

HERITAGE SHEEP

WP5 report

Ch. Ligda, Ch. Mizeli, D. Tsiokos and A. Georgoudis
Amsterdam, 6 July 2009



WP5 objectives

- Establish a web based permanent and widely accessible European network of national inventories of HSBs – www.heritagesheep.eu
- Provide a database structure for combining all the information for the assessment of threats
- Provide the environment for the presentation of the results



WP5 – Development of website

www.heritagesheep.eu

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HERITAGE SHEEP

A international programme funded by the European Commission to conserve the genetic resources of Heritage Sheep Breeds

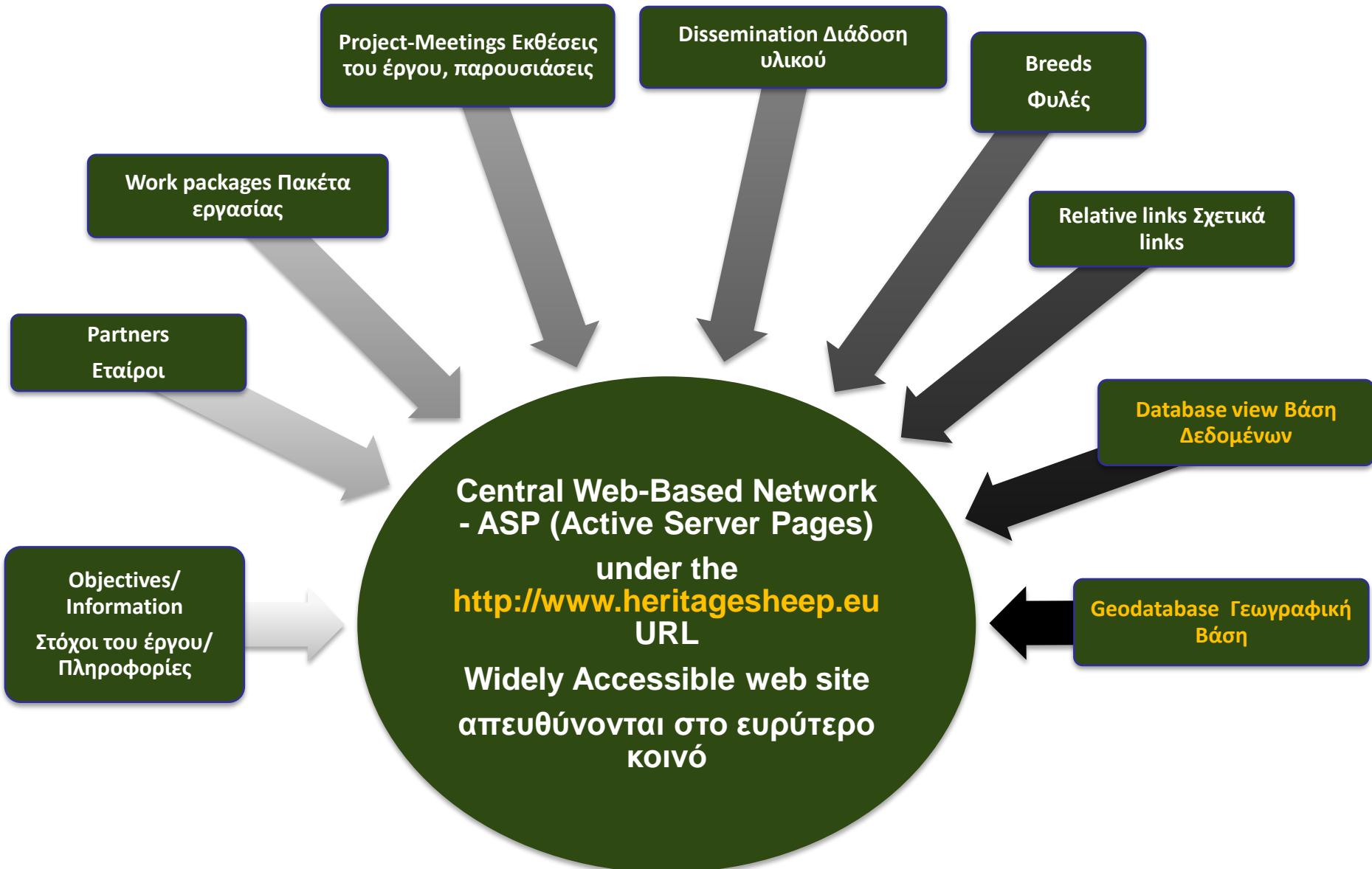


Heritage Sheep Breeds are regional breeds - playing an important role in local culture and the rural economy adapted to their environments - helping to sustain the countryside have important genetic resources - biodiversity needing protection.

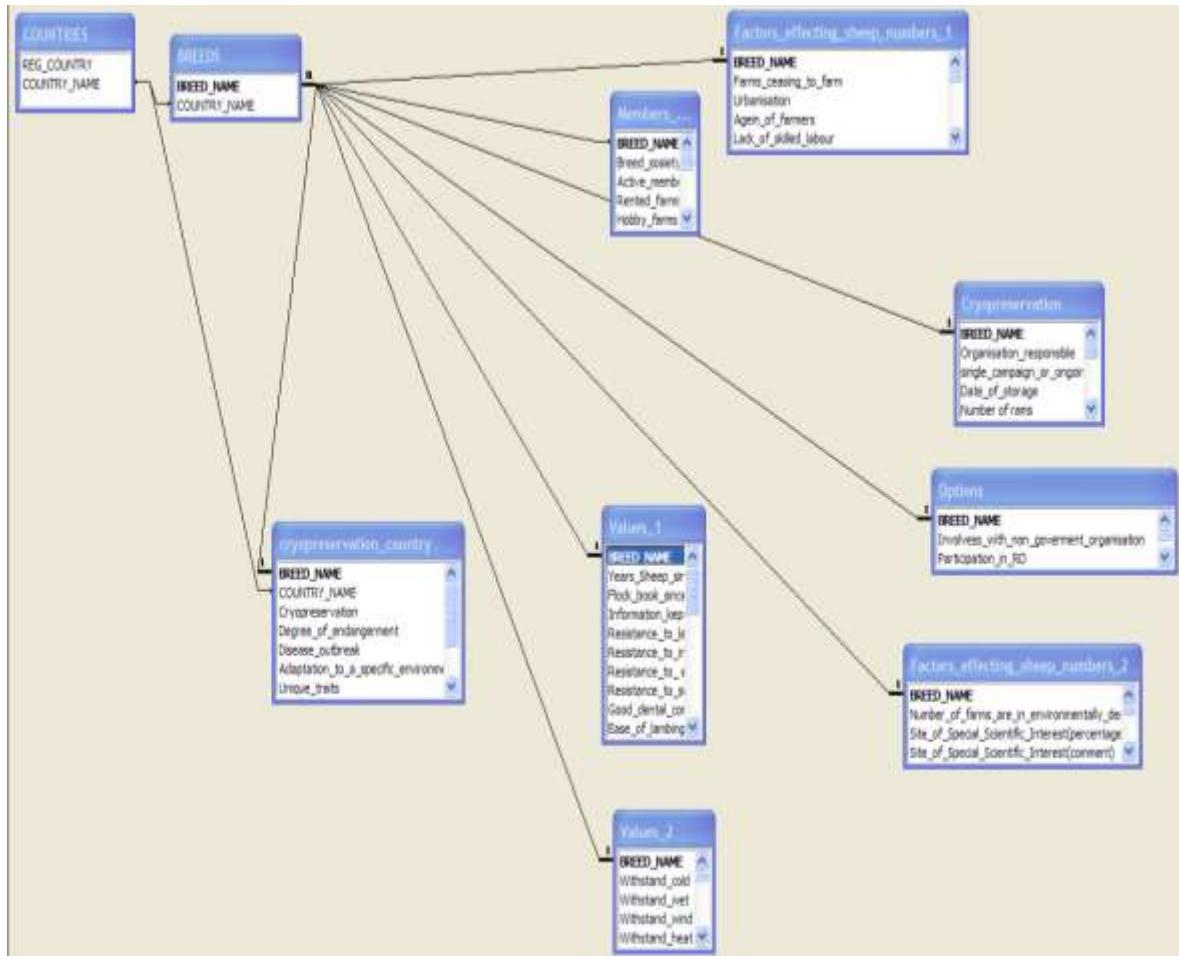
Action: Heritage Sheep AGRIF GEN REG 040 receives financial support from the European Commission, Genetic Resources in Agriculture, under Euratom's Commission Council Regulation (EC) No 870/2004 AGRIF GEN REG 2008 HERITAGE SHEEP



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DataBase structure: Tables relationship



General Description

BREED_NAME:	<input type="text"/>	Characteristics
General		Ram/Ewe
Region		Litter size

Region
Ewes m.
Performa
Specific tr.
Environ adaptat
Specific p.
Cryopres
Herdbook
Breeders contact d.

Product
Management
Housing
Feeding
Transhum
Breeders (1)
Dev Chri
Ver

Members_sheep

Numbers and Trends

BREED_NAME: Bela Krajina Pramenka

Factors Affecting Future Sheep Numbers

BREED_NAME: Basco Béarnaise

Values

BREED_NAME: Basco Béarnaise

Environmental Adaptation

- Withstand cold
- Withstand wet
- Withstand wind
- Withstand heat
- Adaptation to altitude
- Adaptation to terrain
- Ability to utilise sparse forage
- Ability to utilise poor quality forage
- Adapted to regional plants
- Adapted to regional mineral deficiencies
- Adapted to regional vitamin deficiencies

Current Situation and Future Perspectives

Breed Improvement

- Genetic improvement
- Artificial insemination
- Semen stored
- Other material stored

Flock Health Plans (% farms)

% Farms	Comment
15	Health plans are implemented by the association for the
100	

Marketing and Branding

% Farms	Product	Comment
20	- 20% (adherents 3 farms)	Cheese produced on farm
55		Refrigerated cheese
70		When the milk is not transformed into cheese
5		

Yes/No(C) Comment

- The breed is a major element of the local economy
- They have the both Quality Official Signs (Cheese ADC Ossau-Iraty, red label milk)
- Awareness of grant aids to help marketing
- Awareness of advisor services marketing

Most 5 important threats to the breed

- Decrease of the public funding
- Implementation of Quality Official Signs (Cheese ADC Ossau-Iraty, red label milk)

Additional Comments:



Participating breeds

France 13	UK 15	Netherlands 12	Greece 5	Slovenia 4
Basco Béarnaise, Bizet, Causses du Lot, Corse, Grivette, Limousine, Manech Tête Noire, Manech Tête Rousse, Mourerous, Rava	Brecknock Hill Cheviot, South Country Cheviot Clun Forest, Dalesbred, Derbyshire Gritstone, Devon Closewool, Exmoor Horn, Herdwick, Lonk, Romney, Rough Fell, Shetland, South Welsh Mountain, Southdown, Welsh Hill Speckled Face	Black Blazed, Blue Texel, Drenth Heath, Flevolander, Mergelland, North Holland, Schoonebeek, Swifter, Texel, Veluwe Heath, Zeeland Milk sheep	Boutsiko (Orino), Frizarta, Kefallinias, Sfakia Katsika	Bela Krajina Pramenka, Bovec Sheep, Istrian Pramenka, Jezersko – Solcava



