ILD project

INTEGRATED LAND DEVELOPMENT **(ILD)** PROGRAM
TO IMPROVE LAND USE AND WATER MANAGEMENT EFFICIENCY
IN THE TISZA BASIN

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UNDP/GEF Tisza MSP
Stakeholder Meeting
13th November 2009
Kosice /Kassa

Content

- problem focussed, solution suggested
- project
  - structures /
  - partners /
  - sites /
  - methods /
  - activities
- expectations, learnings

Problem focussed

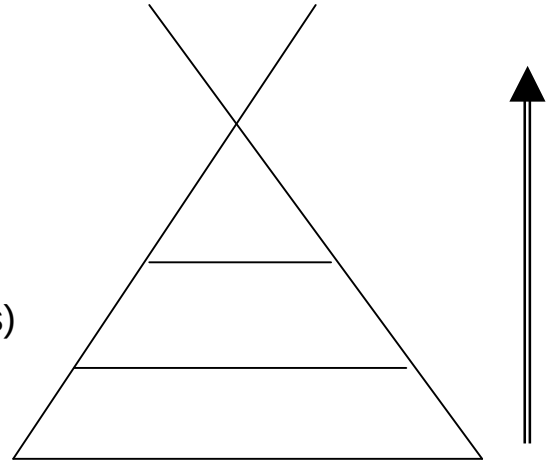
Present land use results in

drying land and exposed society and economy

in local communities.

Structural Trap

- effects (eg. emissions or crime)
- functioning (eg. land use, water mgmt.)
- structures (eg. infrastr., patterns, policies)
- values (eg. „consumer society”)



Solution suggested

To reduce bad effects need big changes.

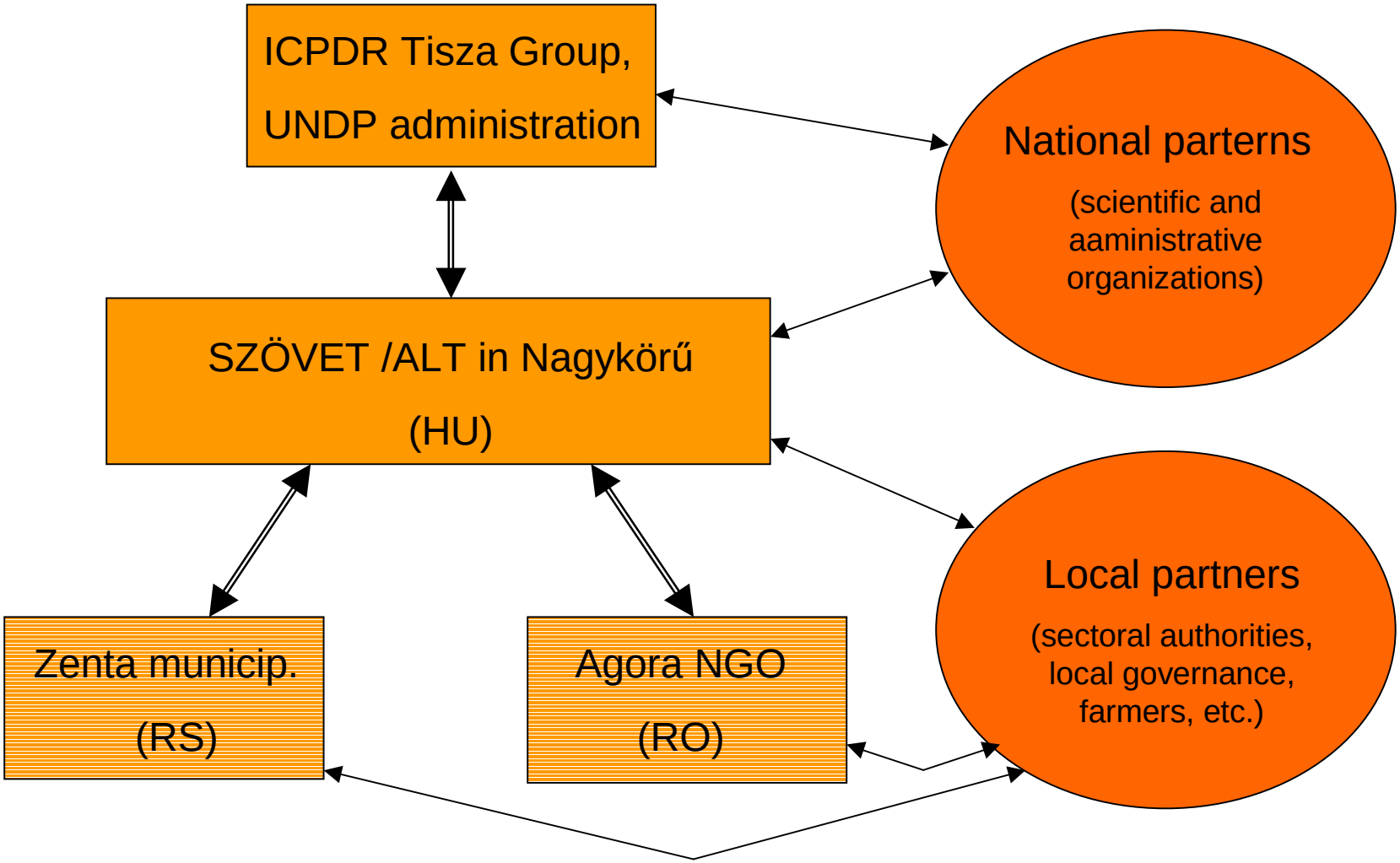
No way for big changes (→ srtuctural trap)

Try to change locally. (ILD)

- adaptive and water efficient LUC
- in some parcells
- in pilots

And disseminate

Project structure 1.



Project structure 2.

