

IMAGE

Innovative Management of Animal Genetic Resources

Grant Agreement Number: 677353

Horizon 2020 FRAMEWORK PROGRAMME

TOPIC: MANAGEMENT AND SUSTAINABLE USE OF GENETIC RESOURCES

Topic identifier: SFS-07b-2015

Type of Action: Research and Innovation Action (RIA)

DELIVERABLE D7.14

Deliverable title: Project newsletter n°4, n°5, n°6 and n°7

Abstract: The 4th, 5th, 6th and 7th issue of the electronic newsletter have been produced for distribution to IMAGE partners, Advisory Board members and stakeholder mailing list. They were shared through IMAGE website and social media channels in pdf format. It contains information on project activities, project progress, scientific articles, events, publications and profiles of the project partners. Typology of stakeholders shows a large range of profiles.

Due date of deliverable: Month 48

Actual submission date: Month 48

Start date of the project: March 1st, 2016

Duration: 48 months

Organisation name of lead contractor: ULisboa

Contributors: EFFAB, INRA, BOKU, DLO, UGOE

Dissemination level: [PU](#)¹

Revision N°: 1

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[PU](#) Public (must be available on the website)

[PP](#) Restricted to other programme participants (including the Commission Services)

[RE](#) Restricted to a group specified by the consortium (including the Commission Services) (precise to whom it should be addressed within IMAGE consortium)

[CO](#) Confidential, only for members of the consortium (including the Commission Services)

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Executive Summary

Background	<p>This deliverable was aimed at providing the project with the 4th, 5th, 6th and 7th issue of the electronic newsletter, meant to inform all interested parties about the IMAGE project and the activities undertaken, and to publicise the latest project developments. They also inform the stakeholders of the website address and how they can contact the project to obtain further information via other social media channels.</p>
Objectives	<p>This deliverable is designed to combine the information generated in the other WPs and make it available in the most effective manner to stakeholders, decision-makers, scientists and the general public. Main objective of the IMAGE newsletter is to disseminate new knowledge integrating genetic, technological and socio-economic aspects, to optimise the conservation and sustainable utilisation of livestock genetic resources in the EU to the stakeholders.</p>
Methods	<p>IMAGE Newsletter 4, 5, 6 and 7 were designed as a high-quality pdf file in A4 document format (size 21 x 29.7 cm) suitable for commercial printers. They have been widely distributed to IMAGE stakeholders. A typical outline includes an editorial from the coordinator, focus on several new results, profiles of IMAGE partners, publications. Newsletters were published at M33, M39, M43, M45. All 4th, 5th, 6th and 7th newsletters also include the communication contact information and acknowledgment of the EU contribution.</p>
Results & implications	<p>The final format and articles were decided by successive improvements of an originally proposed draft. The IMAGE Newsletters are initially mailed to 538 stakeholders including the project's partners. The newsletters are published on IMAGE's website:</p> <p>Newsletter 4: http://www.imageh2020.eu/Newsletter/Newsletter4_final.pdf Newsletter 5: http://www.imageh2020.eu/Newsletter/Newsletter5.pdf Newsletter 6: http://www.imageh2020.eu/Newsletter/Newsletter6.pdf Newsletter 7: http://www.imageh2020.eu/Newsletter/Newsletter7_final.pdf</p> <p>The link to the newsletters has been distributed with an email informing about the release of the IMAGE Newsletter issue 4, 5, 6 and 7 and its contents via an email distribution platform (MailChimp). Furthermore, it is also available via the IMAGE website (www.imageh2020.eu) and different social media channels of IMAGE, EFFAB, FABRE-TP and other partner organizations.</p> <p>In the project, only 4 newsletters were foreseen to be published. However, we have issued 7 newsletters in total during the project.</p>

1- Newsletters content

This deliverable includes the information about newsletters 4, 5, 6 and 7. In general, the newsletters contain project activities, project progress, scientific articles, events, publications and profiles of the project partners. The detailed content of the 4th, 5th, 6th and 7th newsletters are presented below.

