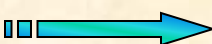


**Agricultural Research Institute
of the Hungarian Academy of Sciences,
Martonvásár, Hungary**



Innovation in Hungarian agriculture

(1945-2011)

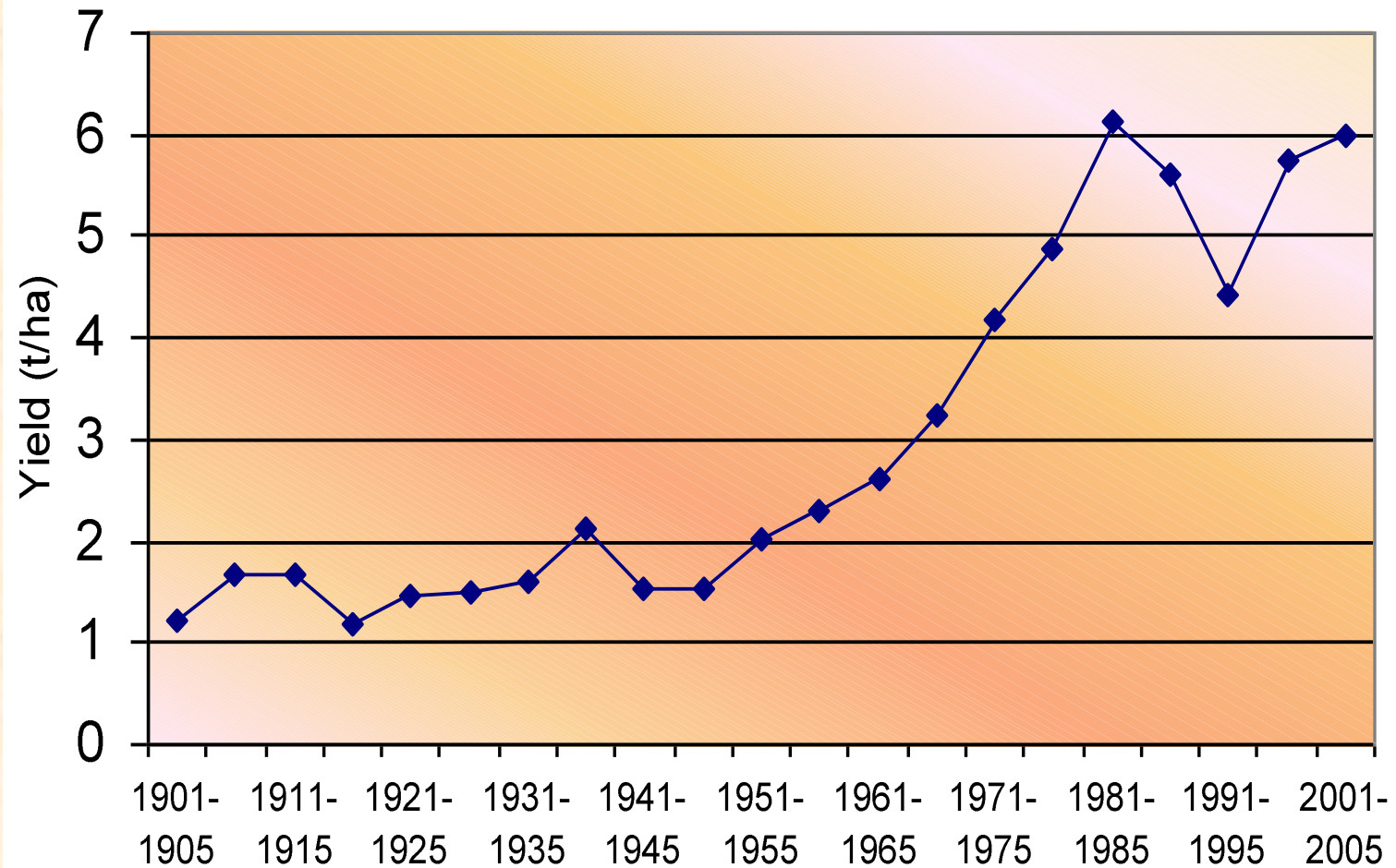
- ✱ **Before and after 1956  agricultural development from 1968**
- ✱ **From 1968 to 1990: East – European „green revolution”**
- ✱ **After 1990: privatization and market-oriented agriculture**
- ✱ **2004 EU membership**

Role of Martonvásár Agricultural Research Institute in the technological development of Hungarian agriculture

- **1953: Endre Pap: development of the first European maize hybrid**
- **1956: Establishment of the first European maize hybrid seed plant in Martonvásár**
- **1972: new phytotron**
- **1982: biotech research in Martonvásár**
- **1992: USAID project to introduce genomic research**

Maize grain yields in Hungary

1901-2005



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Main research projects in phytotron

- ➡ Global climate change research
- ➡ Genetic and genomic research
- ➡ Improvement of stress resistance
- ➡ Gene bank research

