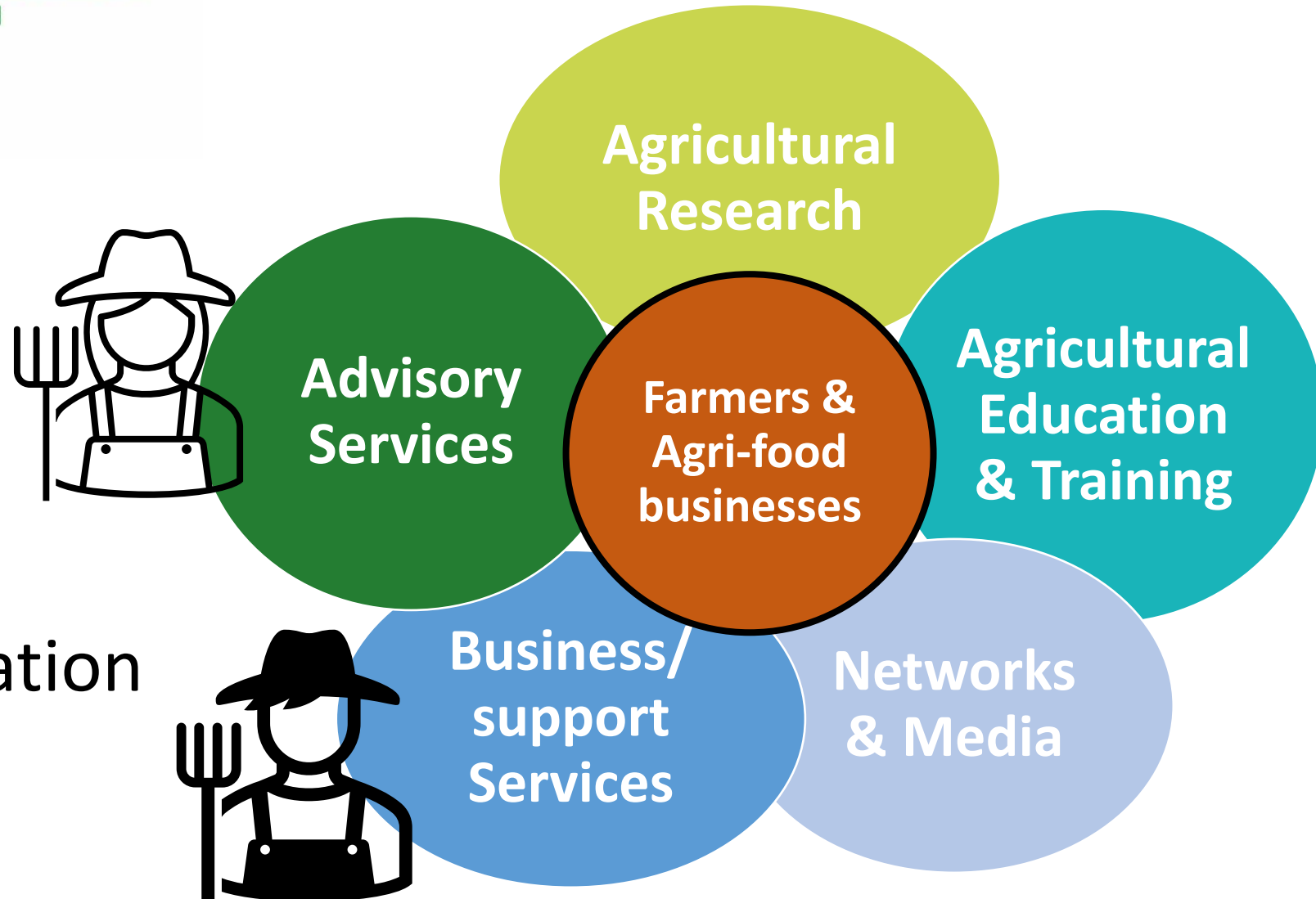




# UZBEK AGRICULTURAL KNOWLEDGE AND INNOVATION SYSTEM

## What is AKIS?

- **A**griculture
- **K**nowledge
- **I**nnovation / **I**nformation
- **S**ystem / **S**ervices