Newsletter 4 includes:

- the editorial and information on:
 - i) IMAGE at SAVE-DAGENE meeting and IMAGE session at Intergovernmental Working Group on Animal Genetic Resources for Food and Agriculture,
 - ii) “Ethical aspects of gene banks for livestock— stakeholder perspectives”,
 - iii) “Everything you need to know about genetic diversity in one course”,
 - iv) “Comparison of the MicroRNA Expression Profiles of Male and Female Avian Primordial Germ Cell Lines”,
 - v) “In-ovo Genotyping of Chicken using DNA Isolated from Allantoic Fluid”,
 - vi) “Optimizing ex situ genetic resource collections for European livestock conservation”,
 - vii) Common Dissemination Booster,
- Profiles of the WP5 (Alessandra Stella, IBBA) and WP7 leader (Prof. Luis T. Gama, University of Lisbon),
- Latest publications,
- One video from Sipke Joost Hiemstra (IMAGE WP2 Leader) on “Gene bank functioning”, and another video from Elisabeth Blesbois (WP3 Leader) on “Reproductive technologies for gene banking”.

This newsletter was issued on M33.

Newsletter 5 includes:

- the editorial
- flyers of the IMAGE session and IMAGE-Common Dissemination Booster Fitter Livestock Farming session at EAAP 2019
- information on
 - i) IMAGE Course winning Education Prize,
 - ii) 4th IMAGE Dialogue Forum Access and Benefit Sharing (ABS) Rules,
 - iii) IMAGE at EFFAB-FABRE TP AGM 2019,
 - iv) Common Dissemination Booster (CDB) logo,
 - v) “A questionnaire-based survey of the impact and use of cryobanks in the context of the IMAGE project”,
 - vi) „MoBPS (Modular Breeding Program Simulator)”,
- Profile of Irina Carpusca (INRA Transfert) and Harmen Doekes (WUR)
- Latest publications,
- 2 videos from the FAO event by Michèle Tixier-Boichard and Sipke Joost Hiemstra

This newsletter was issued on M39.

Newsletter 6 includes:

- the editorial
- the flyer for the workshop co-organized by CDB Fitter Livestock Farming Cluster and Animal Task Force,
- information on
 - i) IMAGE Session at EAAP 2019,
 - ii) IMAGE highlights presented at Wageningen Symposium on Cryopreservation and Reproductive Technologies,
 - iii) IMAGE's Upcoming Courses and Training,
 - iv) 4th IMAGE Dialogue Forum Access and Benefit Sharing (ABS) Rules,
 - v) BioSamples for IMAGE,
 - vi) "Introgression of Blue Eggshell Color from a Gene Bank Collection into a White Leghorn Breeding Line",
- Profile of Dominic Moran (University of Edinburgh) and Chiara Bortoluzzi (WUR)
- Latest publications,
- One video about "Fitter Livestock Farming" and another video about IMAGE-InjectTool demonstration.

This newsletter was issued on M43.

Newsletter 7 includes:

- the editorial (IMAGE at ATF 2019 and Hot Spots of IMAGE in its final phase)
- the flyer of the final meeting of IMAGE
- information on
 - i) IMAGE was Present at ATF-Fitter Livestock Farming Workshop,
 - ii) IMAGE Courses Completed with Success,
 - iii) IMAGE at GenRes Bridge website, i
 - v) "Investigation of the Guinea fowl and domestic fowl hybrids as potential surrogate hosts for avian cryopreservation programmes",
 - v) "Persistence of small populations depend on the type of population contraction",
 - vi) "Not all inbreeding is (equally) depressing",
- Latest publications,
- Profile of Paul Boettcher (FAO) and Maria Rosa Lanari, Instituto Nacional de Tecnología Agropecuaria (INTA)
- Video of Michèle Tixier-Boichard presenting the IMAGE project at ATF - Fitter Livestock Farming Workshop and video of the interview with Michèle Tixier-Boichard

This newsletter was issued on M45.

2 Newsletters impact

On chart 1 the “open rate” shows how many times the newsletter was opened by the subscribers. The “click rate” indicates how many times the subscribers clicked at least one link in the newsletter. Chart 2 shows the download rate of the newsletters.