2004: EU membership

Main research areas and participation in EU projects

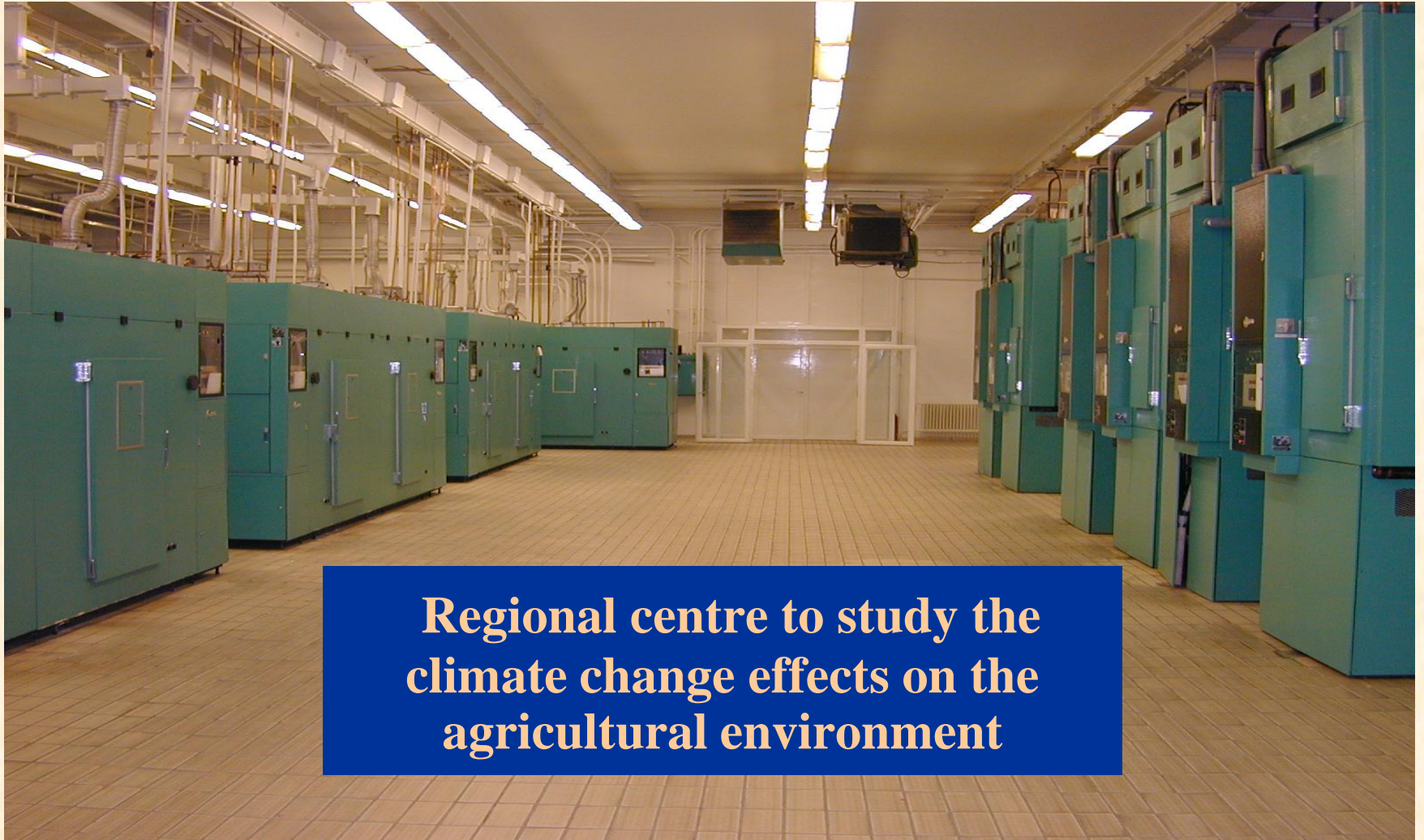
FP 6

- **Healthgrain** - bioactive compounds, nutritional quality
- **Bioexploit** – molecular breeding
- **Micromaize** - reduced use of fertilizers
- **Biosafenet** – gmo biosafety research

FP 7

- **Agrisafe** – climate change and agriculture
- **Drops** – drought tolerance
- **Solibam** – low input and organic plant research
- **Adaptawheat** – crop adaptation and flowering biology

AGRISAFE EU FP7 REGPOT



**Regional centre to study the
climate change effects on the
agricultural environment**

The Greater Pannonia Region:



**Pannonian Plant Biotechnology
Association**
Martonvásár, Hungary





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EUCARPIA
Secretariat in Martonvasar
2008 - 2012

19th EUCARPIA
Congress
Budapest
2012 May



New challenges

- More coordinated research strategy and infrastructure: integration of crop-, soil-, and veterinary science institutes of the HAS
- More interdisciplinarity to apply new research tools and ideas
- More product-oriented strategy: from basic to applied research
- More efficient technology transfer systems to encourage the innovation of agricultural SMEs
- More and better communication with the society



Thank you for your attention