

THE AGRICULTURAL RESEARCH IN ROMANIA – RECENT DEVELOPMENTS –

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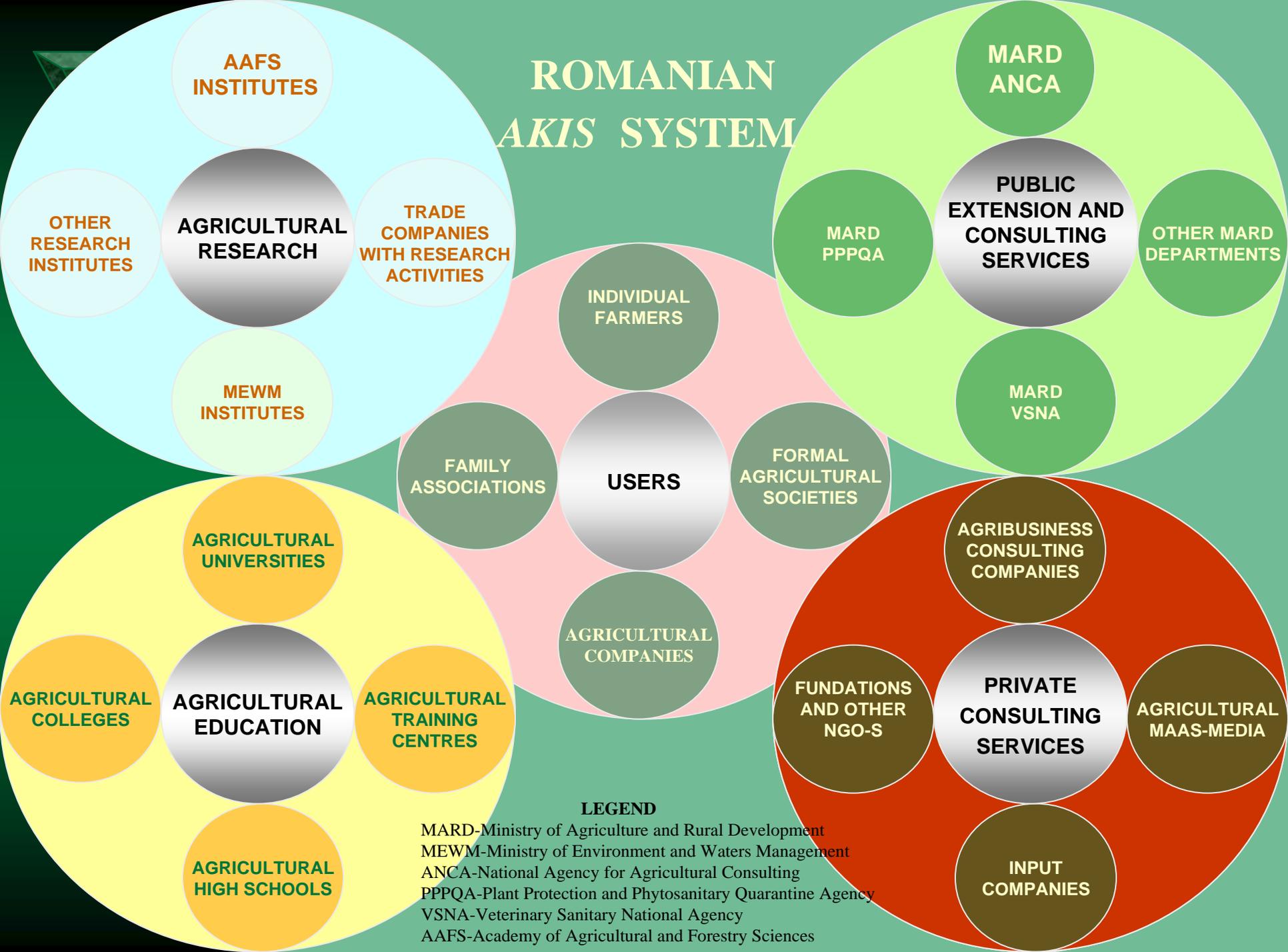
****Romanian Academy of Agricultural and Forestry Sciences**



