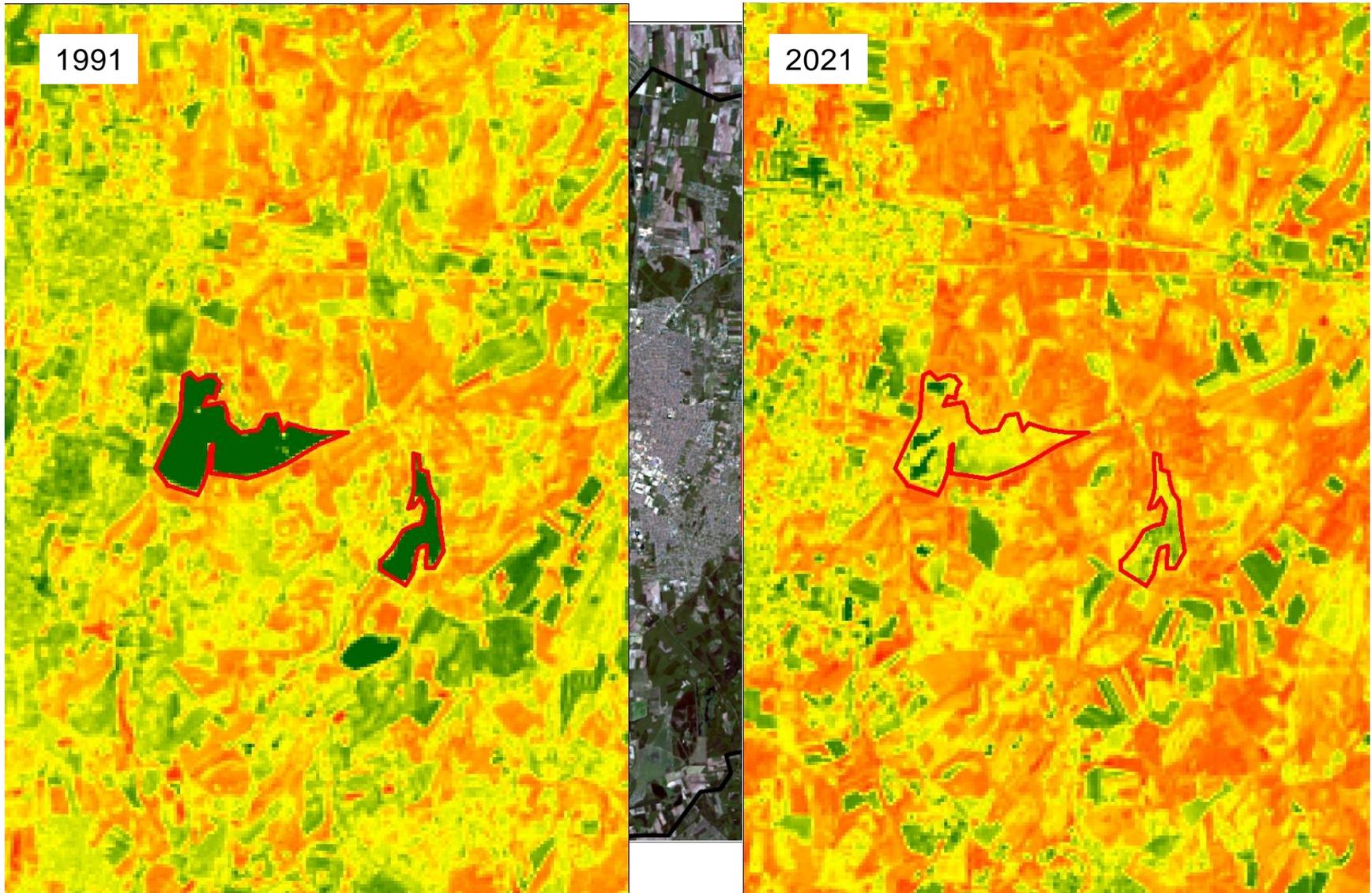
03

2020 – Delivering a feasibility study for digital and spatial transformation of all available data and city and forming a plan of a GIS system – using facts, measuring all processes, decision support

