

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
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Kosice /Kassa

Content

- problem focussed, solution suggested
- project
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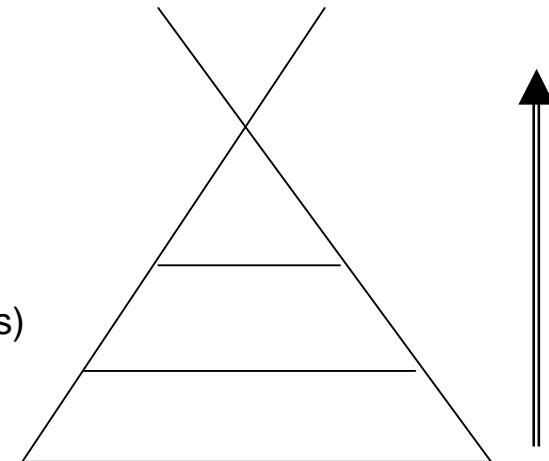
Problem focussed

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.

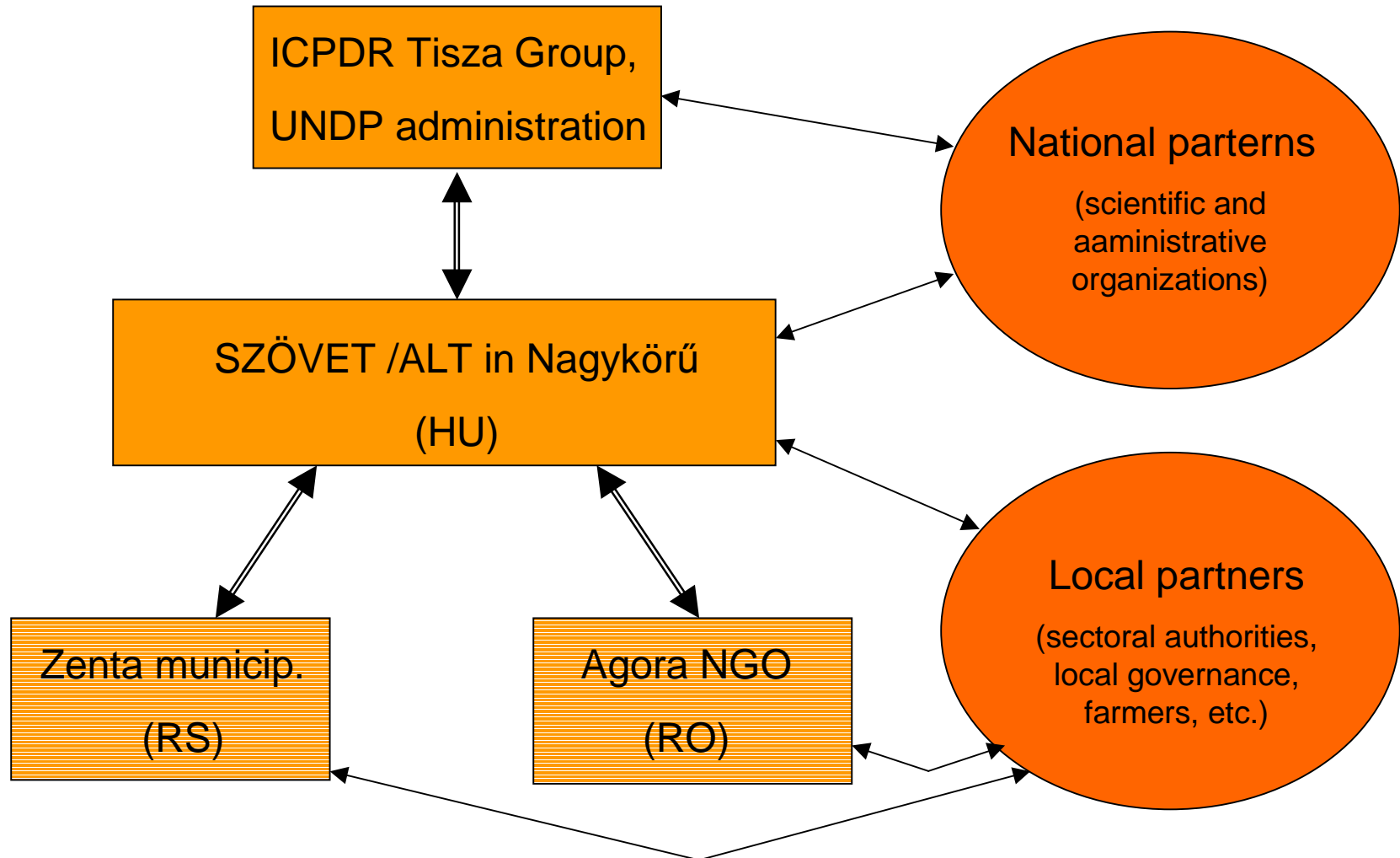
No way for big changes (→ structural trap)

Try to change locally. (ILD)

- adaptive and water efficient LUC
- in some parcels
- 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 parcels, 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)