LONG TRADITION – NEW DEVELOPMENTS

- **2007: a special year**
 - **70 years since the establishment of ICAR - the first Romanian Institute of Agricultural Research** (subsequently changed into the Romanian Academy of Agricultural and Forestry Sciences)
 - **Romania became a EU member**
 - **hosted the EURAGRI XXI Members Conference**

ROMANIAN AKIS SYSTEM



LEGEND

MARD-Ministry of Agriculture and Rural Development
 MEWM-Ministry of Environment and Waters Management
 ANCA-National Agency for Agricultural Consulting
 PPPQA-Plant Protection and Phytosanitary Quarantine Agency
 VSNA-Veterinary Sanitary National Agency
 AAFS-Academy of Agricultural and Forestry Sciences



**ACADEMY OF AGRICULTURAL
AND FORESTRY SCIENCES**

**RESEARCH
COORDINATOR**

**18 Institutes &
Centers
52 Stations**

**PROVIDING
EXTENSION**

Council of Research's Beneficiaries:

- farmers
- leaders of farmers organizations
- processors of agricultural products



RESEARCH

**CROP
SCIENCE**

**ANIMAL
HUSBANDRY**

**SOIL
MANAGEMENT**

**AGRICULTURAL
ECONOMY**

**PROCESSING
OF AGRIC.
PRODUCTS**

**FIELD CROPS
HORTICULTURE**

- Cattle & sheep
- Swine
- Poultry
- Fishery
- Animal nutrition

Rural Development

Marketing

- New Varieties
- Crop technology
- Plant protection
- Mechanization



FACTORS NEGATIVELY INFLUENCING THE AGRICULTURAL RESEARCH

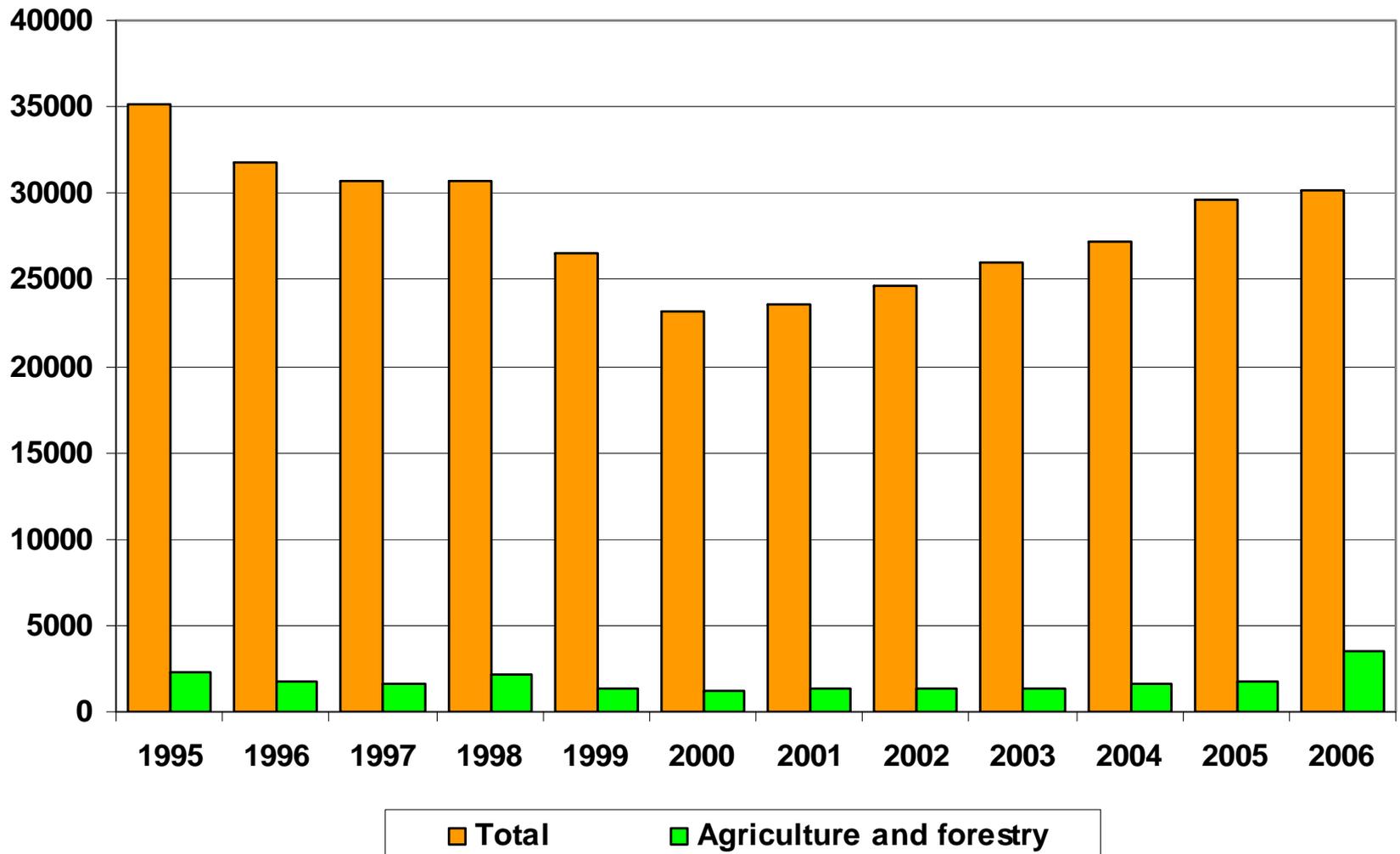
- continuous decrease in research funding from the state budget (1991-1999)
- rigidity in terms of:
 - investments in R&D equipment
 - salaries
 - promotion opportunities
- land restitution (2000)