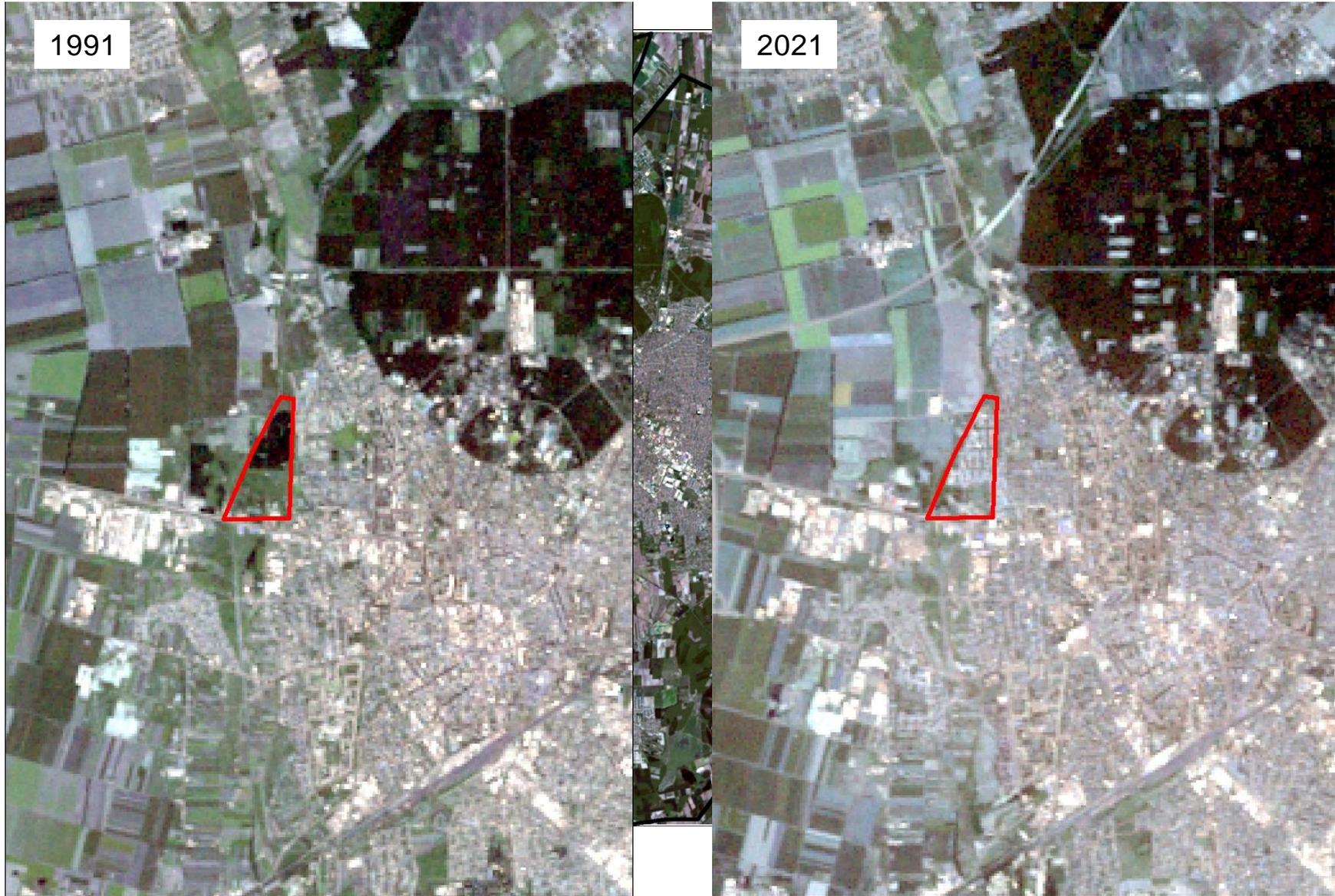


2021 – Starting to build the system step by step with the strong collaboration of the Municipality

