

European Regional Focal Point for Animal Genetic Resources www.animalgeneticresources.net						
Key recommendation 1:						
2.1.1.1 Improve the quality and frequency of updating EFABIS through close collaboration between National Coordinators, breeding organisations and gene banks.						
Action	Indicator	Spatial dimension	Responsible actors			
	Annual updates of EFABIS and data completeness / EFABIS is fully compliant with FAIR principles	National/ European	National Coordinator/ ERFP WG Docu			

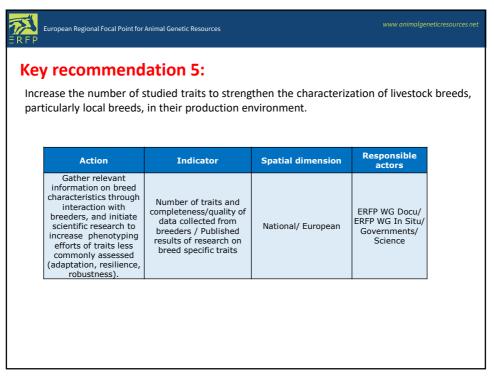
RFP	European	Regiona

Key recommendation 2:

Increase the proportion of inventoried AnGR that are characterized and evaluated using genomic and phenotypic techniques, and – if appropriate – make characterization data publicly available.

Action	Indicator	Spatial dimension	Responsible actors
Promote genomic and phenotypic characterization, genetic evaluation, data exchange and facilitate stakeholder access	Validated methods and guidelines / Proportion of inventoried AnGR that are characterized and evaluated / Weblinks publicly accessible data	National/ European	EURC-EAB / Interbull/ Governments/ National Coordinators/ ERFF WG Docu/ Science

KEP Key Fur tre	•			nitor the sta	
	Action	Indicator	Spatial dimension	Responsible actors	
	Implement SDG indicators 2.5.1 and 2.5.2	FAO indicators 2.5.1 and 2.5.2	National/ European/ Global	Governments/ National Coordinators/ ERFP WG Docu / ERFP WG Ex Situ/ ERFP WG In Situ	
	Review existing indicators, harmonise and implement relevant breed risk status indicators at European level	Report on relevant indicators to assess breed status, trends and threats	National/ European	EURC-EAB/ ERFP WG Docu/ National Coordinators/ Governments	





Key recommendation 6:

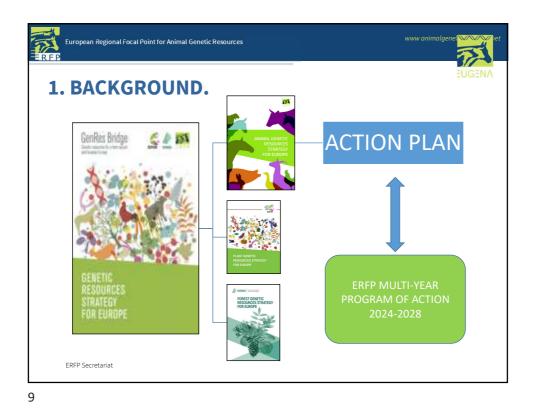
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Boost the development and implementation of sustainable breeding programs, including pedigree and performance recording, genetic evaluation and maintenance of within-breed genetic variation for both transboundary and local breeds.

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Action	Indicator	Spatial dimension	Responsible actors
Define sustainable breeding programs and propose methods and indicators for assessing breeding programs	Indicators and guidelines for implementing and assessing breeding programs	National /European	EURC-EAB/ Governments/ National Coordinators/ ERFP WG In Situ/ ERFP WG Docu / Interbull / EFFAB
Regular assessment of all breeding programs (local and transboundary breeds)	Number of officially recognized breeding programs assessed.	National / European	EURC-EAB/ Governments/ ERFP WG In Situ/ ERFP WG Docu Info/ Interbull/ EFFAB





