



ÖMKi

Ökológiai Mezőgazdasági Kutatóintézet

Research Institute of Organic Agriculture | Forschungsinstitut für biologischen Landbau

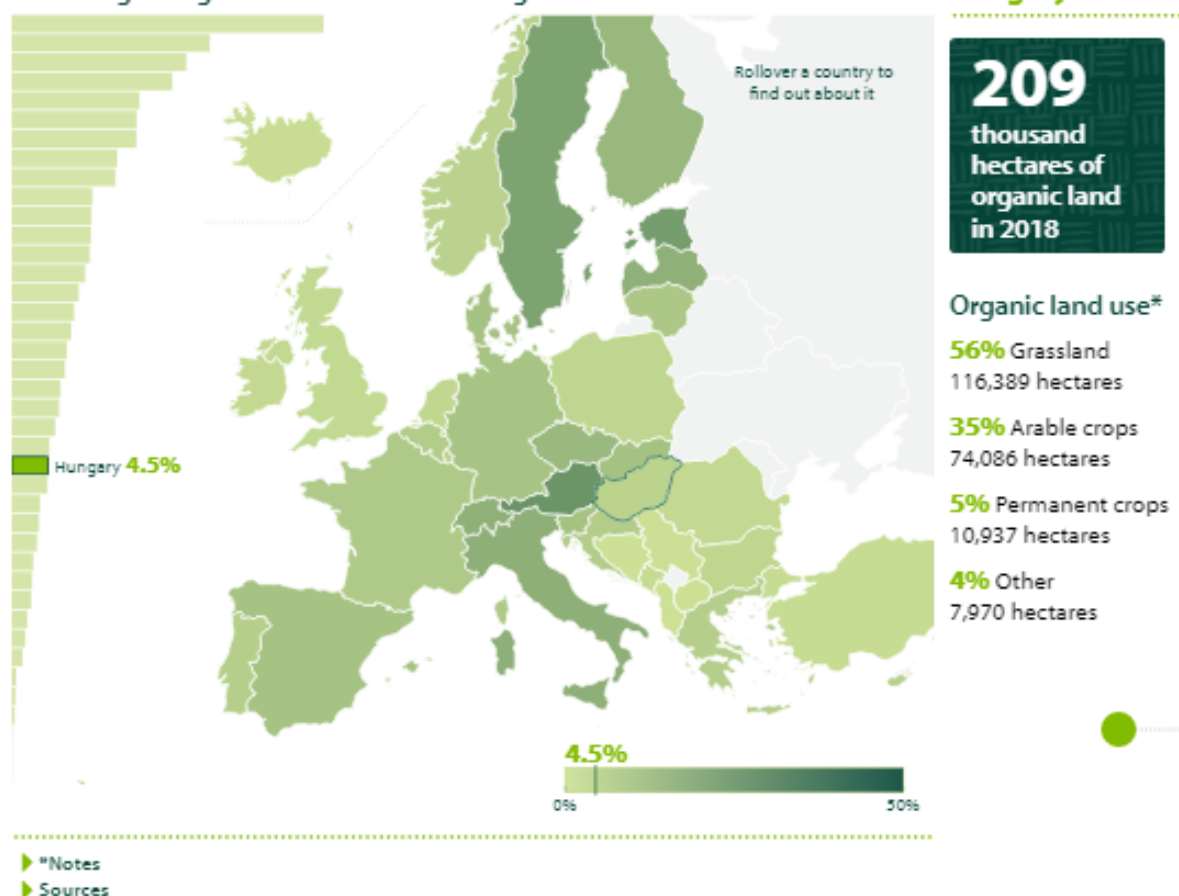
Participatory on-farm research network on organic farming

Dr. Dóra Drexler

June 5, 2020

Organic area in Europe, 2018

Percentage of agricultural land which is organic



ÖMKi's background

Aim: Fostering scientific research of organic agriculture in Hungary on an international level.

- **2011:** Foundation of ÖMKi, the Hungarian Research Institute of Organic Agriculture Public Benefit Non-profit Ltd.
- **2012:** Launch of on-farm participatory research network

What kind of research do we need?

- **Practice oriented results that can be implemented in everyday farming**
- **Research that connects Hungary with the international research community**
- **Research that connects farmers, processors, advisors and the actors of the value chain.**

On-farm experimentation network

- Yearly summaries
- Technology publications
- Practice oriented publications

Defining practice oriented relevant questions **together with farmers**

- Farmers from around the country, other R&D institutes, breeders, traders etc.