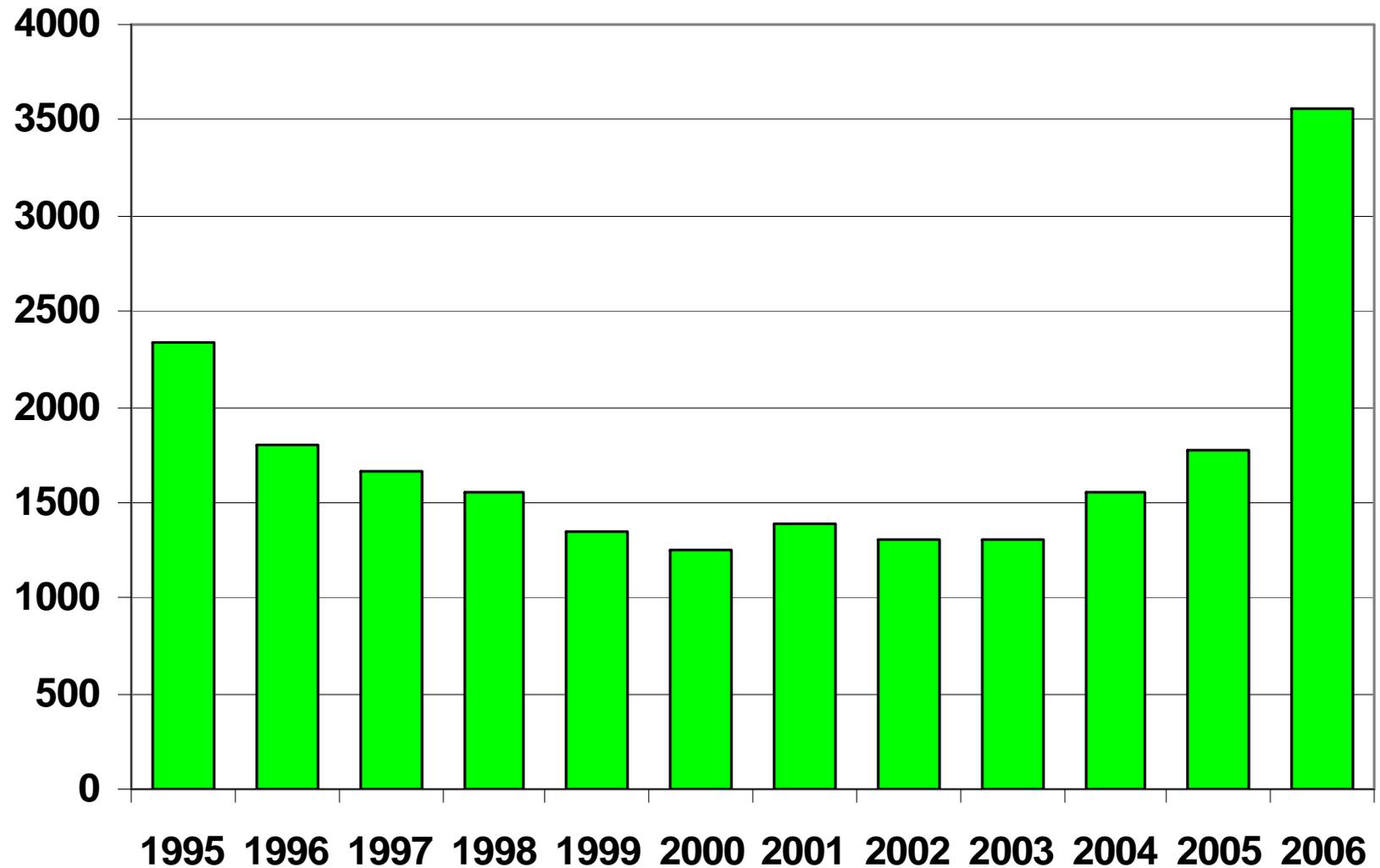
EFFECTS

- Reduction in the number of research stations and centers
- Reduction in the number of researchers:
 - retiring of the senior researchers
 - sector not attractive for young researchers
 - low salaries
 - poor promoting opportunities
 - poor connections with the international research networks
 - head hunting by private companies

NUMBER OF SCIENTISTS WORKING IN ROMANIAN RESEARCH



NUMBER OF SCIENTISTS WORKING IN ROMANIAN AGRICULTURE AND FORESTRY RESEARCH





PAINFUL ADAPTATION...

- change in the funding sources and mechanisms (2002):
 - complete removal of direct budgetary funding
 - switch to non-budgetary types of funding:
 - competitive grant schemes
 - contracting services
 - sale of products from experimental fields and lots
 - sale of seed production, planting stock and breeding animals



... BUT IT WORKED

- started working in the competitive system
- changes in legislation:
 - loosening rigidity in terms of investments, salaries, international connections
 - promoting consortiums
 - changes in the education system
- launch in 2007 of the new R&D&I National Plan
 - promoting research programmes linked to the EU ones
 - increased facilities for investment in equipment
 - increased salaries for researchers
 - better opportunities for young scientists



CHANGES STILL UNDER WAY

- Debate:
 - is this type of organization is still viable?
 - better off if merged with university research?
- Specific legislation is currently under debate
 - the organisation of the R&D system in agriculture, forestry and food industry
 - establishment of public-private partnership
 - providing **SOME** public funding for research in these fields



EFFECTS UPON EXTENSION ACTIVITIES



CURRENT OFFER OF THE RESEARCH INSTITUTIONS TO FARMERS

	Extension activities
1.	Demonstrative fields
2.	Exhibitions, fairs, competitions
3.	Seminaries, group discussions
4.	Training courses
5.	Projects for farms organization
6.	High quality multiplication material: <ul style="list-style-type: none">• Seeds (for field crops and vegetables)• Seedlings (fruit trees, vine, decoration trees)• Animals for reproduction