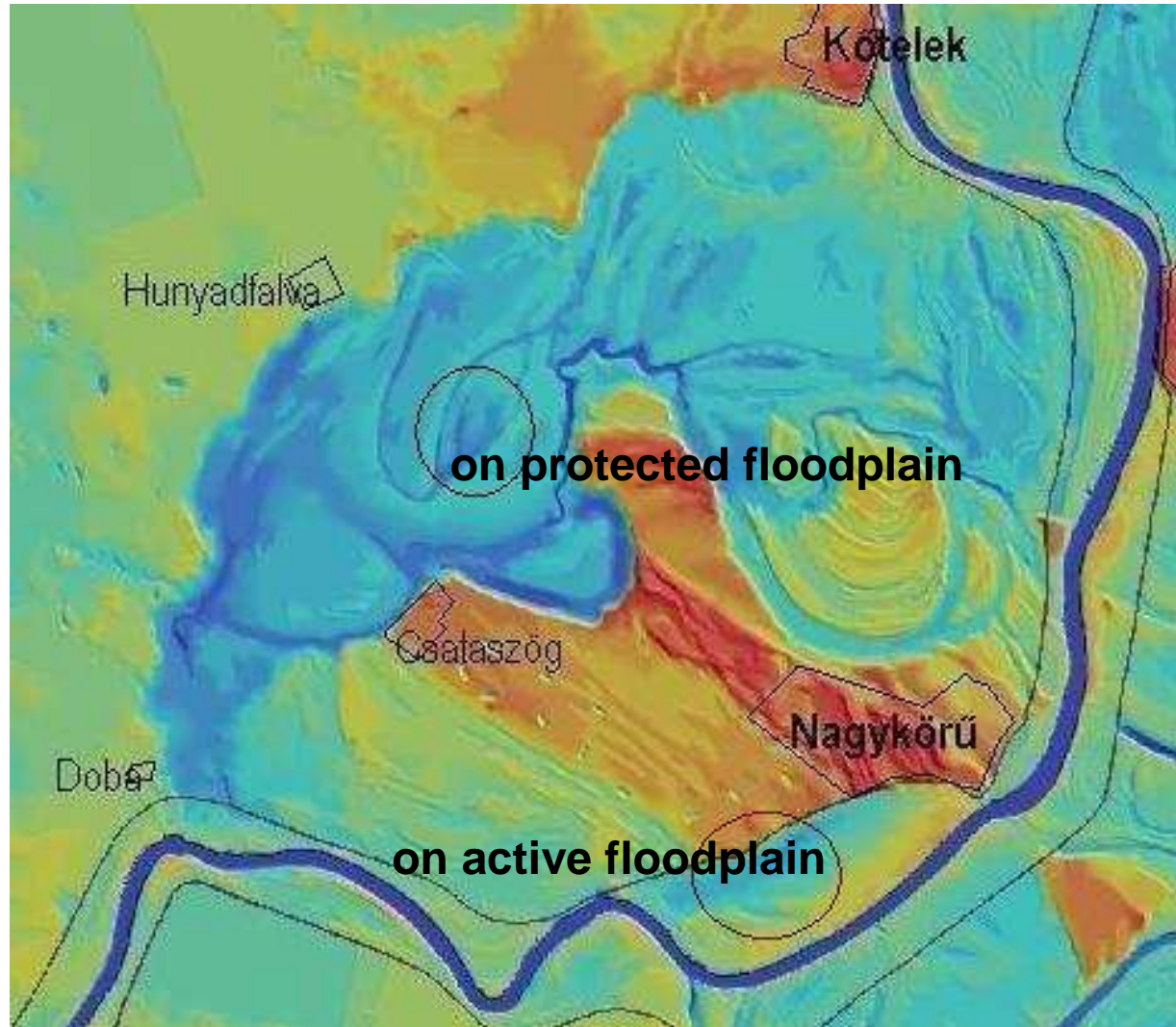
Task 5

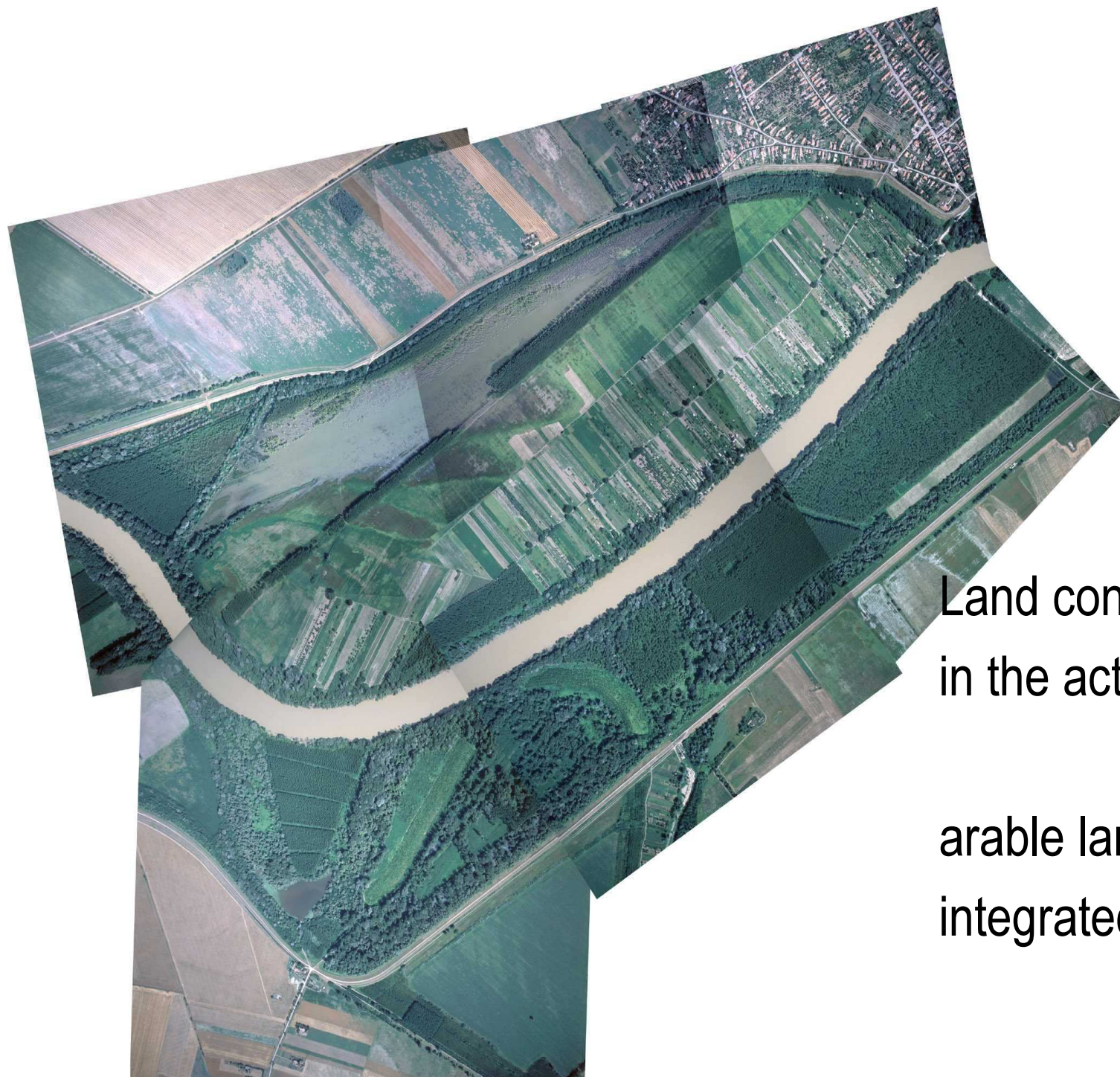
- To put improved ILD protocol into practice on regions belonged to partners
 - evaluating the local land and circumstances (identifying possible sites for case studies)
 - defining the locally adaptive ILD for establishing LUC
 - informing the stakeholders about lessons learned, getting a local initiative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