Publication, open access (ÖMKi)

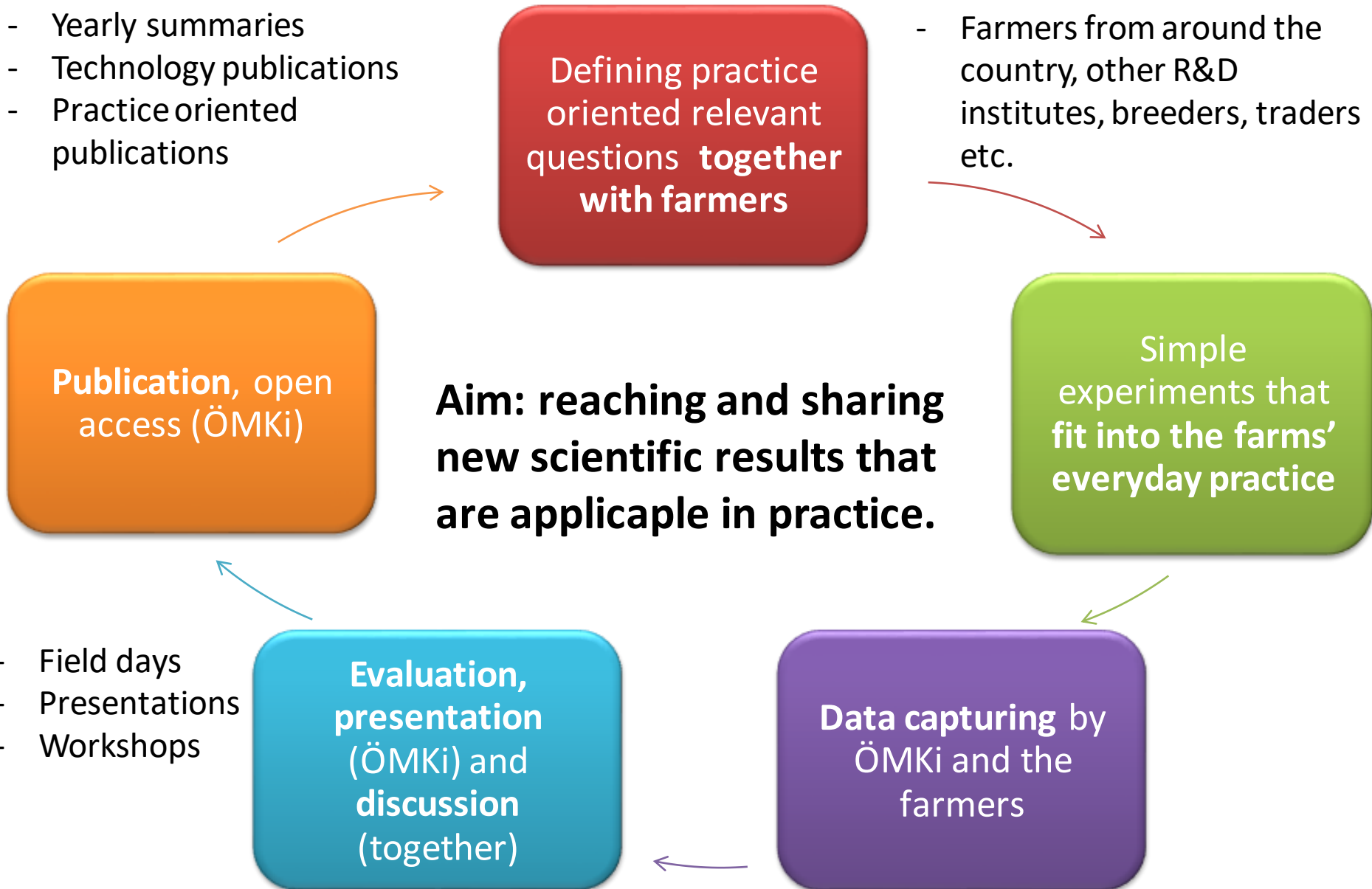
Aim: reaching and sharing new scientific results that are applicable in practice.