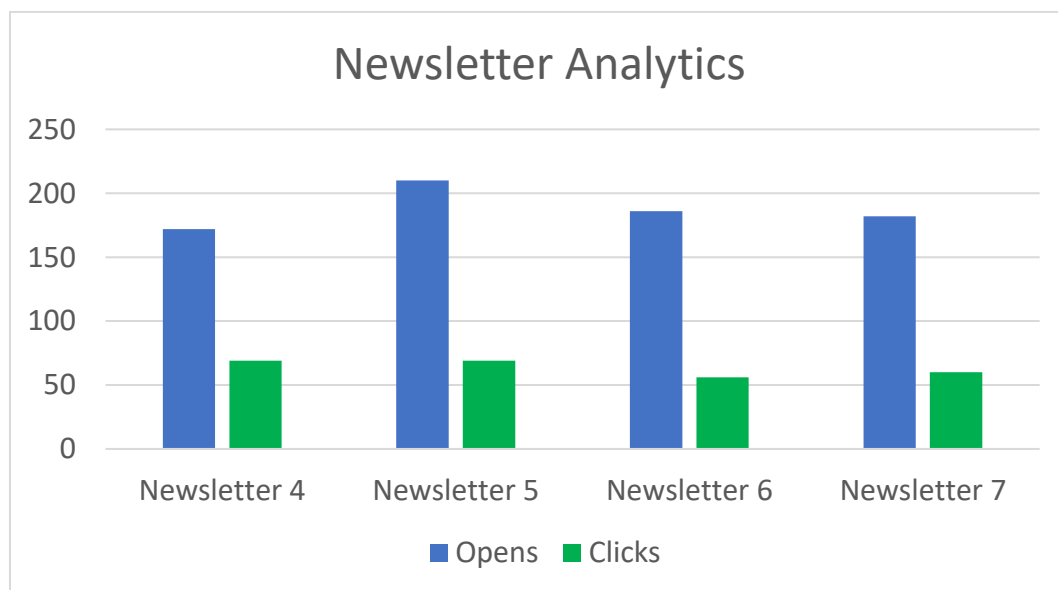


Chart 1 Newsletter analytics

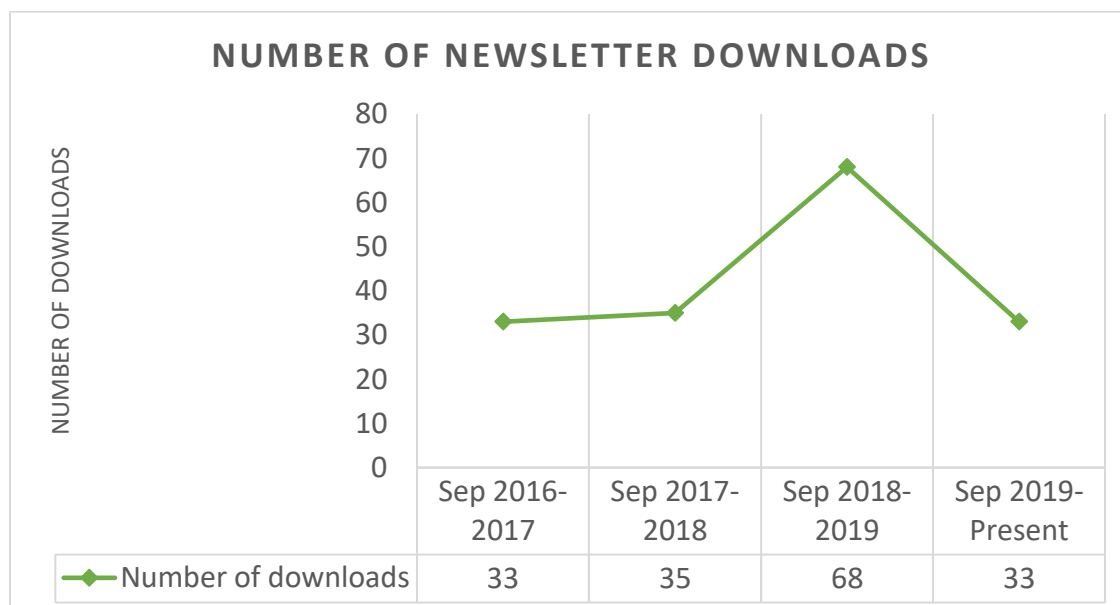


Chart 2 Number of newsletter downloads

Table 1 shows the total number and the diversity of stakeholder profiles corresponding to 7 categories. IMAGE newsletters have been shared with the gene bank managers of ERFP network through IMAGE partner WR (chair of ERFP) and IDELE (secretariat of ERFP) in addition of the 8 gene bank managers which are direct subscribers.

