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AKIS Action Plan The Republic of Srpska

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Bayerisches Staatsministerium für
Ernährung, Landwirtschaft und Forsten



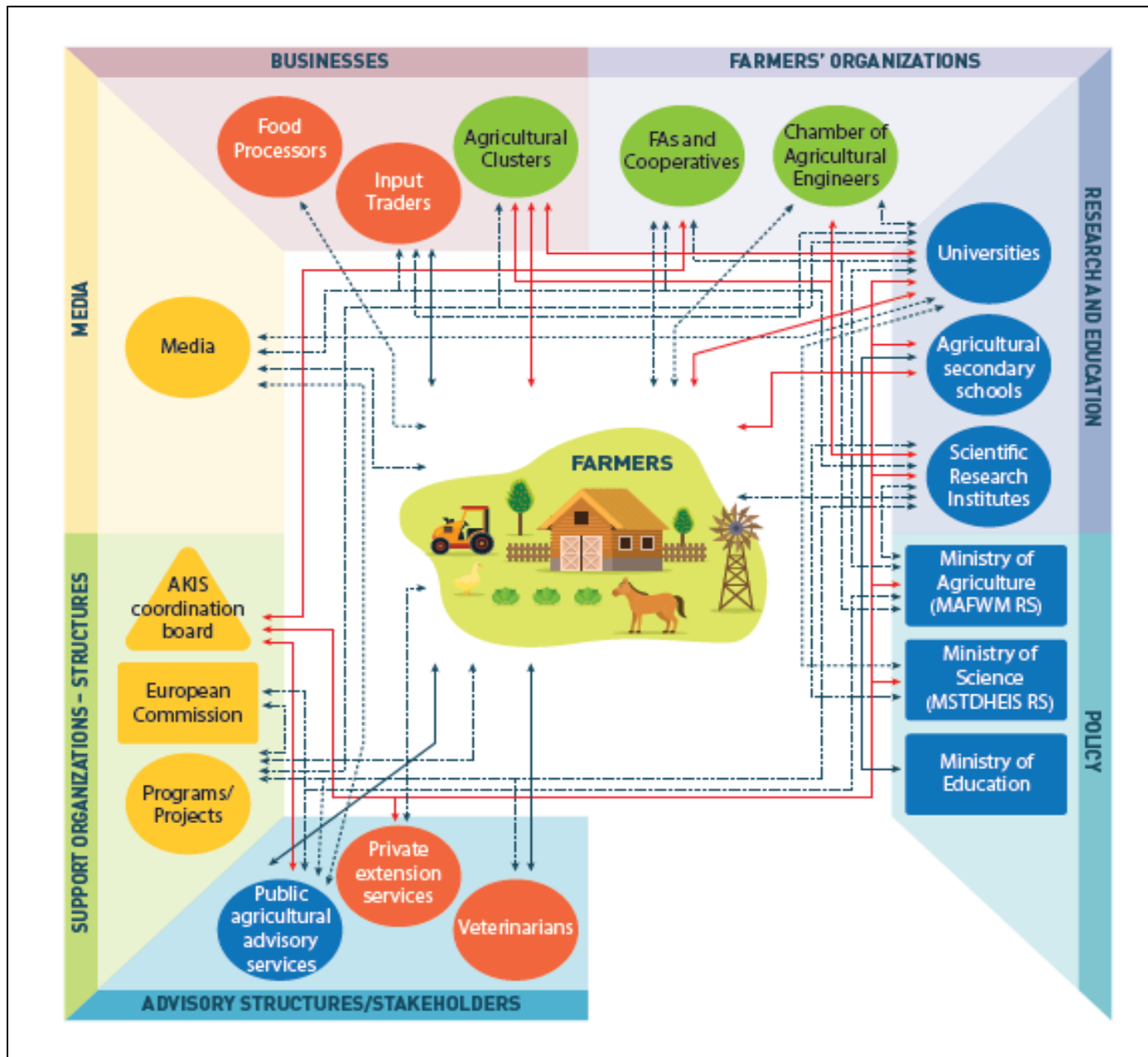
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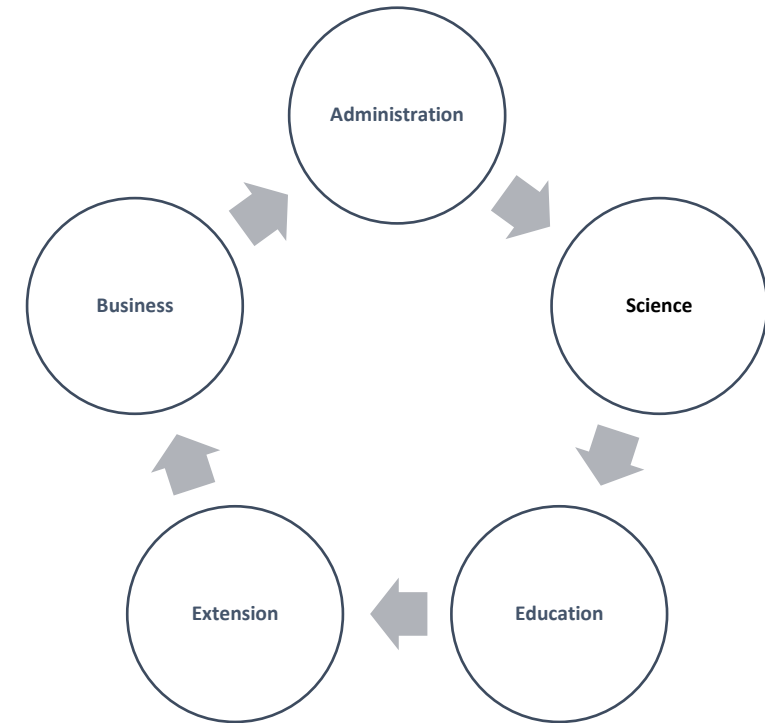
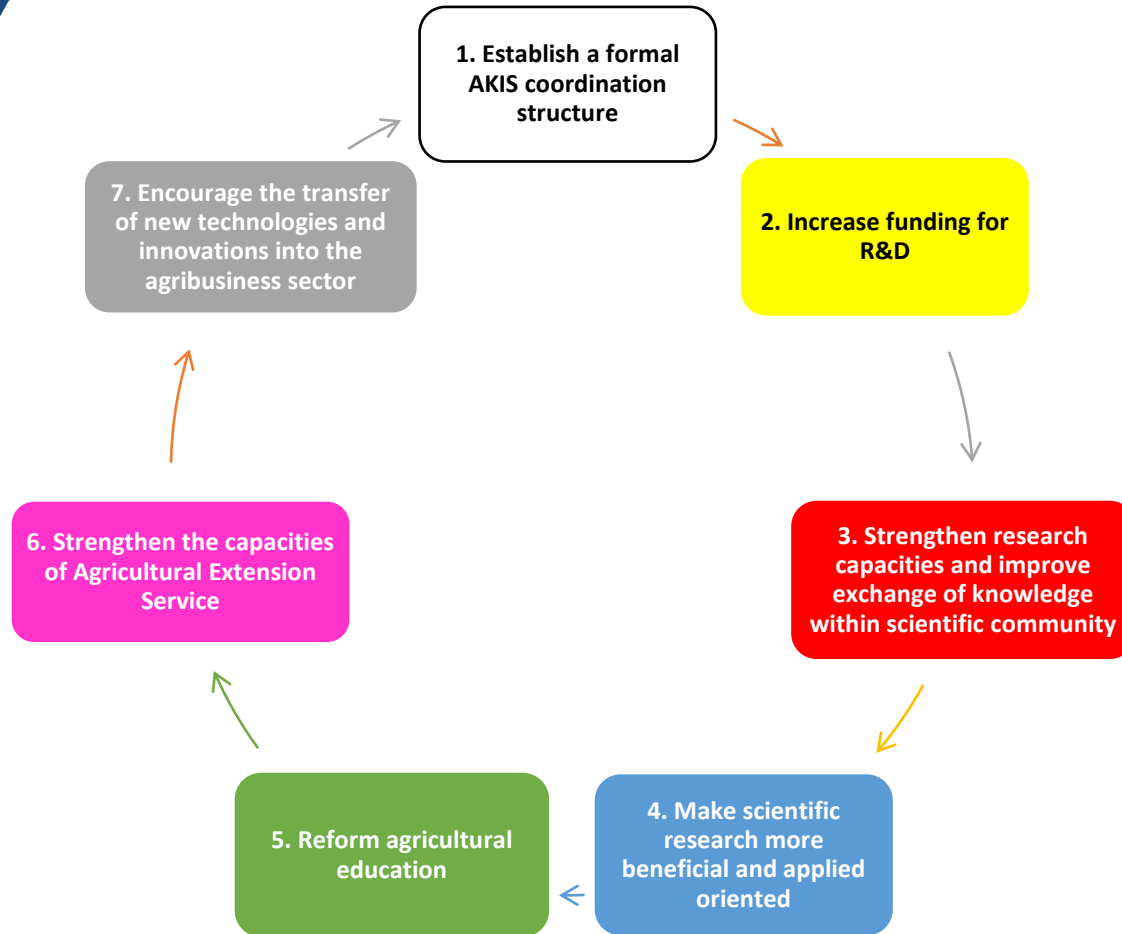
AKIS in the Republic of Srpska