Simple experiments that **fit into the farms' everyday practice**

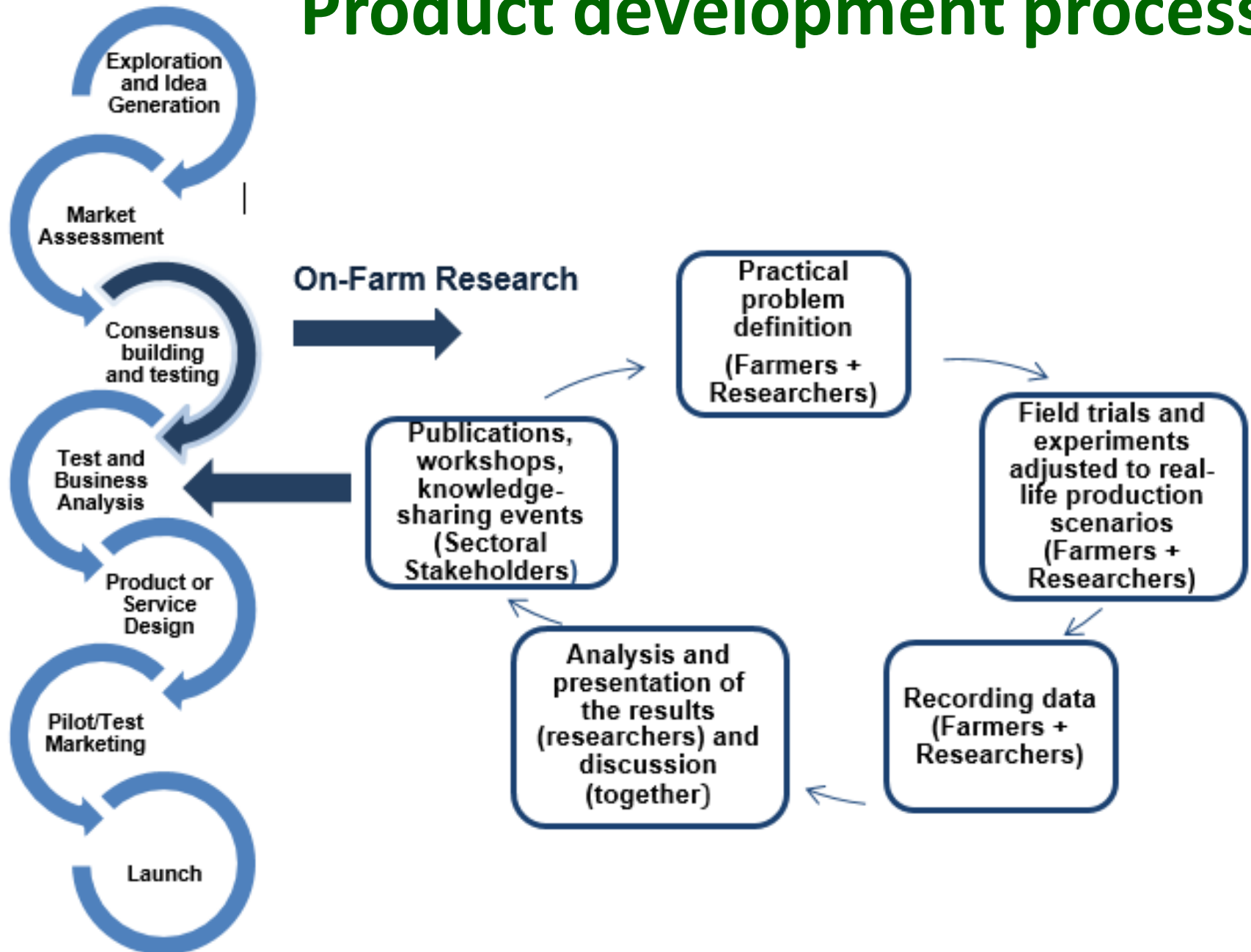
- Field days
- Presentations
- Workshops

Evaluation, presentation (ÖMKi) and discussion (together)

