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National Roadmap

North Macedonia

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Bayerisches Staatsministerium für
Ernährung, Landwirtschaft und Forsten



Objective 1:

Introduce new structures in the AKIS

Milestone 1.1:

Establish private advisory service



Priority score:

Importance

Medium

Priority score:

Feasibility

Medium

Deliverables:

- Set legislation for private advisory operators
- Set clear regulation to distinguish between competencies and areas of operation of private and national advisory service to provide complementarities in the system
- Set supporting infrastructure for operation of the private advisory service (preparation of financing models, contracts and bidding documents, database of certified private advisors etc.)

Resources needed: MAFWE, Donors, EU funds

Timeline: Mid-term goal

Objective 1: Introduce new structures in the AKIS

Milestone 1.2: Establish Academy for certifying advisors



Priority score: Importance	Priority score: Feasibility
Medium	Medium

Deliverables:

- Set legislation and regulation of the Academy for certifying advisors (for both, public and private advisors)
- Created study programme for certified advisors with different modules (for public and private advisors)
- Provided facilities for education purposes (classroom equipped with necessary study materials, study literature, logistics to support practical learning etc.)
- Created human resource capacities to run the administration of the Academy and to teach
- Provided other supporting infrastructure for operation of the Academy (preparation of financing models, bidding documents etc.)

Resources needed: MAFWE, Donors, EU funds

Timeline: Mid-term goal

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Objective 1: Introduce new structures in the AKIS

Milestone 1.3: Establish Science Park



Priority score: Importance	Priority score: Feasibility
Medium	Low

Deliverables:

- Set legislation and regulation of the Science Park
- Selected University(ies) and their properties for establishment of a Science Park
- Provided facilities for operation of the Science Park (buildings, equipment etc.)
- Recruited tenant firms
- Created human resource capacities to run the administration of the Science Park
- Provided other supporting infrastructure for operation of the Science Park (biding documents etc.)

Resources needed: MON, MAFWE, ME, FITR, Donors, EU funds

Timeline: Long-term goal



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Objective 1: Introduce new structures in the AKIS

Milestone 1.4:

Establish other institutions/organisations to support research, innovation and technology transfer (RITT) in the agri-food sector



Priority score: Importance	Priority score: Feasibility
Medium	Medium

Deliverables:

- Established Innovation Centres within, between (or independently from) research and education institutions
- Established Centres of Excellence (a team, a shared facility or an entity) that provides leadership, best practices, research, support and/or training for a focus area

Resources needed: MAFWE, MON, FITR, Donors, EU funds

Timeline: Mid-term goal

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Objective 2: Strengthen the capacities of AKIS actors

Milestone 2.1:

Enhance human capacities of advisory services
(the existing public and new private)



Priority score: Importance	Priority score: Feasibility
High	High

Deliverables:

- Developed life-long learning curricula tailored to the needs of farmers
- Organised recurrent trainings for the advisors
- Organised study visits, seminars etc. for advisory members

Resources needed: MAFWE, Donors, EU funds

Timeline: Mid-term goal



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Objective 2: Strengthen the capacities of AKIS actors

Milestone 2.2:

Enhance human capacities employed in the research and education sector



Priority score: Importance	Priority score: Feasibility
High	High

Deliverables:

- Increased participation in joint education and research activities with regional and international institutions
- Increased attendance on summer/winter schools, shorter-term courses, study visits etc.
- Increased participation on scientific conferences, forums etc.
- Improved access to databases, journals, and scientific and professional literature

Resources needed: MON, MAFWE, Donors, EU funds

Timeline: Mid-term goal

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Objective 2: Strengthen the capacities of AKIS actors

Milestone 2.3:

Enhance human capacities of public institutions
in supporting RITT



Priority score: Importance	Priority score: Feasibility
High	High

Deliverables:

- Improved inter-sectorial coordination between different public institutions
- Increased involvement of Municipalities in the RITT processes jointly with Regional Development Centres and Industrial Zones