Breeds

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HERITAGE SHEEP - BREEDS

	United Kingdom	France	The Netherlands	Greece	Slovenia
1.	Blackrock Hill Ewe	Race Roumaine	Black-faced	Psoutiko (Oreamo)	Bela Kraljica Pravljanka
2.	Cheswick	Race	Blue-faced	Pizota	Bronc Sheep
3.	Clem Forest	Coupe de Loz	Drents Heath	Kefalimia	Istrana Pravljanka
4.	Coloured	Cors	Davelander	Zelka	Bezenec Zolcava
5.	Derbyshire Galloway	Chevette	Krepsa Heath		
6.	Devon Lambing	Limousine	Hengstland		
7.	Fairfax Ham Hampshire	Manchester White Noise	North Holland		
8.	Mangalica Hungary	Mangalica Hungary	Schotsebaard		
9.	Lamb	Haussauc	Swifter		
10.	Romney	Merino d'Aude	Trotted		
11.	Rough Faced	Rava	Velveta Heath		
12.	Shetland	Tarasconnais	Zeeland milksheep		
13.	South Welsh Mountain	Velvay Black			
14.	Southdown				
15.	Welsh Hill Speckled				

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Corsican Corsican [Details](#) [Remove](#)

	Local breed	Corse
	Nomadic	Corse
	Isolation	Corse
	Historical origin	Corse
	Population	100000

Origine - Historique
Les Corse sont une race ovine autochtone française. Ce sont des brebis et des moutons qui ont été élevés dans les îles Corse et Sardaigne depuis au moins 2000 ans. Les Corse sont connus pour leur caractère docile et leur adaptabilité à diverses conditions environnementales.

Description de la race
Les Corse sont des brebis et des moutons qui ont été élevés dans les îles Corse et Sardaigne depuis au moins 2000 ans. Les Corse sont connus pour leur caractère docile et leur adaptabilité à diverses conditions environnementales.

Conservation - Défense
La Corse est une race ovine en danger critique d'extinction. Il existe moins de 3 000 brebis et moutons dans l'île Corse et moins de 1000 dans l'île Sardaigne. La population mondiale est estimée à moins de 2 000 individus. La Corse est une race ovine en danger critique d'extinction. Il existe moins de 3 000 brebis et moutons dans l'île Corse et moins de 1000 dans l'île Sardaigne. La population mondiale est estimée à moins de 2 000 individus.

Couleurs - Mâles
Sous 2500 devoirs échappent à 2000 ans de l'isolement de l'île, sous 1000 devoirs échappent à 1000 ans de l'isolement de l'île, sous 500 devoirs échappent à 500 ans de l'isolement de l'île, sous 100 devoirs échappent à 100 ans de l'isolement de l'île, sous 50 devoirs échappent à 50 ans de l'isolement de l'île, sous 10 devoirs échappent à 10 ans de l'isolement de l'île, sous 5 devoirs échappent à 5 ans de l'isolement de l'île, sous 1 devoir échappent à 1 an de l'isolement de l'île.

Frontière
The Corse is a rare and unique sheep breed, originating from the island of Corsica. There are approximately 10,000 individuals left in the world. The breed is considered critically endangered, with only about 2,000 individuals remaining on the island of Corsica. The Corse is a rare and unique sheep breed, originating from the island of Corsica. There are approximately 10,000 individuals left in the world. The breed is considered critically endangered, with only about 2,000 individuals remaining on the island of Corsica.

Conservation - Article
The Corse is a rare and unique sheep breed, originating from the island of Corsica. There are approximately 10,000 individuals left in the world. The breed is considered critically endangered, with only about 2,000 individuals remaining on the island of Corsica. The Corse is a rare and unique sheep breed, originating from the island of Corsica. There are approximately 10,000 individuals left in the world. The breed is considered critically endangered, with only about 2,000 individuals remaining on the island of Corsica.



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HERITAGE SHEEP - DISSEMINATION

1. Meetings / Conferences

Meetings	Documents
14th ERFP Workshop, 23rd August 2008, Vilnius, Lithuania	<u>Presentation</u>
59th EAAP Annual Meeting 24th August 2008, Vilnius, Lithuania	<u>Poster presentation</u>
Mediterranean Symposium - EAAP Mediterranean WG 7-9 November 2008, Corte, France	<u>Poster Presentation</u>
Meeting of ARCGIS users 5-7 November, Thessaloniki, Greece	<u>Presentation</u>

2. Reports / Brochures

<u>Brochure - August 2008</u>	<u>Heritage Sheep project</u>



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Potential threats to sheep numbers

1 is the less important and 5 is the most important

Succession

Farms ceasing to farm	5
Urbanisation of region	1
Ageing population of farmers	5
Lack of skilled labour	1
Inability to hand on skills	5
Changes to the environment	1
Lack of training facilities	1

Climatic Factors

Reduced availability of water	1
Reduction in available grass for grazing	1
Reduction in availability of winter fodder	1
Increased requirement for housing animals	1
Increased weeds	1
Reduction in availability of bedding	3
Change in average temperatures	1
Change in average rainfall	1

Political CAP / SFP

Removal of headage payments	5
Environmental scheme changes	3
Need to increase farm productivity	3
Need to make management	3
Non farming uses of land	1
Increasing the area of actively farmed land	1
Decreasing the area of actively farmed land	1

Done



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Sheep Contribution to Environment

1 is the less important and 5 is the most important

Slovenia ▾

BREED NAME	Improved the diversity of wildlife	Improved the diversity of plants	Improved the access for the public	Reduce weeds
Bela Krajina Pramenka	3	4	4	4
Bovec Sheep	3	5	4	3
Istrian Pramenka	3	4	4	3
Jezersko – Solcava	3	3	3	3

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5 Most Important Threats

France

BREED NAME	Most 5 important threats to the breed
Basco Béarnaise	Sanitary problems and constraints Decrease of the public funding for the genetic improvement of local breeds Competition with more productive exogenous breed (Lacaune) Variation of the milk price related with the evolution of the sheep cheese trade Farmers succession
Bizet	1-Ageing farmers. 2-Increasing price of raw material. 3-Increasing work load, necessary to have more and more sheep to maintain same income. 4-Both local and National subsidies are decreasing. 5-selling price of lamb is too low
Causses du Lot	Having decent income for sheep breeders. Decreased number of sheep breeders. Decrease number of ewes. The local sheep industry getting weaker with the loss of local companies and activities. Breeders are not always capable of managing flock of very big size which are necessary however to have decent income.
Corse	Ageing population of farmers. Non farming uses of land (tourism). No local politic will to develop the sheep breeding industry. Milking is very time consuming and more generally raising milk breed is very time consuming => not attractive. Risks of new epizooties (blue tongue in 2000 and 2001 => 15000 dead ewes).
Grivette	Global economy of the industry. Production inadequate with the demands from the industry. Serious disease like Blue Tongue. Cross compliance. Big predators such as wolf.
Limousine	1.Competition with beef farming (higher SFP) 2. Decreasing sheep number 3.Farmers succession 4.Lack of involvement of the local industry to look for new markets 5 No awareness from the local and national financers of the problems the breeds are coping with
Manech Tête Noire	1-Sanitary problems and constraints. 2-Decrease in public funding for the genetic improvement of local breeds. 3-Competition with more productive exogenous breed (Lacaune). 4-Variation of milk price related to the evolution of the sheep cheese trade. 5-Farmer succession
Manech Tête Rousse	1-Sanitary problems and constraints. 2-decrease of public funding for the genetic improvement of local breeds. 3-Competition with more productive exogenous breed (Lacaune). 4-variation of milk price related to the evolution of the sheep cheese trade. 5-Farmer succession

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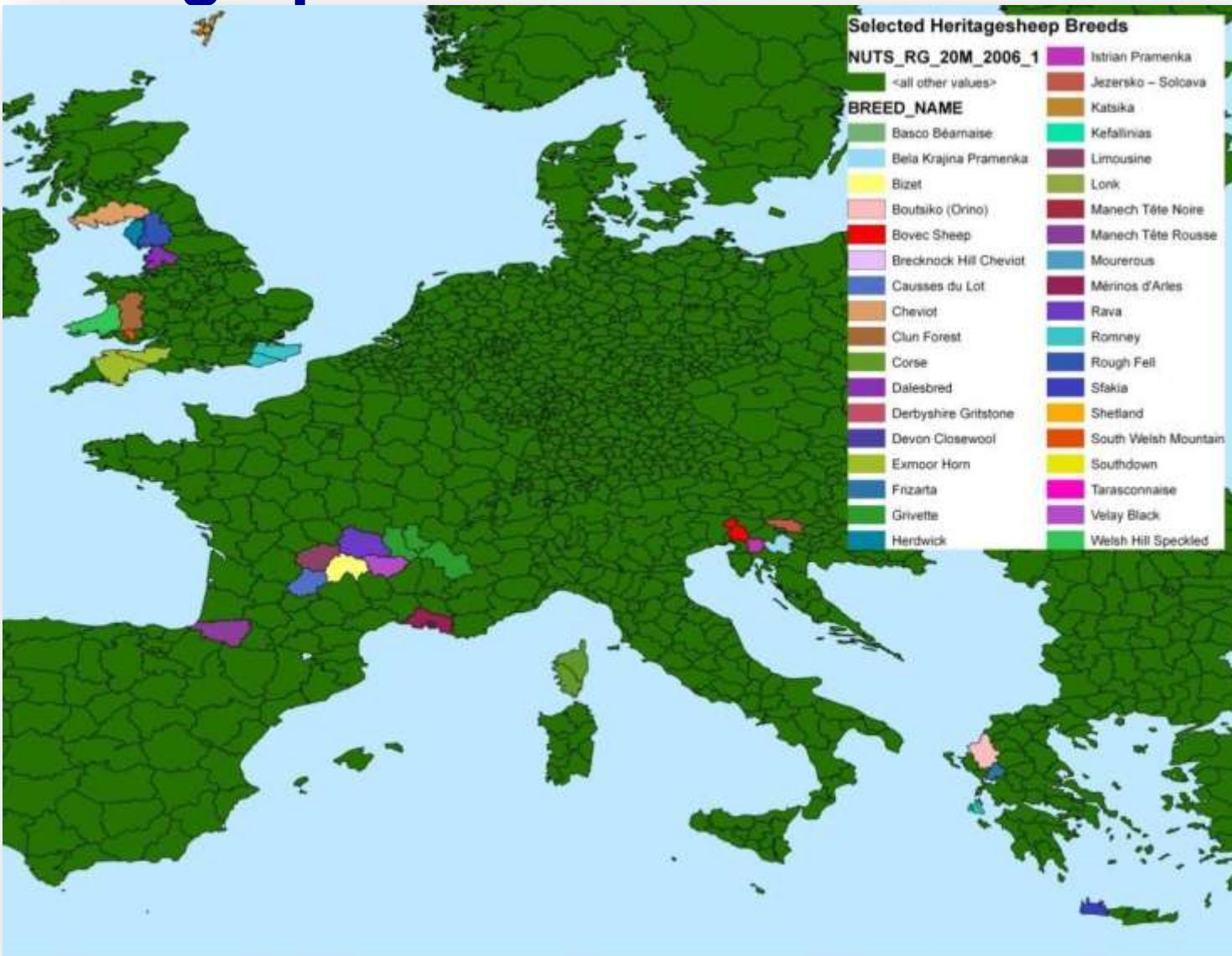
Geographical Representation of the data collected