Bayerisches Staatsministerium für Ernährung, Landwirtschaft und Forsten



Objectives of AKIS in the Republic of Srpska



Objective 1

<i>Specific objectives</i>	<i>Required action</i>	<i>Milestones</i>	<i>Deliverables</i>	<i>Resources needed</i>	<i>Deadline</i>
Objective 1: Establish a formal AKIS coordination structure					
Conduct a campaign on the need to establish AKIS	Identify the leader and other stakeholders for AKIS campaign and prepare and implement a communication plan	Sensitization and mobilization of various AKIS multi-actors on the need to formalize the integrated AKIS system	AKIS campaign conducted	Political weal and expert and legal support	The end of 2022
Operational AKIS Coordination Board	Collect the names of the representatives of the institutions and appoint a board by the government	Establishment of AKIS Coordination Board	AKIS CB established	Political and legal support	March 2023
	Define priorities and model of CB operations and hold regular meetings	Consensus on AKIS structure and priorities by AKIS Coordination Board	AKIS platform agreed	Facility for meetings and professional support	Continuous update
Addoptation and monitoring of AKIS strategy	Nominate a working group to draft AKIS strategy and carry out the necessary consultations before initiate its adoption procedure	Preparation AKIS strategy	AKIS strategy document adopted	Expert support and funding	July 2023
	Coordinate with all participants to submit the necessary data and work on annual plans and reports on the implementation of AKIS.	Regular evaluation of AKIS results and impact	AKIS evaluation reports	Expert support and funding	October 2023 Continuous update
Preparation Smart Specialization Strategy	Coordinate with various stakeholders the preparation and adjustment of the SSS.	Preparation Smart Specialization Strategy	SSS document adopted	Expert support and funding	December 2023