Stakeholder category	Number	%
Education and Research	139	51
Animal breeding organizations	46	17
Policy makers	25	9
Breed associations (conservation)	24	9
Extension services for livestock	22	8
Biotech companies	9	3
Gene bank managers	8	3
Total	273	100

Table 1 Total number and percentage of each stakeholder category

Policy makers represent a significant proportion of subscribers of IMAGE newsletter.

Annex 1. Stakeholders' list

Company	Stakeholder category	Country	Number of subscribers
Aarhus University	Education and Research	Denmark	5
ADT- German Animal Breeders Federation	Breed associations	Germany	2
AFRD - Association for Farmers Rights Defence	Extension services for livestock	Georgia	1
Agricultural Research Institute	Education and Research	Cyprus	2
Agricultural University Plovdiv	Education and Research	Bulgaria	1
AGROSAVIA	Education and Research	Colombia	2
AHDB - Agriculture and Horticulture Development Board	Extension services for livestock	UK	8
AI Services Northern Ireland LTD	Animal breeding organizations	UK	1
Ain Shams University	Education and Research	Egypt	1
AIT - Athlone Institute of Technology	Education and Research	Ireland	1
ALLICE - National Union of Cooperatives for Animal Insemination	Animal breeding organizations	France	4
Alta Genetics	Animal breeding organizations	The Netherlands	1

Amaltheia - Greek Society for the protection and conservation of indigenous breeds of domestic animals	Breed associations	Greece	3
Animal Production and Pedigree Breeding Division, Ministry of Agriculture	Policy makers	Latvia	1
Animal Research Institute of IRAN (ASRI)	Education and Research	Iran	1
Ankara University, Faculty of Veterinary Medicine	Education and Research	Turkey	3
ANPS - Spanish Association of Select Pig Growers	Breed associations	Spain	1
APRI - Animal Production Research Institute	Education and Research	Egypt	8
AquaGen - Aquaculture farming	Extension services for livestock	Norway	2
Arche Austria	Breed associations	Austria	1
Armenian National Agrarian University	Education and Research	Armenia	2
ARS - Agricultural Research Service- USDA	Education and Research	USD	1
Association FERME	Breed associations	France	1
Association of Agricultural Engineers of Macedonia	Extension services for livestock	North Macedonia	1
Association of Old Danish Livestock Breeds	Breed associations	Denmark	2
Associazione R.A.R.E. Razze Autoctone a Rischio di Estinzione	Breed associations	Italy	1
ASTA - Administration des Services Techniques de l'Agriculture	Policy makers	Luxembourg	1
ATF - Animal Task Force	Animal breeding organizations	France	3
AVANTEA - Animal reproduction and advanced biotechnology	Biotech companies	Italy	1
AVEC Poultry	Animal breeding organizations	Belgium	1
Aviagen - Broiler Breeders	Animal breeding organizations	UK	7
AWE - Walloon breeding association	Breed associations	Belgium	2
Babcock University	Education and Research	Nigeria	1
BBSRC - Biotechnology and Biological Sciences Research Council	Education and Research	UK	1

Benchmark BG	Extension services for livestock	UK	2
BH Telecom	Extension services for livestock	Bosnia and Herzegovina	1
BLW - Bundesamt für Landwirtschaft	Policy makers	Switzerland	1
BMEL - Federal Ministry of Food and Agriculture	Policy makers	Germany	2
BOBS - Breeders of old Breeds of Serbia	Breed associations	Serbia	1
BOKU - University of Natural Resources and Life Sciences	Education and Research	Austria	8
BPA - British Pig Association	Breed associations	UK	1
Braunvieh - Brown Cattle breeders	Animal breeding organizations	Switzerland	1
Breeds of Origin	Breed associations	Malta	1
Cachena Breeders Association	Breed associations	Portugal	1
Cairo University	Education and Research	Egypt	1
Cardiff University	Education and Research	UK	1
Cattle Breeders' Association of Aydin	Breed associations	Turkey	1
CCSI - Canadian Centre for Swine Improvement	Animal breeding organizations	Canada	1
Chamber of Agriculture and Forestry of Slovenia	Policy makers	Slovenia	2
Chang Gung University	Education and Research	Taiwan	1
Cherry Valley - Breeder of Pekin ducks	Animal breeding organizations	UK	2
Cobb Poultry	Animal breeding organizations	UK	7
Cogent - Sexed semen	Animal breeding organizations	UK	4
Colegio de Médicos Veterinarios	Education and Research	Costa Rica	1
Complutense University of Madrid	Education and Research	Spain	6
CONAFE - Confederación de Asociaciones de Frisona Española	Animal breeding organizations	Spain	1
ConSDABI	Biotech companies	Italy	1
ConsultWickham - Animal breeding consultation	Animal breeding organizations	Ireland	1
CRAG - Centre for Research in Agricultural Genomics	Education and Research	Spain	1