Resources needed: MAFWE, ME, Municipalities, TIRZ, Donors, EU funds

Timeline: Mid-term goal



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Objective 2: Strengthen the capacities of AKIS actors

Milestone 2.4:

Introduce reforms in the agri-food education
with focus on RITT development



Priority score: Importance	Priority score: Feasibility
High	Medium

Deliverables:

- Formed advisory board to support the processes of study programmes (re)accreditation of the research and education institutions
- Created competitive, but not competing, studies in the agricultural and food sciences
- Introduced vocational education in agri-food sciences

Resources needed: MON, MAFWE, Donors, EU funds

Timeline: Mid-term goal



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Objective 2: Strengthen the capacities of AKIS actors

Milestone 2.5:

Strengthen RITT capacities of research and education institutions



Priority score: Importance	Priority score: Feasibility
High	Medium

Deliverables:

- Modern demonstration farms, used primarily to research or demonstrate various agricultural techniques
- Strong business incubators that help start-up agri-food companies and individual agricultural entrepreneurs to develop their businesses

Resources needed: MAFWE, MON, FITR, Donors, EU funds

Timeline: Mid-term goal



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Objective 2:

Strengthen the capacities of AKIS actors

Milestone 2.6:

Strengthen capacities of farming based organisations in their RITT mediation role between private and other sectors

Priority score: Importance	Priority score: Feasibility
High	High

Deliverables:

- Increased membership in farming based organisations (especially of young people engaged in the private agricultural sector)
- Strengthened cooperation between different farming based organisations
- Improved media services (newsletters, professional journals, web-portals, social media tools and coverage etc.) of the farming based organisations in the area of promoting new technologies and innovations
- Increased participation of farming based organisations in RITT's policy dialogues, national working groups etc.

Resources needed: MAFWE, Donors, EU funds

Timeline: Mid-term goal

Objective 3:

Create functional relationships between AKIS actors

Milestone 3.1:

Establish a broker entity that supports creation of functional relationships of the AKIS

Priority score: Importance	Priority score: Feasibility
High	Medium

Deliverables:

- Established match-making organisation ((coordination body) to support formation of multi-actor knowledge networks and co-innovation in the agri-food sector

Resources needed: MAFWE, Donors, EU funds

Timeline: Mid-term goal

Objective 3:

Create functional relationships between AKIS actors

Milestone 3.2:

