



Food and Agriculture
Organization of the
United Nations

COMMISSION ON
GENETIC RESOURCES
FOR FOOD AND
AGRICULTURE



FAO report to ERFPP working group Information & Documentation

May 2023

Roswitha Baumung, Gregoire Leroy & DAD-IS team





Overview

The 12th Session of the ITWG on Animal Genetic Resources for Food and Agriculture and NCs' Workshop

DAD-IS/EFABIS - new developments

Call for action



12th Session of the ITWG on Animal Genetic Resources for Food and Agriculture

- Held 18-20 January 2023 in person
- Main topics:
 - Status of Implementation of the GPA-AnGR
 - Monitoring the diversity of AnGR
 - Preparation of The Third Report on the State of the World's Animal Genetic Resources for Food and Agriculture
- All documents and report available at <https://www.fao.org/animal-genetics/events/events-detail/en/c/1603813/>



Global Workshop for National Coordinators

- Held 16 to 17 January 2023 in person
- Topics
 - How to fill the data gaps in DAD-IS? Experiences from countries
 - Tool for Agroecological Performance Evaluation (TAPE)
- Webcasts are available at <https://www.fao.org/animal-genetics/events/events-detail/en/c/1627248/>



DAD-IS/EFABIS - new developments

- DAD-IS is available at <http://www.fao.org/dad-is/>



The screenshot shows the homepage of the Domestic Animal Diversity Information System (DAD-IS). At the top, there is the FAO logo and the text "Food and Agriculture Organization of the United Nations". Below this, there are navigation links for "About FAO", "In Action", "Countries", "Themes", "Media", "Publications", "Statistics", and "Partnerships". There is also a search bar labeled "Simple Custom Search". The main heading is "Domestic Animal Diversity Information System (DAD-IS)". Below the heading, there are tabs for "Data", "In Focus", "Publications", and "National Coordinators". A large image shows a herd of animals in a field. Below the image, there is a "Key facts" section with four cards:

- Card 1:** The roles and values of animal genetic resources remain diverse, particularly with regard to the livelihoods of poor people.
- Card 2:** There are around 8800 livestock breeds of 38 different species in the world, providing a diversity of products and services.
- Card 3:** Many breeds have unique characteristics that can contribute to meeting challenges related to climate change.
- Card 4:** The threats to animal genetic resources need to be better identified and their potential effects better assessed, so that action can be taken.



DAD-IS/EFABIS - new developments

New information made available on the DAD-IS landing page on

- DAD-IS data (architecture, updating mechanism, access and export)
- Videos on AnGR
- Updates on Success and Other Stories (the Camel of Canary Islands)





Language versions improved

Данные

Вам нужна подробная информация о конкретной породе? Хотите узнать о статусе пород по отношению к угрозе исчезновения или получить конкретные отчеты и графики? Воспользуйтесь, пожалуйста, инструментами на данной странице. Хотели бы провести свои собственные аналитические расчеты? Перейдите к экспорту данных!



Породы по видам и
странам

Ознакомьтесь с подробной
информацией о породах в разных
странах.



Браузер изображений
Поиск картинок по странам



Экспорт данных

Вы можете экспортировать
данные в формате файла CSV
для дальнейшего анализа.



Показатель ЦУР 2.5.1

Узнайте количество и процентную
долю местных пород, заложенных
на хранение в коллекции
генбанка, для выбранного числа
стран и видов.



Показатель ЦУР 2.5.2

Узнайте долю местных пород,
классифицированных как
находящиеся под угрозой, не
находящиеся под угрозой или с
неизвестным уровнем угрозы
исчезновения, для выбранного
множества стран и видов.



Самые последние записи о
населении

См. распределение самых
последних обновлений населения
по годам.



Краткое описание
трансграничных пород

Узнайте больше о



Трансграничная порода

Посмотрите на карте присутствие
трансграничных пород в различных



Дополнительные
инструменты для работы с
данными



Ввод данных
Для Национального
координатора

Training material



e-learning tools: How to enter data
into DAD-IS



Videos:

- How to use DAD-IS
- Trends in risk status



Документы:

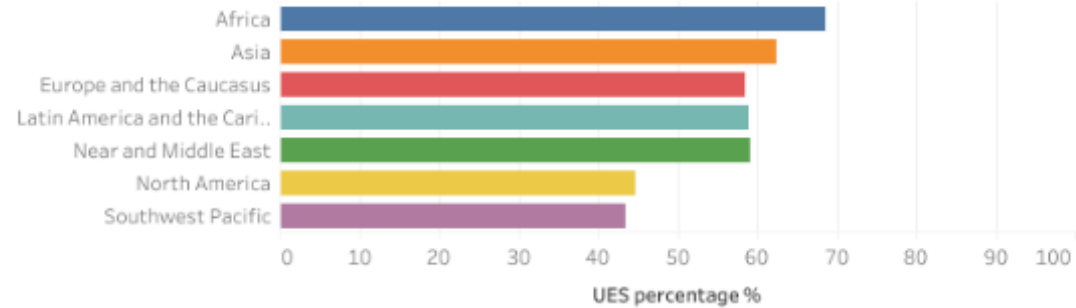
- СПРАВОЧНИК ПОЛЬЗОВАТЕЛЯ
- КРАТКОЕ РУКОВОДСТВО ПО ВВОДУ ДАННЫХ В ИС-



Uses & Ecosystem Services

UES filtered by region and species	UES filtered by region and categories	UES by avian species	UES by categories (avian)	UES by mammalian species	UES by categories (mammalian)	Complete table
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Percentage of national breed populations (NBP) with information provided on UES by region



