The National Agricultural Research and Innovation Center (NARIC), HUNGARY

The Goal of the Government

Establishment of an integrated, single legal entity from the fragmented and ill-proportioned sectoral governmental RDI capacities, "where the institutes keep their professional autonomy as separate organizational units and their financial management is carried out on a high level of independence."*(1467 (VII. 24.) Korm. hat.)*

Preambulum

- The National Agricultural Research and Innovation Center (NARIC) is an unexampled organisation of agricultural research in Hungary
- The research units of this sector have never belonged to one organisation. So far there was no precedent for such a well organised share of research goals, than in the framwork of NARIC established on the 1st of January, 2014
- Because of its size (appr. 1250 people) by now it can join to the international scientific platform as a considerable sized institution and this way increasing the recognition of Hungarian agricultural research.

Main tasks of NARIC

- Increasing the competitivness of the Hungarian agriculture
- Establish and complete practice-oriented R&D and innovation programs to support the sustainable development

Basic distinction from the previous financing model:

Institute funding gives place to **project funding**

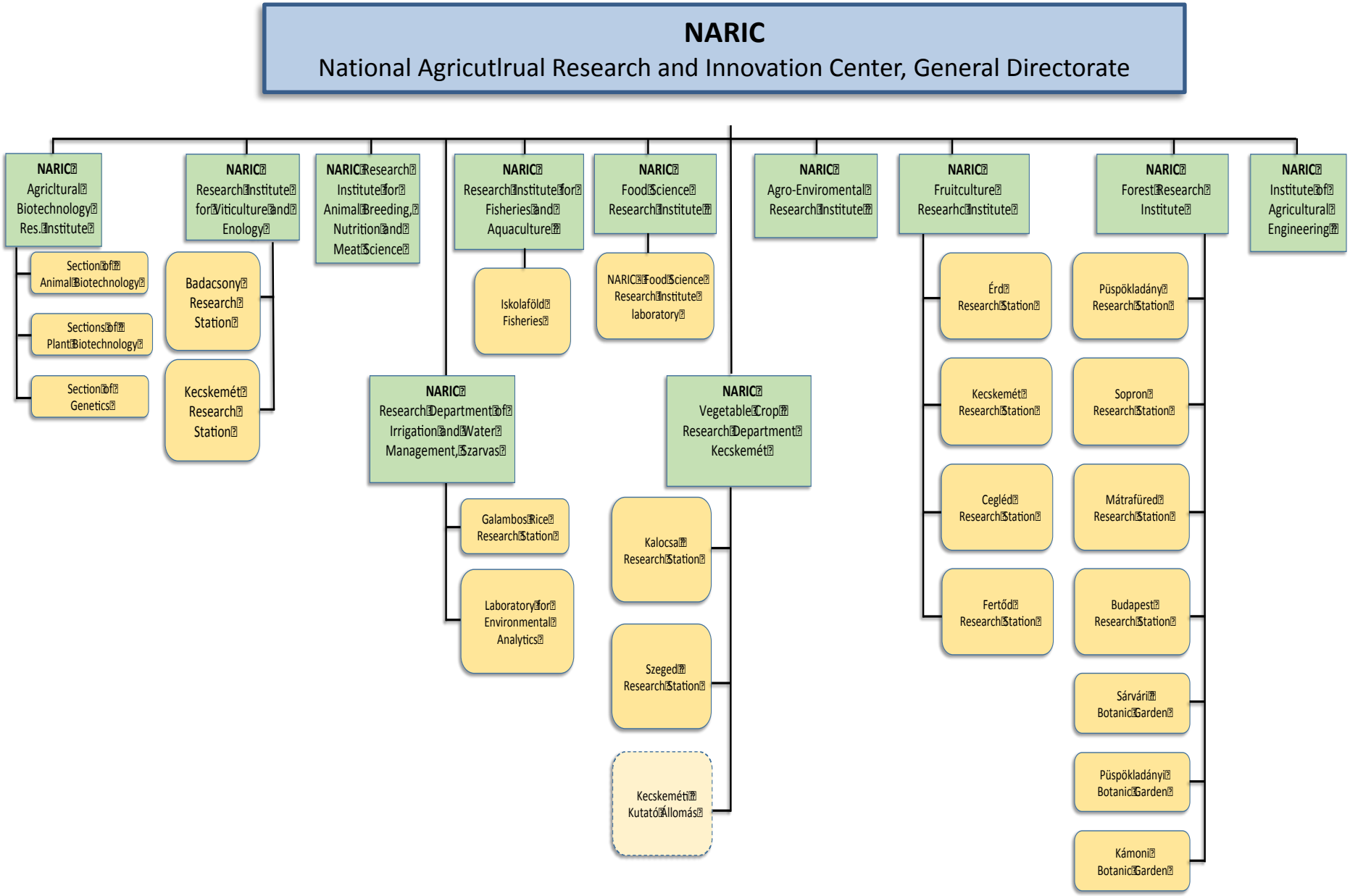
The yearly budget of an institute exclusively depends on the number of projects and their funding – most often the support won by tender.