# Strategic vision

*Develop a competitive, market and export-oriented agri-food sector that will increase farm incomes, create new jobs, enhance food security and ensure the sustainable use of natural resources*

# Specific objectives of AKIS

- To establish an **UAKIS operational framework** that can deliver agriculture research, education, and advisory services through an integrated and synergistic AKIS support structure and system at central, regional, and local levels
  - Increase farmers ability to **absorb and implement innovation**
  - To establish an Uzbek **agricultural research system** which can generate new knowledge, technologies and innovations supporting and responding to the current and future needs of farmers and agri-businesses
  - To establish a modern, functional **agricultural education and training system** that can develop the skills and capacities required to respond to the technology, knowledge, skills, and information needs of farmers and agri-food businesses
  - To establish an Uzbek **advisory service** available to farmers and agri-businesses to ensure the effective exchange, adaptation, access and use of knowledge, information, and skills



# UAKIS Component 1



**AGRICULTURAL RESEARCH**

# Agricultural Research planning guiding principles



Based on the needs & demands identified from farms and agri-businesses



Full consistency with Uzbekistan Agri-Food Strategy 2020-2030



Thematic, outcome-based planning  
(not institution-based)



Link performance to projected impact on  
farm & agri-business incomes &  
productivity

# 21 associated research institutes

- Scientific-research institute of cotton selection, seed breeding and agro-technologies of cultivation and its 12 sub-organizations
- Horticulture, grape and wine production research institute and its 15 sub-organizations
- Vegetable and potato research institute and its 7 sub-organizations
- Grain, Corn and leguminous crops research institute and its 10 sub-organizations
- Crop genetics science research institute and its 3 sub-organizations
- Mechanization in Agriculture research institute
- Rice Research Institute
- Rainfed agriculture research institute
- Southern agriculture research institute
- Karakalpakstan agriculture research institute
- Grain and Rice Science Production Department
- Fine Fibre Cotton research Institute
- "Uzdaveroylaha" state scientific and planning institute
- Institute of Soil Science and Agrochemical Research
- Plant Quarantine and Protection Research Institute
- Veterinary Research Institute
- Research Institute of Animal Husbandry and Poultry
- Fishery Research Institute
- Silk Research Institute
- Research Institute of Sheep (qorako'Ichilik) and Desert Ecology
- Bukhara desert pasture seed production of nutritious plants research Institute