- Completing the database with geographical data fields at NUTS3 level
- Modification of the database format to geodatabase
- Creation of a dynamic application running under ARCGIS server



Geographical location of the breeds



By population size



Coloring differentiation of the regions according to the population size



Age of farmers

Legend



Population trends

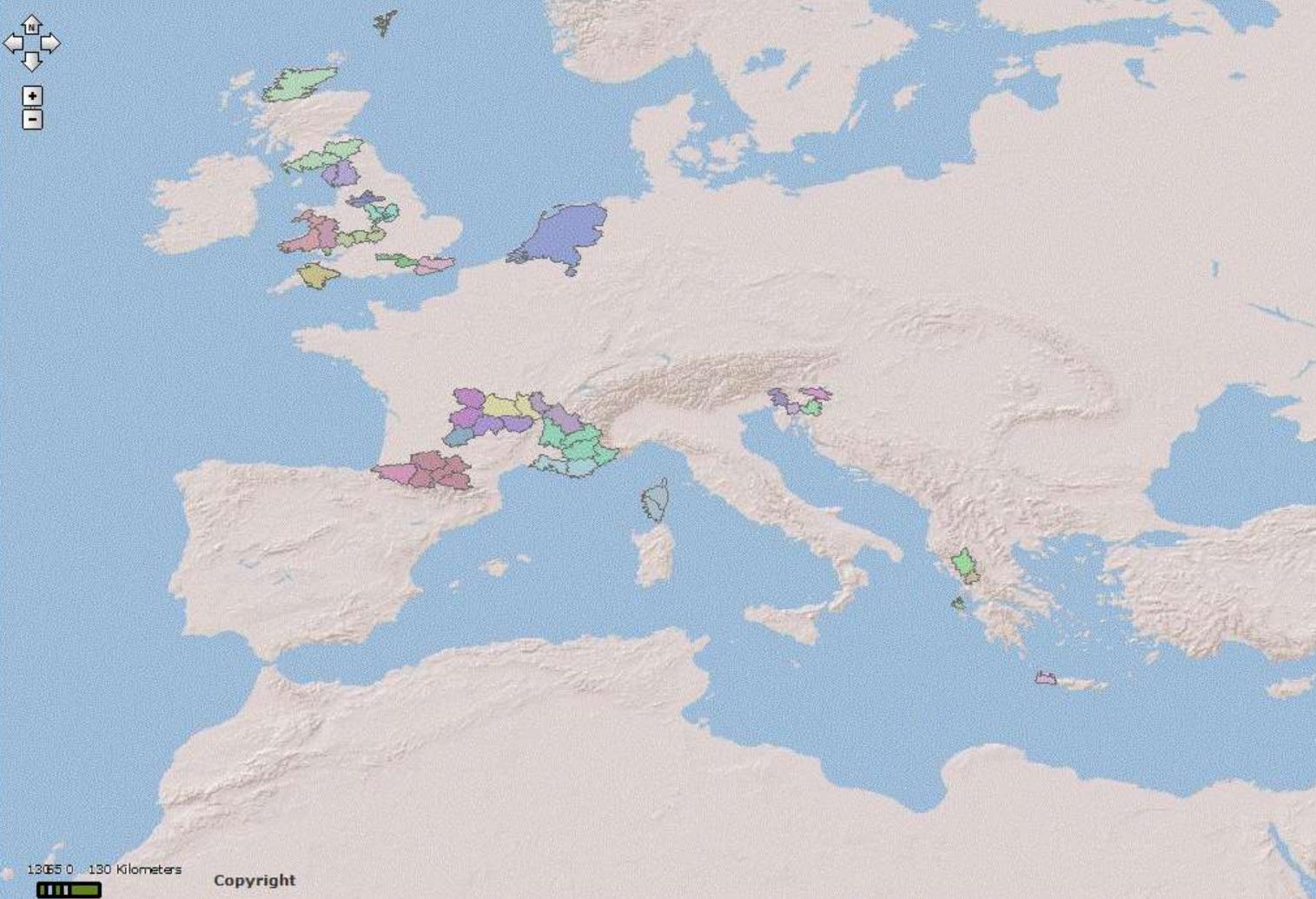


- Completing the database with geographical data fields at NUTS3 level
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- Creation of a dynamic application running under ARCGIS server



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- breeds
 - BREED LOCATION
 - Europe
- breeders_sheep
 - Breeders & Sheep
- factors
 - FACTORS
- values
 - Characteristics



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 Breeders & Sheep

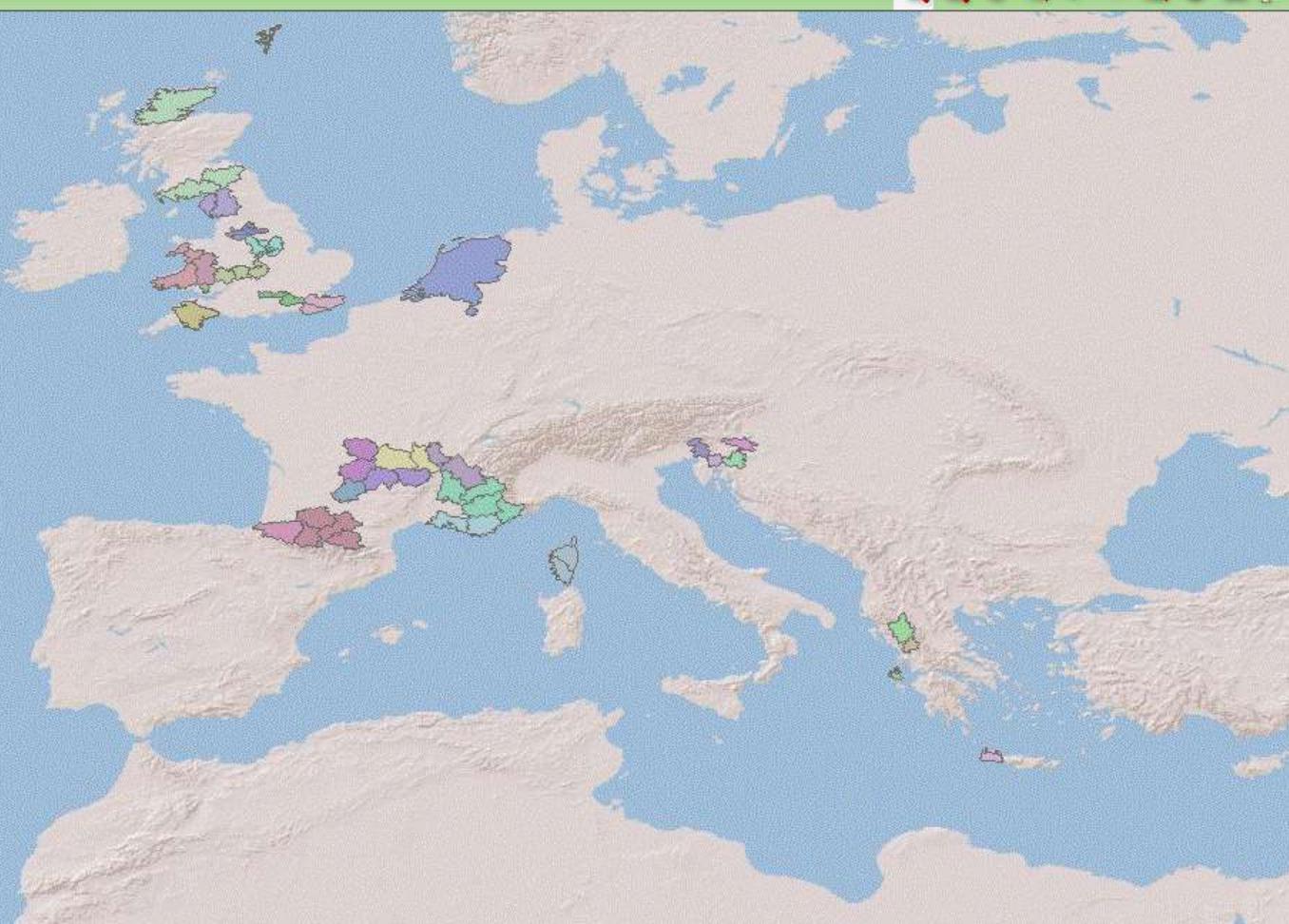
factors
 FACTORS

values
 Characteristics

Locate Breed

Breed Location Basco Béarnaise

- Basco Béarnaise
- Bela Krajina Pramenka
- Bizet
- Black Blazed
- Blue Texel
- Boutsiko (Orino)
- Bovec Sheep
- Brecknock Hill Cheviot
- Causses du Lot**
- Cheviot
- Clun Forest
- Corse
- Dalesbred
- Derbyshire Gritstone
- Devon Closewool
- Drenth Heath
- Exmoor Horn
- Flevolander
- Frizarta
- Grievette
- Herdwick
- Istrian Pramenka
- Jezersko - Solcava
- Katsika
- Kefallinias
- Kempen Heath
- Limousine
- Lonk
- Manech Tête Noire
- Manech Tête Rousse