Objective 2

<i>Specific objectives</i>	<i>Required action</i>	<i>Milestones</i>	<i>Deliverables</i>	<i>Resources needed</i>	<i>Deadline</i>
Objective 2: Increasing funding for R&D					
Increase budgetary allocations for research in the biotechnology	Convince policymakers to increase allocations for scientific research	Increase allocations for scientific research from national funds	Allocation of GDP for R&D (target min. 0.5%)	Money	October 2023 and onwards
	Redefine the agricultural budget and establish a mechanism for financing applied research in agriculture	Support applied research in agriculture sector from the agricultural budget	Allocation for R&D from agricultural budget (target min. 1%)	Money	October 2023 and onwards
Ensure additional non-budgetary financing of research and development in agriculture	Hold meetings with representatives of governmental and non-governmental international organizations that support agriculture in BiH and persuade them to include AKIS in their interventions.	Involvement of the international donors in R&D financing	Donor projects supporting R&D in biotechnology field (target min. 50% of projects)	Money	December 2024 and onwards
Create conditions for the agricultural extension service to be more involved in AKIS	Lobby for budgets to increase funding for equipping and other activities of the Agricultural Advisory Service.	Increase budgetary support for agricultural extension services	Allocation for agricultural extension activates from the RoS budget (target increase by 10% per year)	Money	October 2023 and onwards

Objective 3

<i>Specific objectives</i>	<i>Required action</i>	<i>Milestones</i>	<i>Deliverables</i>	<i>Resources needed</i>	<i>Deadline</i>
Objective 3: Strengthen research capacities and improve exchange of knowledge within scientific community					
Strengthening human and material capacities of scientific- research institutions	Connect and involve researchers in various programs that fund mobility and training of scientific research staff	Strengthening human capacity of scientific-research institutions	Researchers participate in training and mobility programs (target 50%)	Human capacities, Scientific networks, Money	Continuously
	Reallocate budgetary and non-budgetary allocations for modernisation scientific research institutions	Strengthening technical capacity of scientific-research institutions	Modernization of premises, equipment, and other research infrastructure	Money	October 2023 and onwards
Make the scientific community more productive	To condition and reward scientists for greater scientific productivity	Improvement of scientific productivity	Implemented scientific projects and published scientific papers with greater impact	Scientific human capacities and scientific infrastructure	December 2023 and onward
	Share information and provide technical and financial support to the scientific community to find suitable partners and prepare scientific research projects	Greater science internationalization	Involvements of national scientific institutions in cross-border and bilateral cooperation and ERA	International partnerships	December 2023 and onward

Objective 4

<i>Specific objectives</i>	<i>Required action</i>	<i>Milestones</i>	<i>Deliverables</i>	<i>Resources needed</i>	<i>Deadline</i>
Objective 4: Make scientific research more beneficial and applied oriented					
Better coordination in biotechnical research	Prioritize biotechnical research and coordinate its implementation and dissemination.	Establishment of a Standing Committee on Agricultural Research	The Standing Committee formalized and operational	Facility for meetings and Professional support	December 2023
More scientific research in practice and for practice	Modify the funding conditions for applied research in order to have more common business sector-science projects	Increase number of research projects based on business sector needs	Join projects financed from national funds for scientific research for (target min. 20%)	Money and Cooperation arrangements	December 2023 and onward
	Linking the business entities with scientific research institutions	Benefit-driven cooperation between the scientific community and the business sector	Projects based on business sector initiatives (target min. 10%)	Money, Cooperation agreements	Continuously

Objective 5

<i>Specific objectives</i>	<i>Required action</i>	<i>Milestones</i>	<i>Deliverables</i>	<i>Resources needed</i>	<i>Deadline</i>
Objective 5: Reform agricultural education					
More interactive learning in the function of creating innovation	In cooperation with the business community, implement curriculum changes, and verify by accreditation bodies	Review and update of educational curricula	Updated curricula	Human resources, Political weal	Every four years
	Replace the part of classes of theoretical teaching with more effective practical teaching classes	Introduce more practically and creative oriented learning	Practical teaching modules	Human resources, Political weal	December 2024
	Establish own laboratories, experimental fields and enable necessary equipment to support theoretical learning with practical demonstrations	Fulfilment of technical preconditions for practical teaching	Laboratories and demonstration fields present in educational institutions	Money	Continuously
Improve qualifications of educators	Change the conditions for evaluation and promotion of teachers by the obligation of their partial engagement in research	Combining research and teaching among teaching staff	Qualified teaching staff	Legal framework	July 2023