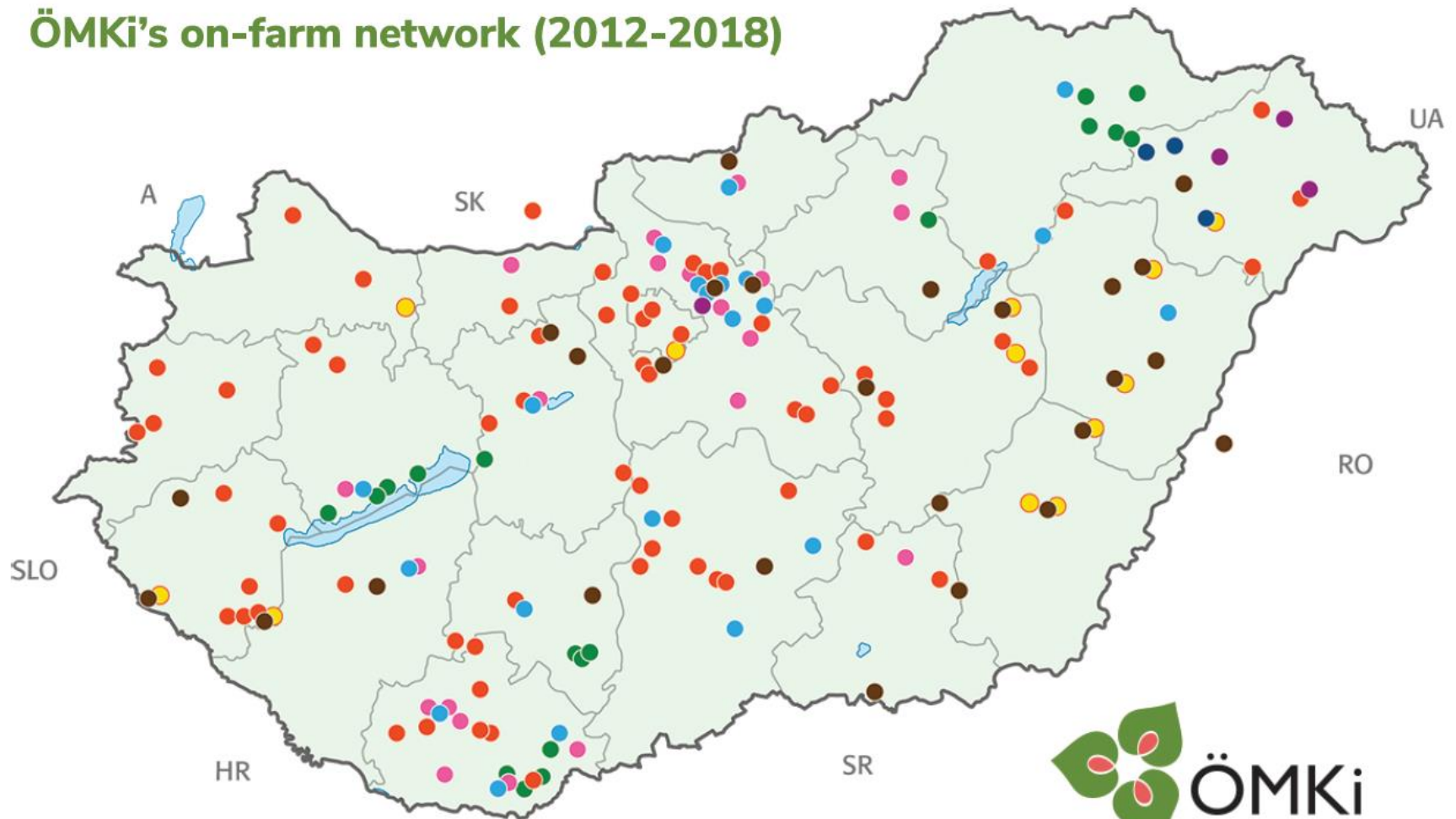
Data capturing by ÖMKi and the farmers



Product development process



ÖMKi's on-farm network (2012-2018)



27

Wheat variety tests



13

Soy varieties tests



22

Potato varieties tests



26

Tomato landrace tests



21

**Inter-row cover
crop seed tests**



69

**Testing organic
beekeeping methods**



4

**Testing cherry
fruit fly control
methods**



3

**Testing plant
conditioners
in apple orchards**



Some achievements since 2012

- Yearly (!) more than 100 farms took part voluntarily from around the country.
- Species rich seed mixture developed for interrows.
- Re-introduction of landrace tomatoes as seedlings
- Development of organic bee health management against varroa mite
- Re-introduction of ancient cereals in arable cropping.
- Variety tests and agrotechnical development in winter wheat, soya, potato and wine production.