130 Kilometers

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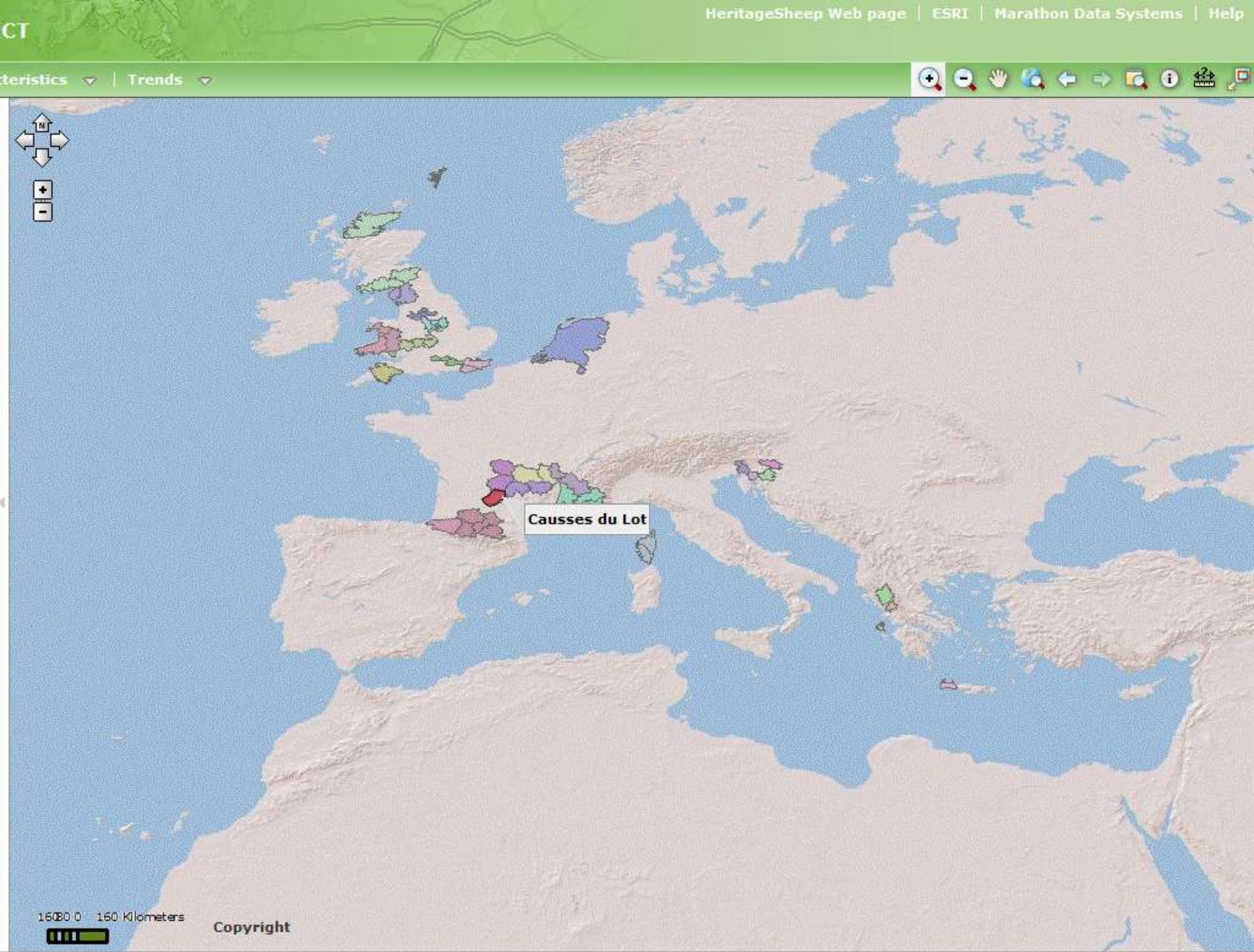
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- Locate Breed (1)**
 - BREED LOCATION (1)
 - Causses du Lot

Map Contents

- breeds
 - BREED LOCATION
 - Europe
- breeders_sheep
 - Breeders & Sheep
- factors
 - FACTORS
- values
 - Characteristics



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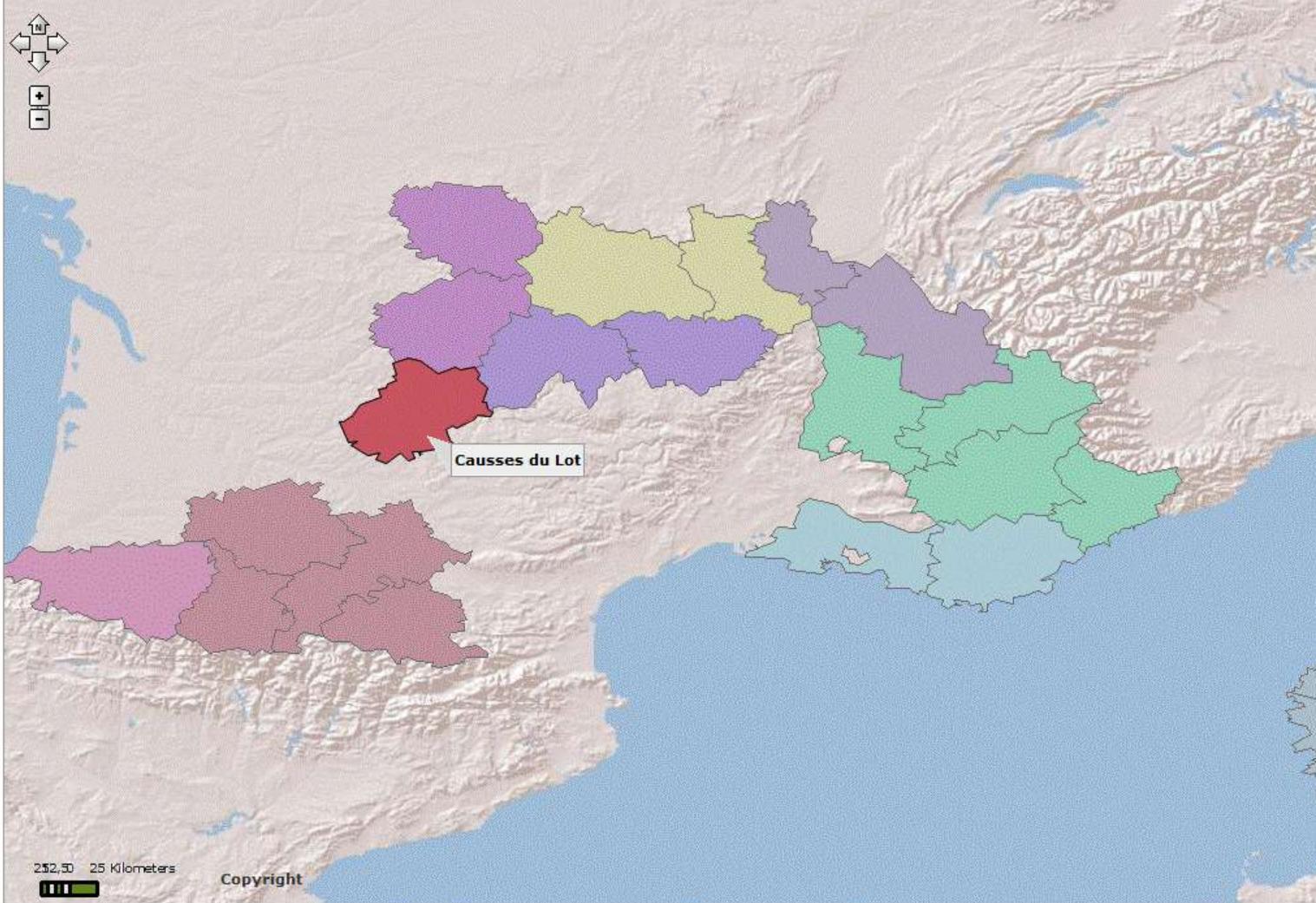
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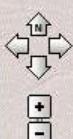
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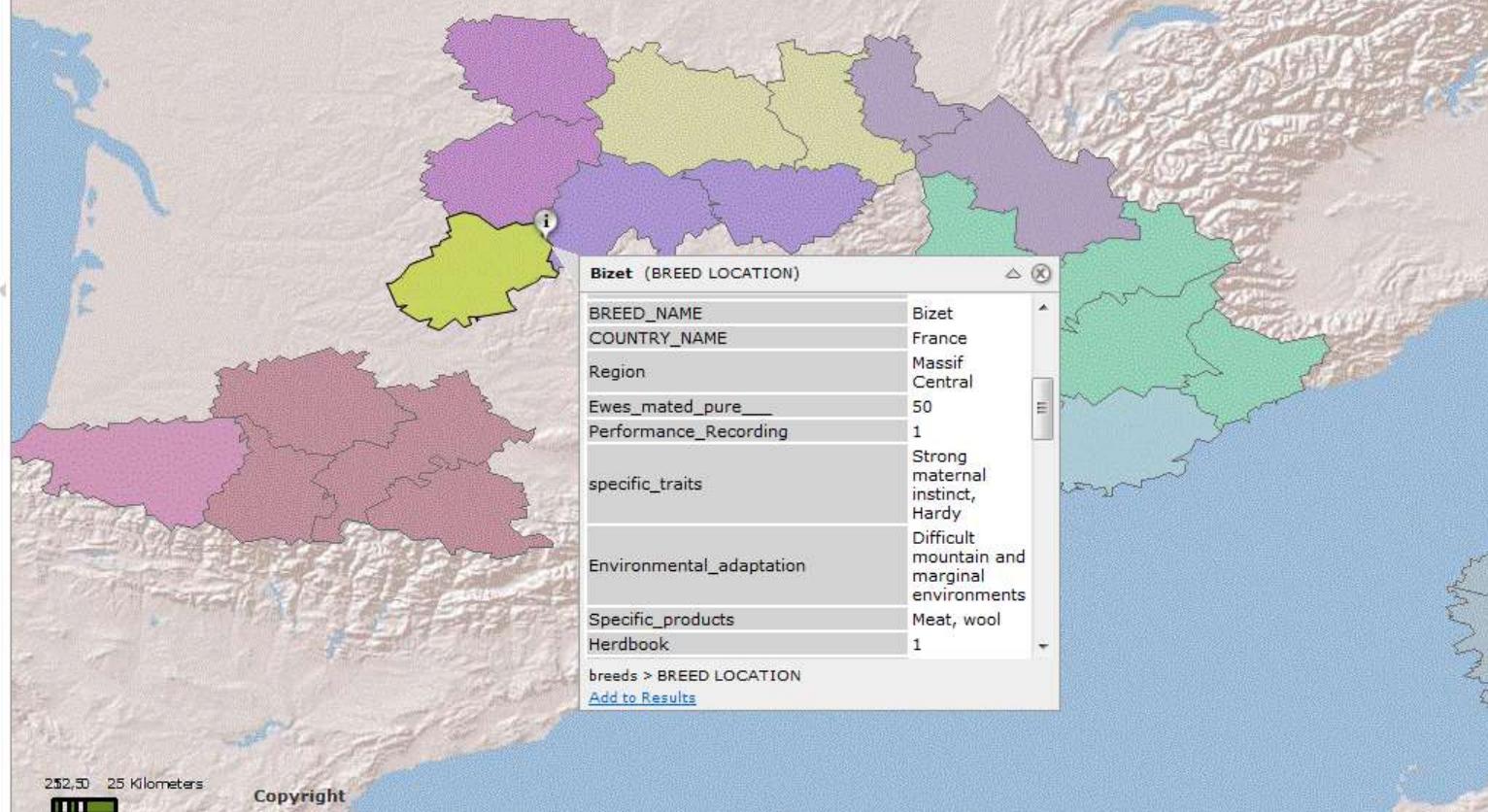
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- Locate Breed (1)**
 - BREED LOCATION (1)
 - Causses du Lot