DAD-IS Region All

Country All

Species All

Breed Name All

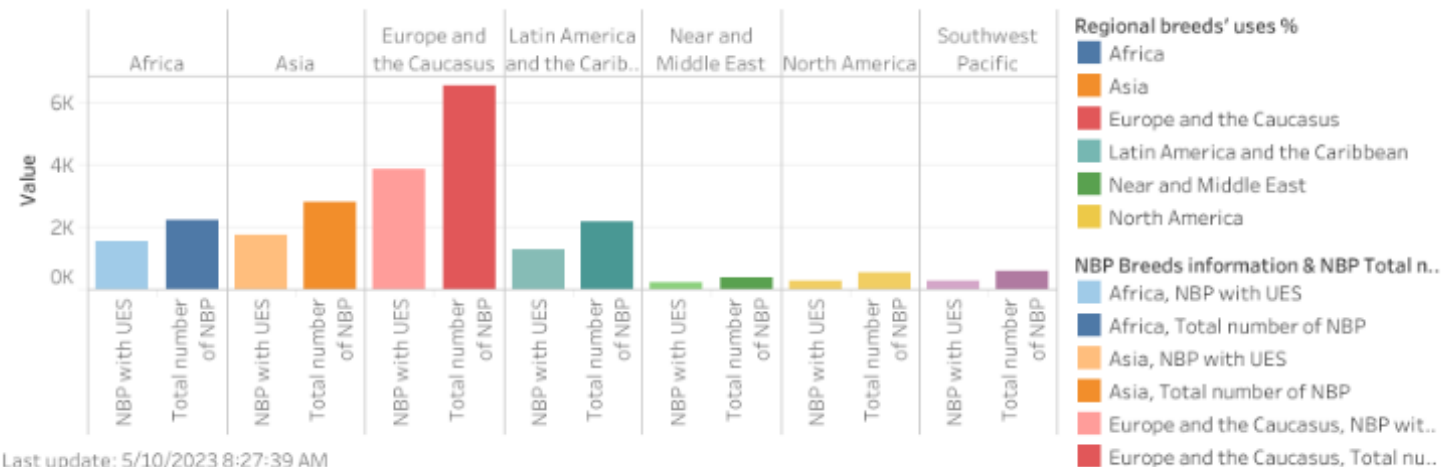
Transboundary Name All

Adaptedness All

Geographical Classification All

Animal Class All

Number of national breed populations (NBP) reported with UES provided by region



Regional breeds' uses %

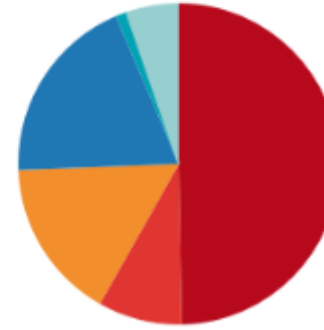
- Africa
- Asia
- Europe and the Caucasus
- Latin America and the Caribbean
- Near and Middle East
- North America

NBP Breeds information & NBP Total n..

- Africa, NBP with UES
- Africa, Total number of NBP
- Asia, NBP with UES
- Asia, Total number of NBP
- Europe and the Caucasus, NBP wit..
- Europe and the Caucasus, Total nu..



Breed Diversity -Filtering



- SDG Regions: All
- DADIS Region: Africa**
- Country: All
- Species: All
- Animal Class: All
- Category:
 - Local mammalian breeds
 - Regional transboundary mamma..
 - International transboundary ma..
 - Local avian breeds
 - Regional transboundary avian br..
 - International transboundary avi..