CREA - Council for Agricultural Research and Economics	Policy makers	Italy	1
CRV - Herd improvement company	Education and Research	The Netherlands	5
Culmarex - Aquaculture	Animal breeding organizations	Spain	1
DAGENE - Association for Conservation of Animal Breeds in the Danubian Region	Breed associations	Hungary	1
Danbred - Pig breeding company	Animal breeding organizations	Denmark	1
Defra - Livestock and Livestock Products Team Department for Environment, Food & Rural Affairs	Policy makers	UK	1
Department of Agriculture and Fisheries	Policy makers	Belgium	1
Department of Agriculture, Food and the Marine	Policy makers	Ireland	2
Department of Animal Science, Faculty of Agronomy University of Zagreb	Education and Research	Croatia	1
Department of Livestock Production and Quality Regulations of Animal Products Ministry of Agriculture and Food Industry	Policy makers	Moldova	1
Department of Livestock Production Biotechnical Institute, University of Montenegro	Education and Research	Montenegro	1
Department of Primary Industries and regional development	Policy makers	Australia	1
Department of Zootechnics National Academy of Agrarian Sciences	Education and Research	Ukraine	1
DGAV - National Authority for Animal Health	Policy makers	Portugal	1
EAAP - European Federation for Animal Science	Education and Research	Italy	3
Eco Ruralis - Agriculture	Extension services for livestock	Romania	1
EFFAB - European Forum of Farm Animal Breeders	Animal breeding organizations	The Netherlands	7
EMBL-EBI - European Bioinformatics Institute	Education and Research	UK	4
EPFL - Ecole polytechnique fédérale de Lausanne	Education and Research	Switzerland	2
Erciyes University Veterinary Faculty	Education and	Turkey	1

	Research		
Estonian University of Life Sciences, Institute of Veterinary Medicine and Animal Sciences	Education and Research	Estonia	2
ETH Zurich University	Education and Research	Switzerland	1
Ethiopian Biotechnology Institute	Biotech companies	Ethiopia	1
Eurogene - European Holstein breeders	Animal breeding organizations	Ireland	1
European Commission	Policy makers	Belgium	3
EVOLUTION-XY - Animal genetics	Animal breeding organizations	France	1
Executive Agency for Selection and Reproduction in Livestock Breeding	Gene bank managers	Bulgaria	1
Faba - Cattle breeders	Animal breeding organizations	Finland	1
Faculty of Agricultural Sciences and Food	Education and Research	North Macedonia	1
Faculty of Agriculture and Food Sciences	Education and Research	Bosnia and Herzegovina	1
FAO	Policy makers	Italy	5
FBF - Association for Bioeconomy Research	Animal breeding organizations	Germany	2
FBN - Leibniz Institute for Farm Animal Biology	Education and Research	Germany	1
FCEL - France Conseil Elevage	Animal breeding organizations	France	1
FEAGAS - Federación Española de Asociaciones de Ganado Selecto	Breed associations	Spain	2
Ferme Agropastorale	Extension services for livestock	France	1
FIGEN - Finnish supplier of boar semen and live pigs	Animal breeding organizations	Finland	3
FLI - Institute of Farm Animal Genetics	Education and Research	Germany	6
FVET - Facultad de Veterinaria	Education and Research	Uruguay	1
GEH - Gesellschaft zur Erhaltung alter und gefährdeter Haustierrassen	Breed associations	Germany	1
Gembloux Agro-Bio Tech	Biotech companies	Belgium	1
GENESUS Genetics	Animal breeding organizations	Canada	1
Geno - Norwegian Red breeding organization	Animal breeding organizations	Norway	2