# AKIS Component 2

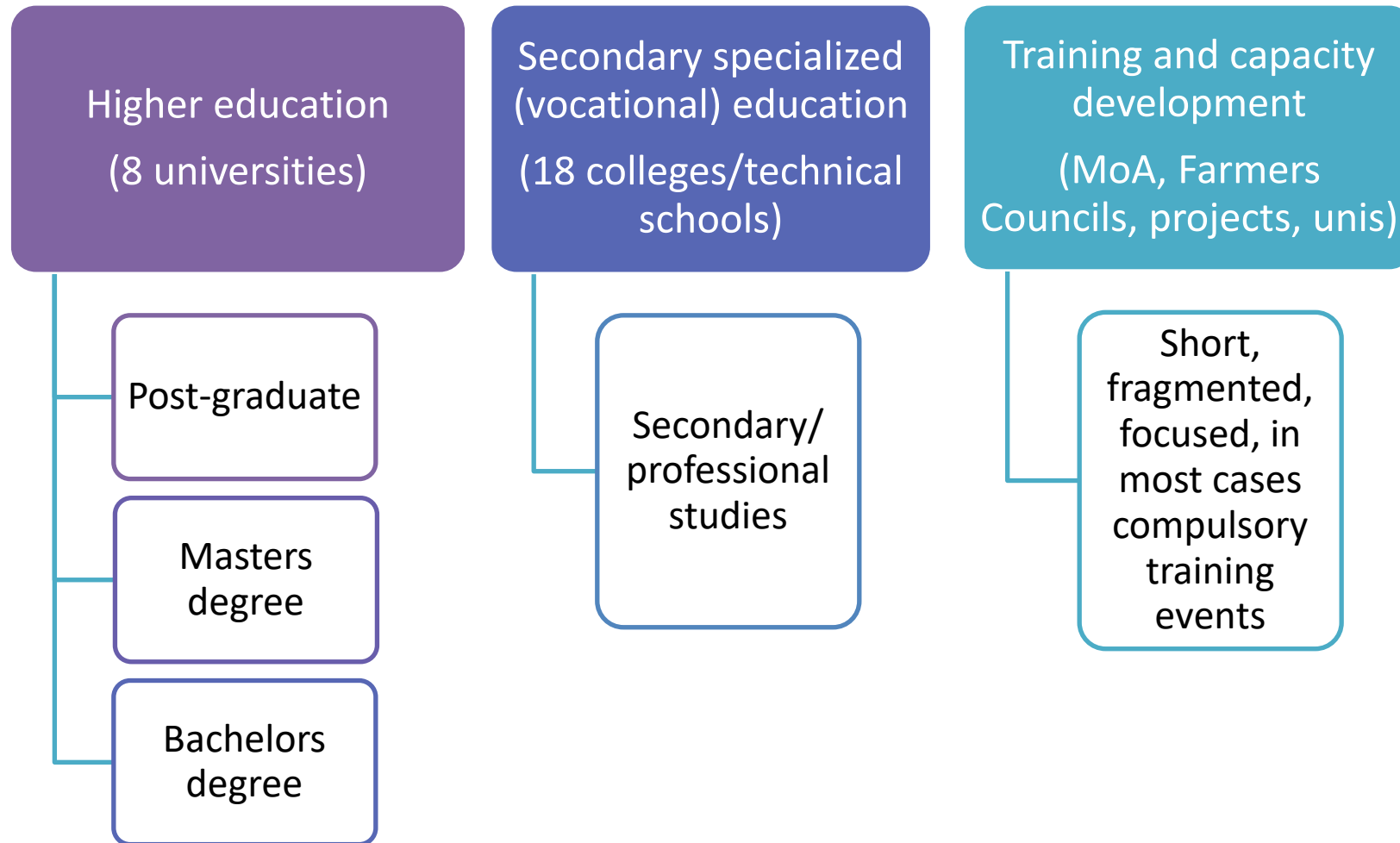


**AGRICULTURAL EDUCATION  
AND TRAINING**



# Agricultural Education and Training System:

## MAIN ELEMENTS



# Education and Training guiding principles



on the way of



Client-centric, 'Institutions without walls'



Varied courses, targeting  
specific sector needs & demand

Vocational  
Short, medium & long-term  
Sandwich courses



Varied delivery methods (inc. on-line, distance-learning, evening,  
weekend etc.)