EXPP Secretariat

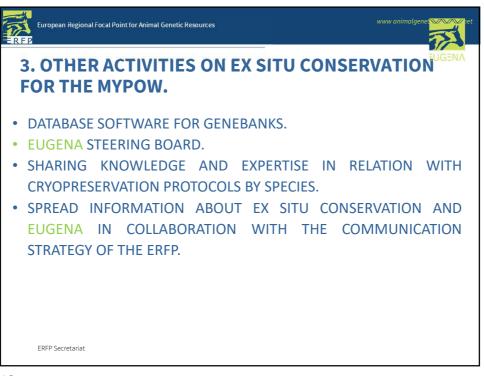
MENDATIONS	ON EX S	TU	EUGENA
	nventory of all	ex situ conservati	on facilities.
INDICATOR	SPATIAL DIMENSION	RESPONSIBLE ACTOR	MYPOW (YES/NOT)
	European	EUGENA/ ERFP WG Ex Situ / EURC-EAB/ Governments	YES
situ Ex situ in vivo collections inventory	European / National	EUGENA / Governments/ ERFP WG Ex Situ/ <mark>ERFP WG In</mark> Situ??	YES
	ON. Itain an official European in INDICATOR The or ex EUGENA network Situ Ex situ in vivo	ON. INDICATOR SPATIAL DIMENSION the or ex sin Official recognition of EUGENA network European situ Ex situ in vivo European /	ON. INDICATOR SPATIAL DIMENSION RESPONSIBLE ACTOR the or ex s in Official recognition of EUGENA network European EUGENA/ ERFP WG Ex Situ / EURC-EAB/ Governments situ Ex situ in vivo collections inventory European / National EUGENA / Governments/ ERFP WG Ex Situ/ERFP WG In

• • •	int for Animal Genetic Resourc			
2. KEY RECO CONSERVAT		TIONS ON	EX SITU	
. Stimulate genebar ore collections.	nks in Europe to e	ensure the long-	term conservation	of AnGR through
ACTION	INDICATOR	SPATIAL DIMENSION	RESPONSIBLE ACTOR	MYPOW (YES/NOT)
core collections and regular updates of the material stored in the breeding		National / European	National Coordinators/ National actors	NO
	Number of breeds subsidized for ex situ conservation	National	Governments	

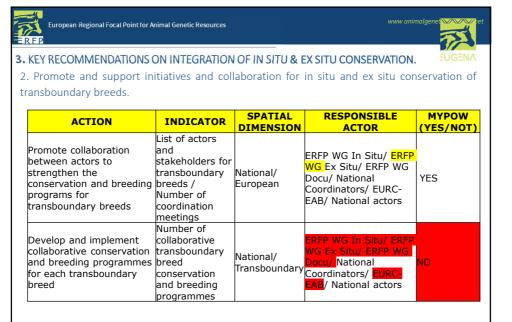
European Regional Focal P	oint for Animal Genetic Resourc			v animalgenet
CONSERVA				
 Promote specific ntended to be store 	0		al health regulation and distribution.	ns for material
ACTION	INDICATOR	SPATIAL DIMENSION	RESPONSIBLE ACTOR	MYPOW (YES/NOT)
derogations in the national animal	Published guidelines for	National / European	ERFP WG Ex Situ / EURC-EAB / NCA's	YES
derogations in the national animal	Number of countries implementing the derogation	National	Governments / National Coordinators/ NCA's	NO
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2. KEY RECOMMENDATIONS ON EX SITU CONSERVATION.							
4. Develop and expa and implement qualit	7.1	stems			anks		
ACTION	INDICATOR	SPATIAL DIMENSION	RESPONSIBLE ACTOR	MYPOW (YES/NOT)			
Encourage countries and genebanks to become member of EUGENA, the pan- European database of nationally recognized genebanks	Number of countries and breeds with information in EUGENA	European / National	EUGENA / ERFP WG Ex Situ / National Coordinators	YES			
Promote implementation of QMS by gene banks and organise peer review system to benchmark genebank operations.	Number of genebanks which have implemented QMS	National / European	ERFP WG Ex Situ / National Coordinators	YES			

European Regional Focal Po EE 2. KEY RECC CONSERVAT				ww.animalgenet
			ration and implement	
ACTION	INDICATOR	SPATIAL DIMENSION		MYPOW (YES/NOT)
Initiate scientific research collaboration and research projects on ex situ conservation	Publicly available, validated cryopreservation methods and guidelines / Number of projects funded	European / National	Governments / EU / Science / ERFP WG Ex Situ	YES
conservation	projects funded			