**Map Contents**

- breeds
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 - Europe
- breeders_sheep
 - Breeders & Sheep
- factors
 - FACTORS
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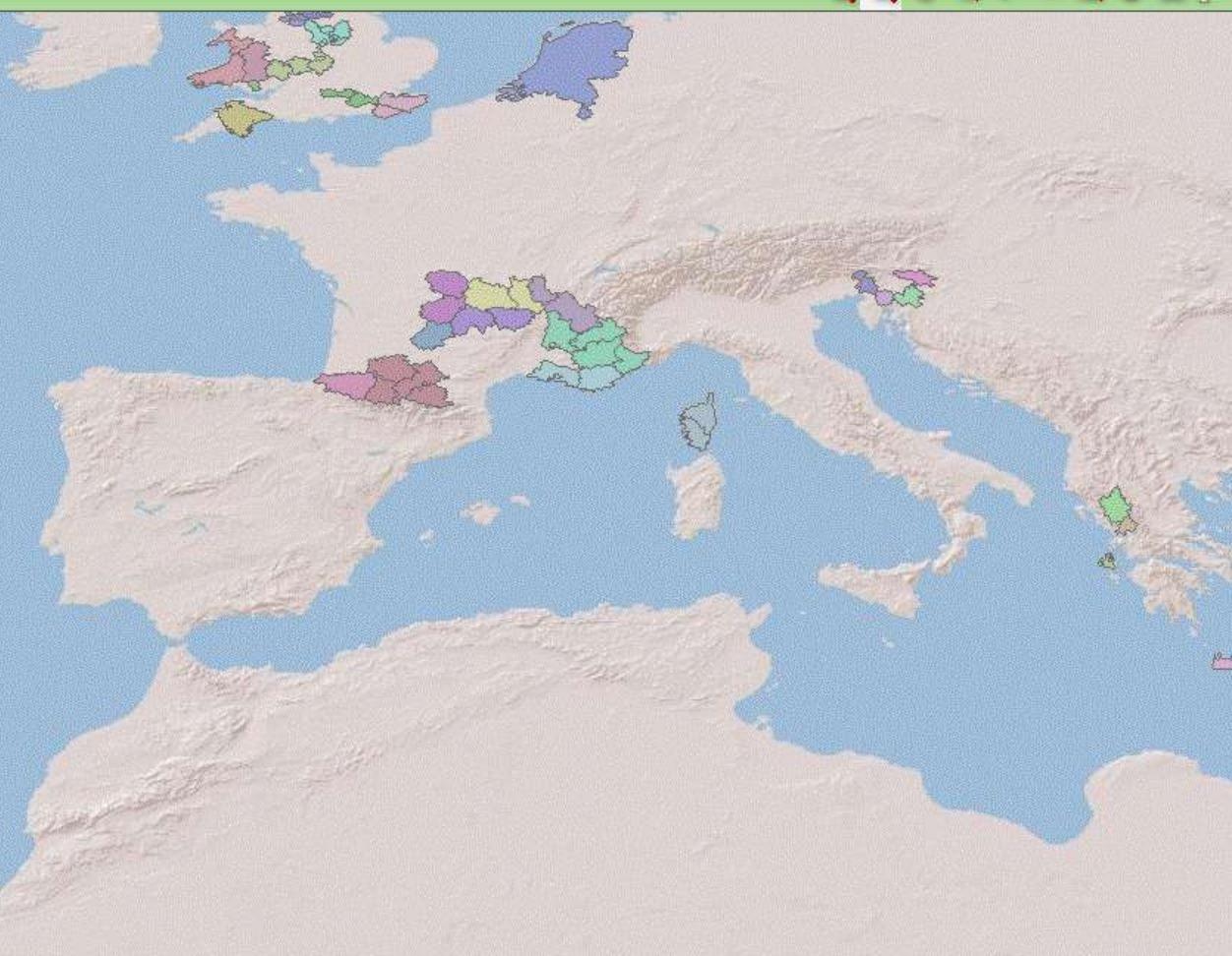
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Results

Locate Breed

- Breed Location **Istrian Pramenka**
- Grevette
 - Herdwick**
 - Istrian Pramenka
 - Jezersko – Solcava
 - Katsika
 - Kefallinias
 - Kempen Heath
 - Limousine
 - Lonk
 - Manech Tête Noire
 - Manech Tête Rousse
 - Mergelland
 - Merinos d'Arles
 - Mourerous
 - North Holland
 - Rava
 - Romney
 - Rough Fell
 - Schoonebeek
 - Sfakia
 - Shetland
 - South Welsh Mountain
 - Southdown
 - Swifter
 - Tarasconnais
 - Texel
 - Velay Black
 - Veluwe Heath
 - Welsh Hill Speckled
 - Zeeland milksheep



110 Kilometers

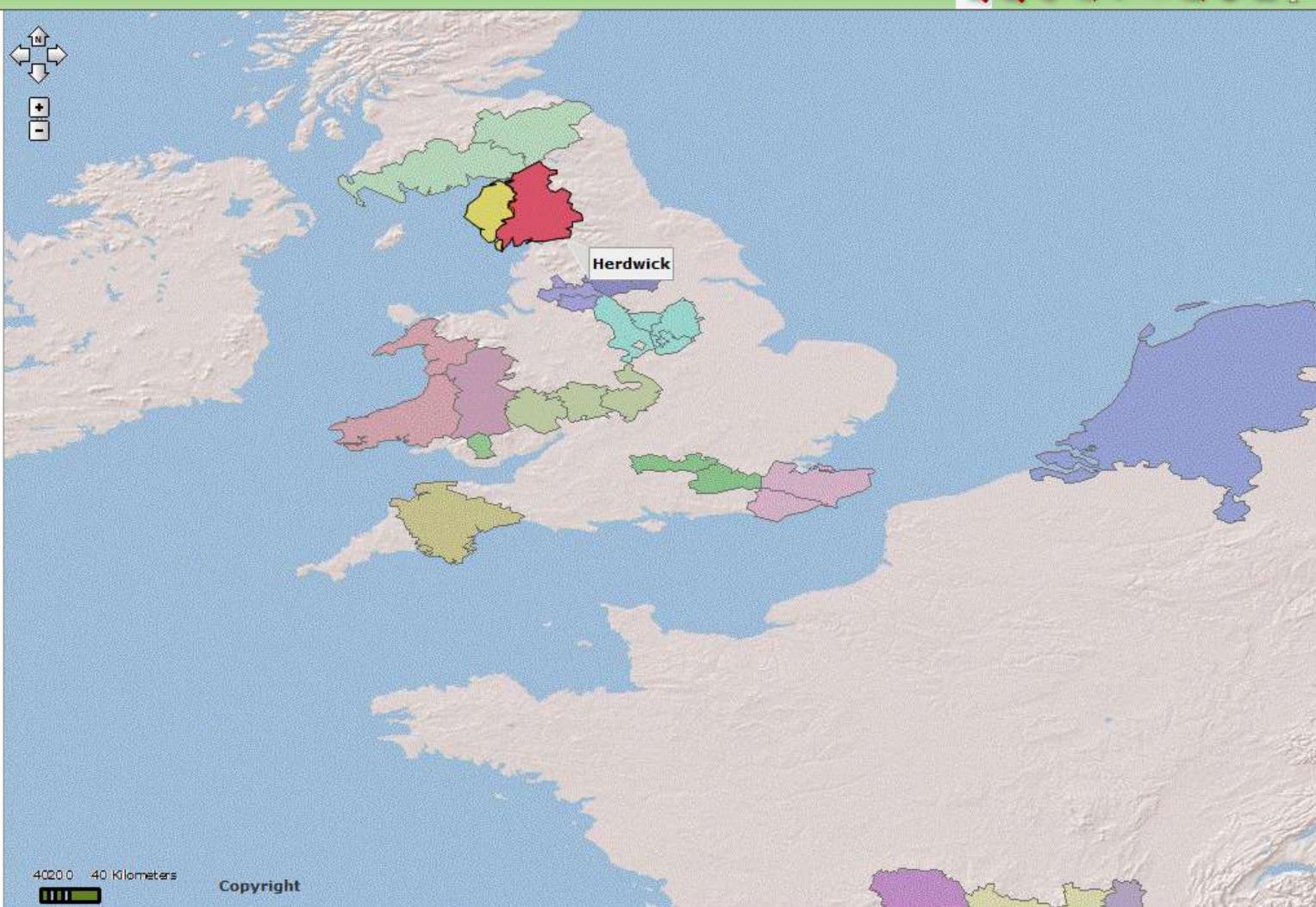
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 BREED LOCATION (2)
 Herdwick
 Herdwick **Locate Breed (1)****Map Contents**

40200 40 Kilometers

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Locate Breed | Factors ▾ | Characteristics ▾ | Trends ▾



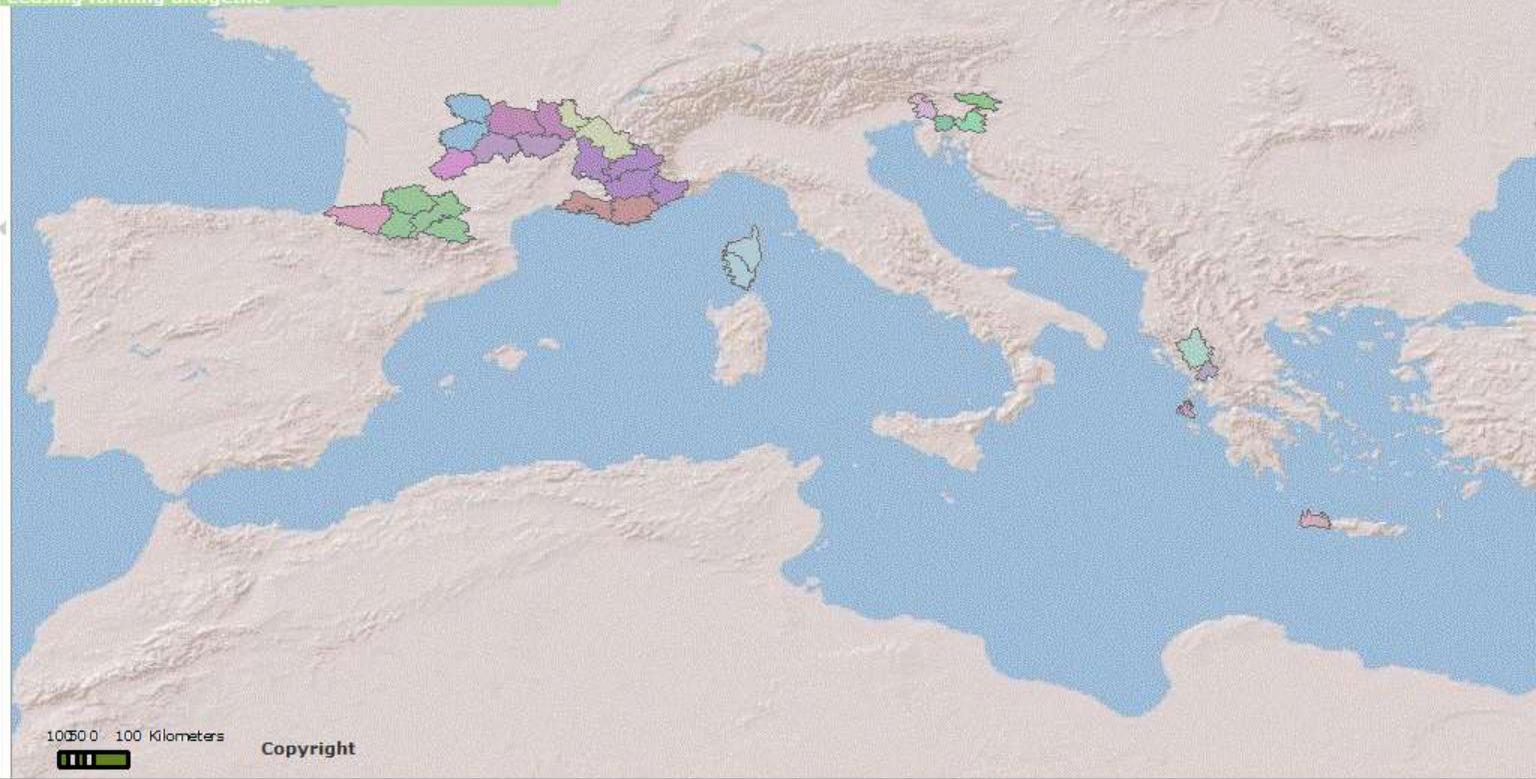
Results

- Social
- Environmental
- Political
- Disease Threats

Removal of headage payments
Environmental scheme changes
Need to increase farm productivity
Need to make management easier
Non farming uses of land
Decreasing the area of actively farmed land
Decreasing farm labour
Decreasing the use of inputs
Going organic
Diversification into non farming enterprises on the farm
Ceasing farming altogether