Genus PIC	Animal breeding organizations	UK	11
Genzentrum - LMU Research Institution	Education and Research	Germany	2
Georgian National Association for Animal Production (GNAAP)	Animal breeding organizations	Georgia	1
Govind Ballabh Pant University	Education and Research	India	1
Grimaud - Genetic selection	Animal breeding organizations	France	5
Gutefaret - Gute sheep breeding	Gene bank managers	Sweden	1
HaGK - Haszonállat-génmegőrzési Központ	Gene bank managers	Hungary	3
Hellenic Agricultural Organization, Animal Science Research Institute	Education and Research	Greece	5
Hellenic Holstein Association	Breed associations	Greece	1
Hendrix Genetics - animal breeding company	Animal breeding organizations	The Netherlands	4
Hubbard Breeders	Animal breeding organizations	Belgium	1
IAHS - Institute for Animal Husbandry Systems, Breeding and Product Quality	Education and Research	Slovak Republic	1
IBBA CNR - Istituto di Biologia e Biotecnologia Agraria	Education and Research	Italy	1
ICBF - Irish Cattle Breeding Federation	Animal breeding organizations	Ireland	3
Icelandic Genetic Resource Center Icelandic Agricultural University	Education and Research	Iceland	1
IDELE - Institute De L'elevage	Education and Research	France	2
IFAPA - Institute for Animal Research	Education and Research	Spain	1
IFIP - Institut Du Porc	Education and Research	France	1
IGHZ - Institute of Genetics and Animal Breeding	Education and Research	Poland	2
ILRI/ University of Nottingham	Education and Research	UK	2
IMR Institute of Marine Research	Education and Research	Norway	2
IMV Technologies	Animal breeding organizations	France	1
INAT - National Agronomic Institute of	Education and	Tunisia	1

Tunisia	Research		
INIA - The National Institute for Agricultural and Food Research and Technology	Education and Research	Spain	7
INIAV - National Institute for Agricultural and Veterinary Research	Education and Research	Portugal	6
INRAE - Algeria	Education and Research	Algeria	2
INRAE - Morocco	Education and Research	Morocco	7
INRAE - National Research Institute for Agriculture, Food and Environment	Education and Research	France	31
INRAE Transfert	Education and Research	France	1
INRAT - National Agricultural Research Institute of Tunisia	Education and Research	Tunisia	1
INSEME - Italian genetics	Animal breeding organizations	Italy	1
Institute of Animal Science	Education and Research	Bulgaria	1
Institute of Animal Science Agriculture Research Organization (ARO), Ministry of Agriculture	Education and Research	Israel	1
INTA - National Agricultural Technology Institute	Education and Research	Argentina	4
IOWA STATE UNIVERSITY	Education and Research	USA	1
IRTA - Institute of Agrifood Research and Technology	Education and Research	Spain	3
Jordbruksverket - Swedish Board of Agriculture Division for international affairs and contingency planning	Extension services for livestock	Sweden	1
JSR Genetics - Pig genetics	Animal breeding organizations	UK	1
Kauno Kolegija/ University of Applied Sciences	Education and Research	Lithuania	1
KCHZ - National Animal Breeding Centre	Animal breeding organizations	Poland	1
KTN - Knowledge Transfer Network	Extension services for livestock	UK	1
KU Leuven	Education and Research	Belgium	3
L.K Ernst Federal Science Center for Animal Husbandry	Education and Research	Russia	1

Lala Lajpat Rai University of Veterinary and Animal Sciences	Education and Research	India	2
Lanzhou Veterinary research institute	Education and Research	China	1
Lbhi - Agricultural University of Iceland	Education and Research	Iceland	1
British Livestock Genetics	Animal breeding organizations	UK	1
Livestock Research Institute	Education and Research	India	1
Lohmann Poultry breeding	Animal breeding organizations	Germany	3
Ludwig-Maximilians-Universität München	Education and Research	Germany	1
Luke - Natural Resources Institute Finland	Education and Research	Finland	5
Maatlainen RY - The Finnish The Finnish Landrace Association	Extension services for livestock	Finland	1
MAGA - Ministry of Agriculture	Policy makers	Guatemala	1
Magrama - Ministry of Agriculture, Fisheries and Food	Policy makers	Spain	1
MARA - Ministry of Agriculture and Rural Affairs	Policy makers	Turkey	2
Ministère de l'Agriculture et de l'Alimentation	Policy makers	France	1
Ministry for Agriculture, Fisheries and Animal Rights	Policy makers	Malta	1
Ministry of Agriculture	Policy makers	Hungary	1
Ministry of Agriculture and Environmental Protection	Policy makers	Serbia	1
Ministry of Agriculture Baghdad	Policy makers	Iraq	1
Ministry of Agriculture, Research Department	Policy makers	Malawi	1
MSD - Research-based pharmaceutical company	Biotech companies	Germany	1
MSD Merck - Healthcare company	Biotech companies	Portugal	1
Mustafa Kemal University	Education and Research	Turkey	1
Mutterkuh - Cattle	Animal breeding organizations	Switzerland	1
Nasarawa State University Keffi	Education and Research	Nigeria	1
National Biodiversity Center, Ministry of Agriculture and Forest	Policy makers	Bhutan	1