Output 1 - ILD protocol - institutional framework (scientific,legal and management situation, economic circumstances)

Output 2 - Implementation the ILD at Nagykörű sites (field works)

Output 3 - Dissemination both up and down (multinational, national and local level)

Task 1

- To summarise foundational works on LUC in pilot sites (digesting and complementing data, introducing results)
  - evaluating recent land use
  - demonstrating alternative land use (ILD – necessities and potentialities)
  - seeking out land users to inform them personally
  - scheduling works for LUC (for implementation of ILD)
  - managing the implementation (setting lessons, arranging dissemination)

Task 2

- To complete LUC in selected pilot sites on the active floodplain (arranging administration, setting parcells, improving conditions for pasturage – eg. removing unproper vegetation, confining adventive species, fencing)
  - arable land → grazing forest
  - arable land → floodplain lake

Task 3

- To adapt selected canals to serve ILD on protected floodplain
  - „soft” improvement: adapting working method of canals for water allocation
  - „hard” improvement:
    - adapting morfological characteristics of canals to natural channels (slope and course correction - as far as possible)
    - building lateral outlets to let out the water and collect the surplus volume (steering by sluices)

Task 4

- To change the land use on selected sites, adapting vegetation to elevation (arable land → wetland in former riverbeds)
  - „soft” improvement: administration of LUC, fitting parcels to elevation
  - „hard” improvement: morphological and biological implementation
    - some earthworks to accentuate and actuate different elevations (improving inland-water steering)
    - improving flora fit to elevations to promote evolution of the natural pattern (implementing green corridors)

Task 5

- To put improved ILD protocol into practice on regions belonged to partners
  - evaluating the local land and circumstances (identifying possible sites for case studies)
  - defining the locally adaptive ILD for establishing LUC
  - informing the stakeholders about lessons learned, getting a local initiative under way

Project partners

- **Zenta /Senta Municipality (RS)**
- **AGORA NGO Székelyudvarhely (RO)**

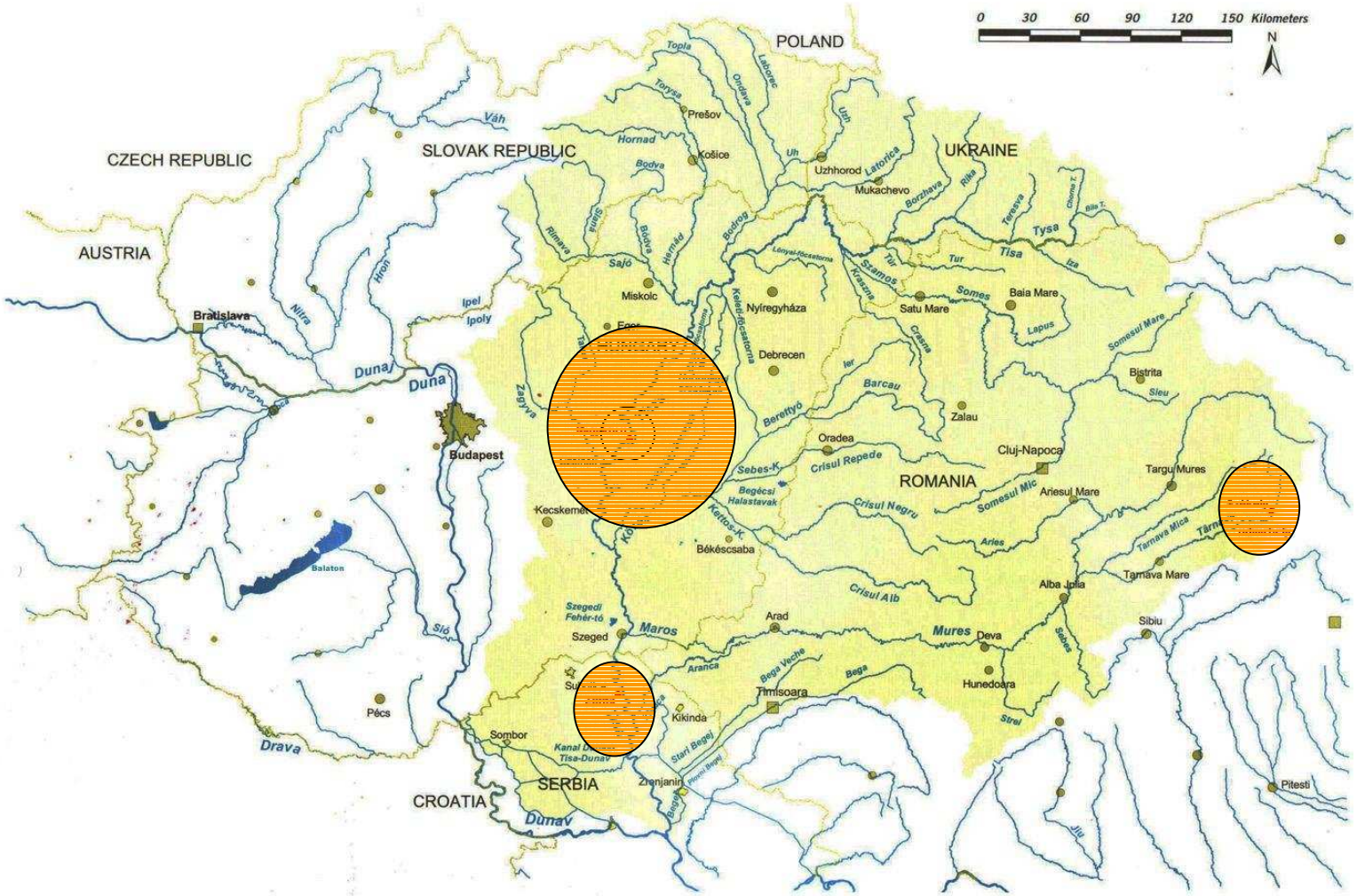
- **MTA TAKI – RISSAC**
- **BME - Technological University of Budapest**
- **Károlyi Gáspár Reformatic University, Budapest**