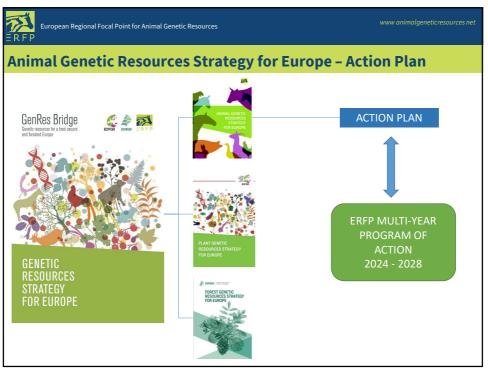
European Regional Focal Point for Ar	imal Genetic Resources		www.animalge	net
3. KEY RECOMMENDATIONS C	ON INTEGRATION OF	IN SITU & E	X SITU CONSERVATION.	EUGENA
1. Develop and implem	ent national strate	egies and	action plans for integra	ated and
complementary in situ and	ex situ long term o	conservatio	n strategies for AnGR, en	gaging all
relevant public and private s	takeholders in the p	rocess.		
ACTION	INDICATOR	SPATIAL DIMENSION	RESPONSIBLE ACTOR	MYPOW (YES/NOT)
integrated and complementary in			National Coordinators/ ERFP WG In Situ / ERFP WG Ex Situ	YES
Develop guidelines for better integration and complementarity of ex situ and in situ conservation strategies for the conservation of endangered breeds and the genetic diversity within those breeds	Guidelines for national strategies and action plans	National/ <mark>Eur</mark> opean	National Coordinators/ ERFP WG In Situ / ERFP WG Ex Situ	YES
Design and implement conservation and breeding programmes with the integration	Númber of conservation and breeding programmes approved with both in situ and ex situ conservation activities	National	Governments/ National Coordinators/ National actors/ ERFP WG In Situ/ ERFP WG Ex Situ/ EURC-EAB	NO
Establish multi-stakeholder committee to oversee the implementation of the national strategy	Number of national multi-stakeholder committees and number of meetings		Governments/ National Coordinators/ National actors	NO

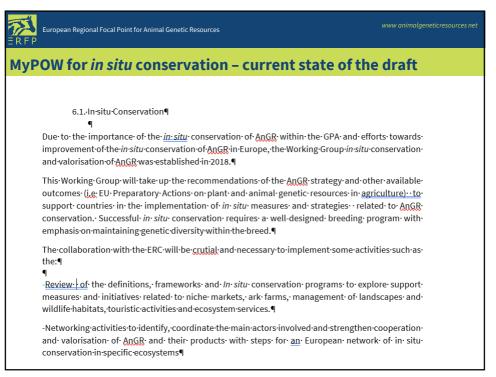


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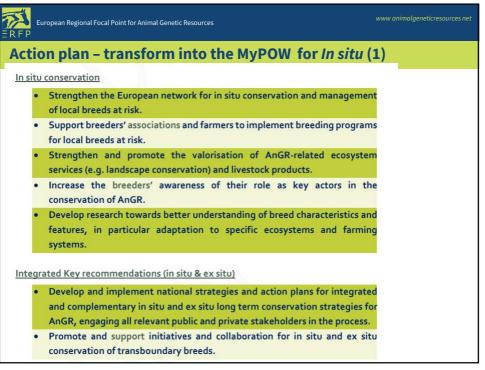
	European Regional Fo	cal Point for Animal Genet	ic Resources		www.animalgenet
1 p	. Boost the develo edigree and perfo	opment and im ormance record	TAINABLE USE AND G plementation of su ling, genetic evaluat ndary and local bree	stainable breeding tion and maintena	programs, includi
	ACTION	INDICATOR	SPATIAL DIMENSION	RESPONSIBLE ACTOR	MYPOW (YES/NOT)
	programs and propose methods and indicators for assessing	Indicators and guidelines for implementing	National /European	EURC-EAB/ Governments/ National Coordinators/ ERFP WG In Situ/ ERFP WG Docu / Interbull / EFFAB/EX SITU?	YES
	assessment of all breeding programs (local and transboundary	Number of officially recognized breeding programs assessed.	National / European	EURC-EAB/ Governments/ ERFP WG In Situ/ ERFP WG Docu Info/ Interbull/ EFFAB <mark>/EX SITU?</mark>	YES