Demonstrative field on conservation tillage in Gheltag watershed

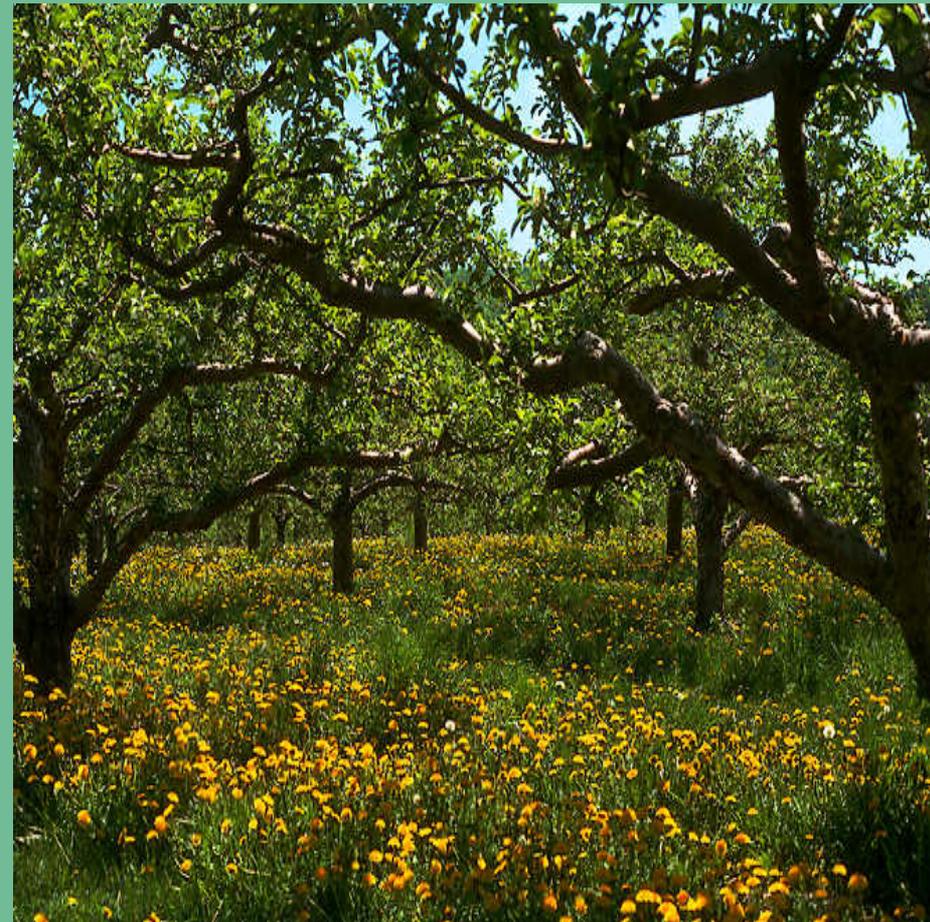


Demonstrative field on combination of contour stripcropping with agroterraces

New varieties creation on field crops



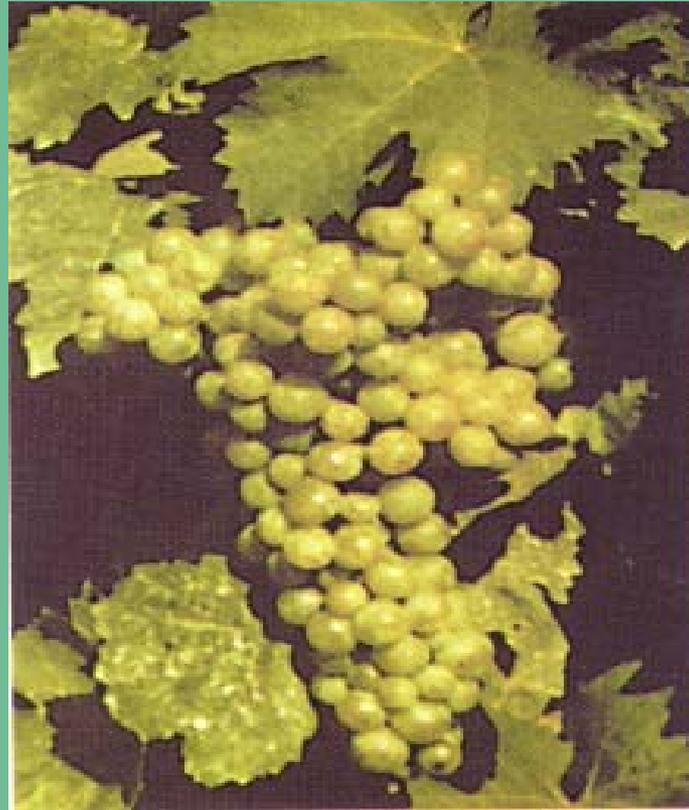
New varieties creation in fruit tree growing