- **KÖTI-KÖVIZIG, Szolnok, Hungary**
- **Jászkisér Water Board, Hungary**

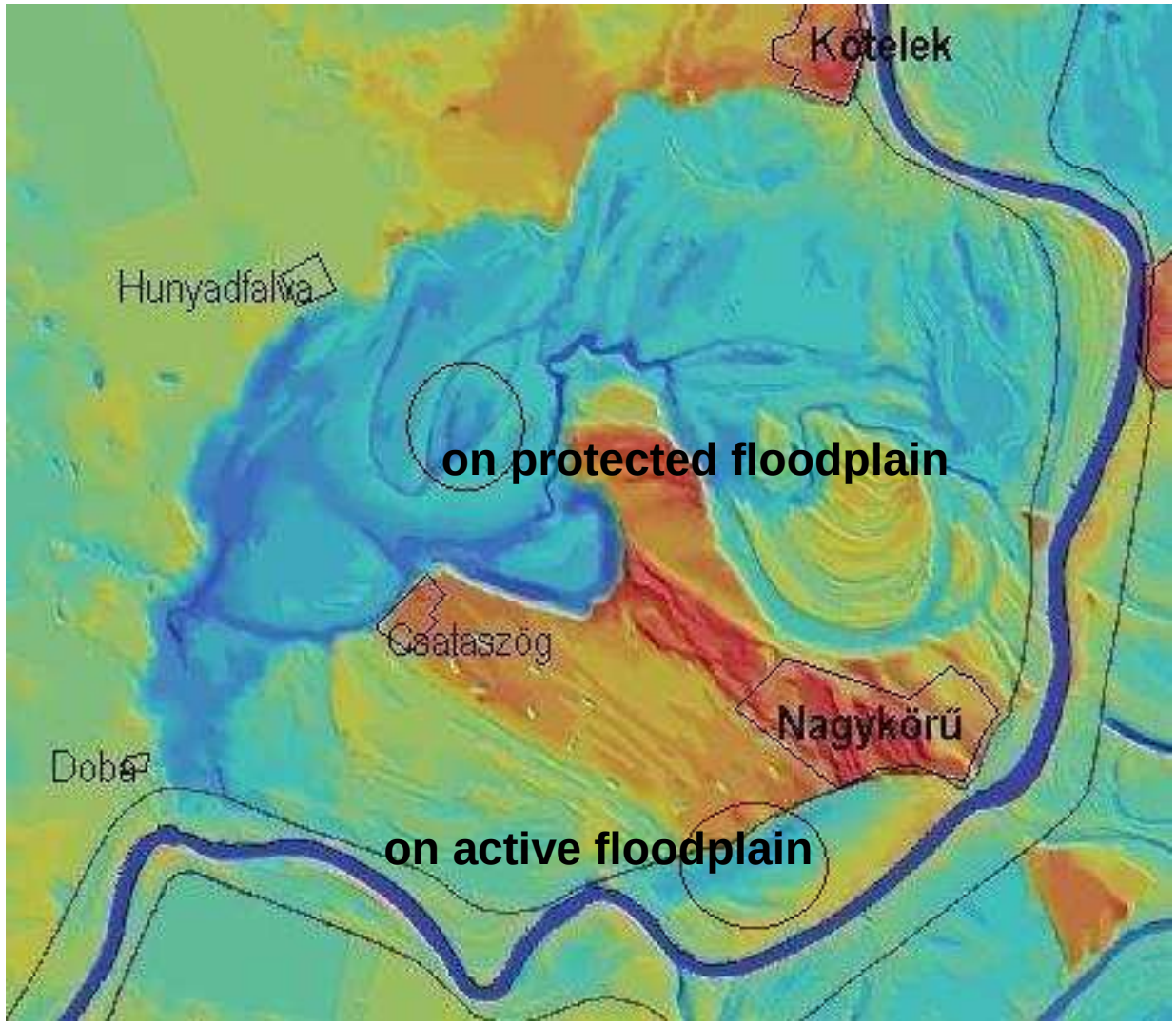
- **Locator Association, Zenta, Szerbia**
- **Gradevsinksi fakultet Subotica, Újvidék, Szerbia**

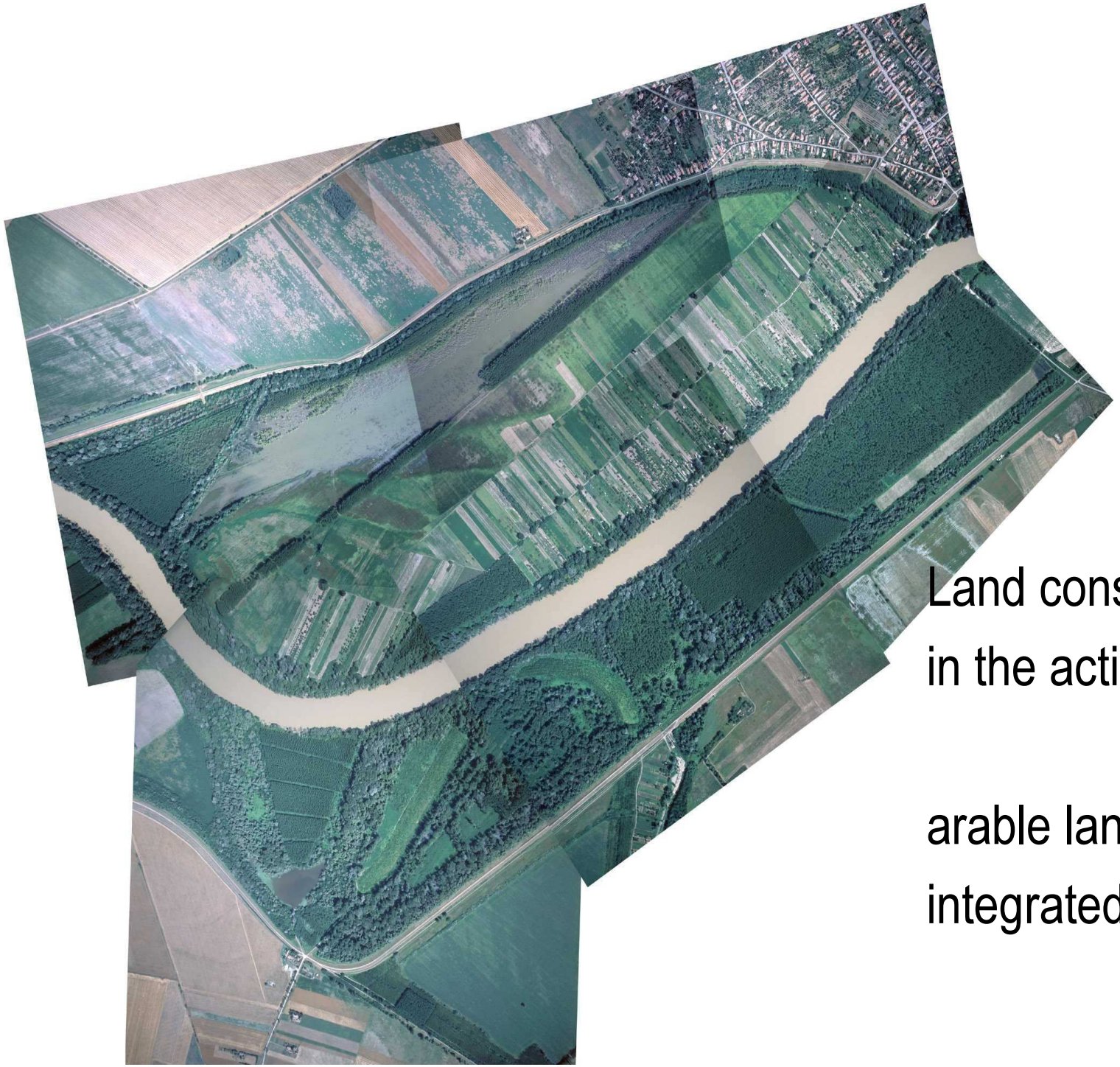
- **Farkaslaka Municipality, RO**
- **Local Water Board, Nagy-Küküllő**