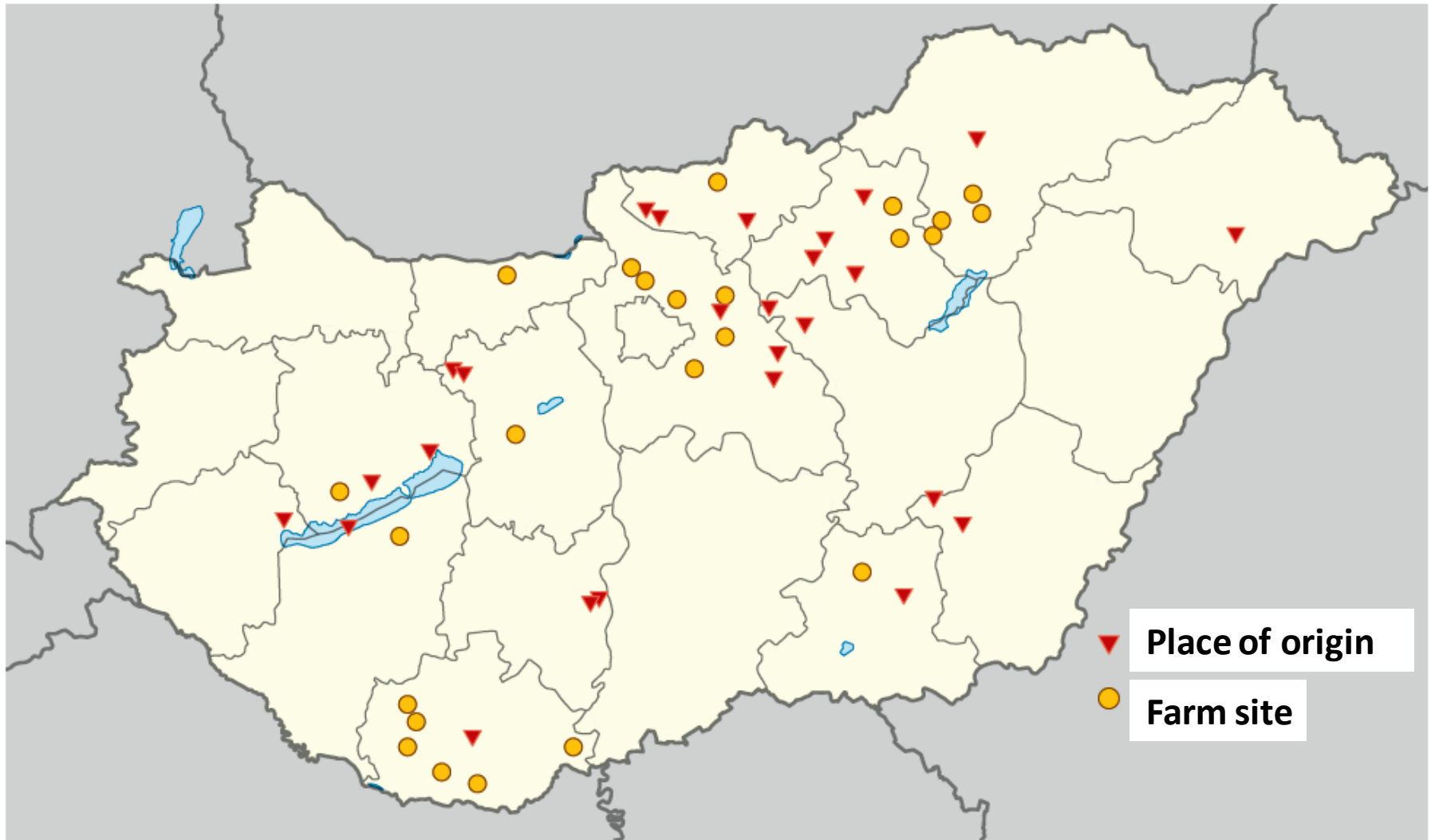
Some achievements since 2012

- Good information network among the stakeholders of each sector
- New results and information become integrated into practice, production efficiency increases
- Fostering cooperation: potential for product development
- Opportunity to take part in EU research cooperations (H2020), multi-actor approach