New varieties creation on viticulture

Milcov

Somesan



Centenar of Pietroasa

Victoria

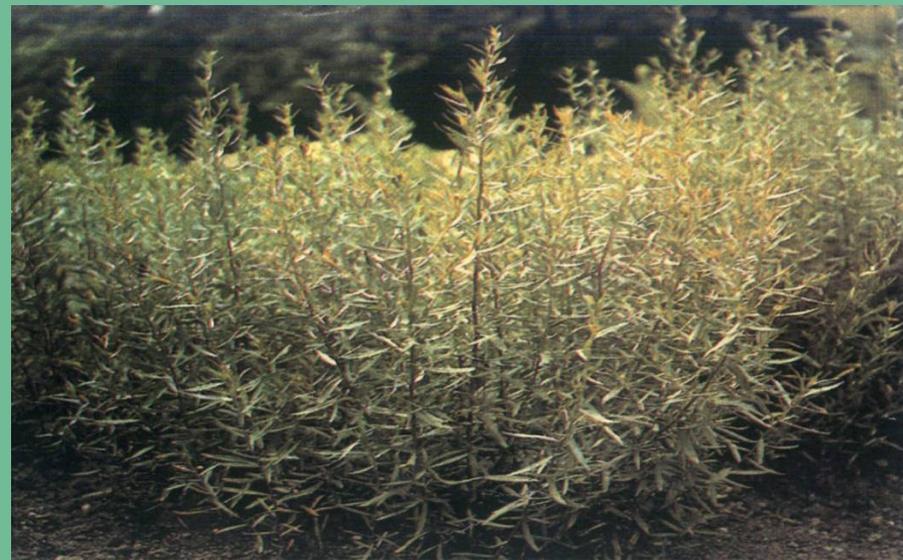
Xenia



New varieties creation in vegetables growing



New varieties in spice and medicinal plants



New races of farm animals



Linia Sintetică LSP-2000



Ram - Turcana breed - Sibiu



New fish varieties



Star sturgeon

***Acipenser stellatus* (Pallas 1771)**



Black sea sturgeon

***Acipenser gueldenstaedti* (Brandt 1833)**



Beluga

***Huso huso* (Linnaeus 1758)**



Sterlet

***Acipenser ruthenus* (Linnaeus 1758)**



CHANGING THE SCOPE OF EXTENSION

- used to be purely production-oriented:
 - increasing production
 - using modern techniques
- changed into multi-purpose orientation:
 - using good agricultural practices
 - understanding the CAP:
 - compliance with requirements
 - benefiting from its advantages
 - including environmental criteria in the decision-making process



INCLUSION, ADAPTATION AND SUCCESSFULNESS IN A COMPETITIVE ENVIRONMENT

- transformation of former agricultural workers in state farms and socialist cooperatives into private entrepreneurs
- increasing knowledge and skills – technical, economic and managerial
- transformation of semi-subsistence farms into successful commercial family farms
- walk the road to sustainable rural development



**THANK YOU FOR YOUR
ATTENTION !**