Project sites and reach



Pilot areas in Nagykörű (HU)





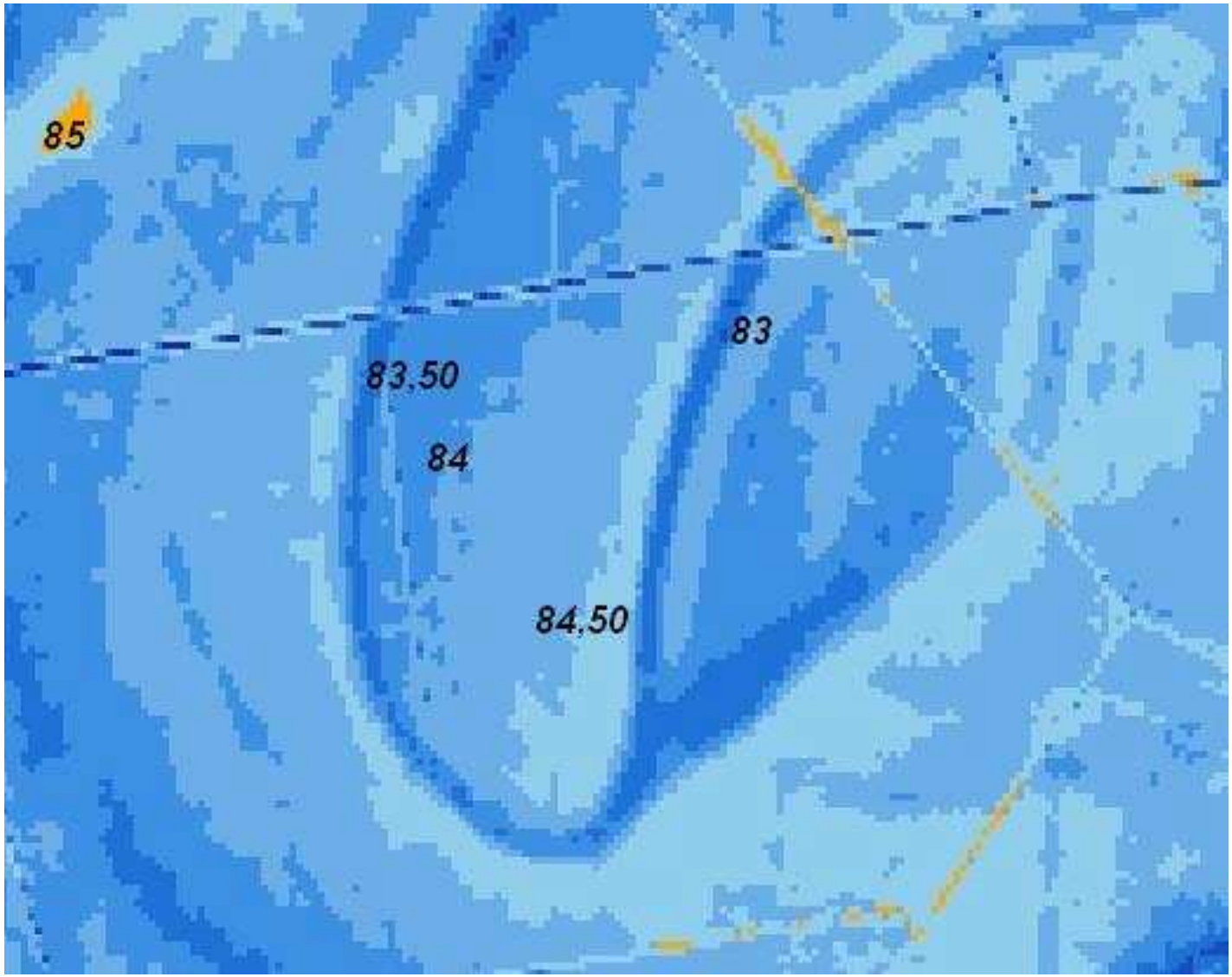
Land consolidation
in the active floodplain

arable land OR
integrated fp. usage

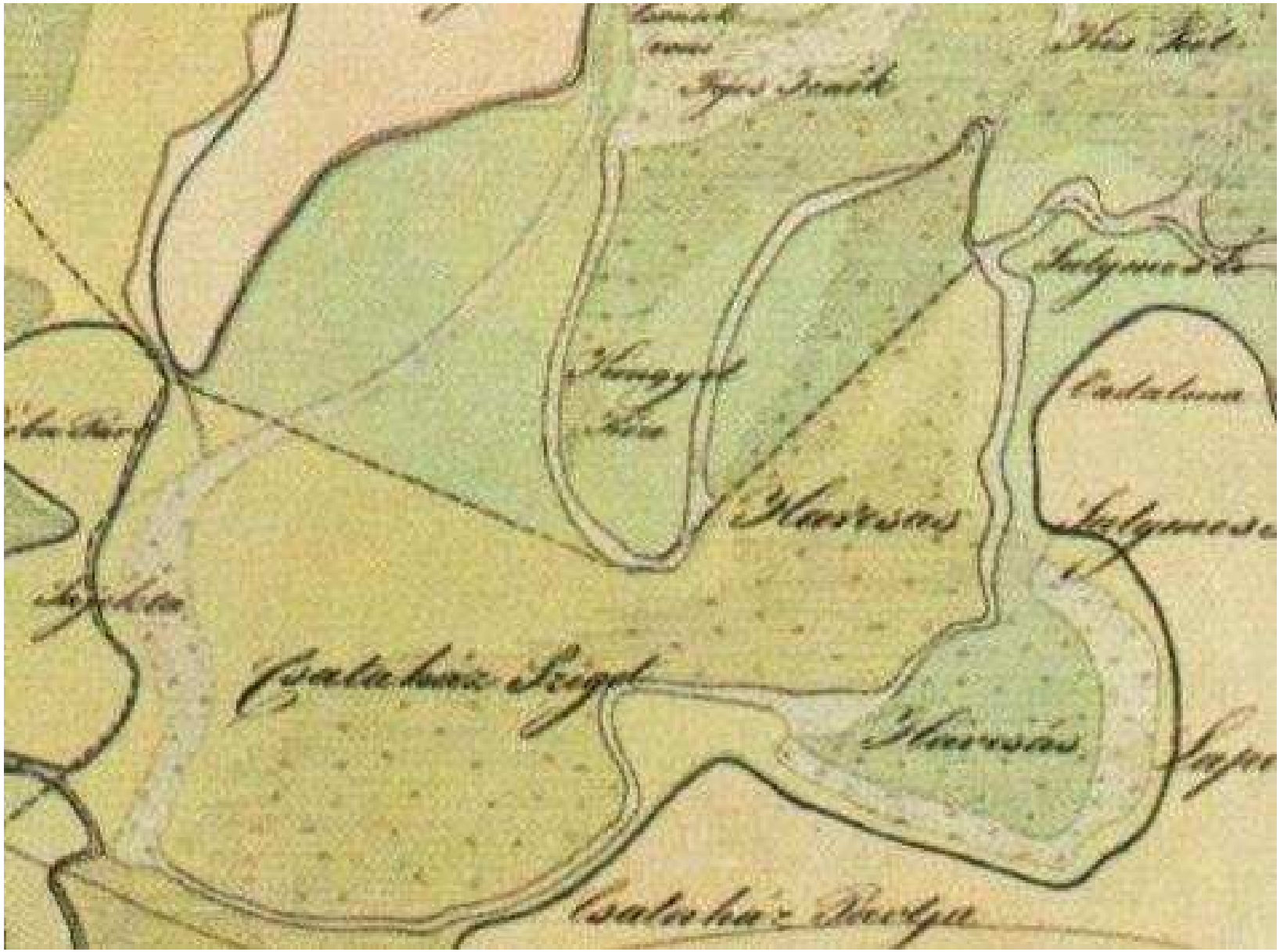
Sluice to controll the water in lateral trench