At the moment there are **192 research projects** in 11 independendt research units at 27 premises.

There are long-term (4-8 years) projects, as well.

Most important specialties of NARIC

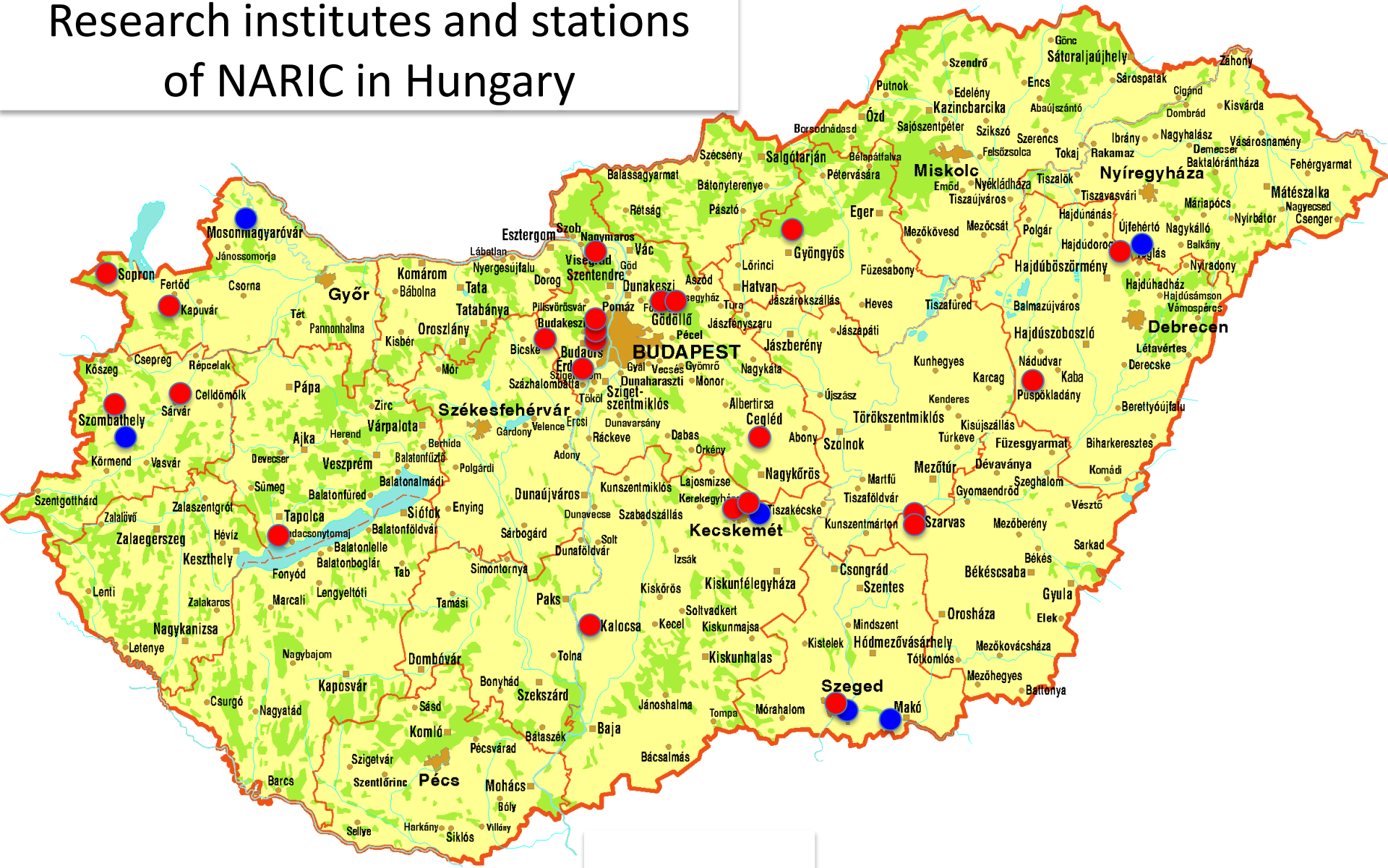
- Fishery and aquaculture,
- Breeding of field crops, ornamental plants, fruits and vegetables,
- Viticulture and vinary research,
- Animal husbandry and breeding,
- Irrigation and water management,
- Agricultural machinery,
- Forestry research,
- Agricultural biotechnology,
- Food sciences,
- Agricultural environment research,
- All the connecting education and consulting activity