Note: Only non-extinct national breed populations are considered

Last update:10/05/2023 08:33:11

Complete View (All national breed population)

Country Name	Species	Breed	Transboundary Name	Animal class	Local mammalian breeds	Regional transboundary mammalian breeds	International transboundary mammalian breeds	Local avian breeds	Regional transboundary avian breeds	International transboundary avian breeds
Algeria	Ass	Algerian	-	Mammalian	■					
	Cattle	Brune des Alpes	Brown Swiss	Mammalian			■			
		Chélifienne	-	Mammalian	■					
		Française Frisonn..	Holstein (black ..	Mammalian			■			
		Guelmoise	-	Mammalian	■					
		Holstein	Holstein (black ..	Mammalian			■			
		Montbéliarde	Montbéliarde	Mammalian			■			
		Sétifienne	-	Mammalian	■					
	Dromedary	Berberi	-	Mammalian	■					
		Chaambi	-	Mammalian	■					



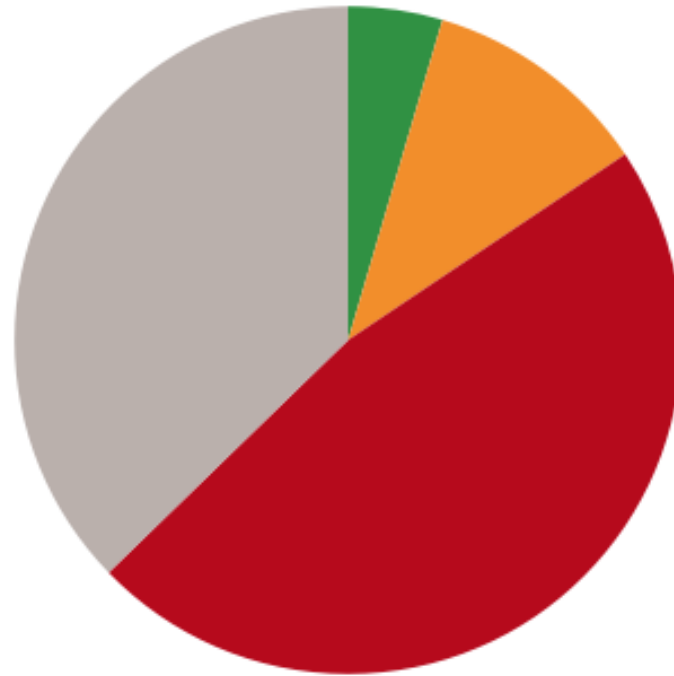
SDG Indicator 2.5.1b

World

Region

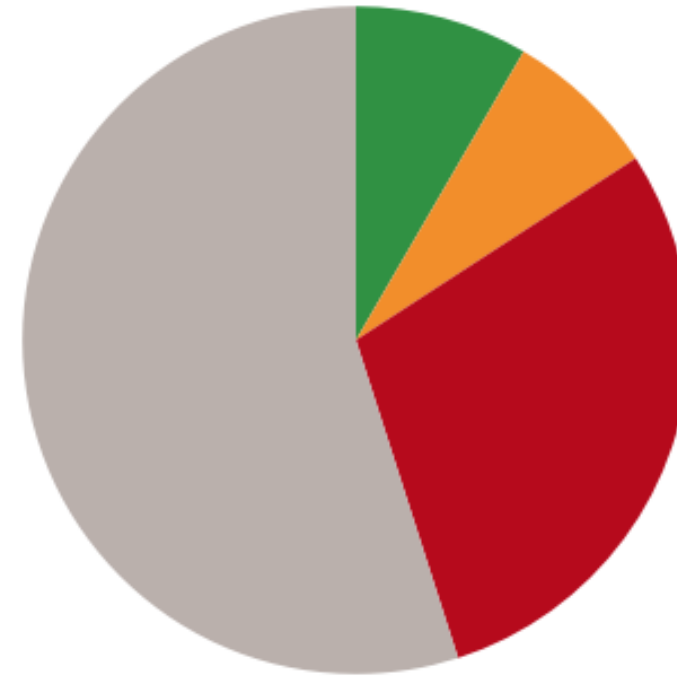
Country

Local breeds



Last update: 03/02/2023

Transboundary breeds



Last update: 03/02/2023

Region

Northern America (M49) ..

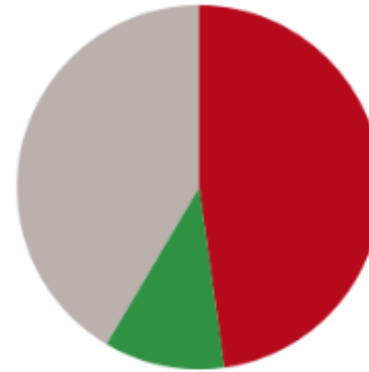
Measure Names

- Sufficient
- Not Sufficient
- No Material
- No Information

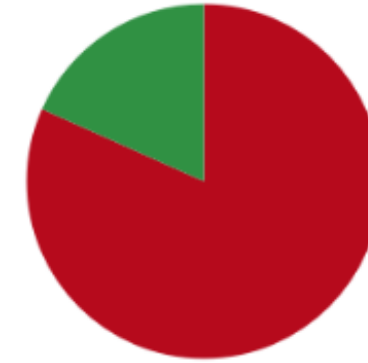


SDG Indicator 2.5.2

Risk status of all non-extinct local breeds in a selected region/country



Risk status of local breeds with valid information on population size



- SDG Regions
All
- DADIS Regions
Europe and the Caucasus
- Country Name
All
- Risk Status
 - At Risk
 - Not at Risk
 - Unknown