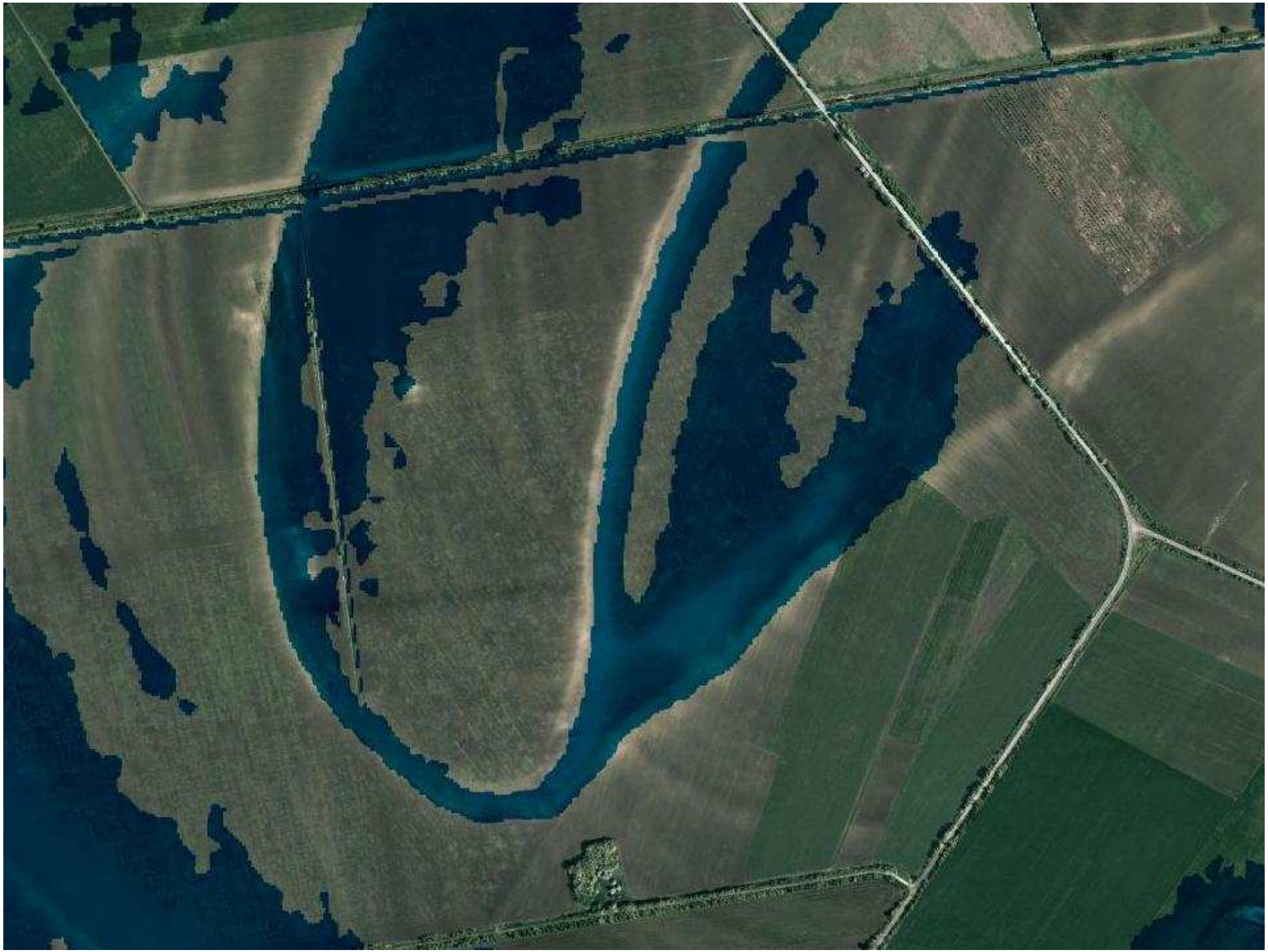

water retention


pastoring in active floodplain
on a former arable land



pilot area
at the protected side of floodplain





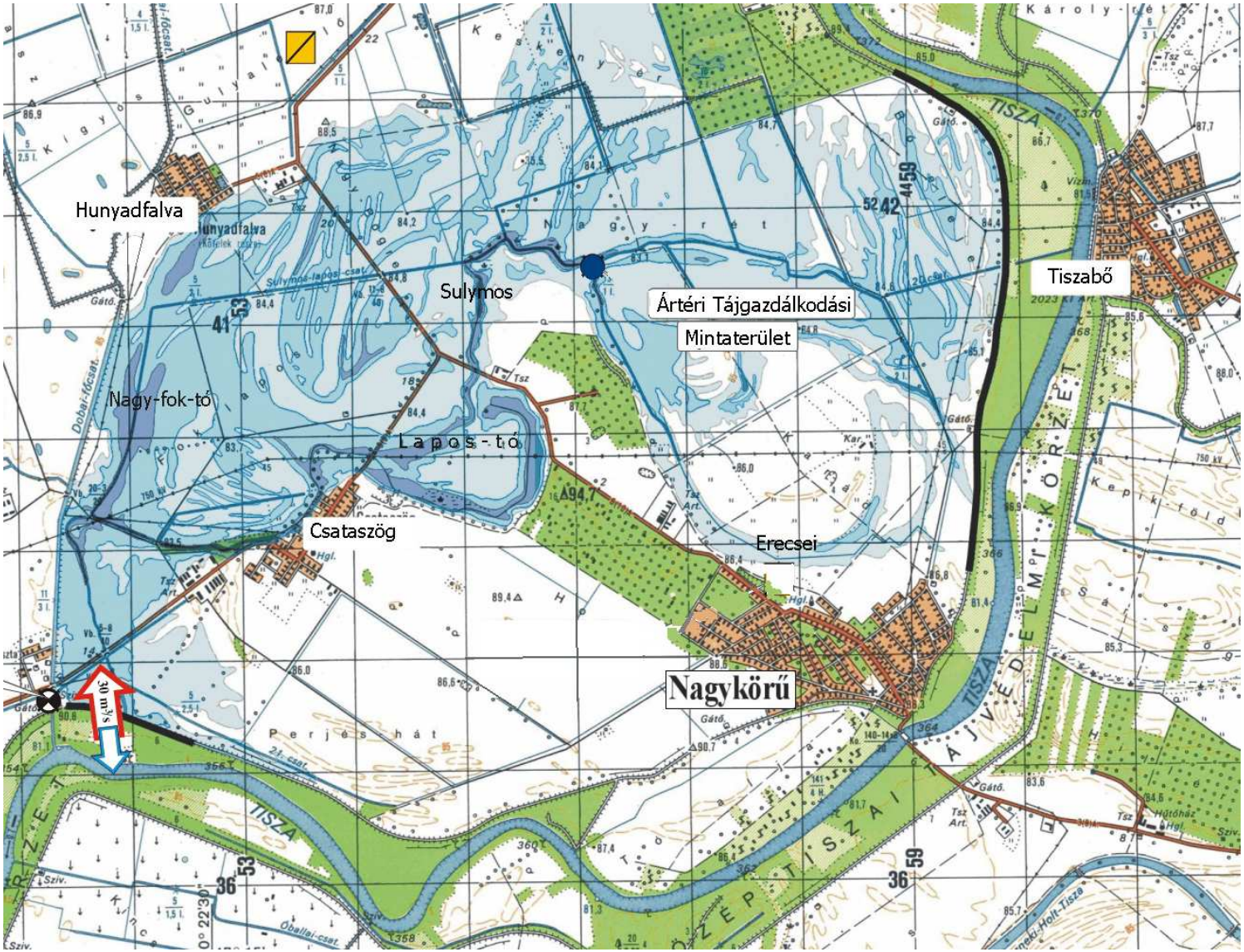

present situation at protected floodplain

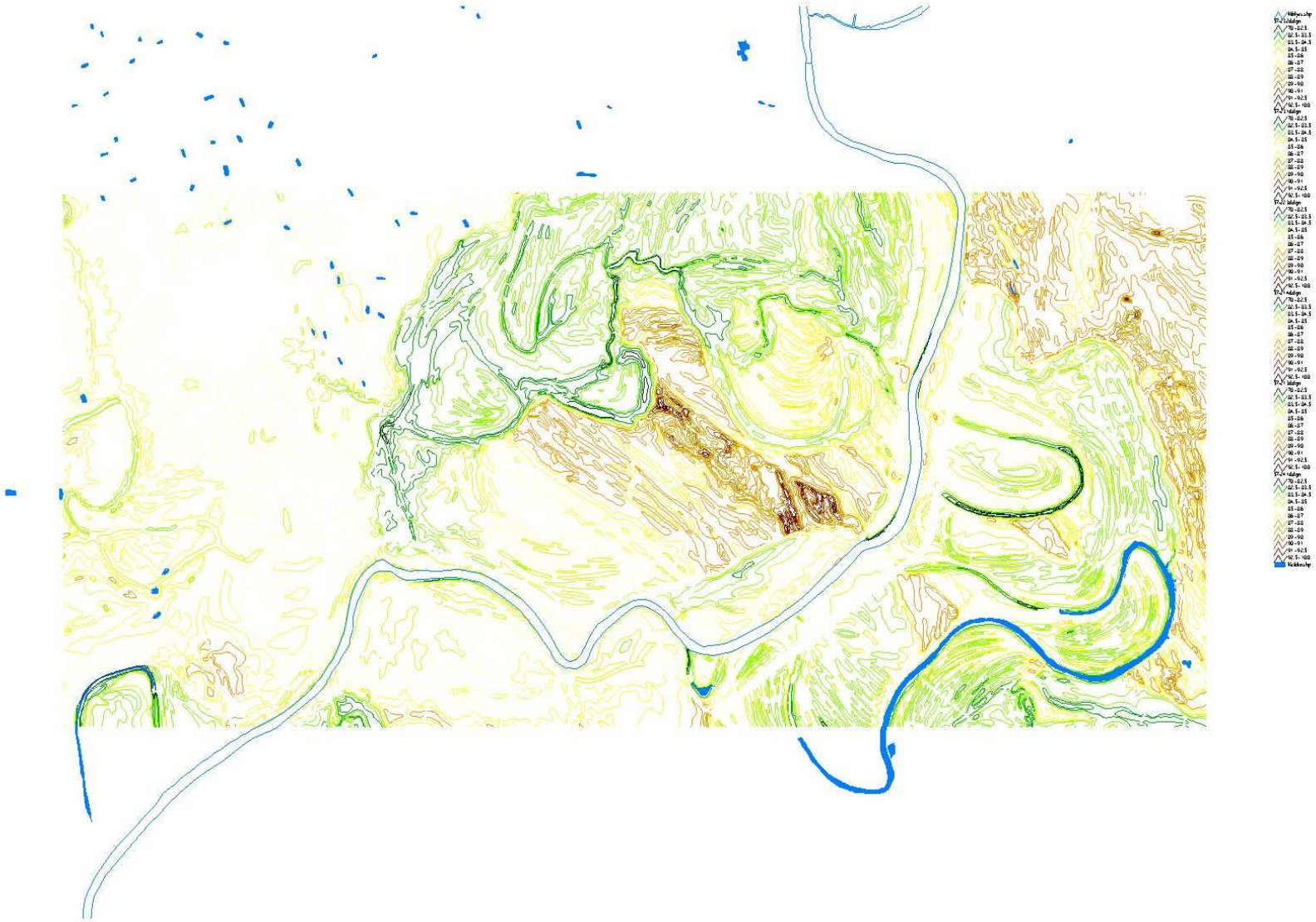

present situation at protected floodplain

Project methods

- Adaptive land use and water management
- Stakeholder attitude survey & forming
- Soil and habitat evaluation & suggestion
- Legal background evaluation & suggestion
- International examples & learnings
- Implement in small size but in full circle
- „Be local” & „Traditions are sustainable”