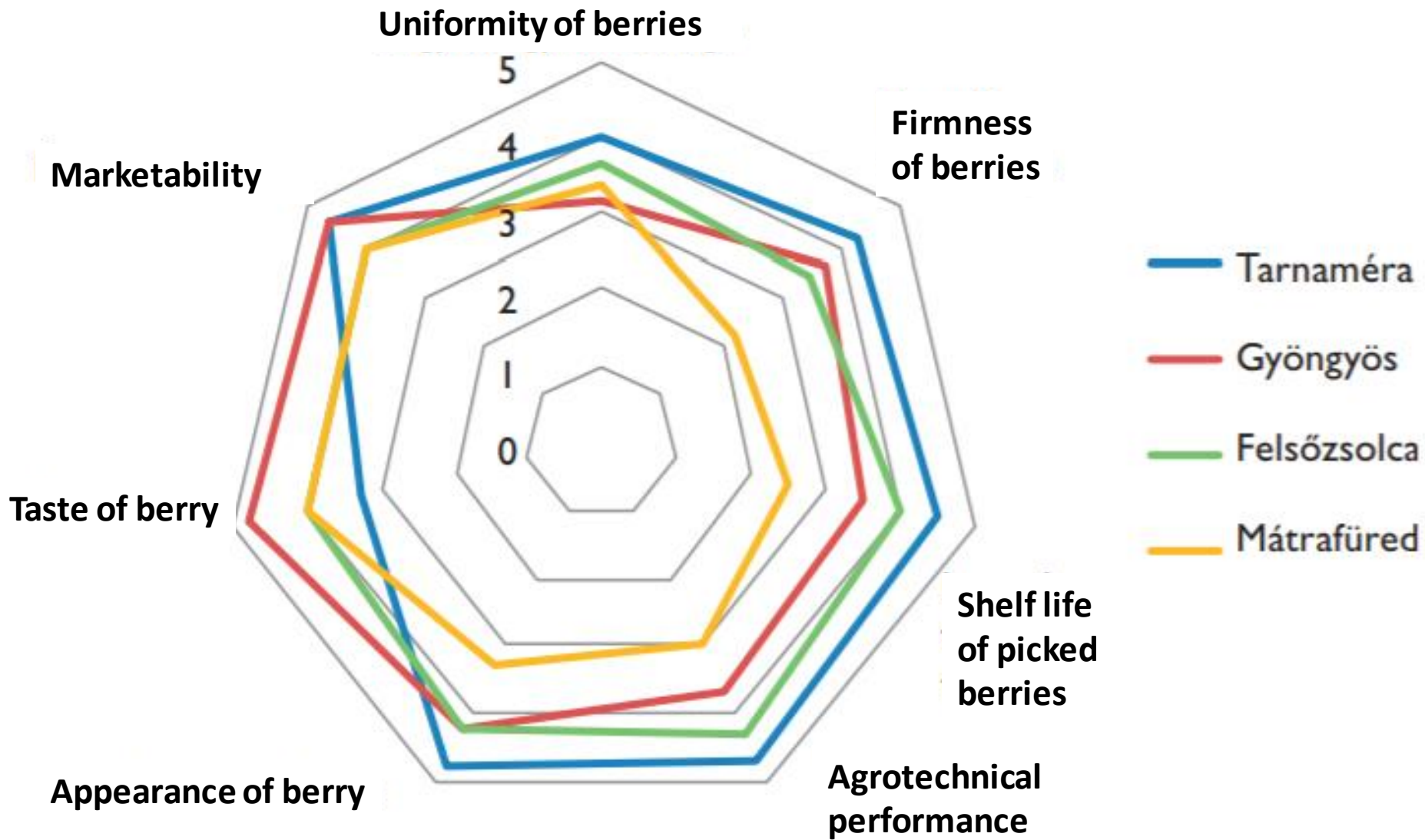
Landrace tomatoes – a bite of diversity

2012-2016 on-farm testing













The selection of 6 landraces – „Farm to fork” campaign (2018)



	Cegléd	Fadd	Gyöngyös	Máriapócs	Mátrafüred	Tolna
Bogyó színe:	Sárga	Rózsaszínes	Piros	Piros	Piros	Narancsos piros
Bogyó alakja:	Kerek	Tojásdad	Paprika alakú	Kerek	Ökörszív	Lapított
Bogyó mérete (átl.):	80-100g	50-70g	100-120g	50-20g	110-130g	150-180g
Érés idő:	Július végétől	Július végétől	Július közepétől	Július elejétől	Július közepétől	Augusztus végétől





ÖMKI
MELYIK TÁJFAJAT VÁLT A
LEGJOBBAN? (TRIGULAZZI)

FACÉ TÁJFAJA
TOLNA TÁJFAJA
MÁTRAFÜRED TÁJFAJA
GRÖNGÖS TÁJFAJA
CEGLÉD TÁJFAJA
MÁTRAPÓCS TÁJFAJA

MÁTRAFÜRED
TÁJFAJA

GRÖNGÖS
TÁJFAJA

MÁTRAPÓCS
TÁJFAJA

TOLNA
TÁJFAJA

CEGLÉD
TÁJFAJA

RADICSOM PALÁNTA
a haragpható





Őn is felfedezheti a régi idők ízét, a különleges zamatokat, agrárörökségünk kincsesládájából. Válassza az Ökológiai Mezőgazdasági Kutatóintézet (ÖMKi) tájfajta öko paradicsompalántáit, amelyek fenntartható gazdaságból származó, magyar palánták!



