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 framework 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 competitiveness 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 independent 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
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
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 ↓↑
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!