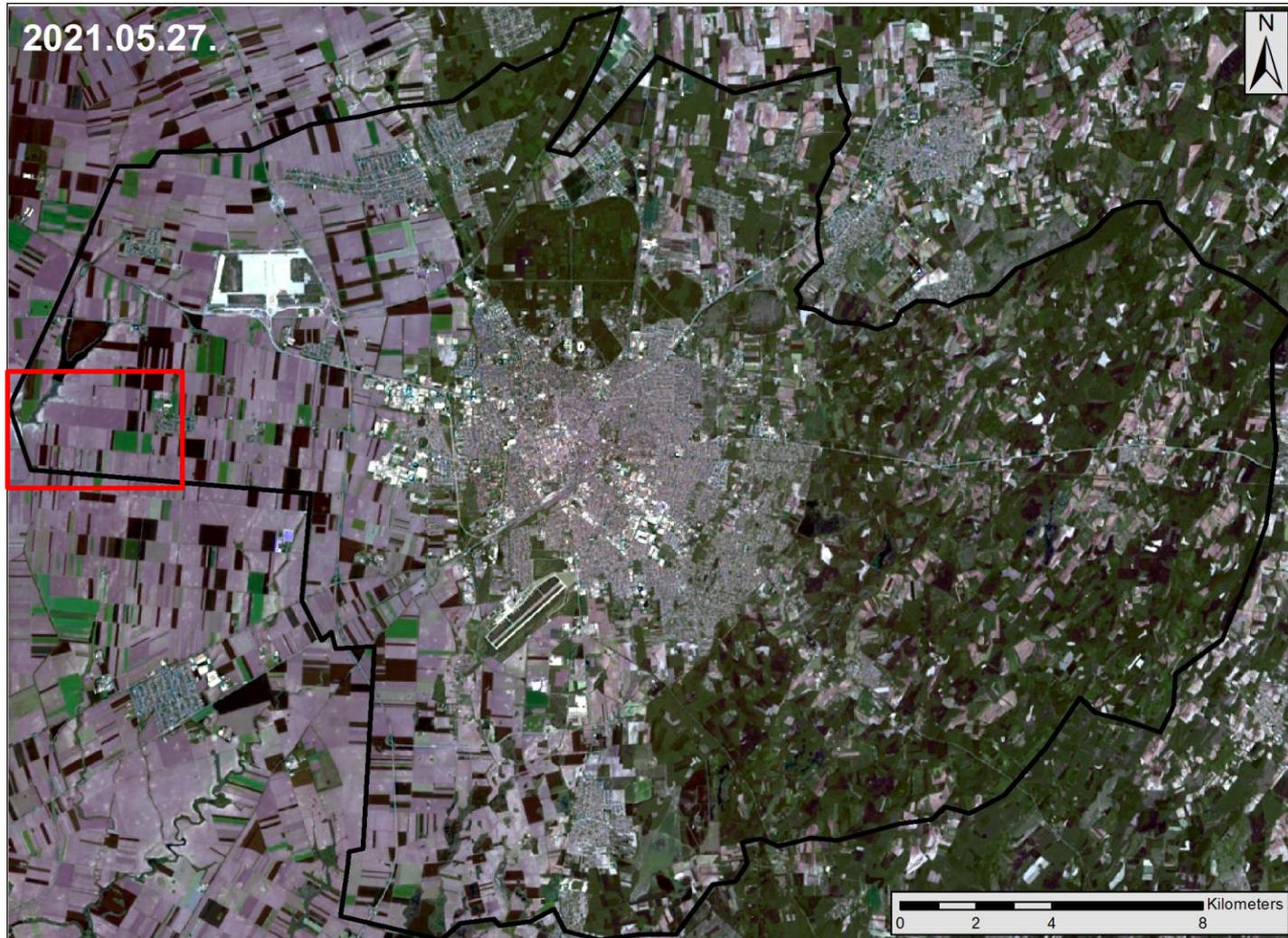
Examples for peri-urban areas I.