NARIC
National Agricutlrual Research and Innovation Center, General Directorate
NARIC Agricltural Biotechnology Res. Institute
Section of Animal Biotechnology
Sections of Plant Biotechnology
Section of Genetics
NARIC Research Institute for Viticulture and Enology
Badacsony Research Station
Kecskemét Research Station
NARIC Research Institute for Animal Breeding, Nutrition and Meat Science
NARIC Research Institute for Fisheries and Aquaculture
Iskolaföld Fisheries
NARIC Research Department of Irrigation and Water Management, Szarvas
Galambos Rice Research Station
Laboratory for Environmental Analytics
NARIC Food Science Research Institute
NARIC Food Science Research Institute laboratory
NARIC Vegetable Crop Research Department Kecskemét
Kalocsa Research Station
Szeged Research Station
Kecskeméti Kutatóállomás
NARIC Agro-Enviromental Research Institute
NARIC Fruitculture Researhc Institute
Érd Research Station
Kecskemét Research Station
Cegléd Research Station
Fertőd Research Station
NARIC Forest Research Institute
Püspökladány Research Station
Sopron Research Station
Mátrafüred Research Station
Budapest Research Station
Sárvári Botanic Garden
Püspökladányi Botanic Garden
Kámoni Botanic Garden
NARIC Institute of Agricultural Engineering

R&D Companies
under the ownership of NARIC

- **Cereal Research Non-profit Ltd.**, Szeged
- **Hungarian Dairy Research Intitute Ltd.**, Mosonmagyaróvár
- **Hungarian Horticultural Propagation Material Non-profit Ltd.**, Nagytétény
- **Vegetable Production Research Institute Ltd.**, Kecskemét

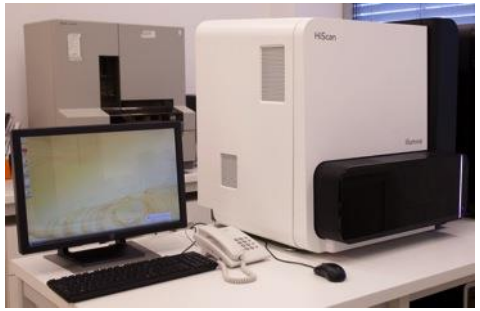
Research institutes and stations of NARIC in Hungary



Agricultural Genomics and Bioinformatics Group

Endre Barta
Group Leader

- **Mangalica genome project**
  - **Collaboration: ABI, FRI and ARI + four Companies**

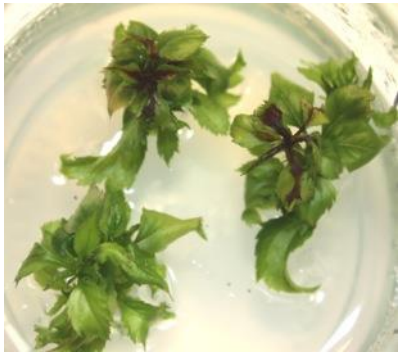


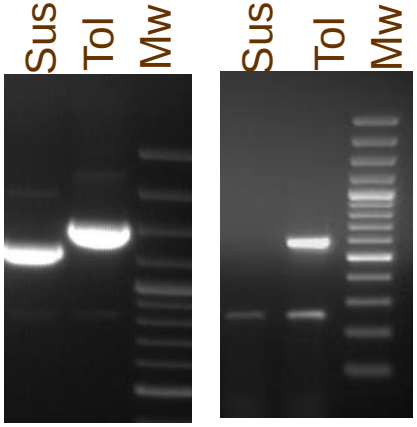
Fruit Genetics Group

Géza Dallmann
Group Leader

Research Topic:

Identification the endogenous defense mechanism in apple against *Erwinia amylovora*. Developing molecular markers to distinguish fire blight tolerant and susceptible apple varieties.





climate – energetics – silviculture

Climate change
-
unfavourable effects ↓
adaptation ↑

Bioenergetics
-
increasing demand ↓
new resource ↑

Close to nature
-
diversity, function
stability ↓↑

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NARIC AERI
Department of Ecotoxicology