SDG Region: *
 DAD-IS Region: Europe and the Caucasus
 Country: All
 Percentage of local breeds with unknown risk status: 41.48%

Totals:
 Not at risk: 352
 At risk: 1,571
 Unknown risk: 1,363
 Proportion of countries with at least partial reporting: 64.71%

SDG Indicator 2.5.2
 82%

Last update: 03/02/2023



LIVESTOCK

BEES

ORGANISATIONS

DATA EXPORT

DATA UPLOAD



Austria



Cattle



Ennstaler Bergscheck

GENERAL INFORMATION

BASIC CHARACTERISTICS

POPULATION SIZE

GEOGRAPHICAL DISTRIBUTION

PERFORMANCE DATA

CONSERVATION PROGRAM

REFRESH THE MAP

Search by Admin Level 2 (Province)

Admin Level 1 (Region)

Admin Level 2 (Province)

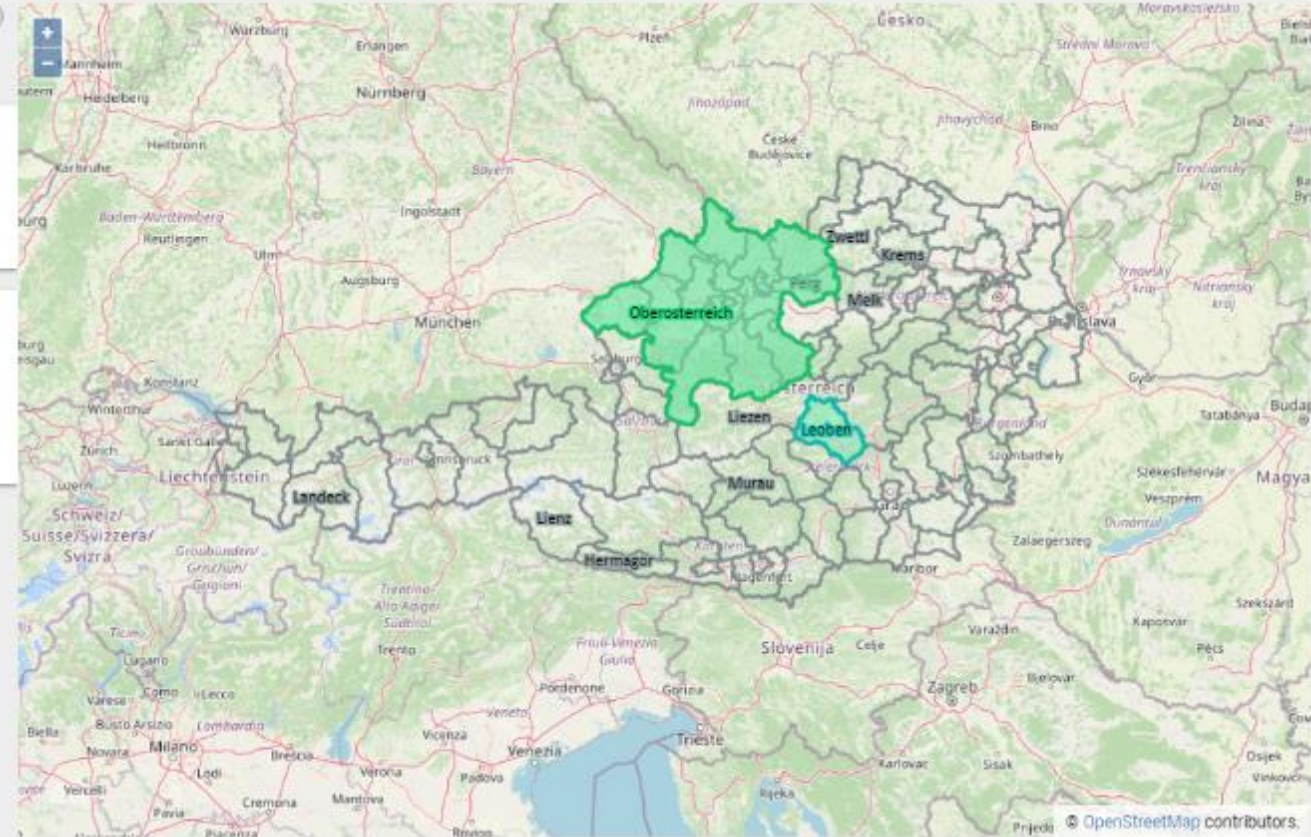
Region :

Austria / Oberosterreich



Province :

Austria / Steiermark / Leoben



• Geographic distribution

• Data entry

Test version is available for NCs and interested ERFW WG members.