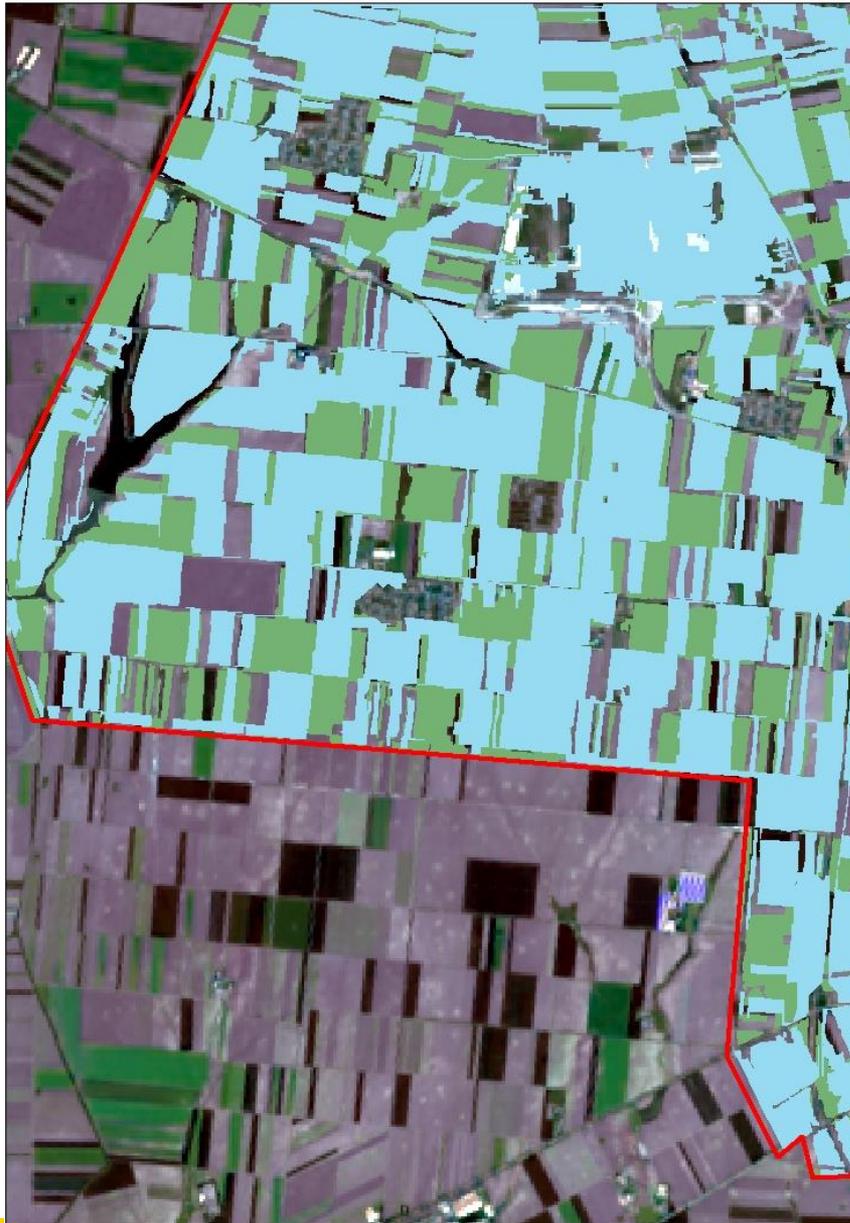
Examples for peri-urban areas II.



Examples for peri-urban areas III.



Examples for peri-urban areas III.