National Centre for Genetic Resources and Biotechnology	Gene bank managers	Nigeria	2
National Dairy Research Institute	Education and Research	India	1
National Gene Bank of Tunisia	Gene bank managers	Tunisia	1
National Institute of Animal Science	Education and Research	Korea	1
National Institute of Biotechnology	Education and Research	Bangladesh	1
National Research Institute of Animal Production	Education and Research	Poland	1
Natural England - Department for Environment, Food and Rural Affairs	Policy makers	UK	1
Neogen - Food and animal safety	Biotech companies	UK	1
Nethercroft Farm - Poultry Farm	Extension services for livestock	UK	1
NMBU - Norwegian University of Life Sciences	Education and Research	Norway	5
NOFIMA - Research Institute for Aquaculture and Food	Education and Research	Norway	1
NordGen - Nordic Genetic Resource Center	Gene bank managers	Norway	2
Norwegian Institute of Bioeconomy Research - NIBIO	Education and Research	Norway	1
Ondokuz Mayıs University	Education and Research	Turkey	1
PFHBiPM - Polish Federation of Cattle Breeders and Dairy Farmers	Animal breeding organizations	Poland	2
Pig Austria	Animal breeding organizations	Austria	1
Progenisa - Aquaculture - gilthead seabream breeding	Animal breeding organizations	Spain	3
ProVertes	Extension services for livestock	Hungary	1
PtP - Parco Tecnologico Padano	Education and Research	Italy	7
Qualitas - Quantitative genetics for Swiss breeding organisations	Extension services for livestock	Switzerland	3
RARE - Italian Association of Indigenous Endangered Breeds	Breed associations	Italy	1
Raumberg-Gumpenstein	Education and Research	Austria	1
Rinderzucht Austria	Breed associations	Austria	1
Roslin Institute - Institute for animal	Education and	UK	8

research	Research		
Royal Veterinary College	Education and Research	UK	1
Rural Business Development and Information Centrum	Extension services for livestock	Pakistan	1
RZSS Conservation	Education and Research	UK	1
Salmobreed - breeding company supplying ova of Atlantic salmon	Animal breeding organizations	Norway	1
SATrans - Safeguard for Agrobiodiversity in Transcarpathia	Extension services for livestock	Ukraine	1
SAVE Foundation	Extension services for livestock	Switzerland	1
SEGES - agriculture and food sector	Extension services for livestock	Denmark	3
Semex - Genetics	Animal breeding organizations	Belarus	3
Semperviva - Bulgarian Biodiversity Preservation Society	Extension services for livestock	Bulgaria	1
SERGA - Spanish Society for Animal Genetic Resources	Gene bank managers	Spain	1
SERIDA - Research and agri-food technology	Education and Research	Spain	1
SGGW - Warsaw University of Life Sciences	Education and Research	Poland	1
Shiraz University	Education and Research	Iran	1
SLE - Steunpunt Levend Erfgoed - Center for Living Heritage	Breed associations	Belgium	1
SLU - Swedish University of Agricultural Sciences	Education and Research	Sweden	4
Society Association for the Conservation of Latvian Blue cattle breeders	Breed associations	Latvia	1
Spallanzani - National Institute for Infectious Diseases	Education and Research	Italy	2
SP-CGRGA - Secrétariat Permanent de la Coordination de la Gestion des Ressources Génétiques Animales	Gene bank managers	Burkina Faso	1
SRUC - Scotland's Rural College	Education and Research	UK	2
Swiss Herdbook	Breed associations	Switzerland	1
SYSAAF - French Poultry and Aquaculture Breeders Technical	Animal breeding organizations	France	2