Conception for water steering system




1 0 1 2 3 Kilometers


1 0 1 2 3 Kilometers


Nagy-fok-tó
1.
1 0 1 2 3 Kilometers


Sulymos
2.
Nagy-fok-tó
1.
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Sulymos
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Lapos-tó
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Sulymos
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Nagy-fok-
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Nagy-fok-tó
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Sulymos
2.
4.
Nagy-fok-
lapos
Nagy-fok-tó
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Lapos-tó
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Sulymos
2.
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Nagy-fok-
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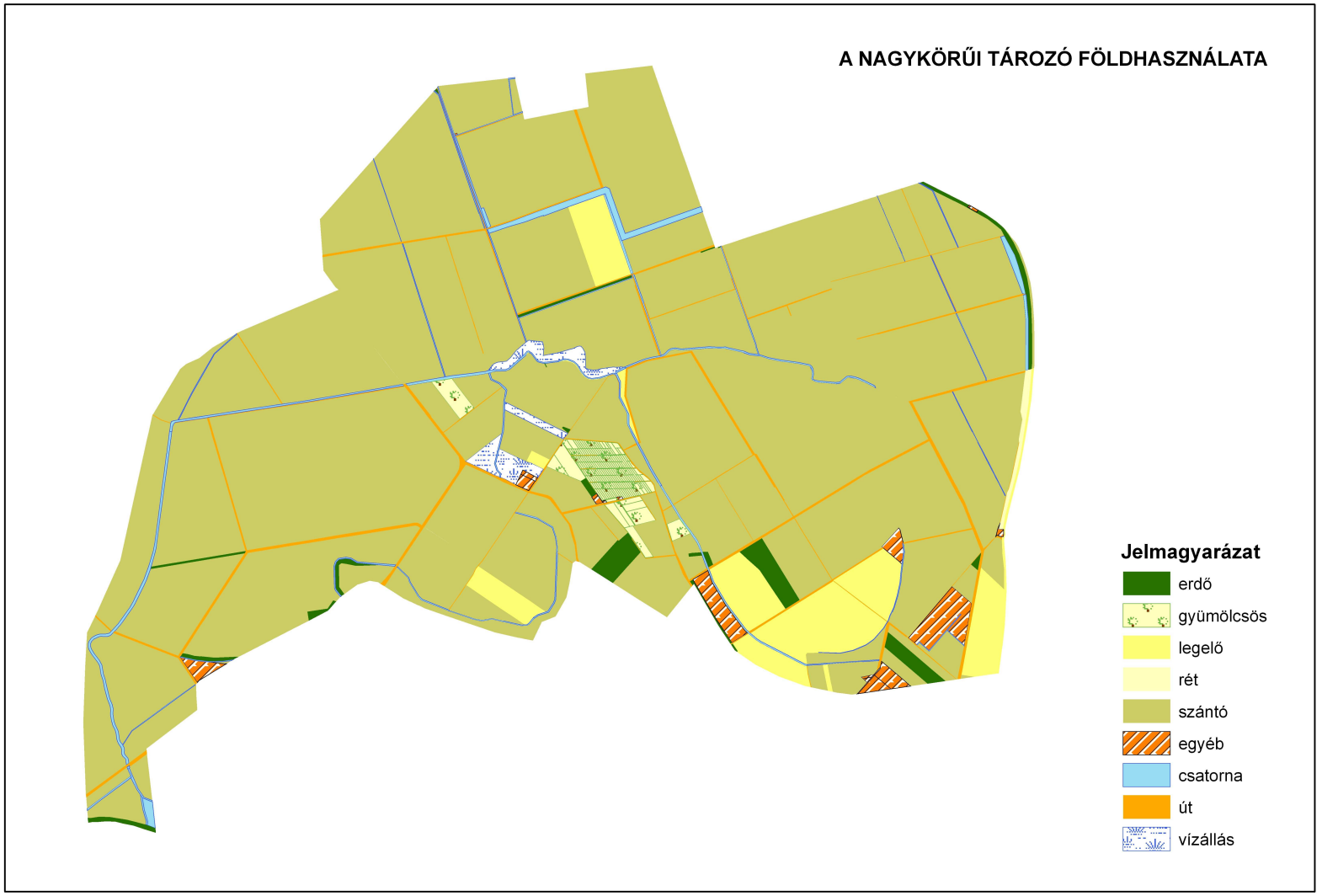
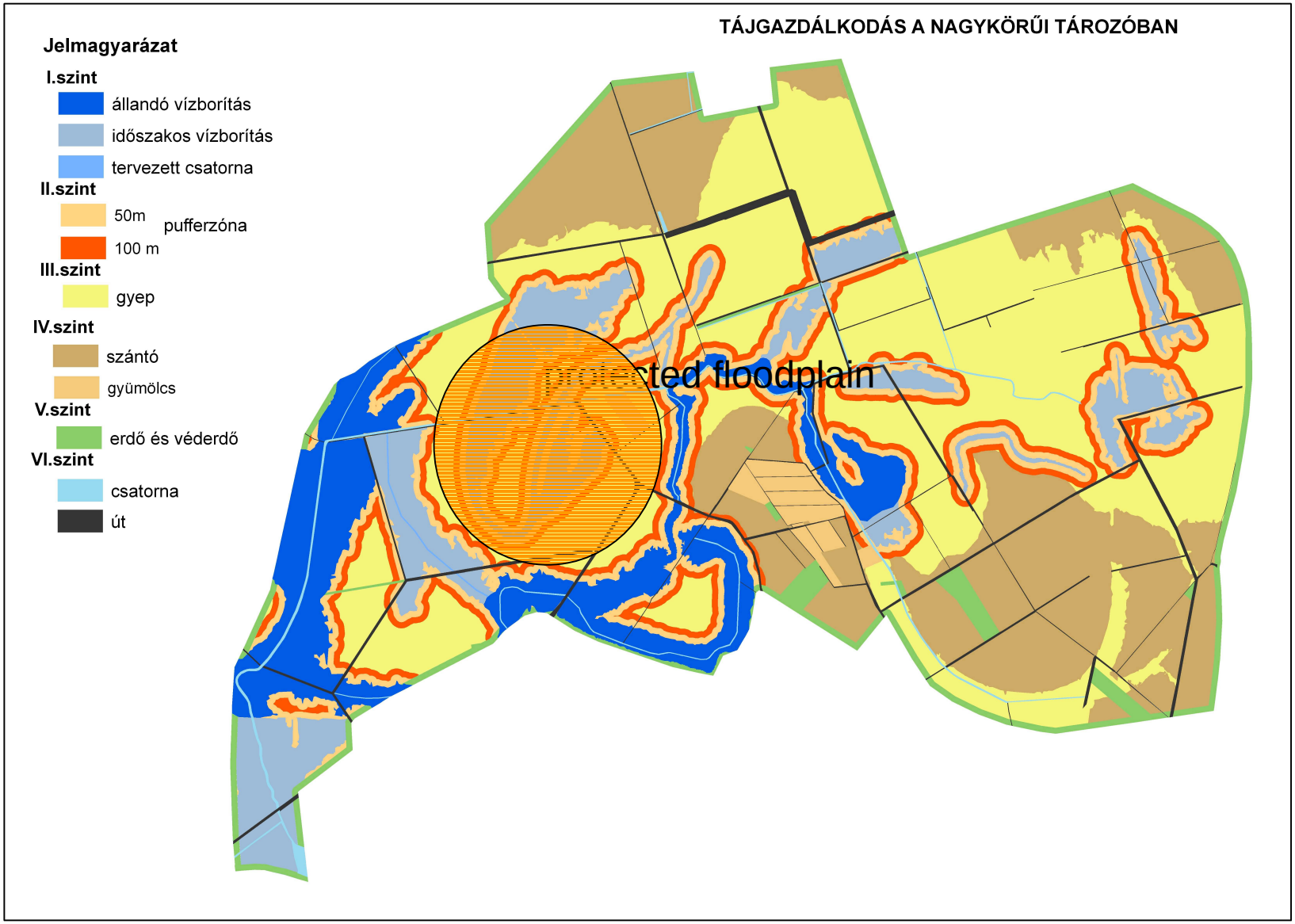
ILD