Project partners

- Zenta /Senta Municipality (RS)
- AGORA NGO Székelyudvarhely (RO)
- MTA TAKI – RISSAC
- BME - Technological University of Budapest
- Károlyi Gáspár Reformati University, Budapest
- KÖTI-KÖVIZIG, Szolnok, Hungary
- Jászkisér Water Board, Hungary
- Locator Association, Zenta, Szerbia
- Gradevsinski fakultet Subotica, Újvidék, Szerbia
- Farkaslaka Municipality, RO
- Local Water Board, Nagy-Küküllő

Pilot areas in Nagykörű (HU)





Land consolidation
in the active floodplain

arable land OR
integrated fp. usage

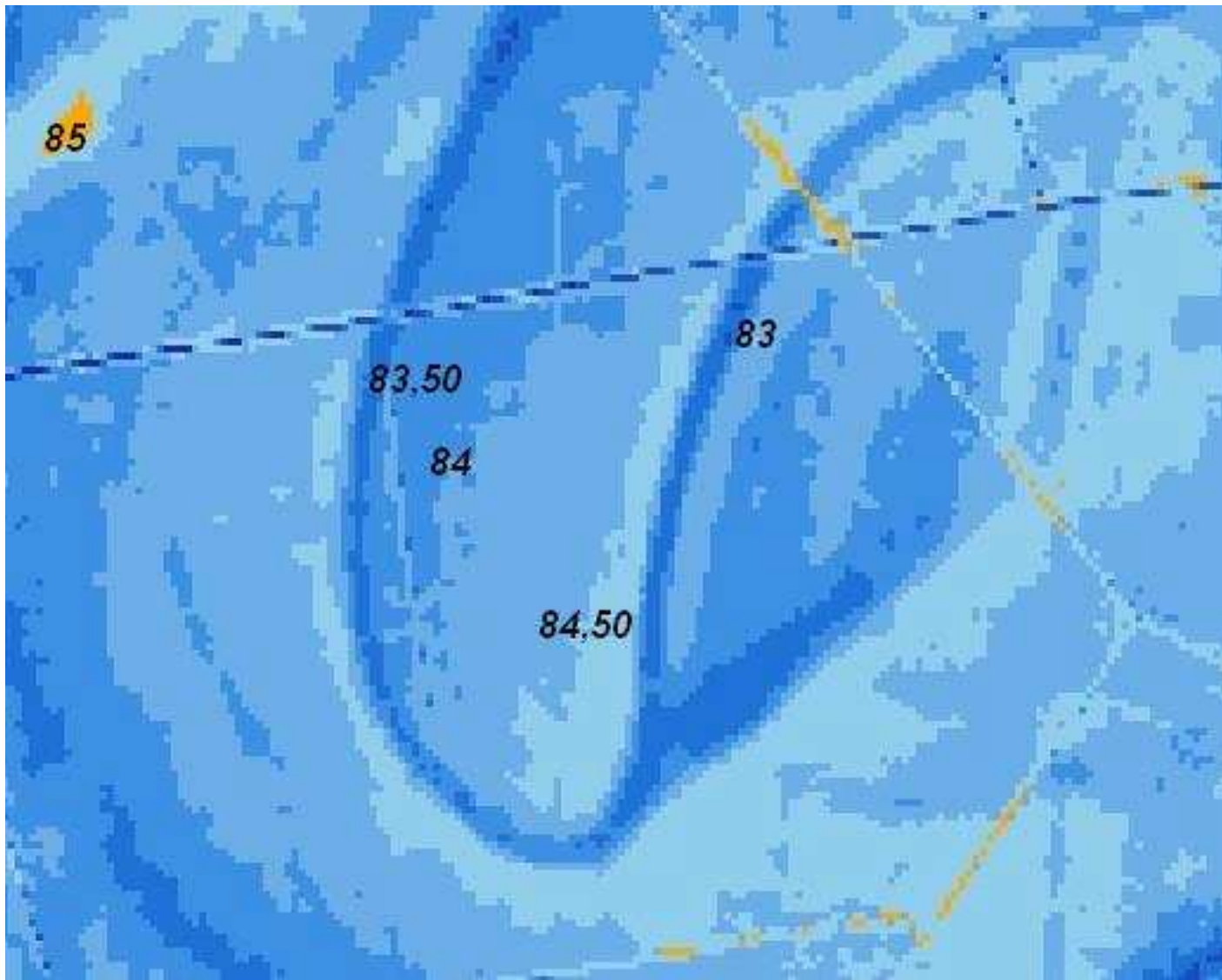
Sluice to control the water in lateral trench