New curricula guided by international best practice



New training and education methods and practices



New partnerships with leading international institutions

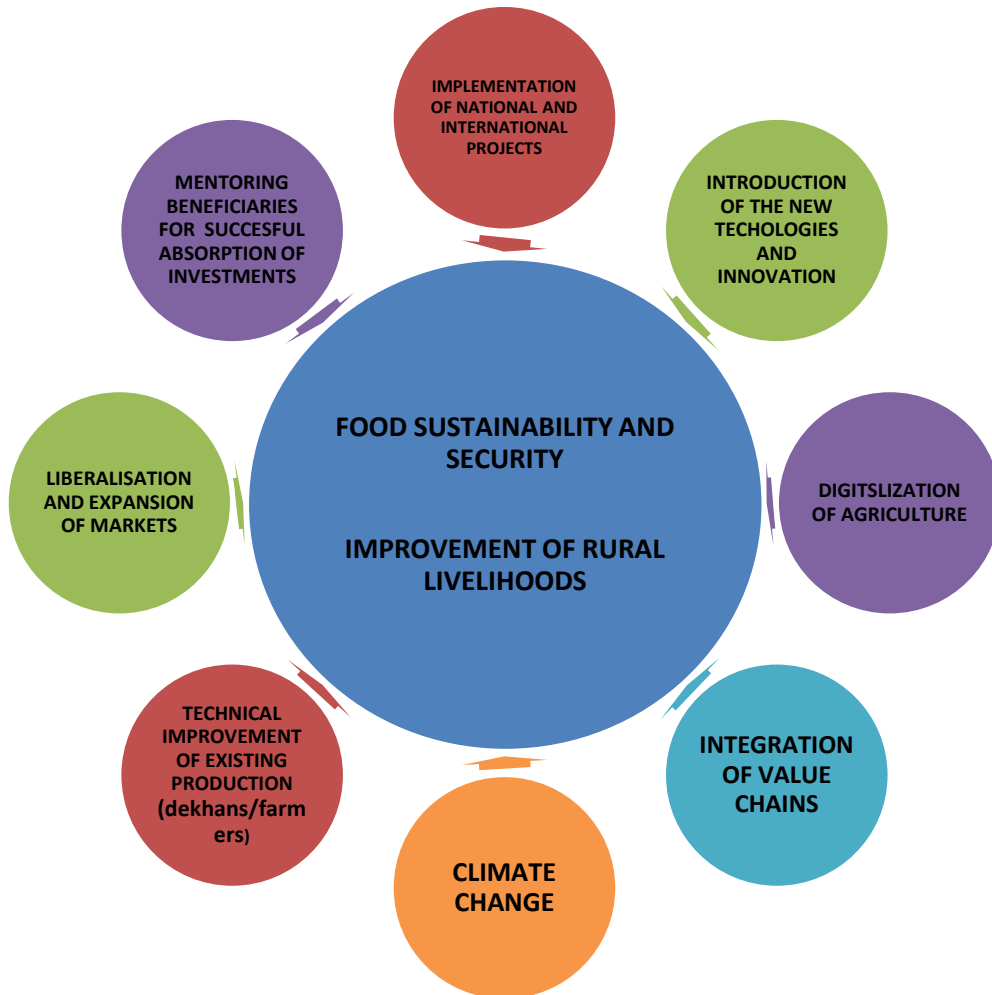
# UAKIS Component 3



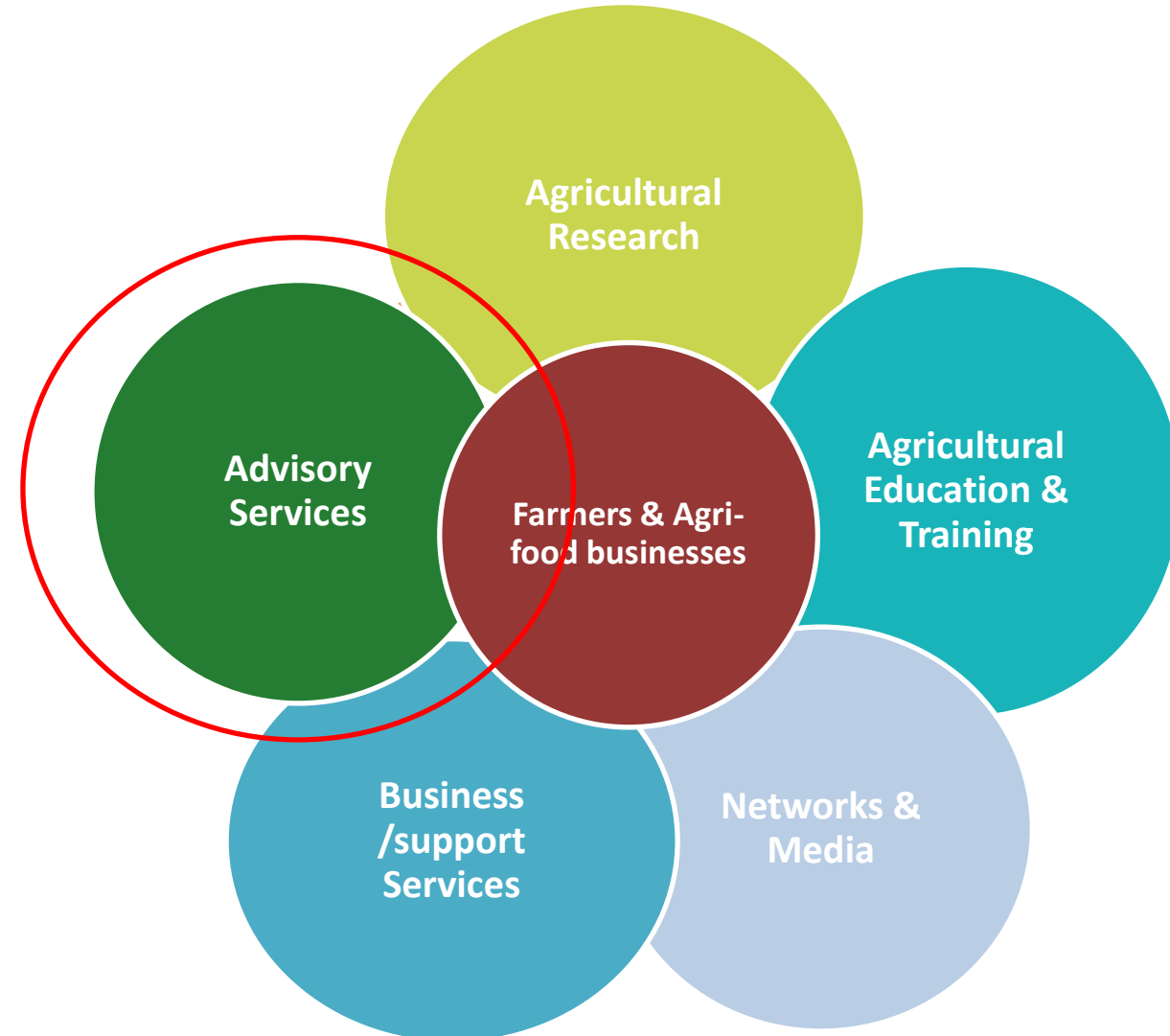
**ADVISORY SERVICES**

# Setting up the missing link

## The needs



## AKIS



# DEVELOPMENT OF FARM ADVISORY SERVICES (FAS) UNDER UAKIS

H.I.HORVAT

## Purpose of Farm Advisory Services in Uzbekistan

- **To increase farmers skills and knowledge** in production and increase their competitiveness
- **Increase overall food safety**, food security, environmental and financial sustainability of agricultural production
- **Support overall agri-food strategy 2020 – 2030 goals** - including improvement of quality of rural life and development of rural areas





# SCOPE OF SERVICES



**Provision of information and technical advice to farmers**



**Practical demonstrations (demo farms) in order to present new technologies**



**Development of investment programs, business plans, rural development programs, analyzes, studies**



**Conducting training and education through lectures, seminars or vocational trainings of farmers**



**Assistance in the establishment of various forms of organizations of farmers**



**Supporting implementation of