Objective 6



<i>Specific objectives</i>	<i>Required action</i>	<i>Milestones</i>	<i>Deliverables</i>	<i>Resources needed</i>	<i>Deadline</i>
Objective 6. Strengthening the capacities of Agricultural Extension Service and dissemination of research, knowledge and technologies					
Improve technical and human capacities of Agricultural Extension Service	Obtain equipment of various types for AES	Strengthening the capacity of the public Agricultural Extension Service	Extension service capable of performing services	Money	Continuously
	Introduce licensing of consultants followed by regular trainings	Regular training and licensing of advisors	Licensed advisors (target 100%)	Organizational solutions Partnership	December 2023 and onward
More interactive Agricultural Extension Service	Formalize cooperation through cooperation agreements and create joint advisory packages or share areas of consultation without overlap	Enlarge cooperation between public and private agricultural extension service	PP cooperation arrangements (target min. 2 per year)	Managerial solutions	July 2022 and onward
	Connect each advisor with a larger number of farmers and increase the number of contacts	Enhance interactions between advisors and farmers	Farmers participation in extension services planning and evaluation	Partnership	Continuously
Research knowledge in the function of extension services	Formalize cooperation between research institutions and AES and define procedures for such cooperation	Interconnection of advisors and researchers	Advisors with researchers connected (target min. 50%)	Partnership Organizational solutions	May 2024
Greater availability and visibility of advisory services	Digitize extension services and train advisors to use ICT independently	Digitalization of scientific knowledge and extension services	Digitized and freely available new knowledge and advices (target. min. 50%)	IT equipment Human resources	March 2024



Objective 7



<i>Specific objectives</i>	<i>Required action</i>	<i>Milestones</i>	<i>Deliverables</i>	<i>Resources needed</i>	<i>Deadline</i>
Objective 7. Encouraging the transfer of new technologies and innovations into the agribusiness sector					
Accelerate the dissemination of the results of scientific research and new technologies	Define conditions and nominate demo farms	Establishment of demo farms and other forms of R&T transfer demonstrators	Demo farms, leading etc. farms (target 50)	Money Partnership	June 2023 and onward
	Facilitate the mobility of farmers and businessmen between different countries	In the country and cross-country best practice sharing visits and networks	Exchange visits and networks	Money Partnership Organizational solutions	December 2022
Increase the rate of application of new technologies and innovations	Change the rules on the allocation of incentives	Increase subsidies for on-farm investments and transfer of new technologies and innovations	Investment support from Agricultural Budget (target min. 30%)	Money Political will	December 2022
	Ensure access to IPARD funds	Leveraging additional grant support for on-farm investment	Grant schemes	Money Partnership	December 2024
	Convince FIs to approve more loans for on-farm investments with more flexible procedures	Ensuring credit support for on-farm investment	Credit lines for agribusiness investment	Money	December 2023
Create a more favourable environment for transfer of new technologies and innovations	Enable the services needed by entrepreneurs more accessible and cheaper	Improving business soft infrastructure for the agribusiness sector	Institutional infrastructure	Money Legal framework Technical assistance	December 2024
More own investment in R&D	Convince the investor to enter into practical oriented research	Increase business sector investments in R&D research	Joint research projects (target 10% of private share in total R&D expenditure)	Money Cooperation arrangements	Mid-term

Objective 1

<i>Specific objectives</i>	<i>Milestones</i>	<i>Impact</i>	<i>Feasibility</i>
Objective 1: Establish a formal AKIS coordination structure			
Conduct a campaign on the need to establish AKIS	Sensitization and mobilization of various AKIS multi-actors on the need to formalize the integrated AKIS system	3	5
Operational AKIS Coordination Board	Establishment of AKIS Coordination Board	7	5
	Consensus on AKIS structure and priorities by AKIS Coordination Board	6	4
Addoptation and monitoring of AKIS strategy	Preparation AKIS strategy	5	5
	Regular evaluation of AKIS results and impact	5	3
Preparation Smart Specialization Strategy	Preparation Smart Specialization Strategy	5	3