CENSOS DE ANIMALES VIVOS INSCRITOS EN LOS DISTINTOS REGISTROS	
Raza:	ASTURIANA DE LOS VALLES
Fecha:	31-12-2021

	SECCIONES ANEXAS		REGISTRO FUNDACIONAL		CATEGORIA BÁSICA		CATEGORIA ANIMALES REPRODUCTORES CON MÉRITOS		TOTAL REPRODUCTORES		TOTAL ANIMALES POR SEXOS		TOTAL ANIMALES POR COMUNIDAD AUTÓNOMA	Nº DE GANADERÍAS ACTIVAS EN LIBRO GENEALÓGICO
	HEMBRA	MACHO	HEMBRA	MACHO	HEMBRA	MACHO	HEMBRA	MACHO	HEMBRA	MACHO	HEMBRA	MACHO		
ANDALUCÍA	70				25	3	47	6	127	8	142	9	151	6
ALMERIA													ALMERIA	
CÁDIZ													CÁDIZ	5
CÓRDOBA													CÓRDOBA	85
GRANADA													GRANADA	
HUELVA													HUELVA	61
JAÉN													JAÉN	
MÁLAGA													MÁLAGA	
SEVILLA													SEVILLA	
ARAGÓN	6				16	1	35	2	57	3	57	3	60	1
HUESCA													HUESCA	
TERUEL													TERUEL	60
ZARAGOZA													ZARAGOZA	
CANTABRIA	1,984				1,845	460	3,850	302	6,003	331	7,679	762	8,441	243
CANTABRIA													CANTABRIA	8,441
CASTILLA LA MANCHA	35				20	13	77	5	120	9	132	18	150	5
ALBACETE													ALBACETE	
CIUDAD REAL													CIUDAD REAL	22
CUENCA													CUENCA	
GUADALAJARA													GUADALAJARA	36
TOLEDO													TOLEDO	92
CASTILLA Y LEÓN	1,944				1,335	334	2,171	234	4,362	279	5,450	568	6,018	181
ÁVILA													ÁVILA	46
BURGOS													BURGOS	270
LEÓN													LEÓN	4,962

31-12-2021	31-12-2020	31-12-2019	31-12-2018	31-12-2017	31-12-2016	31-12-2015	...
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- Geographic distribution

- Data formats

Examples received from :

- Spain
- Serbia



CENSOS DE ANIMALES VIVOS INSCRITOS EN LOS DISTINTOS REGISTROS														
Raza:		ASTURIANA DE LOS VALLES												
Fecha:		31-12-2021												
SECCIONES ANEXAS	REGISTRO FUNDACIONAL		CATEGORIA BÁSICA		CATEGORIA ANIMALES REPRODUCTORES CON MÉRITOS		TOTAL REPRODUCTORES		TOTAL ANIMALES POR SEXOS		TOTAL ANIMALES POR COMUNIDAD AUTÓNOMA	Nº DE GANADERÍAS ACTIVAS EN LIBRO GENEALÓGICO		
	HEMBRA	MACHO	HEMBRA	MACHO	HEMBRA	MACHO	HEMBRA	MACHO	HEMBRA	MACHO				
ANDALUCÍA	70				25	3	47	6	127	8	142	9	151	6
ALMERIA														
CÁDIZ													5	
CÓRDOBA													85	
GRANADA														
HUELVA													61	
JAEN														
MÁLAGA														

	A	B	C	D	E	F	G		
	* ISO3	* SPECIES	* BREED	* LATITUDE	* LONGITUDE	* ADMIN 1 NAME (Region)	ADMIN 2 NAME (Province)		
1	SRB	Buffalo	Domestic buffalo	44.823900	21.208210	Juzno-banatski		60	1
2	SRB	Buffalo	Domestic buffalo	44.740320	20.975630	Juzno-banatski		60	
3	SRB	Buffalo	Domestic buffalo	43.138160	20.441650	Raski		3,441	243
4	SRB	Buffalo	Domestic buffalo	45.209860	21.301020	Severno-banatski		3,441	
5	SRB	Cattle	Busha	44.796930	19.685480	Macvanski		150	5
6	SRB	Cattle	Busha	44.184311	20.54469	[No Title] dijski		22	
7	SRB	Cattle	Busha	44.308258	20.730128	Sumadijski		36	
8	SRB	Cattle	Busha	43.470782	20.567947	Raski		92	
9	SRB	Cattle	Busha	43.011140	20.268790	Raski		5,018	181
10	SRB	Cattle	Busha	43.069590	22.112910	Jablanicki		46	
11	SRB	Cattle	Busha	42.779520	22.254910	Jablanicki		270	
12	SRB	Cattle	Podolian	46.01609	19.95661	Severno-banatski		1,962	
13	SRB	Cattle	Podolian	45.80395	20.14046	Severno-banatski			
14	SRB	Goat	Domestic Balkan	45.050870	21.015110	Juzno-banatski			
15	SRB	Goat	Domestic Balkan	44.957660	21.272410	Juzno-banatski			
16	SRB	Goat	Domestic Balkan	44.876900	21.479360	Juzno-banatski			
17	SRB	Goat	Domestic Balkan	43.643260	21.861510	Zajecarski			
18	SRB	Horses	Domestic-Mountain Pony	44.658500	19.620900	Macvanski			
19	SRB	Horses	Domestic-Mountain Pony	43.047447	20.121693	Raski			
20	SRB	Horses	Domestic-Mountain Pony	42.477740	21.738790	Pcinjski			
21	SRB	Horses	Domestic-Mountain Pony	43.254720	22.294680	Pirotski			
22	SRB	Horses	Domestic-Mountain Pony	43.233780	22.266170	Pirotski			
23	SRB	Horses	Domestic-Mountain Pony	43.209765	22.293518	Pirotski			
24	SRB	Horses	Domestic-Mountain Pony	43.219810	22.310080	Pirotski			
25	SRB	Horses	Domestic-Mountain Pony	43.219790	22.311770	Pirotski			
26	SRB	Horses	Domestic-Mountain Pony	43.219790	22.311770	Pirotski			