agricultural policy programs and measures on the field**



**Support to international and domestic scientific and development projects**



**Organizing professional gatherings, events, conferences and exhibitions**



**Implementation of the agricultural statistics system**



**Performing public awareness and publishing activities**



**Monitoring system of harmful organisms in plant production**

# MEANS OF KNOWLEDGE/INFORMATION TRANSFER – FARM ADVISORY SERVICE

## PRIMARY MEANS OF TRANSFER

- VISIT OF FARMERS TO THE OFFICE
- DEMONSTRATION/MODEL FARMS
- LECTURES AND SEMINARS
- MASS MEDIA – WEB, TV, APPS



## SECONDARY MEAN OF TRANSFER

- FARM VISITS – IMPLEMENTATION OF ADVISORY PACKAGES ACCORDING TO SPECIFIC FARMER NEEDS (could be linked with group work)

# ENSURING QUALITY – CONSTANT TRAINING

## BASIC ADVISORY SKILLS TRAINING

- Personal Development / My Profile as a Consultant
- Communication and Building Relationships in Advisory Work
- Teamwork and Team Leadership
- Rhetoric / Presentation
- Self-Management and Time Management
- Project Management
- Shaping Advisory Processes
- Handling Difficult Advisory Situations / Change Management
- Moderation Management
- Marketing of advisory services
- Event Management
- Advising and Supporting Groups
- Introduction to Coaching
- Innovation
- Participation