Map Contents

- breeds
 - + BREED LOCATION
 - + Europe
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 - + Breeders & Sheep
- factors
 - + FACTORS
- values
 - + Characteristics



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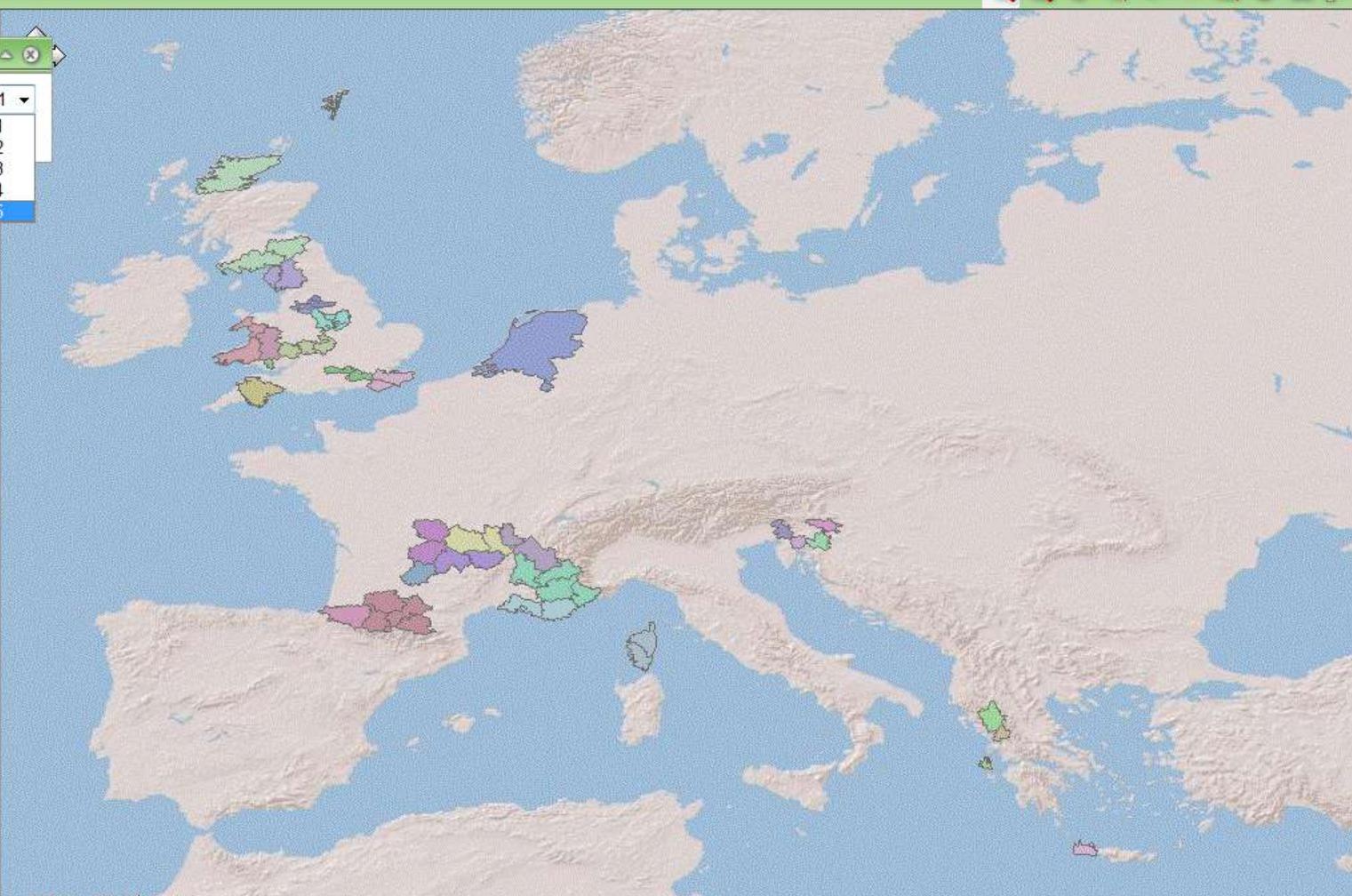
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Results

Milk (12)

Non farming uses of land

Non farming uses of land 1 ▾
1
2
3
4
5

Map Contents

12000 120 Kilometers

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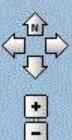
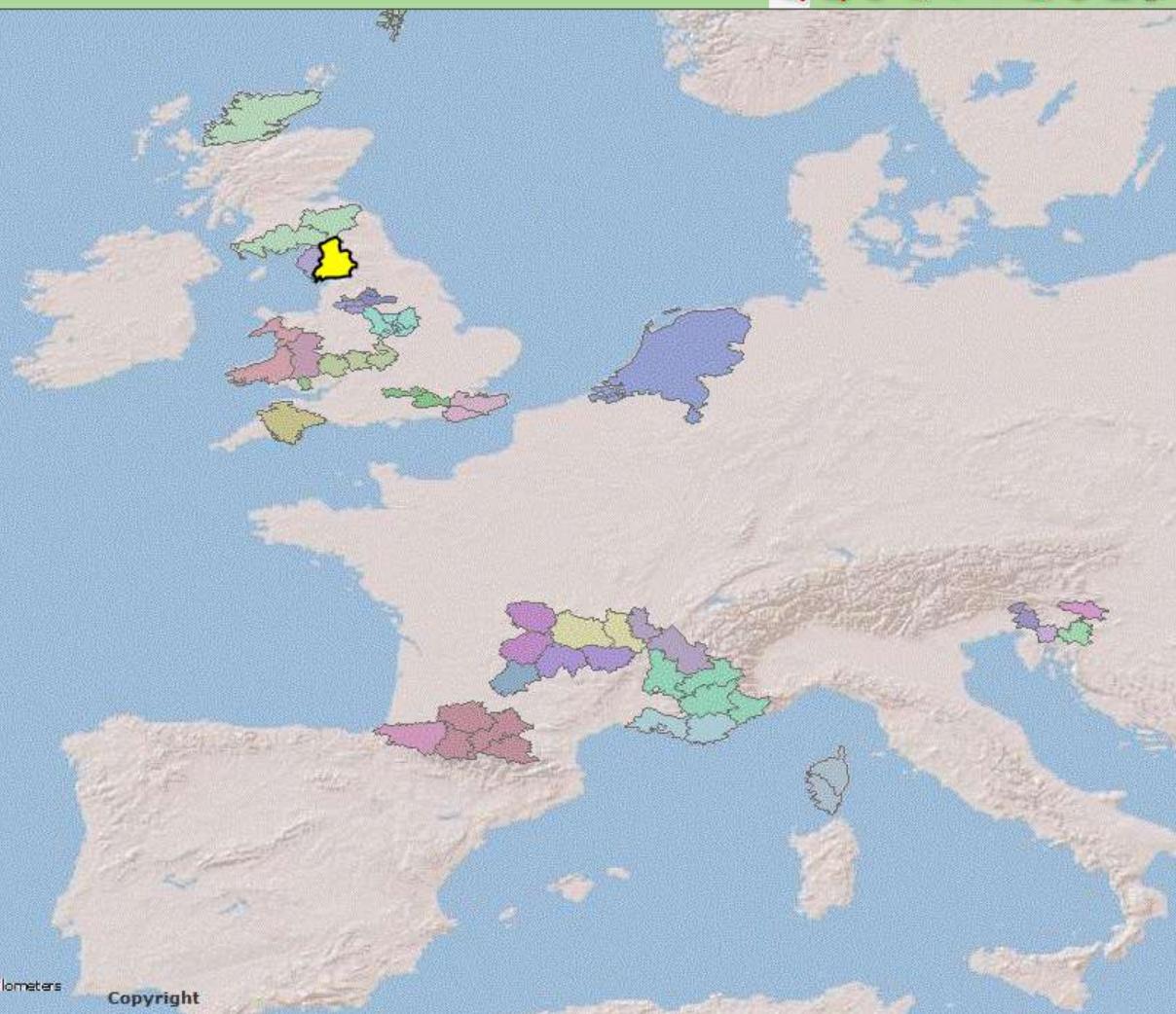
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- Non farming uses of land (1)
 - FACTORS (1)
 - Rough Fell

**Map Contents**

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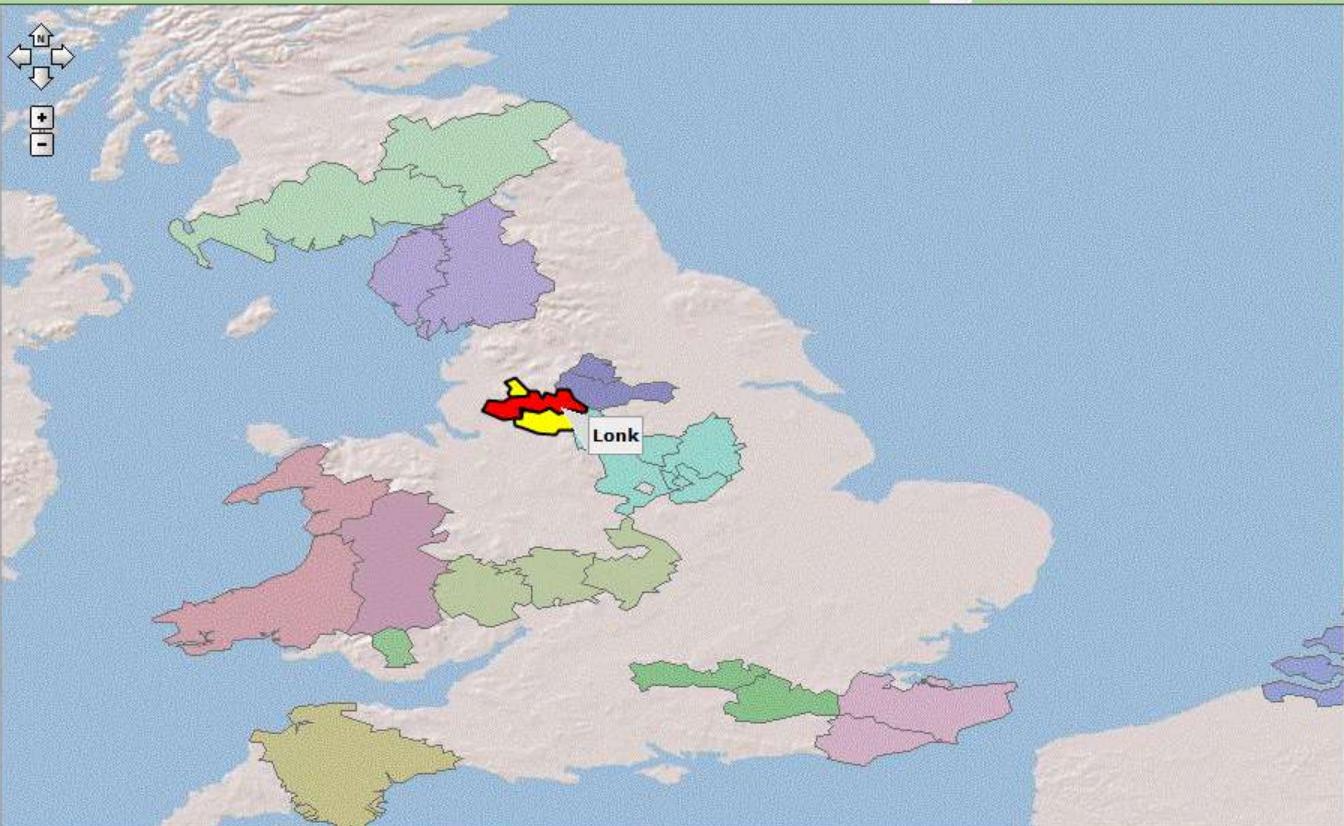
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- Lonk
- Lonk
- Lonk