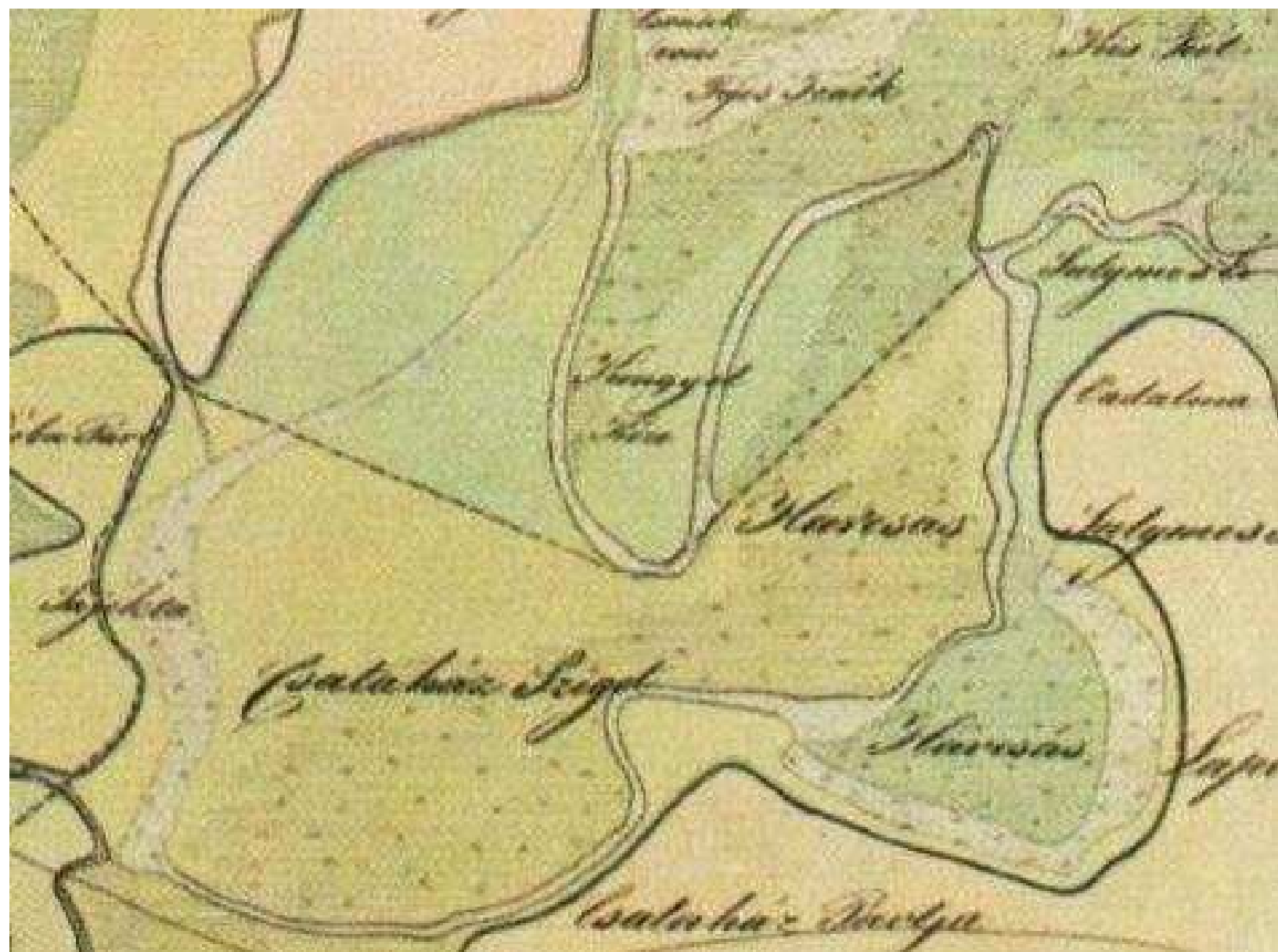


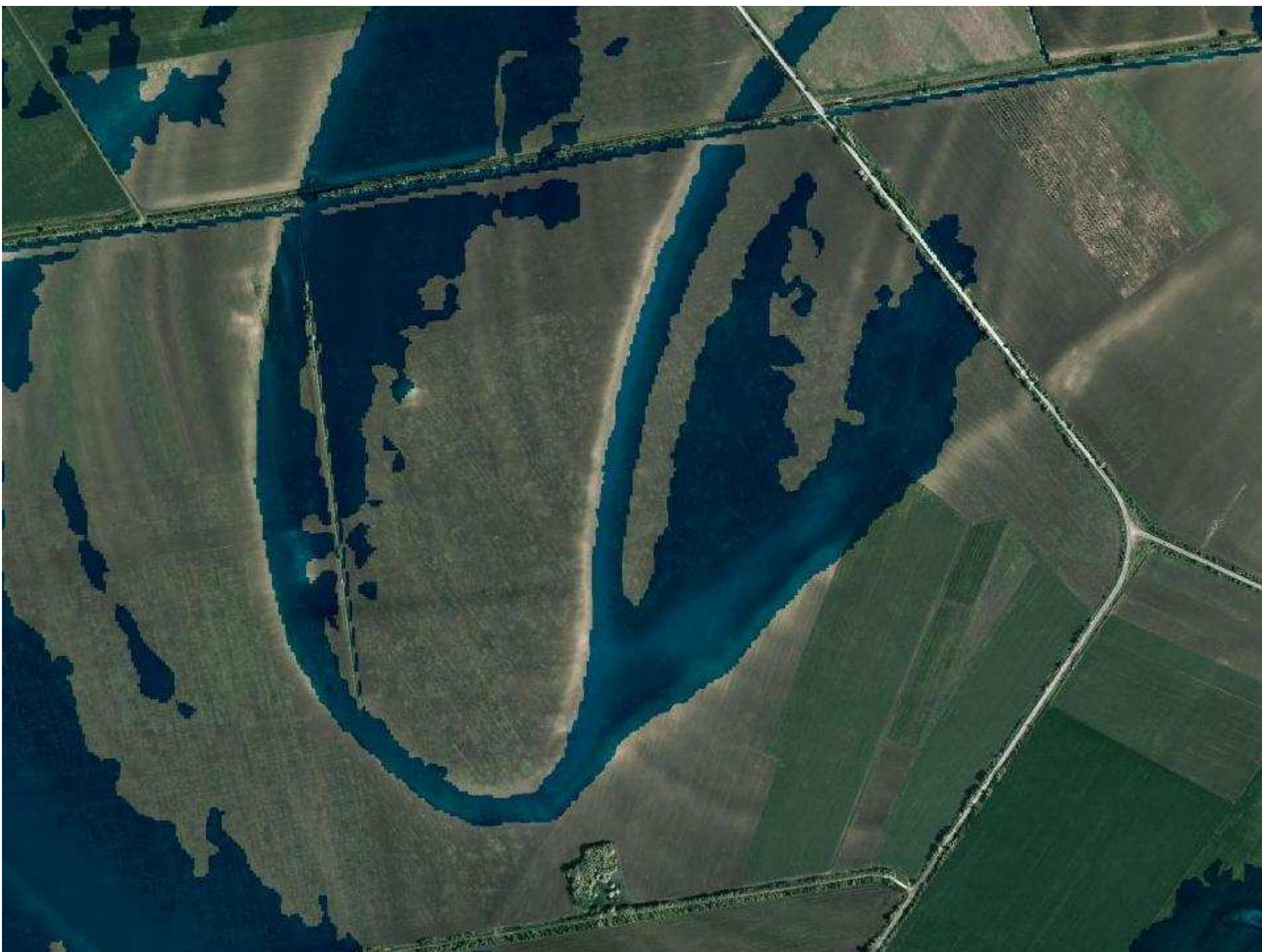


pastoring in active floodplain
on a former arable land



pilot area
at the protected side of floodplain







present situation at protected floodplain

A photograph showing a flooded agricultural field. A winding channel of blue water flows through dark, muddy soil. The foreground and middle ground are covered in this dark, wet earth, with some dry, yellowish-brown plant matter scattered about. In the background, a straight line of tall, thin, bare trees stands against a clear, pale blue sky. The overall scene depicts a flooded landscape, likely a floodplain.