Objective 2

<i>Specific objectives</i>	<i>Milestones</i>	<i>Impact</i>	<i>Feasibility</i>
Objective 2: Increasing funding for R&D			
Increase budgetary allocations for research in the biotechnology	Increase allocations for scientific research from national funds	5	3
	Support applied research in agriculture sector from the agricultural budget	5	5
Ensure additional non-budgetary financing of research and development in agriculture	Involvement of the international donors in R&D financing	4	3
Create conditions for the agricultural extension service to be more involved in AKIS	Increase budgetary support for agricultural extension services	5	4

Objective 3

<i>Specific objectives</i>	<i>Milestones</i>	<i>Impact</i>	<i>Feasibility</i>
Objective 3: Strengthen research capacities and improve exchange of knowledge within scientific community			
Strengthening human and material capacities of scientific- research institutions	Strengthening human capacity of scientific-research institutions	4	3
	Strengthening technical capacity of scientific-research institutions	4	5
Make the scientific community more productive	Improvement of scientific productivity	4	5
	Greater science internationalization	5	4

Objective 4

<i>Specific objectives</i>	<i>Milestones</i>	<i>Impact</i>	<i>Feasibility</i>
Objective 4: Make scientific research more beneficial and applied oriented			
Better coordination in biotechnical research	Establishment of a Standing Committee on Agricultural Research	5	6
More scientific research in practice and for practice	Increase number of research projects based on business sector needs	5	5
	Benefit-driven cooperation between the scientific community and the business sector	6	3

Objective 5

<i>Specific objectives</i>	<i>Milestones</i>	<i>Impact</i>	<i>Feasibility</i>
Objective 5: Reform agricultural education			
More interactive learning in the function of creating innovation	Review and update of educational curricula	5	5
	Introduce more practically and creative oriented learning	5	4
	Fulfilment of technical preconditions for practical teaching	5	3
Improve qualifications of educators	Combining research and teaching among teaching staff	5	4

Objective 6

<i>Specific objectives</i>	<i>Milestones</i>	<i>Impact</i>	<i>Feasibility</i>
Objective 6. Strengthening the capacities of Agricultural Extension Service and dissemination of research, knowledge and technologies			
Improve technical and human capacities of Agricultural Extension Service	Strengthening the technical capacity of the public Agricultural Extension Service	6	3
	Regular training and licensing of advisors	5	4
More interactive Agricultural Extension Service	Enlarge cooperation between public and private agricultural extension service	5	4
	Enhance interactions between advisors and farmers	6	4
Research knowledge in the function of extension services	Interconnection of advisors and researchers	5	4
Greater availability and visibility of advisory services	Digitalization of scientific knowledge and extension services	5	4

Objective 7

<i>Specific objectives</i>	<i>Milestones</i>	<i>Impact</i>	<i>Feasibility</i>
Objective 7. Encouraging the transfer of new technologies and innovations into the agribusiness sector			
Accelerate the dissemination of the results of scientific research and new technologies	Establishment of demo farms and other forms of R&T transfer demonstrators	5	4
	In the country and cross-country best practice sharing visits and networks	5	4
Increase the rate of application of new technologies and innovations	Increase subsidies for on-farm investments and transfer of new technologies and innovations	7	5
	Leveraging additional grant support for on-farm investment	6	4
	Ensuring credit support for on-farm investment	6	5
Create a more favourable environment for transfer of new technologies and innovations	Improving business soft infrastructure for the agribusiness sector	5	4
More own investment in R&D	Increase business sector investments in R&D research	5	3

Thinking questions (instead of conclusions)

1. How to connect the fragments of the existing system of knowledge transfer and innovation into a more functional AKIS system?
2. Who will initiate AKIS foundation (the Ministry of Science or the Ministry of Agriculture) and who will follow up AKIS outreach?
3. How ready are all AKIS stakeholders to change (so that AKIS Action Plan does not remain just scientific fiction!)?