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	Number	Recommendation of AnGR Strategy	Chapter of AnGR Strategy	Action	Related Actions	Indicator	Spatial dimension	Responsible
Action Plan is developed and	2.1.1.1	Emprove the quality and frequenc of updating EFABS intrough close collocation between National Coordination, smeding organizations and gene banks.	Monitoring / Characterisation	Regular updating and storage of breed related data in EFABIS/DAD-IS according to the FAIR principles		Annual updates of EFABIS and data completeness / EFABIS is fully compliant with FAIR principles	National/ European	National Coordinator/ WG Docu
final approval is need from your side!!	2.1.2.1	Increase the proportion of investoried AGR that are characterized and evaluated using promis and phenotypic techniques, and — if appropriate reaks characterization data publicly available.	Monitoring / Characterisation	Initiate scientific research and collaboration, that contributes to better characterization of genetic resources in Europe	2.1.2.2 & 2.1.5.1	Number of national/ EU funded research projects that include characterization of AnGR	National/ European	Government National Coordinators Science/ EC
Ad hoc group	2.1.2.2	Snoreaas the proportion of Investoried ArGR their en Unvestoried and evaluated using process and preservyis escheraes, and - # appropriate reaks chemisterization date publicly available.	Monitoring / Characterisation	Promote genomic and phenotypic characterization, genetic evaluation, data exchange and facilitate stakeholder access	2.1.2.1 & 2.1.5.1	Validated methods and guidelines / Proportion of inventoried AnGR that are characterized and evaluated / Weblinks publicly accessible data	National/ European	EURC-EAB / Interbull/ Governmen National Coordinator ERFP WG D Science
collect any comments,	2.1.3.1	Further develop and implement indicators to monitor the status of, trends is and threads to the conservation and sustainable use of ArGR.	Monitoring / Characterisation	Implement SDG indicators 2.5.1 and 2.5.2		FAO indicators 2.5.1 and 2.5.2	National/ European/ Global	Governmen National Coordinator ERFP WG D
proposals today and 1 week after	2.1.3.2	Further develop and implement indicators to monitor the status of, thends in and threats to the conservation and sustainable use of AnGR.	Monitoring / Characterisation	Review existing indicators, harmonise and implement relevant breed risk status indicators at European level		Report on relevant indicators to assess breed status, trends and threats	National/ European	EURC-EAB/ WG Docu/ National Coordinator Governmen
the end of this meeting!!	2.1.4.1	Shiprove Inter-operability of population and game bank data with other minuset databases.	Monitoring / Characterisation	Assess needs, user perspectives, and develop API's for data exchange		Report on needs and perspectives to improve interoperability	National/ European	ERFP WG D ERFP WG In ERFP WG E FAO
	2.1.5.1	Increase the number of shalled track to almosphen the breake, performance in the test breake, and the production environment.	Monitoring / Characterisation	Gather relevant information on breed characteristics through interaction with breeders, and initiate scientific research to increase phenotyping efforts of traits less commonly assessed (adaptation, resilience, robustness).	2.1.2.1 & 2.1.2.2	Number of traits and completeness/quality of data collected from breeders / Published results of research on breed specific traits	National/ European	ERFP WG D ERFP WG In Governmeni Science
	2.2.1.1	Boost the development and implementation of sustainable breading programs, including pedigras and performances and performances of additional performance of additional performance of additional performance performance of a second performance of a second performance performance of a second performance of a second performance performance of a second performance of a second perf	Sustainable use and genetic improvement	Define sustainable breeding programs and propose methods and indicators for assessing breeding programs	2.2.1.2 & 2.3.4.2	Indicators and guidelines for implementing and assessing breeding programs	National /European	EURC-EAB/ Governmen National Coordinator ERFP WG II ERFP WG D Interbull / B



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LE MYPOW (YES/NOT)
^{RFP} YES – more general
YES – need RFP to be RC- rephrased
R

Key recommendation 2:							
Support breeders' associations and farmers to implement breeding program							
for local breeds at ris	sk.						
		SPATIAL	RESPONSIBLE	MYPOW			
ACTION	INDICATOR	DIMENSIO					
	INDICATOR	DIMENSIO N	ACTOR	(YES/NOT)			
ACTION Define sustainable breeding programs and propose methods and indicators for assessing preeding programs of local preeds at risk.	INDICATOR Guidelines	National/					

 Strengthen and promote the valorisation of AnGR-related ecosyste services (e.g. landscape conservation) and livestock products. 						
		CDATIAL				
ACTION	INDICATOR	SPATIAL DIMENSIO N	RESPONSIBLE ACTOR	MYPOW (YES/NOT)		
Develop initiatives with PGR and FGR community on ecosystem services and cross-links between domains and other connected policies	Number of initiatives (projects, common actions, papers)	European /	K-OVERNMENTS /	YES – really importantat		
Promote (labelling of) local products from breeds in extensive/traditional production systems and associated ecosystem services	Number of labels or quality schemes linked to specific breeds - refrase	European / national	National Coordinators/ Gover	YES – overview cases		