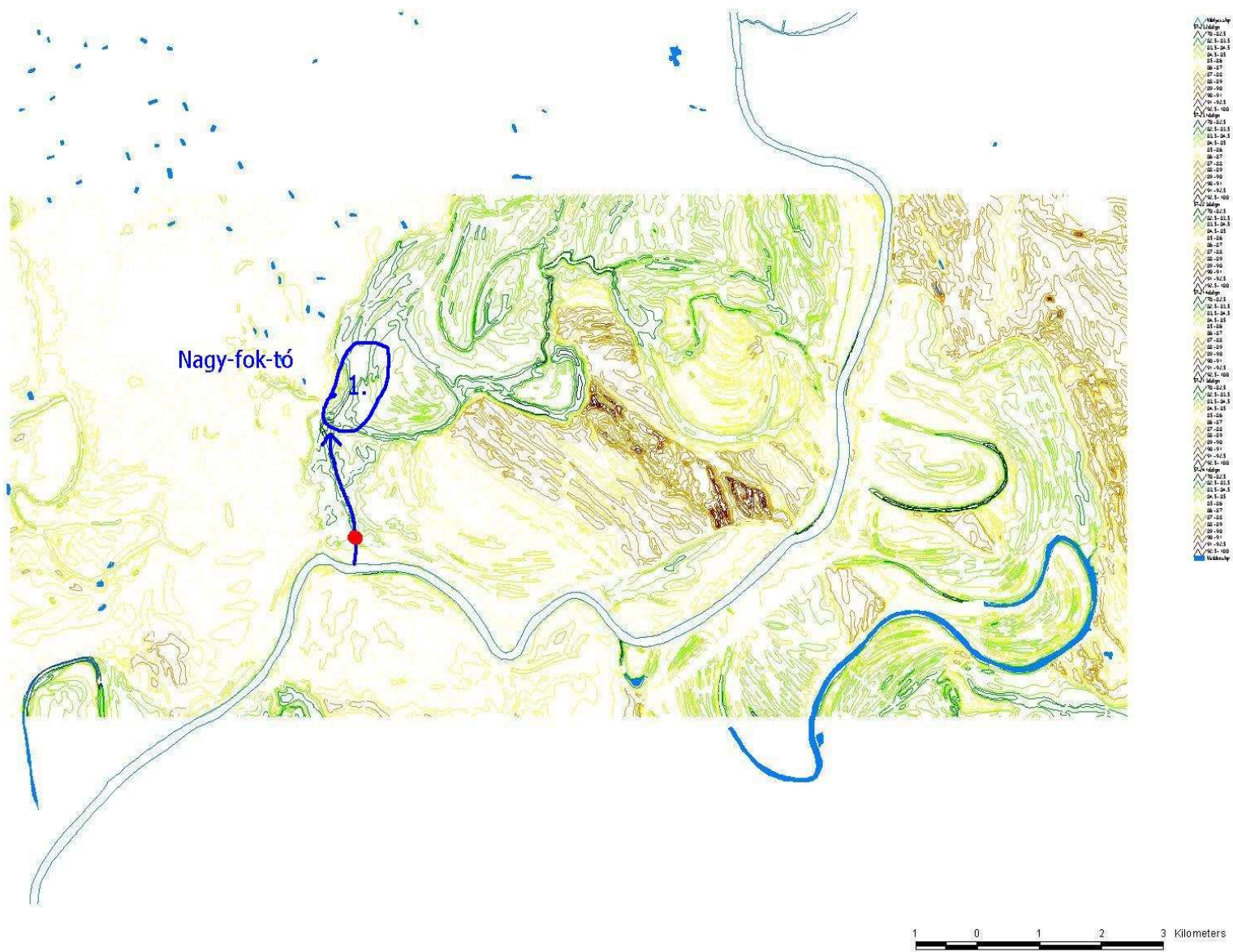
present situation at protected floodplain

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”