Encourage farmers-led interactive innovation

Priority score: Importance	Priority score: Feasibility
High	Medium

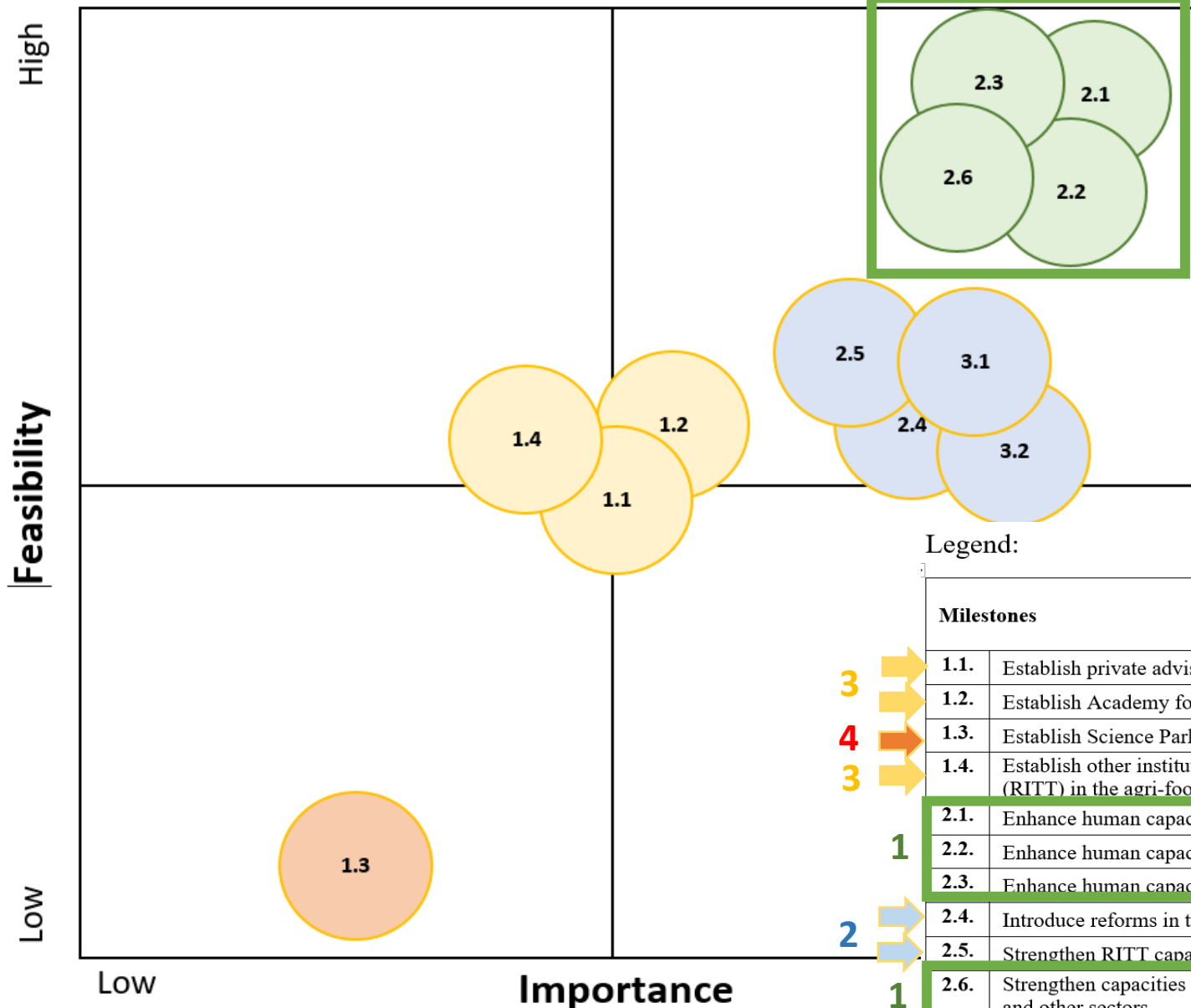
Deliverables:

- Increased awareness among farmers on the importance to exchange knowledge and co-innovate (with other farmers, agri-food industry, academia, consumers etc.)
- Established groups of collaborators, such as benchmarking for better farm performance, field labs for finding lasting solutions to practical problems, monitor farms, levy boards etc.
- Developed thematic programmes on Youtube and blogs on social media by and for farmers

Resources needed: MAFWE, Donors, EU funds

Timeline: Mid-term goal

Prioritisation mapping of the Roadmap



Legend:

Milestones	
3	1.1. Establish private advisory service
4	1.2. Establish Academy for certifying advisors
3	1.3. Establish Science Park
3	1.4. Establish other institutions/organisations to support research, innovation and technology transfer (RITT) in the agri-food sector
1	2.1. Enhance human capacities of (the existing public and new private) advisory services
2	2.2. Enhance human capacities employed in the research and education sector
2	2.3. Enhance human capacities of public institutions in supporting RITT
1	2.4. Introduce reforms in the agri-food education with focus on RITT development
2	2.5. Strengthen RITT capacities of research and education institutions
1	2.6. Strengthen capacities of farming based organisations in their RITT mediation role between private and other sectors
2	3.1. Establish a broker entity that supports creation of functional relationships of the AKIS
2	3.2. Encourage farmers-led interactive innovation

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THANK YOU FOR YOUR ATTENTION!

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