- Geographic distribution

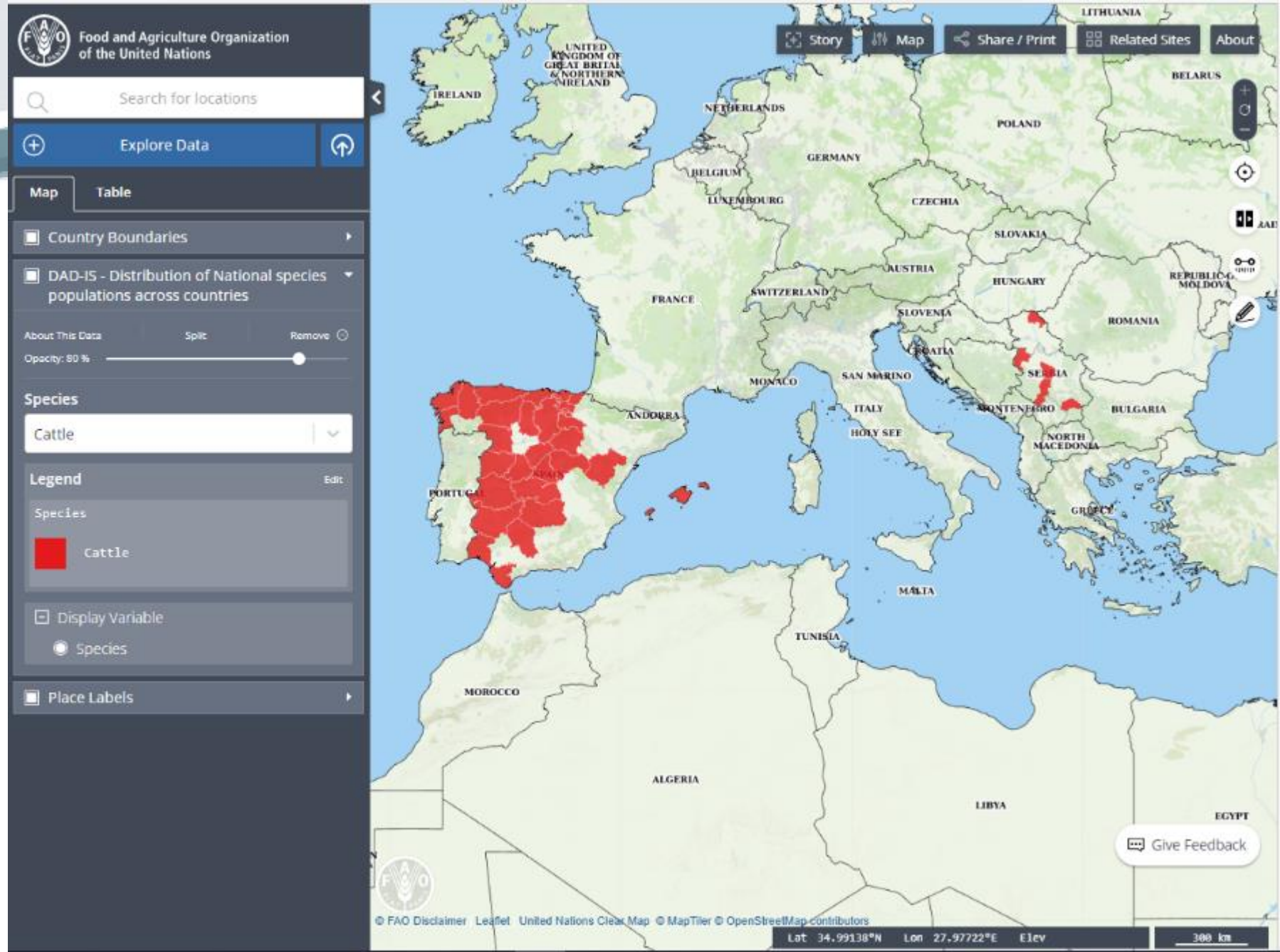
- Data formats

Examples received from :