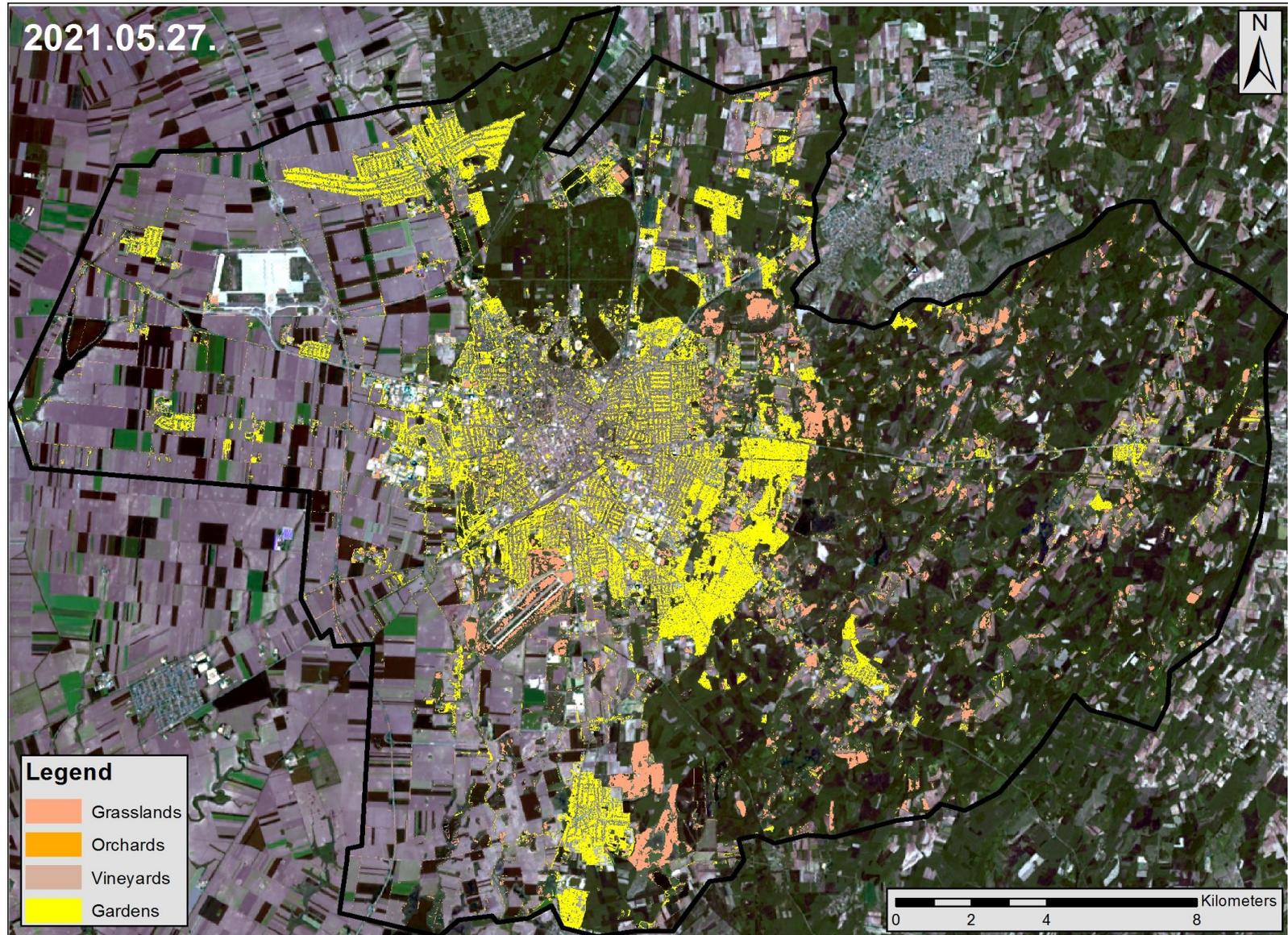


Area of Maize

2019 

2020 

Examples for peri-urban areas IV.



Examples for peri-urban areas V.

Differences between official cadastre and reality in a peri-urban area



Role and aims of different stakeholders

- Key challenges for Debrecen:
 - significant development in the last 30 years
 - peri-urban areas are heavily affected due to their heterogeneity
 - climate change effects, droughts,
 - urban sprawl
 - enclosed gardens (illegal functions, structures)
 - peri-urban areas were not in the focus in previous PI
 - lack of strategic urban tools
 - big ambitions due to economic boom – political ambitions

- A company based in Debrecen, which offers modern, innovative technology for different, **spatial challenges**

- The role of EDC – since it's a business development company, it has good connection with the business sector in the city

Aligning with PROSPERA

- Objective: to support evidence based decision-making and to improve urban-planning/management
- It aligns with PROSPERA leverage: **From smart to wise governance**
- How?
 - by using high-quality data
 - by establishing a GIS system that could give accurate picture
 - by giving solution to include peri-urban areas in strategic planning

Challenges (outlook of the future), opportunities

Challenges:

- effectiveness depends on decision makers
- it is important to involve different stakeholders
- success in decision-making stands or falls on the transfer of information – delivering easy-to-understand products
- Fast growing technology

Opportunities:

- Answers to given problems
- Reaching target audiences with lower financial resources
- Educating target audiences
- Reaching higher return on investment

Success story:

- Building a system to an insurance company – saving EUR millions



PROSPERA

Interreg Europe



European Union
European Regional
Development Fund

Thank you!

Questions welcome



Project smedia