**Good Agriculture  
Practices training**



**INTENSIVE  
TECHNICAL SHORT  
COURSES –  
  
ACCORDING TO  
PRODUCTION AREA**

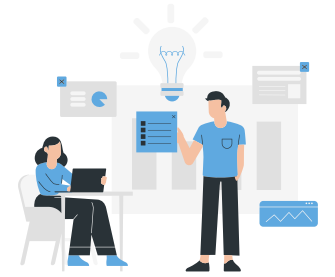


**STUDY VISITS  
IN EU/ASIA  
COUNTRIES**



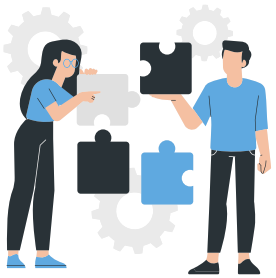
## Why/for what purpose was AKIS created?

- AKIS is established in order to modernize Uzbek agriculture under the 10-year strategy of the Republic of Uzbekistan.
- AKIS positions itself as “one stop shop” for farmers granting them universal access to services, advice and information on all aspects agriculture including research, innovation, consulting, training and entrepreneurship.



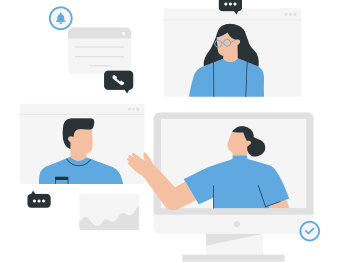
## What has been done to date and plans for future?

- To date, regional AKIS offices have been established in all 13 regions of Uzbekistan.
- Since then, more than 500 seminar-trainings and more than 150 open field days were organized with the participation of local and international experts.
- We are about to expand our presence by recruiting 164 advisors in 164 districts of the Republic by the second half of 2024.



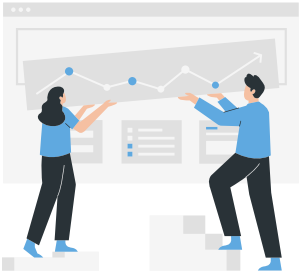
## Which countries' experience has been used?

- When creating AKIS, the experience of the European Union countries was studied, in particular such countries like Croatia, Belgium, Ireland, Spain, Italy, Germany, as well as other countries like South Korea and Turkey.



## What are the main successes?

- Over the past 2 years, more than 500 training seminars and more than 150 days of open fields have been organized with the participation of scientists from research institutes working in the field of agriculture of the republic and foreign experts.
- As a result, the knowledge and experience of farmers increased, which improved the quality and volume of crops obtained, as well as the efficient use of resources, for example, in Tashkent region, “Eco-Pro Farm” installed drip irrigation on cotton field, normalizing the PH level of the soil, thereby obtaining 3 times more yield.



## What problems?

- Lack of clarity/understanding the concept of AKIS at the top management level.
- Lack of qualified personnel in the field to implement the AKIS concept.
- Resistance to change both within the ministry and among the farmers (change management – changing our mind-set, our ways of doing things).



## What are we planning next?

- Expansion of the range of services: development and introduction of new services such as agricultural consulting, training in agricultural technologies, agrotourism and others.
- Professional development of personnel: organization of trainings and seminars for employees of the center of agricultural services on current topics of agriculture, as well as participation in professional conferences and exhibitions.
- Infrastructure improvement: renovation and modernization of equipment in the center of agricultural services, creation of modern laboratories for soil research, introduction of new technologies and tools to improve the quality and efficiency of services provided.
- Development of partnerships: establishing cooperation with other organizations and enterprises working in agriculture to expand the scope of activities of the center for agricultural services and provide integrated solutions to customers.
- Marketing and advertising activities: development and implementation of marketing strategies to attract new customers, creation of advertising campaigns, participation in exhibitions and conferences, holding informational seminars and webinars.

## Participation of universities in the activities of AKIS

- The participation of higher education institutions in the training of personnel is considered very important, that is, they are considered to provide necessary specialists in all areas of agriculture.
- Partnership and cooperation: Universities can establish partnerships with agricultural service centers for joint research, project development and information exchange. This helps to create strong links between the academic community and practitioners in the field of agricultural services.



# Thank you ...



any questions?