Gyöngyös



Máriapócs



Tolna megye



Cegléd



Magyar tájfajta öko paradicsompalánták*

Gyöngyös, Máriapócs, Tolna megye, Cegléd

SZUPER ÁR!

/db

Results of the landrace tomato experiments

- **Characterization** of long-forgotten landrace tomatoes under current organic cultivation practices, together with farmers
- **Citizen science** approach by „adopting” organic tomato seedlings
- **Awareness raising** about genetic diversity, agricultural heritage, organic production, gastronomy
- **New value chain** based on landrace tomatoes



Conserving
plant diversity
for future generations

www.farmerspride.eu
#EUfarmerspride



Substitution of copper in viticulture

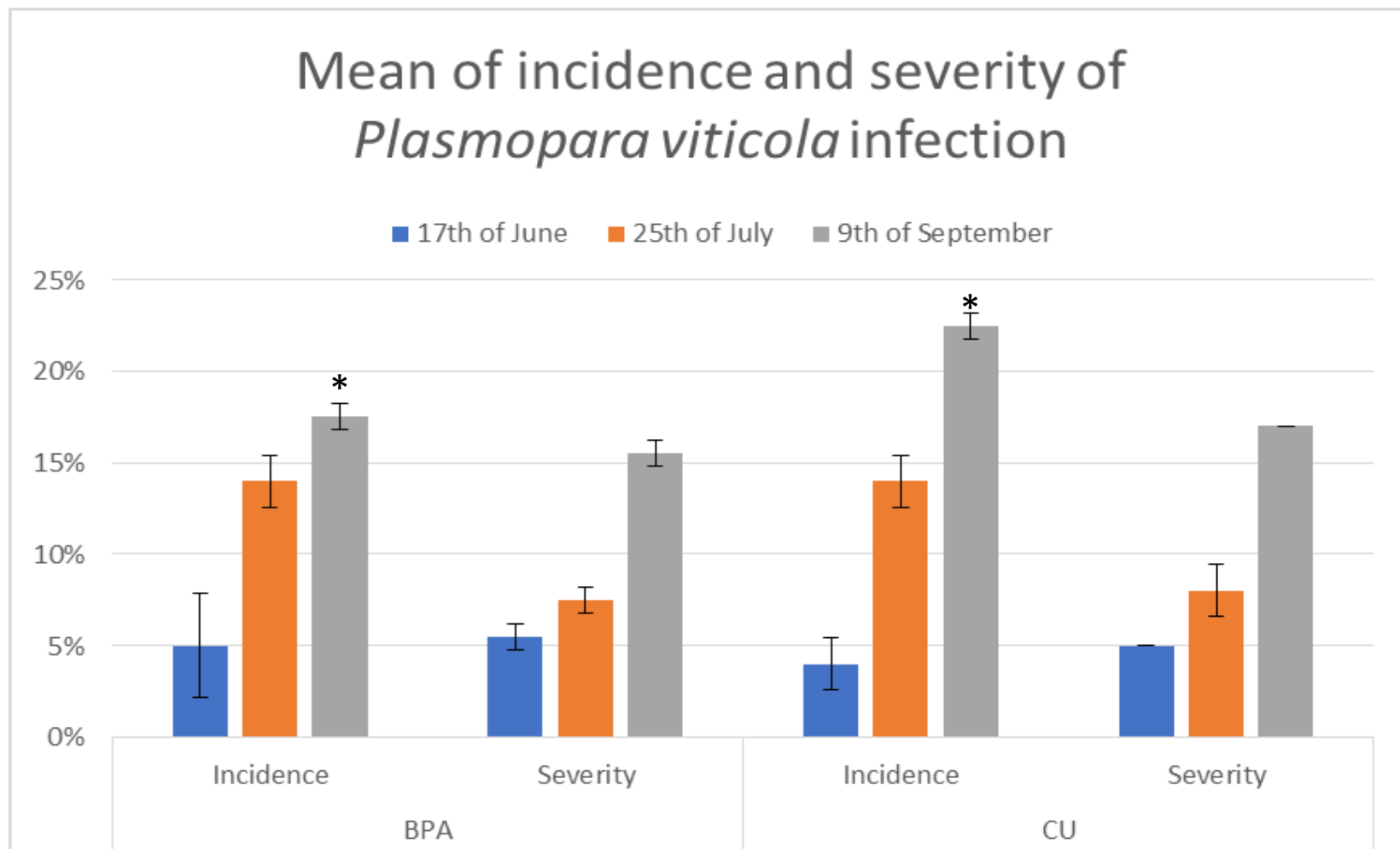


- Downy mildew on the leaf of the grapevine (photo: Bence Trugly 2019)



**Martinus Winery, Tagyon-hill – Lake
Balaton, trials from 2019**

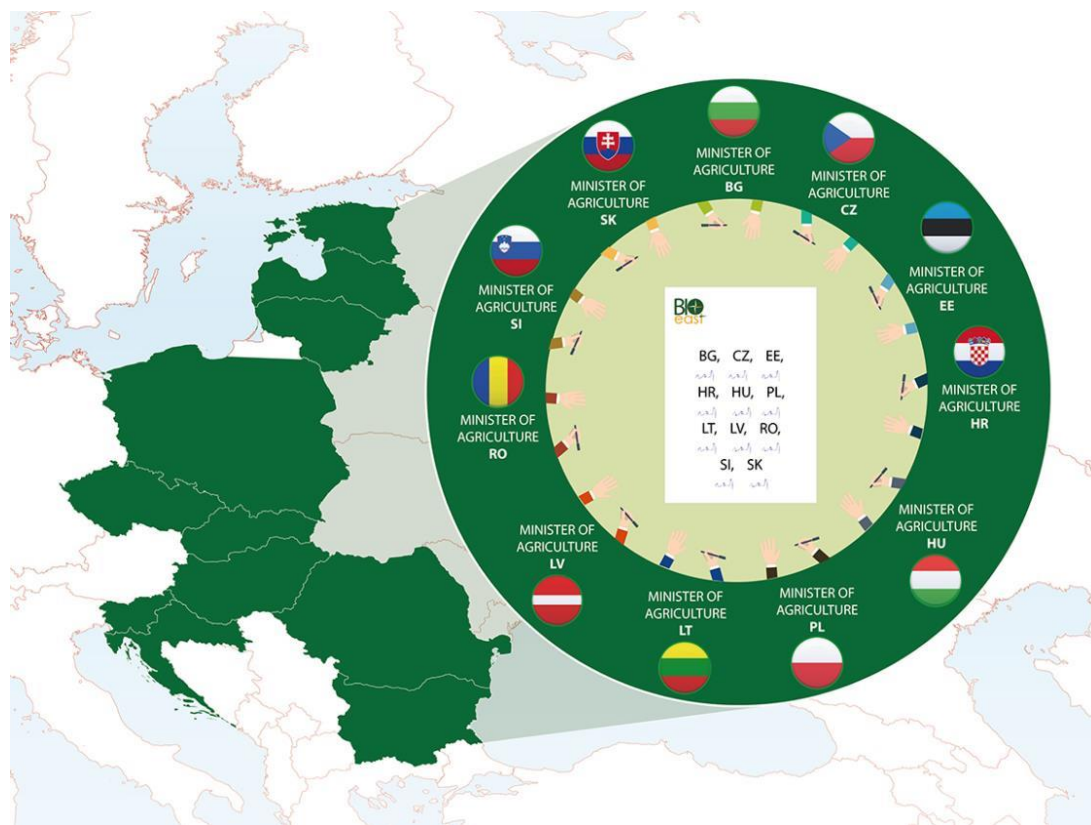
First BPA trial results 2019, Tagyon-hill





Sándor Baráth, Great-Somló, trials from 2020

Agroecology – BIOEAST Initiative



Thematic Working Group on Agroecology and Sustainable Yields

Coordinated by ÖMKI and the Hungarian Ministry of Agriculture

AgroEcoLLNet-Prep:
Strengthening the European agro-ecological research and innovation ecosystem



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Thank you for your attention!