Center			
SZH Stichting Zeldzame Huisdierrassen	Breed associations	The Netherlands	1
TEAGASC - Agriculture and Food Development Authority	Education and Research	Ireland	3
Terra Cypria - Cyprus Conservation Foundation	Extension services for livestock	Cyprus	1
Tharb Camel Hospital	Biotech companies	Qatar	1
ThermoFisher Scientific - Life Science products	Biotech companies	The Netherlands	1
Topigs Norsvin - Swine Genetic Company	Animal breeding organizations	The Netherlands	5
Trakia University	Education and Research	Bulgaria	1
Trouw Nutrition - animal nutrition industry	Extension services for livestock	The Netherlands	1
UCLM - Universidad de Castilla-La Mancha	Education and Research	Spain	1
UCSC - Università Cattolica del Sacro Cuore	Education and Research	Italy	4
UFPSO - Universidad Francisco de Paula Santander	Education and Research	Colombia	1
UNITO - University of Turin	Education and Research	Italy	1
Universidad de Granma	Education and Research	Cuba	1
Universidad del Tolima	Education and Research	Colombia	1
Universidad Mayor de San Simon	Education and Research	Bolivia	1
Universidad Nacional de Colombia	Education and Research	Colombia	1
Universidad Nacional de Cordoba	Education and Research	Argentina	1
Universidad Nacional del Altiplano	Education and Research	Peru	2
Universidade de Caxias do Sul	Education and Research	Brazil	1
Universidade Federal da Grande Dourados	Education and Research	Brazil	1
Università degli Studi di Perugia	Education and Research	Italy	2
Universitat Autònoma de Barcelona	Education and Research	Spain	2

	Research		
University of Abomey-Calavi	Education and Research	Benin	1
University of Banja Luka	Education and Research	Bosnia and Herzegovina	1
University of Barcelona	Education and Research	Spain	1
University of Bari	Education and Research	Italy	1
University of Bologna	Education and Research	Italy	2
University of Evora	Education and Research	Portugal	2
University of Giessen	Education and Research	Germany	3
University of Gottingen	Education and Research	Germany	2
University of Guilan	Education and Research	Iran	1
University of Helsinki	Education and Research	Finland	2
University of Kiel	Education and Research	Germany	1
University of Lisbon	Education and Research	Portugal	1
University of Ljubljana/ERFP Secretariat	Education and Research	Slovenia	1
University of Milan	Education and Research	Italy	1
University of New England	Education and Research	Australia	1
University of Ngaoundere	Education and Research	Cameroon	1
University of Pretoria	Education and Research	Pretoria	1
University of Stirling	Education and Research	UK	3
University of Tabriz	Education and Research	Iran	1
University of Thessaly	Education and Research	Greece	1
University of Toulouse-Jean Jaurès	Education and Research	France	1
University of Valencia	Education and Research	Spain	3

	Research		
University of Veterinary and Animal Sciences	Education and Research	Pakistan	2
University of Vigo	Education and Research	Spain	1
University Prague - Institution of Genetics and Breeding of farm animals	Education and Research	Czechia	1
UNLPam - National University of La Pampa	Education and Research	Argentina	
USAMV - University of Agronomic Sciences and Veterinary Medicine of Bucharest	Education and Research	Romania	2
UTAD - University of Trás-os-Montes and Alto Douro	Education and Research	Portugal	1
Valores - Research Institute	Education and Research	Canada	1
Van Yuzuncu Yil University	Education and Research	Turkey	1
Veterinary clinic Mombasa	Extension services for livestock	Kenya	1
Viking Genetics - Cattle breeding	Animal breeding organizations	Denmark	4
VOS - Association of Austrian Pig Farmers	Breed associations	Austria	1
VRI Brno - Veterinary Research Institute	Education and Research	Czechia	3
VUZV - Livestock Production Department Research Institute for Animal Production	Education and Research	Czechia	1
WCHIRZ - Holstein-Friesian breeding	Animal breeding organizations	Poland	1
WUR - Wageningen University Research	Education and Research	The Netherlands	12
Total number of stakeholders			538