Conception for adaptive LUC



Conception for adaptive LUC



Project activities

(2009 march-oct)

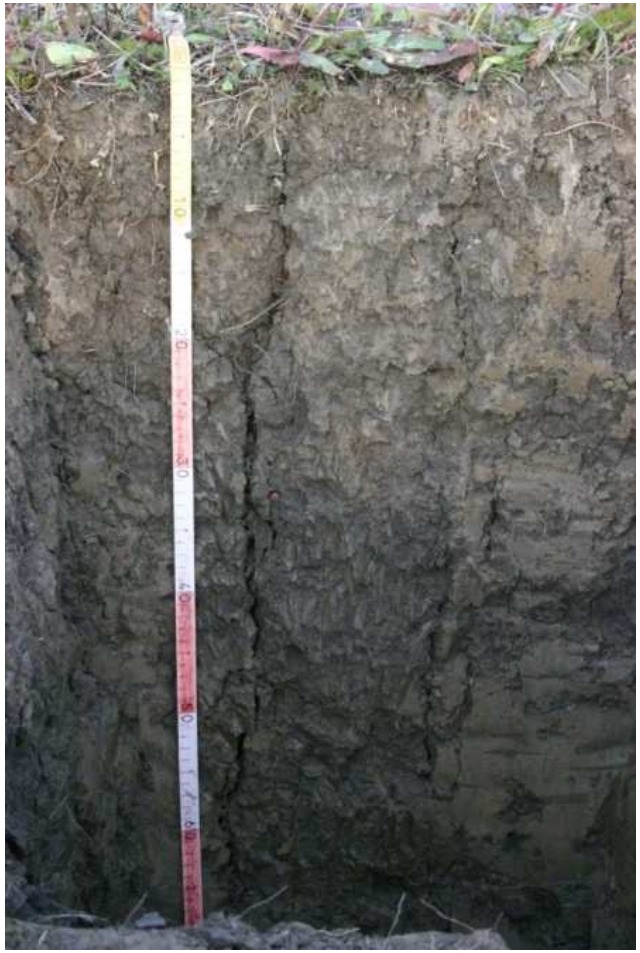
- Scientific background
- Legal framework (policies, Q for attitudes)
- Workshops (in all sites – collect data & disseminate methods/results)
- Field works (soil evaluation)
- administration…

A módszertan elemei

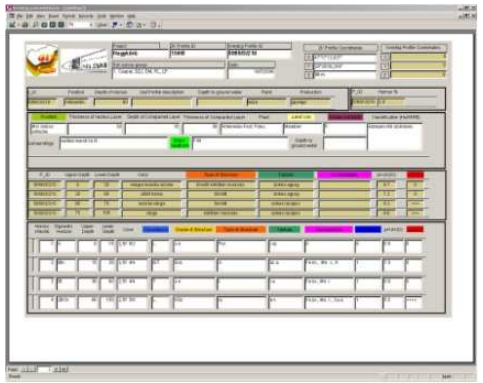
- Informatikai (térinformatikai) feladatok
  - Talajtani adatbázis építés
  - Mobil terepi felvételező rendszer kialakítása
- Terepi talajtani felvételezés
  - Felvételi helyszínek kiválasztása és felkeresése
  - **Részletes talajtani, szennyezettségi, talajökológiai és talajhidrológiai felvételezés**
  - Laboratóriumi vizsgálatok
- Térinformatikai munka
  - Talajtani adatbázis feltöltése
  - Talajfolt határok aktualizálása

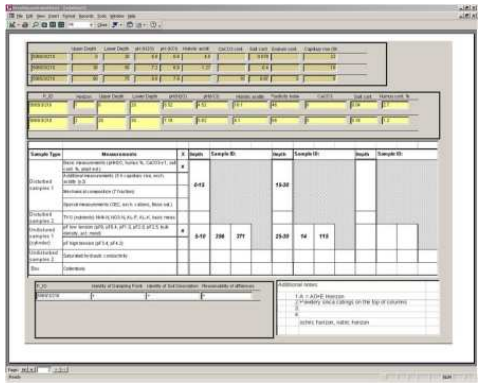
A szelvény feltárása

A helyszín és a talajszelvény leírása



A talajrétegek jellemzőinek dokumentálása





Mintavétel (talajszelvény alapú és tábla szintű)

…és mérések

Expectations & learnings

- Full demonstratation of LUC – in the papers
- Full documentation of LUC – in the field through different problems
- Results on inplementation of LUC

- It is hard to do, beacuse of external circumstances (pol., econ., burokracy, attitudes //structural trap)
- Internal necessities (project reports – HR)

Thank you for attention