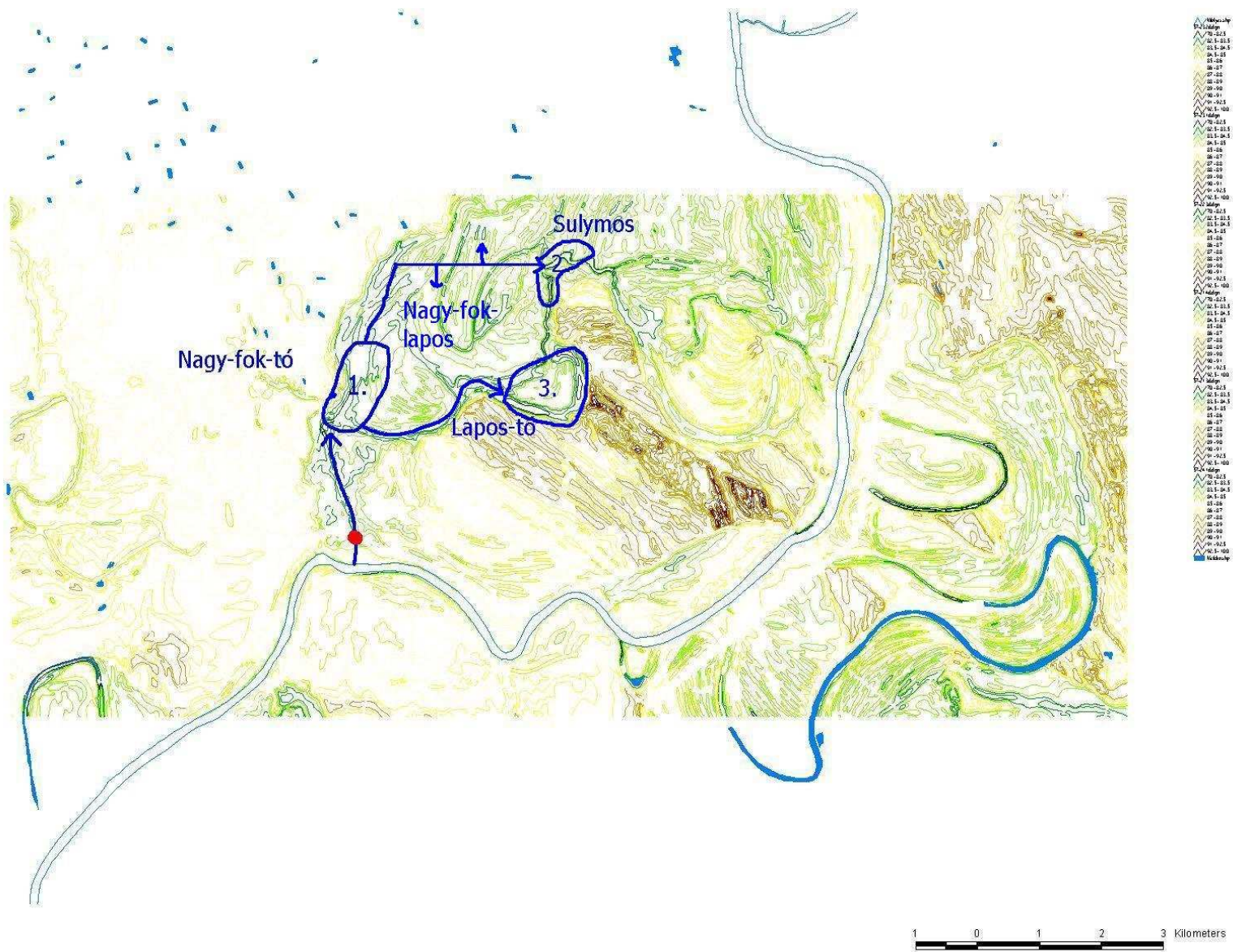


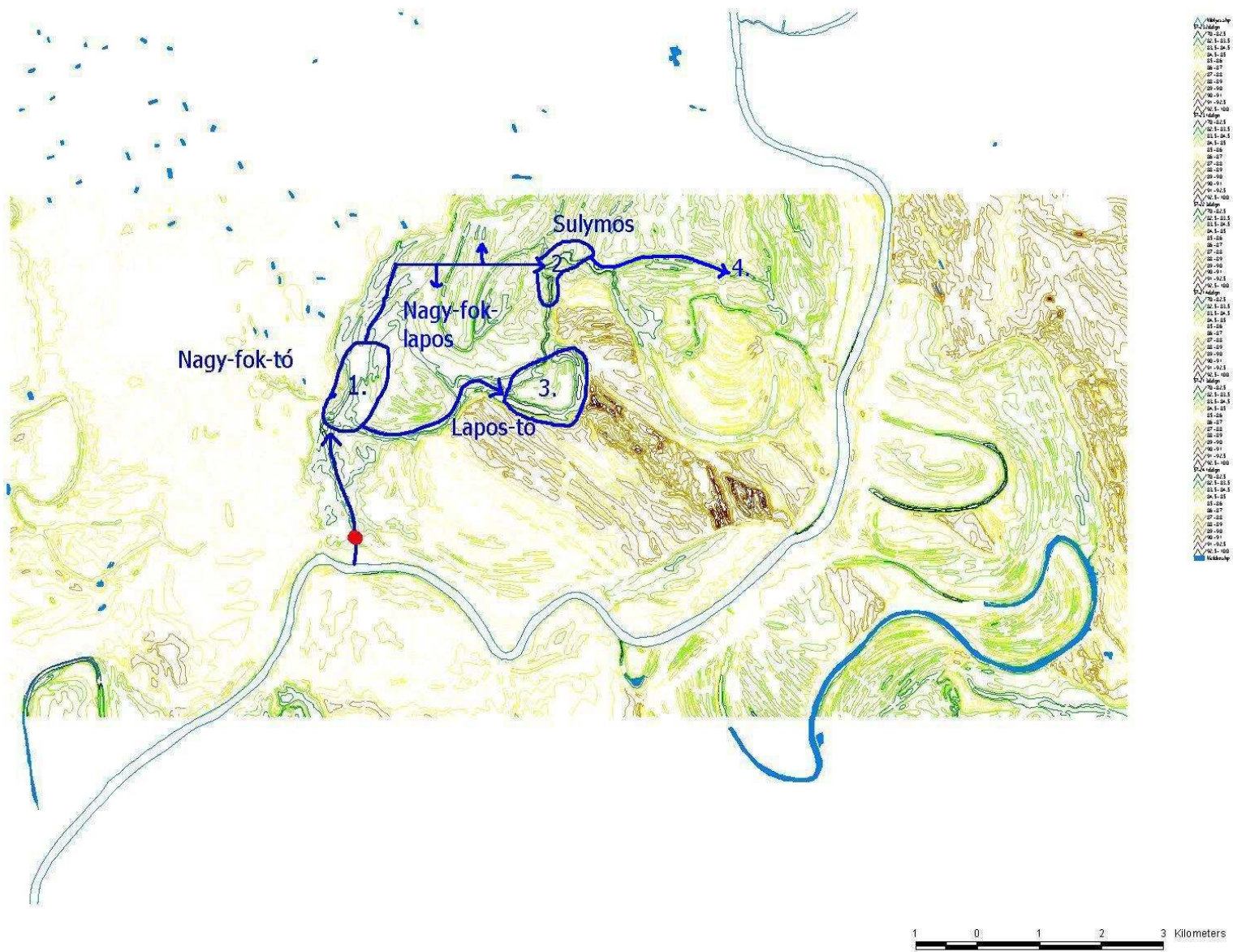


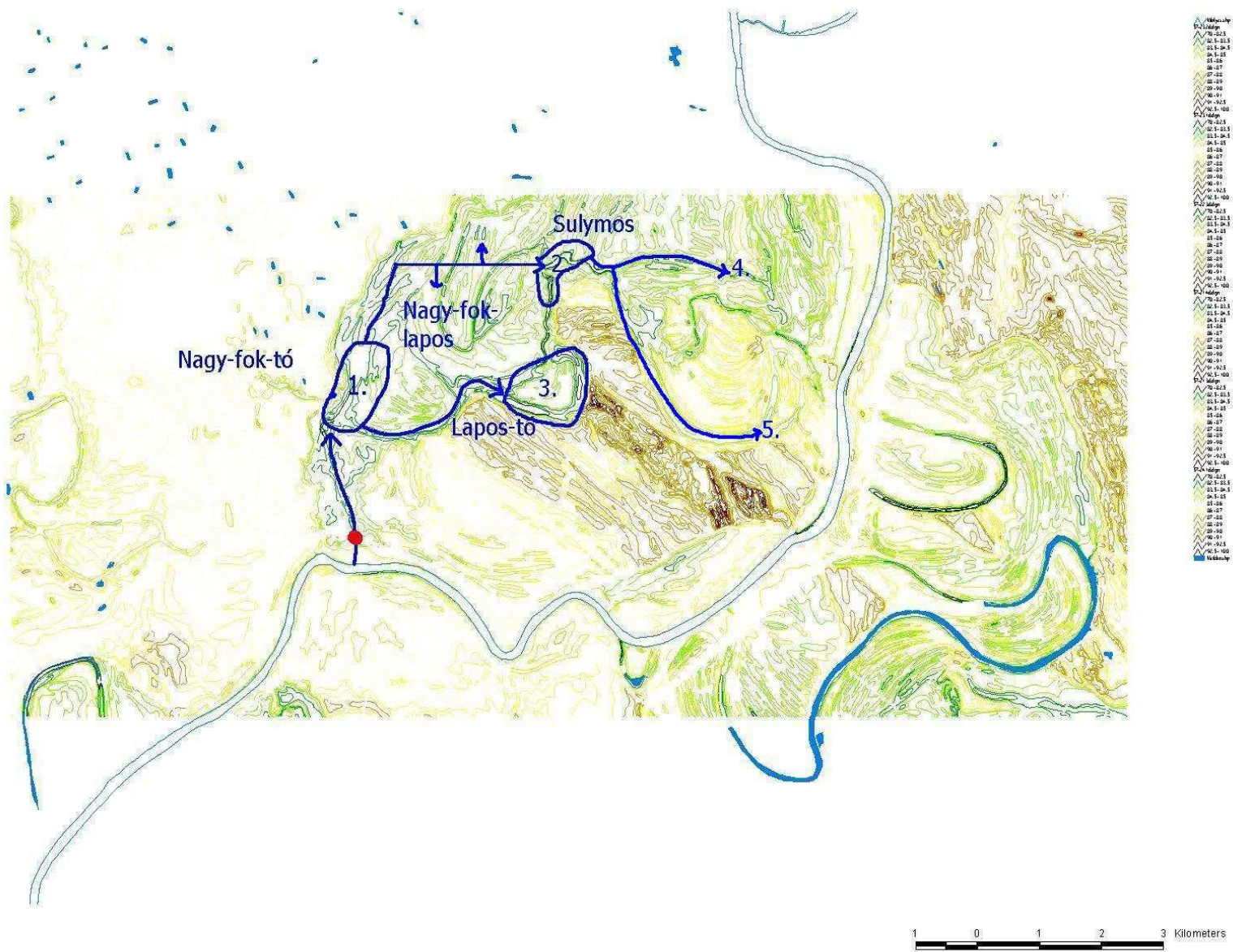






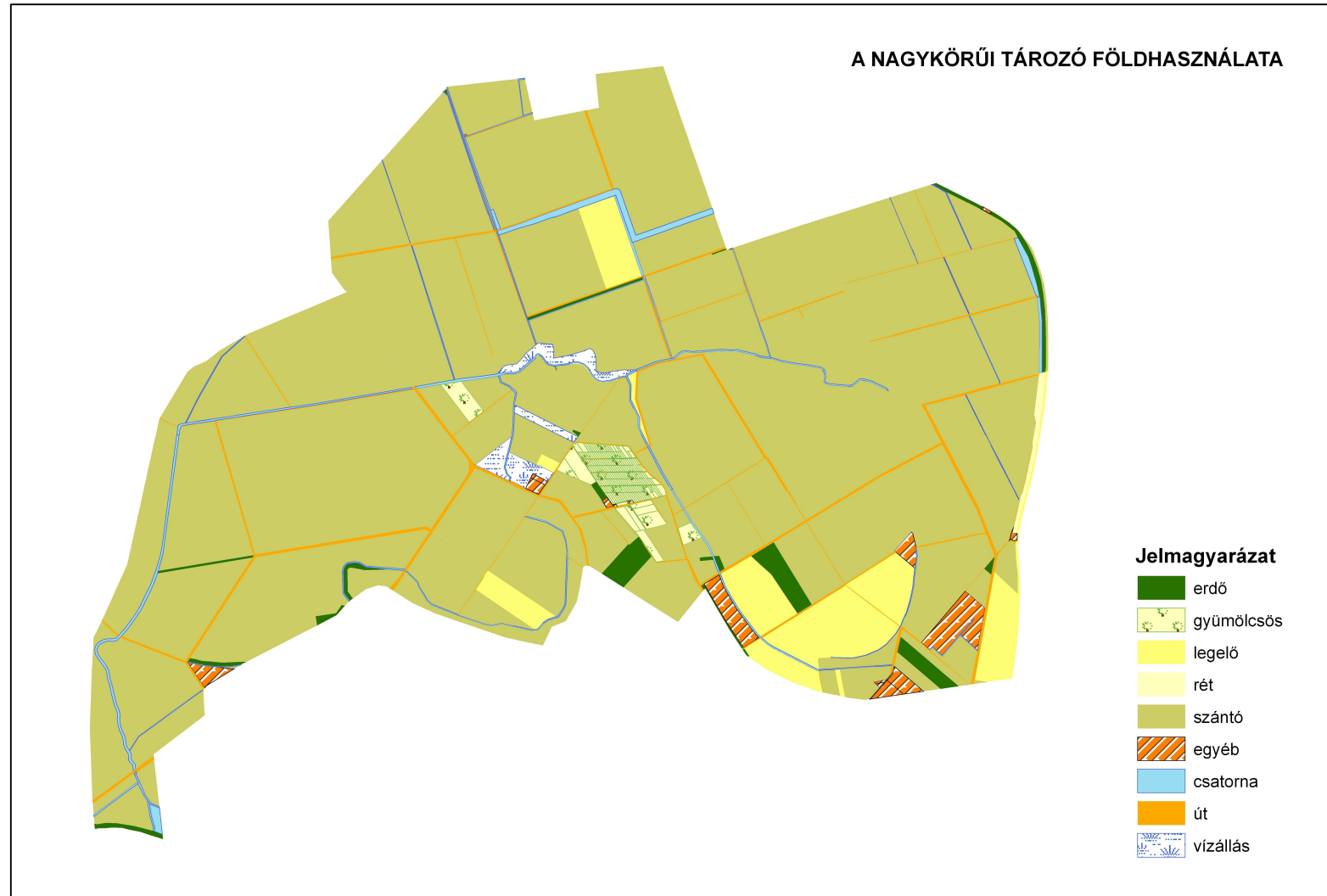




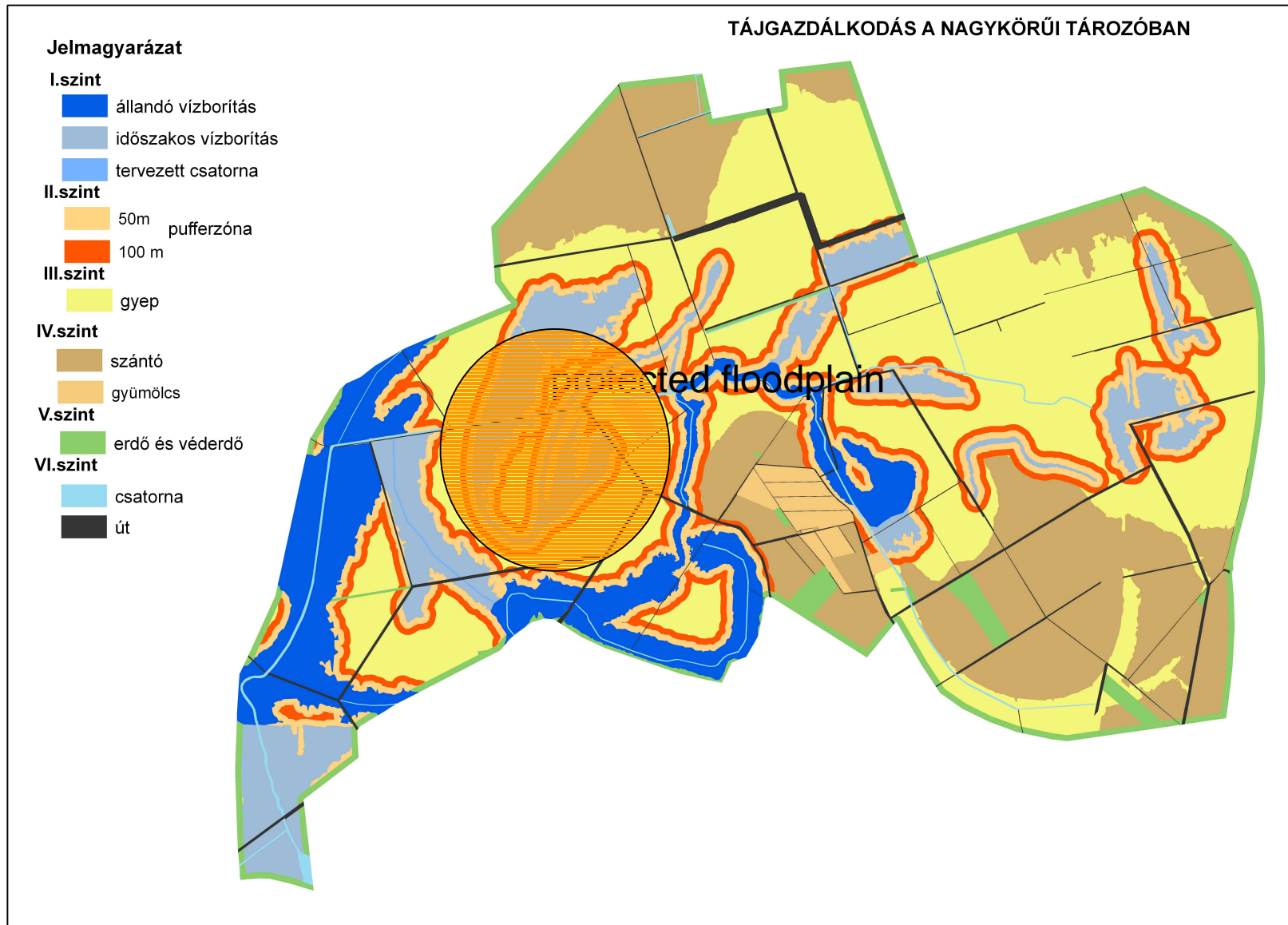




Conception for adaptive LUC



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

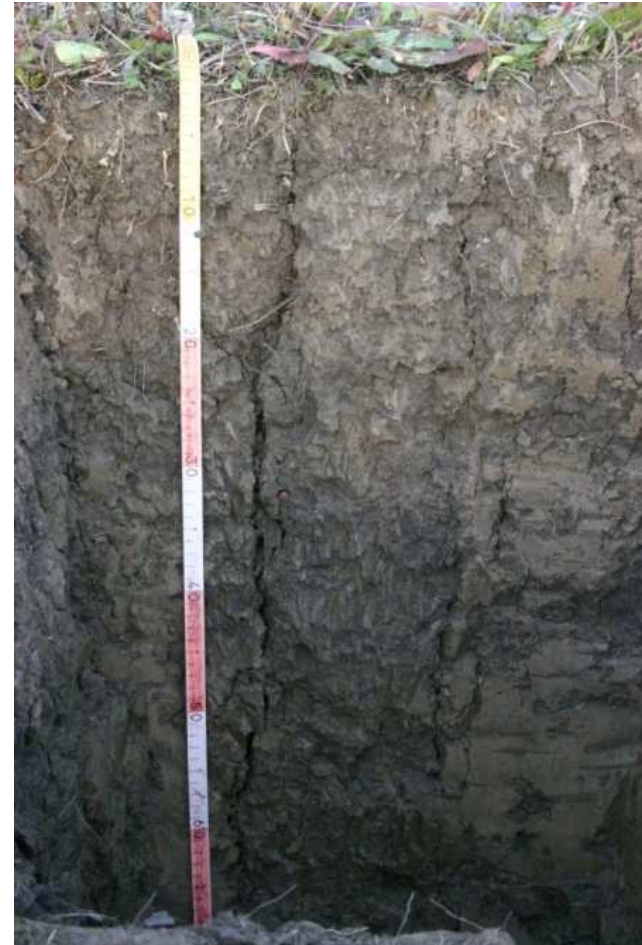
- Informatikai (térinformatikai) feladatok
 - Talajtani adatbázis építés
 - Mobil terepi felvételező rendszer kialakítása
- Terepi talajtani felvételezés
 - Felvételi helyszínek kiválasztása és felkeresése
 - **Részletes talajtani, szennyezettségi, talajökológiai és talajhidrológiai felvételezés**
 - 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 demonstration of LUC – in the papers
 - Full documentation of LUC – in the field through different problems
 - Results on implementation of LUC
-
- It is hard to do, because of external circumstances (pol., econ., bureaucracy, attitudes //structural trap)
 - Internal necessities (project reports – HR)

Thank you for attention