- Spain
- Serbia



- Geographic distribution
- Visualization tool under development





Search for locations

Explore Data

Map Table

Country Boundaries

Land cover (Global - 2021 - 10m) - ESA WorldCover

Zoom To Extent About This Data Split Remove

Opacity: 34 %

Time: 01/01/2022, 01:00:00

- Tree cover
- Shrubland
- Grassland
- Cropland
- Built-up
- Bare / sparse vegetation
- Snow and ice
- Permanent water bodies
- Herbaceous wetland
- Mangroves
- Moss and lichen

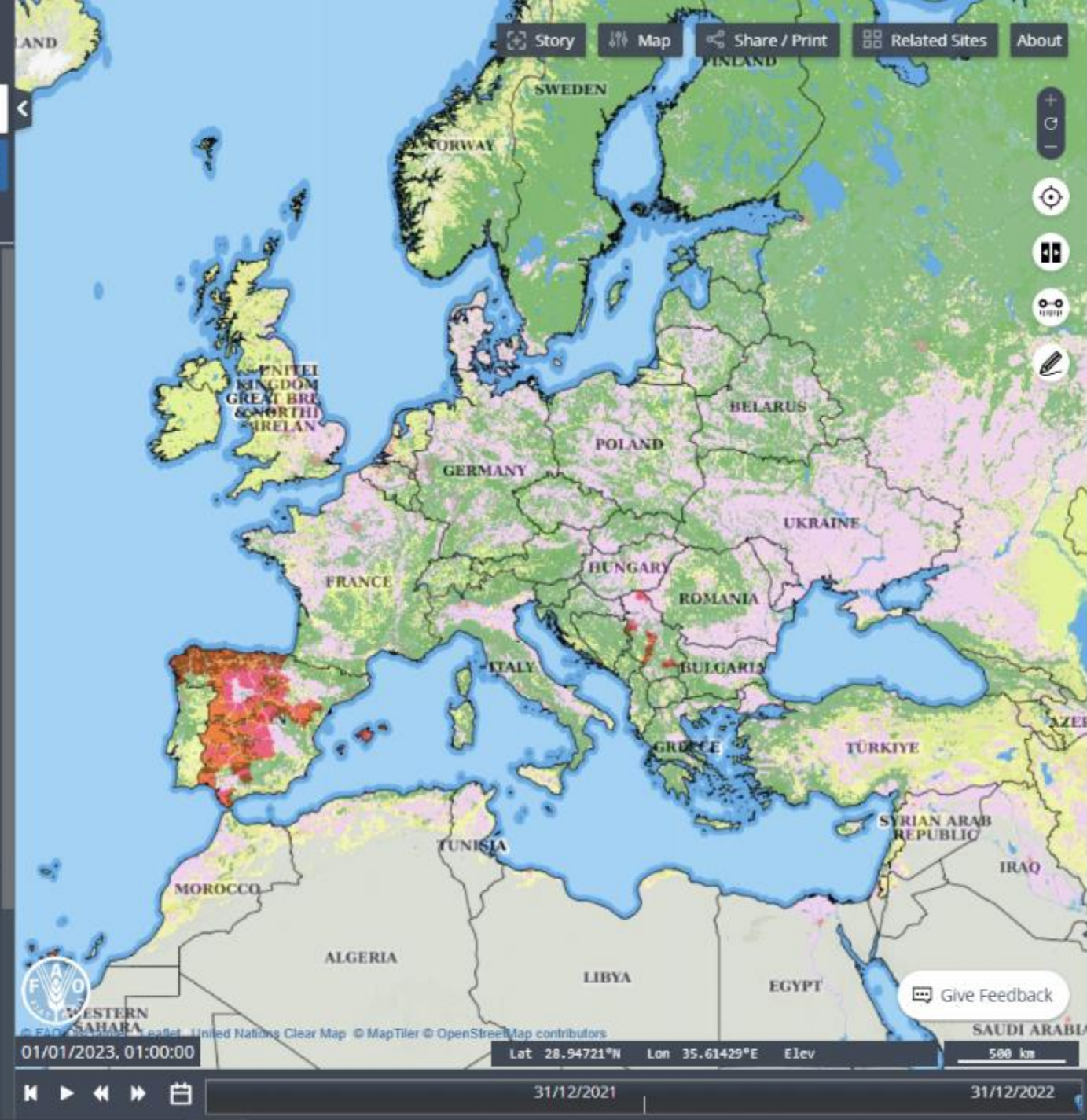
DAD-IS - Distribution of National species populations across countries