Research activities:

Agricultural Ecotoxicology:

- secondary effects of insect resistant transgenic plants (containing Cry toxins)
- aquatic toxicology (alga, insect, crustacea, snail, fish, amphibian)

- teratogenic effects of environmental contaminants
- hormone modulant effects of environmental contaminants

National Agricultural Research and Innovation Centre
Research Department of Irrigation and Water Management

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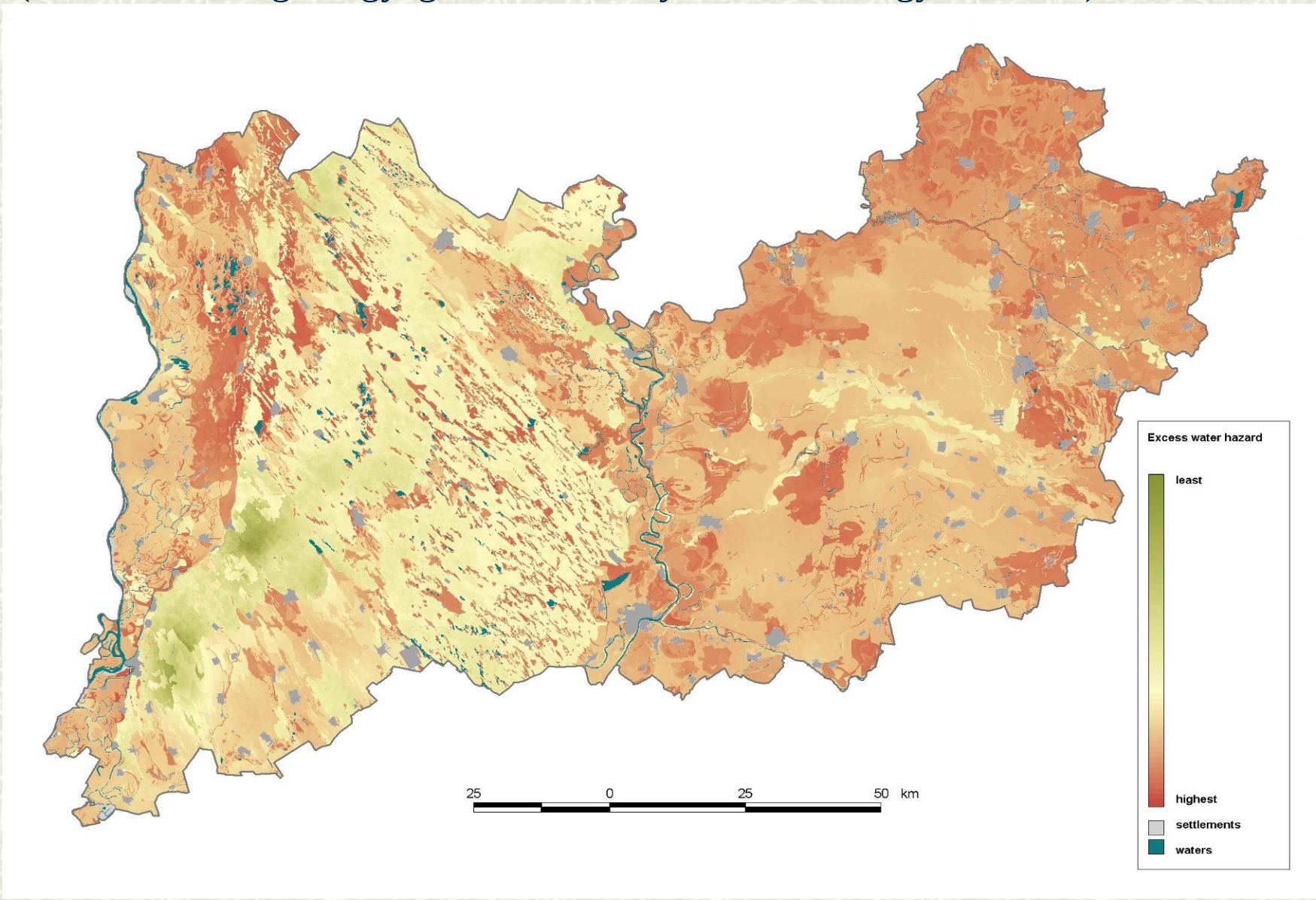
Excess Water Hazard Map based on more detailed influential factor maps (i.e. soil, relief, geology, groundwater, hydrometeorology, land use)



THANK YOU FOR YOUR ATTENTION !