 Non farming uses of land (1)**Map Contents**

3015 0 30 Kilometers

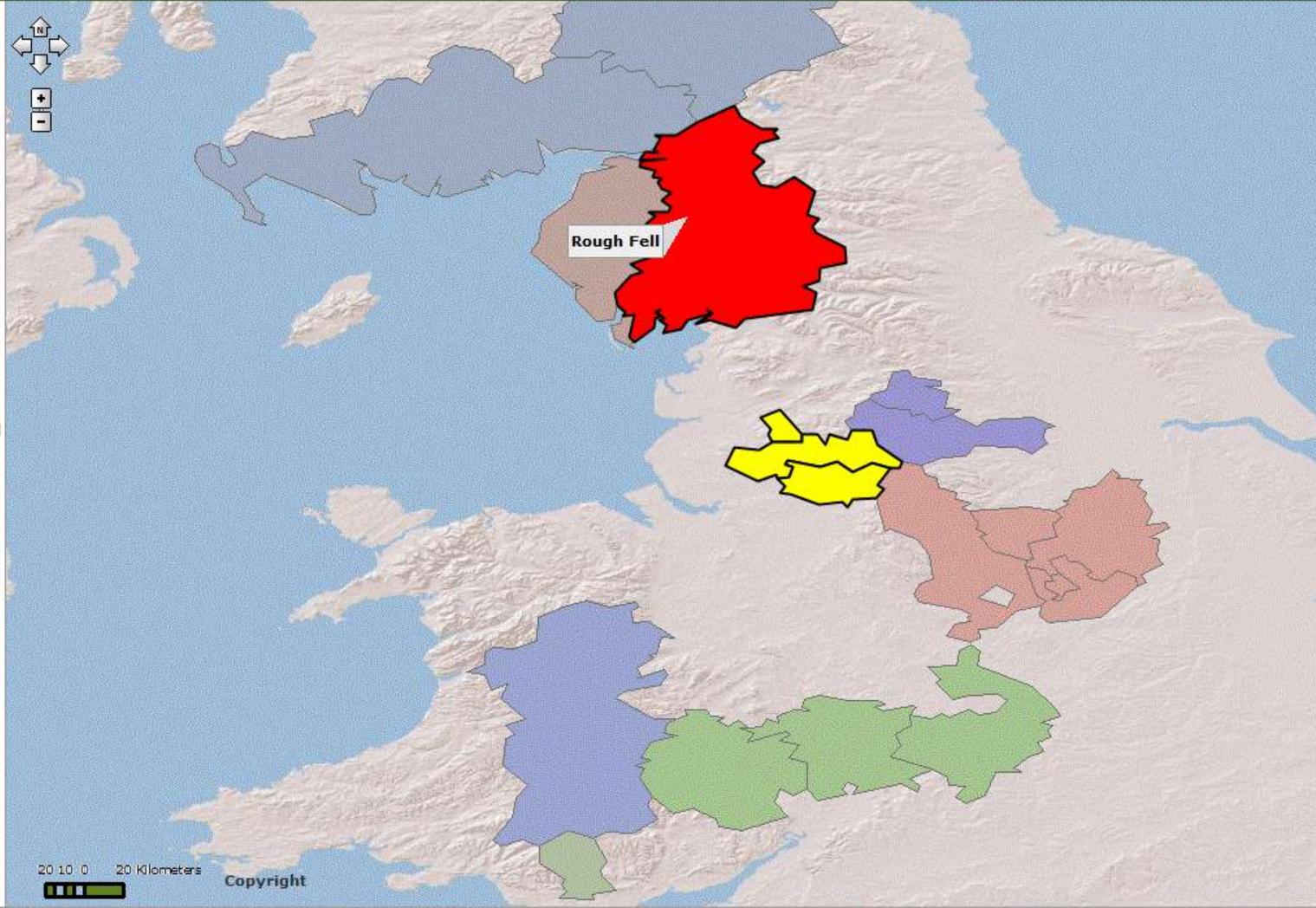
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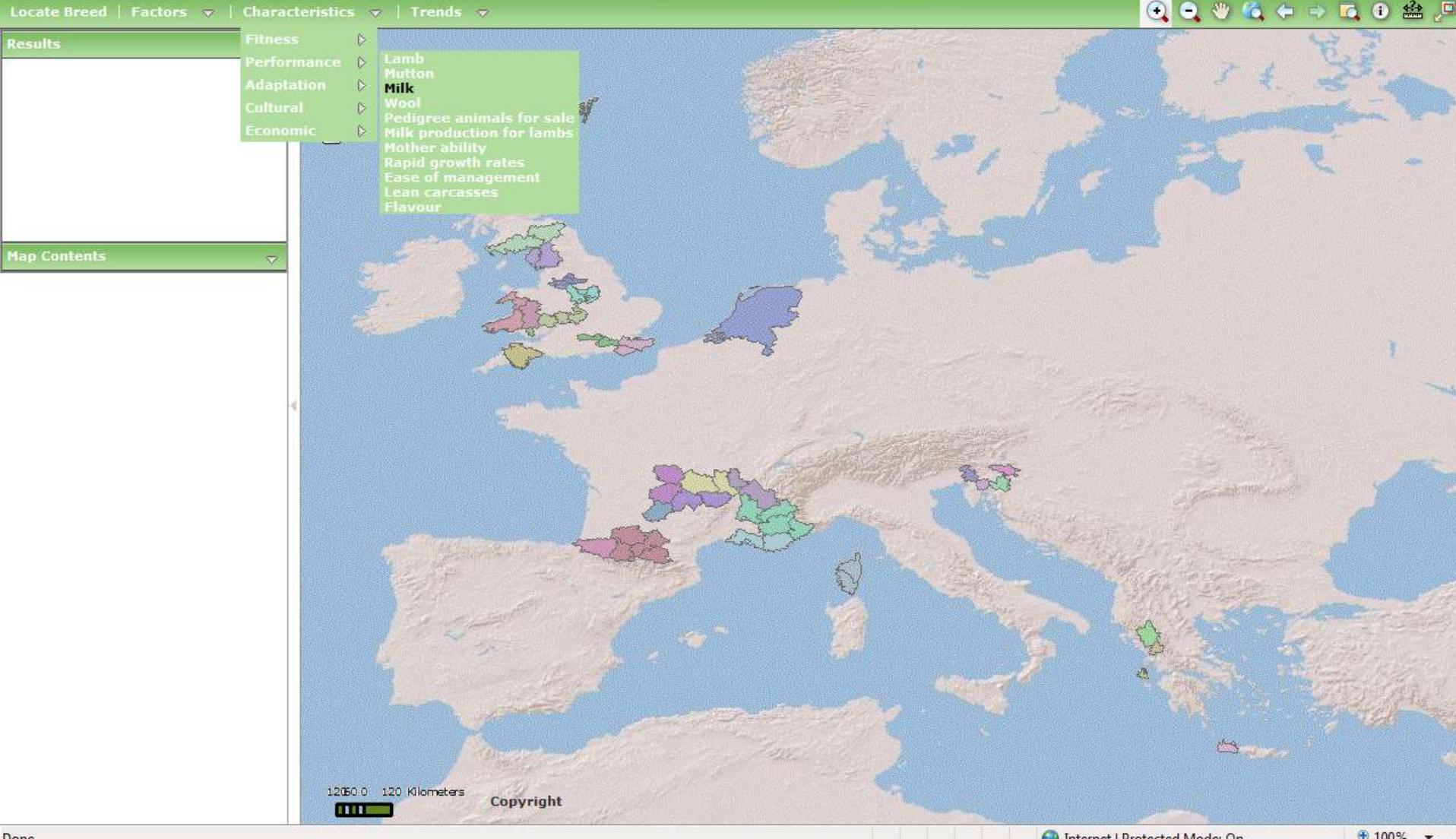
[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾**Results**[Clear All](#) **Non farming uses of land (1)** FACTORS (1) Rough Fell **Non farming uses of land (3)** FACTORS (3) Lonk Lonk Lonk