About This Data Split Remove

Opacity: 80 %

Species

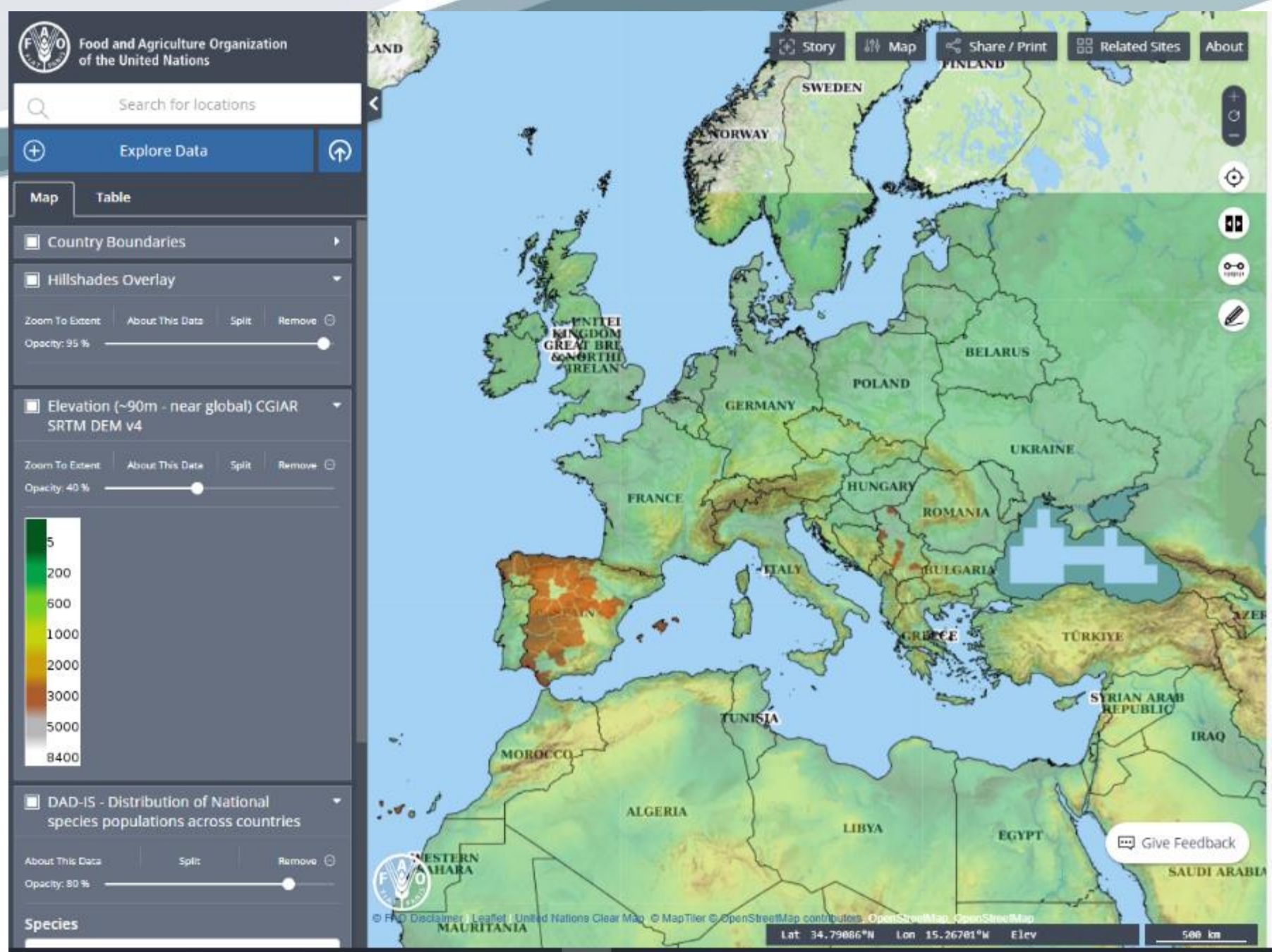
Cattle



- Geographic distribution
- Visualization tool under development
- Layers – Land Cover



- Geographic distribution
- Visualization tool under development
- Layers – Altitude





Next steps

- Further development and testing of the tool for geographic distributions.
- In relation to the Third Report on *The State of The World's Animal Genetic Resources for Food and Agriculture*, **new data fields will be added to DAD-IS (Breeding programme)** to support the completion of country reports.
 - ***Data collection process in June-August***
- Development of a **tool allowing bulk upload of meta data**
- Scope of **SDG indicator 2.5.2 to be broadened to transboundary breeds**
- Translations continued (Russian and Chinese)



Call for action

- Please provide feedback on DAD-IS to help us improve the system.
- Please contact us if text, pictures, key facts or links need to be updated under the **EFABIS landing page**
- Please contact us if text, pictures, links or contacts need to be updated under the **national EFABIS landing pages** of Greece, Ireland, Poland, Slovenia or UK
- Please be help us to test the **prototype for breed distribution** (data entry available, visualization tool coming soon)
- **Please update your data!!!!**





THANK YOU!!!!