R	European Regional Focal Point for Animal Genetic Resources www animalgeneticresources no wwww animalgeneticresources no www an								
	Key recommendation 4:								
•	Increase the breeders' awareness of their role as key actors in the conservation of AnGR.								
	ACTION	INDICATOR	SPATIAL DIMENSIO N	RESPONSIBLE ACTOR	MYPOW (YES/NOT)				
ļ	Empower breed societies and promote farmer and breeder participation in conservation and	INDICATOR Number of initiatives that strengthen breed societies and breeders role in the conservation of AnGR	DIMENSIO N European / national	ACTOR Governments / National Coordinators/ ERFP					
ļ	Empower breed societies and promote farmer and breeder participation in conservation and	Number of initiatives that strengthen breed societies and breeders role in the	DIMENSIO N European / national	ACTOR Governments / National Coordinators/ ERFP WG In Situ	(YES – YES – organize				
ļ	Empower breed societies and promote farmer and breeder participation in conservation and	Number of initiatives that strengthen breed societies and breeders role in the	DIMENSIO N European / national	ACTOR Governments / National Coordinators/ ERFP WG In Situ	(YES – VES – organize				

 European Regional Focal Point for Animal Genetic Resources Key recommendation 5: Develop research towards better understanding of breed characteristics ar features, in particular adaptation to specific ecosystems and farmin systems. 						
systems.	Systems. Action INDICATOR SPATIAL DIMENSIO ACTOR RESPONSIBLE ACTOR MYP					
	Number of national and		Governments / National	YES -		
	Number of national and		Governments /	-		
research projects and other	international research	national	Coordinators/ Science/ ERFP	specify characteriz ation		

European Regional Focal Point for Animal Genetic Resources R F P Key recommendation 1 for integrated <i>in situ</i> and ex situ:						
 Develop and implement national strategies and action plans for integrated and complementary in situ and ex situ long term conservation strategies for AnGR, engaging all relevant public and private stakeholders in the process. 						
ACTION	INDICATOR	SPATIA L DIMENS ION	RESPONSIBLE ACTOR	MYPOW (YES/NOT)		
Design and implement conservation and breeding programmes with the integration of in situ and ex situ activities	Númber of conservation and breeding programmes approved with both in situ and ex situ conservation activities	National	Governments/ National Coordinators/ National actors/ ERFP WG In Situ/ ERFP WG Ex Situ/ EURC-EAB			
Develop guidelines for better integration and complementarity of ex situ and in situ	Guidelines for national		National Coordinators/ ERFP WG In Situ / ERFP WG Ex Situ	Need to be refrased and included in the MyPOW		
Design and implement conservation and breeding programmes with the integration of in situ and ex situ activities	Númber of conservation and breeding programmes approved with both in situ and ex situ conservation activities		Governments/ National Coordinators/ National actors/ ERFP WG In Situ/ ERFP WG Ex Situ/ EURC-EAB			

ERFP							
Key recommendation 2 for integrated in situ and ex situ:							
 Promote and support initiatives and collaboration for in situ and ex situ conservation of transboundary breeds. 							
ACTION	INDICATOR	SPATIAL DIMENSIO N	RESPONSIBLE ACTOR	MYPOW (YES/NOT)			
Promote collaboration between actors to strengthen the conservation and breeding programs for transboundary breeds	List of actors and stakeholders for transboundary breeds / Number of coordination meetings	National/ European	ERFP WG In Situ/ ERFP WG Ex Situ/ ERFP WG Docu/ National Coordinators/ EURC-EAB/ National actors	??YES??			
Develop and implement collaborative conservation and breeding programmes for each transboundary breed	Number of collaborative transboundary breed conservation and breeding programmes	National/ Transboundary	ERFP WG In Situ/ ERFP WG Ex Situ/ ERFP WG Docu/ National Coordinators/ EURC-EAB/ National actors	??YES??			

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ey recommendation 1 for sustainable use and genetic improvement:							
 Boost the development and implementation of sustainable breeding programs, including pedigree and performance recording, genetic evaluation and maintenance of within-breed genetic variation for both transboundary and local breeds. 							
ACTION	INDICATOR	SPATIAL DIMENSION	RESPONSIBLE ACTOR	MYPOW (YES/NOT)			
breeding programs and propose methods and indicators for assessing breeding	Indicators and guidelines for implementing and assessing breeding programs	National /European	EURC-EAB/ Governments/ National Coordinators/ ERFP WG In Situ/ ERFP WG Docu / Interbull / EFFAB/EX SITU?	¿YES?			
Regular assessment of all breeding programs (local and transboundary breeds)	Number of officially recognized breeding programs assessed.	National / European	EURC-EAB/ Governments/ ERFP WG In Situ/ ERFP WG Docu Info/ Interbull/ EFFAB/EX SITU?	¿YES?			