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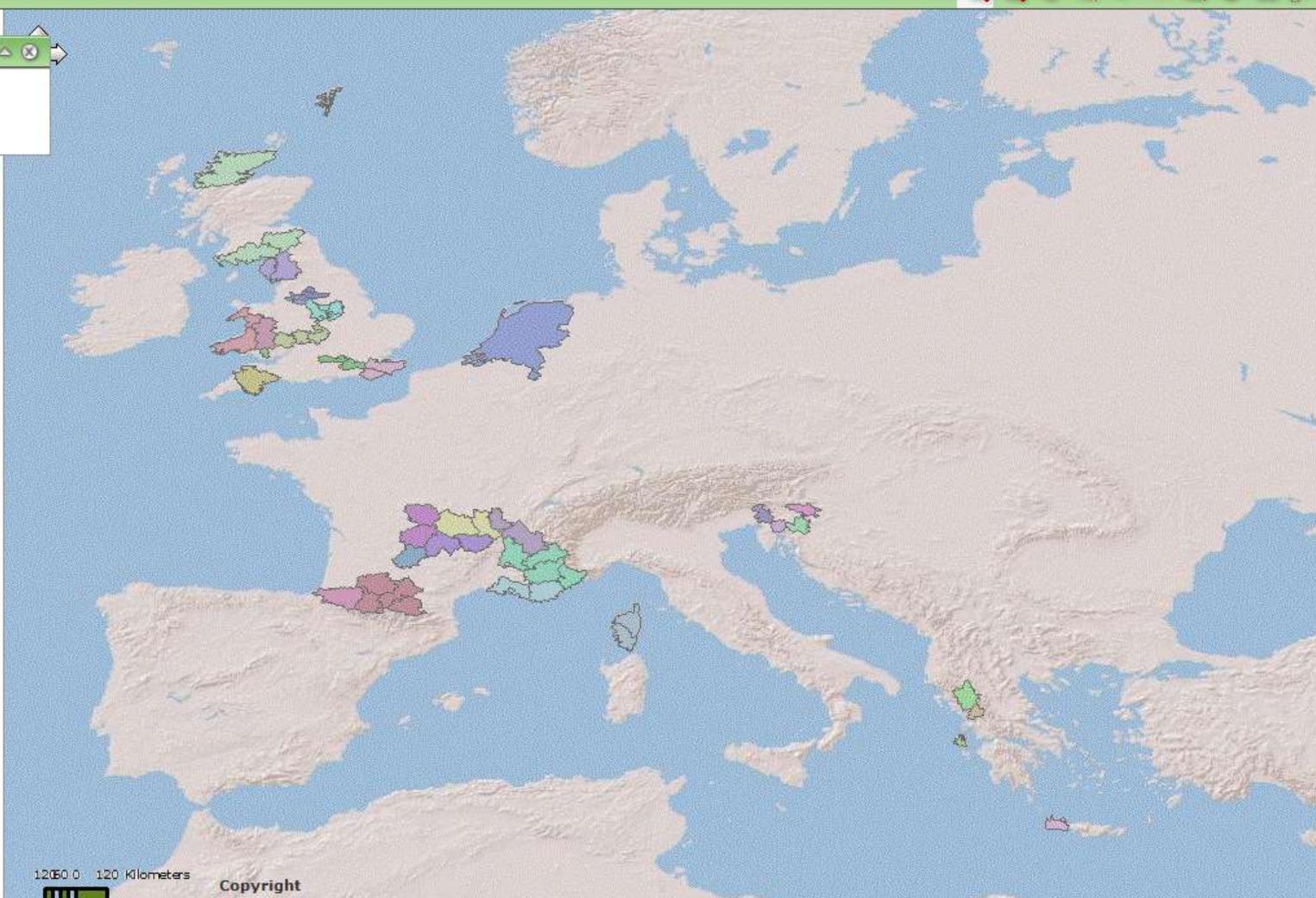
Results

Milk

Milk **5** ▾

Find

Map Contents



120 Kilometers

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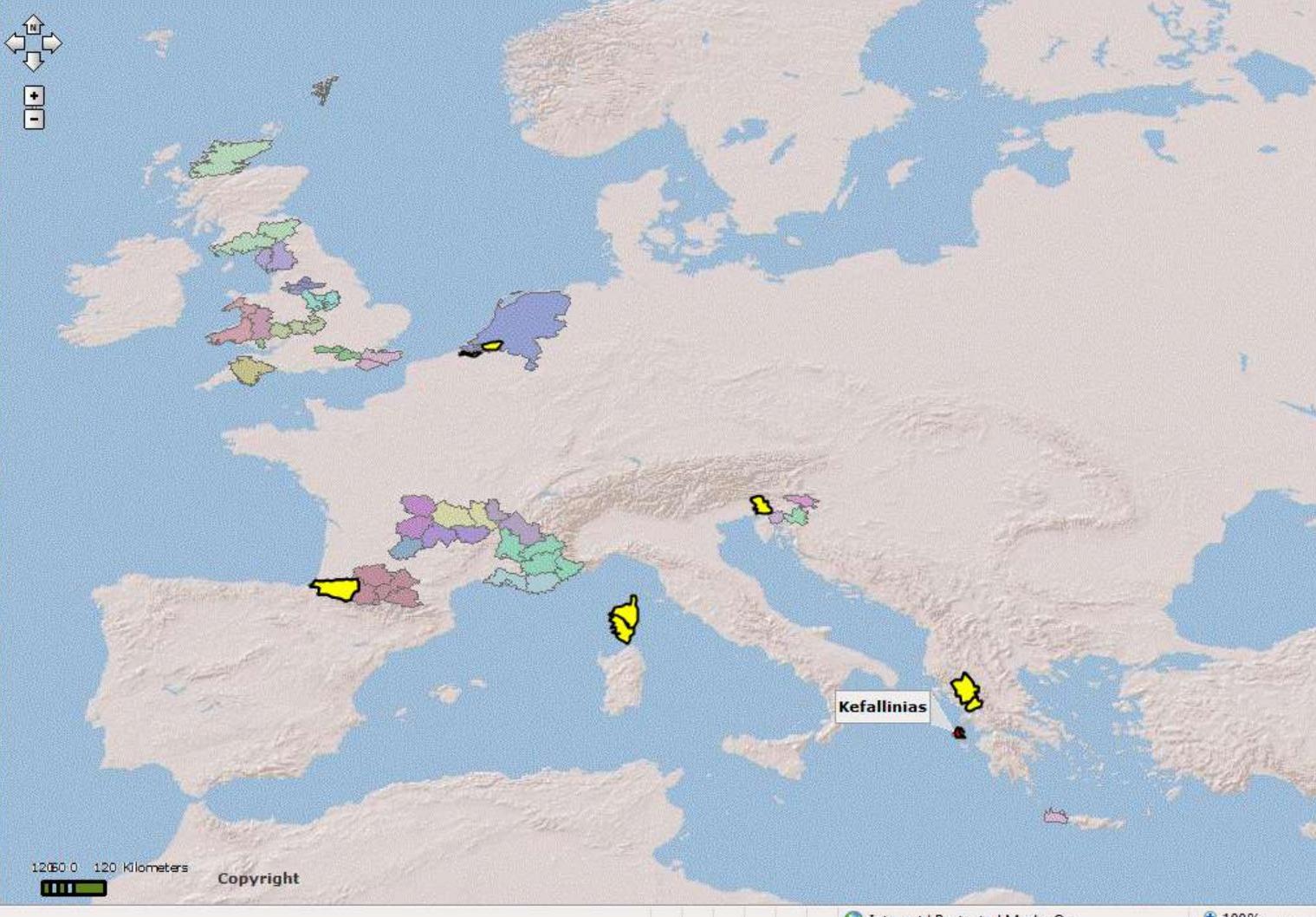
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Results

- Milk (12)
 - Characteristics (12)
 - Zealand milksheep
 - Zealand milksheep
 - Bovec Sheep
 - Basco Béarnaise
 - Corse
 - Corse
 - Katsika
 - Frizarta
 - Kefallinias
 - Boutsiko (Orino)
 - Manech Tête Noire
 - Manech Tête Rousse



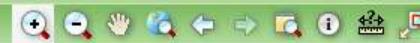
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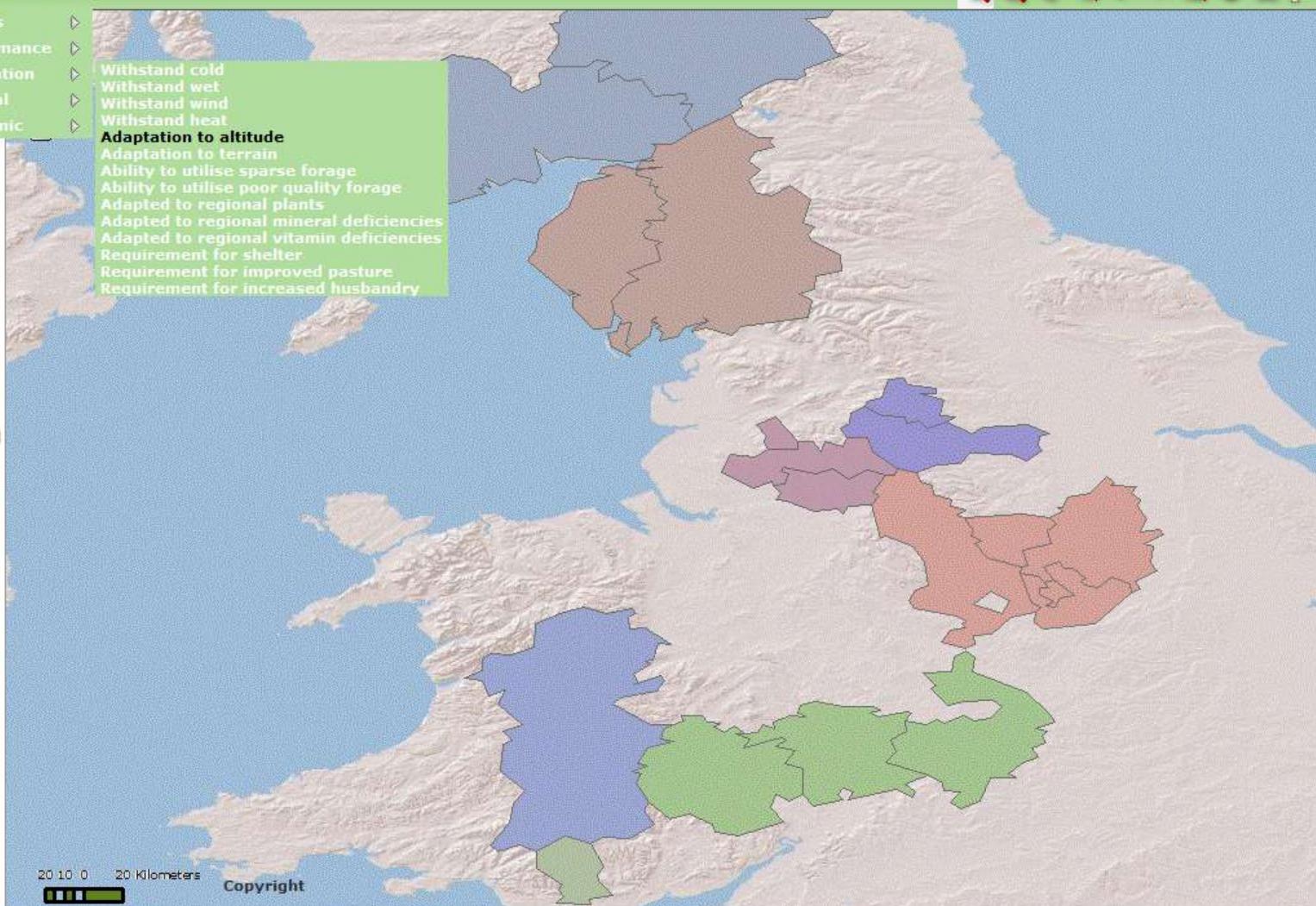
**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

HERITAGESHEEP BREED GIS PROJECT

[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾


Results

- Fitness**
- Withstand cold
- Withstand wet
- Withstand wind
- Withstand heat
- Performance**
- Adaptation to altitude
- Adaptation to terrain
- Ability to utilise sparse forage
- Ability to utilise poor quality forage
- Adapted to regional plants
- Adapted to regional mineral deficiencies
- Adapted to regional vitamin deficiencies
- Requirement for shelter
- Requirement for improved pasture
- Requirement for increased husbandry
- Adaptation**
- Cultural**
- Economic**



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HERITAGE SHEEP
 France, Greece, Netherlands, Slovenia, UK

[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾

Results

Adaptation to altitude ▾ ▾ ▾

Adaptation to altitude

5 ▾

1
2
3
4
5

120 60 0 120 Kilometers

Copyright



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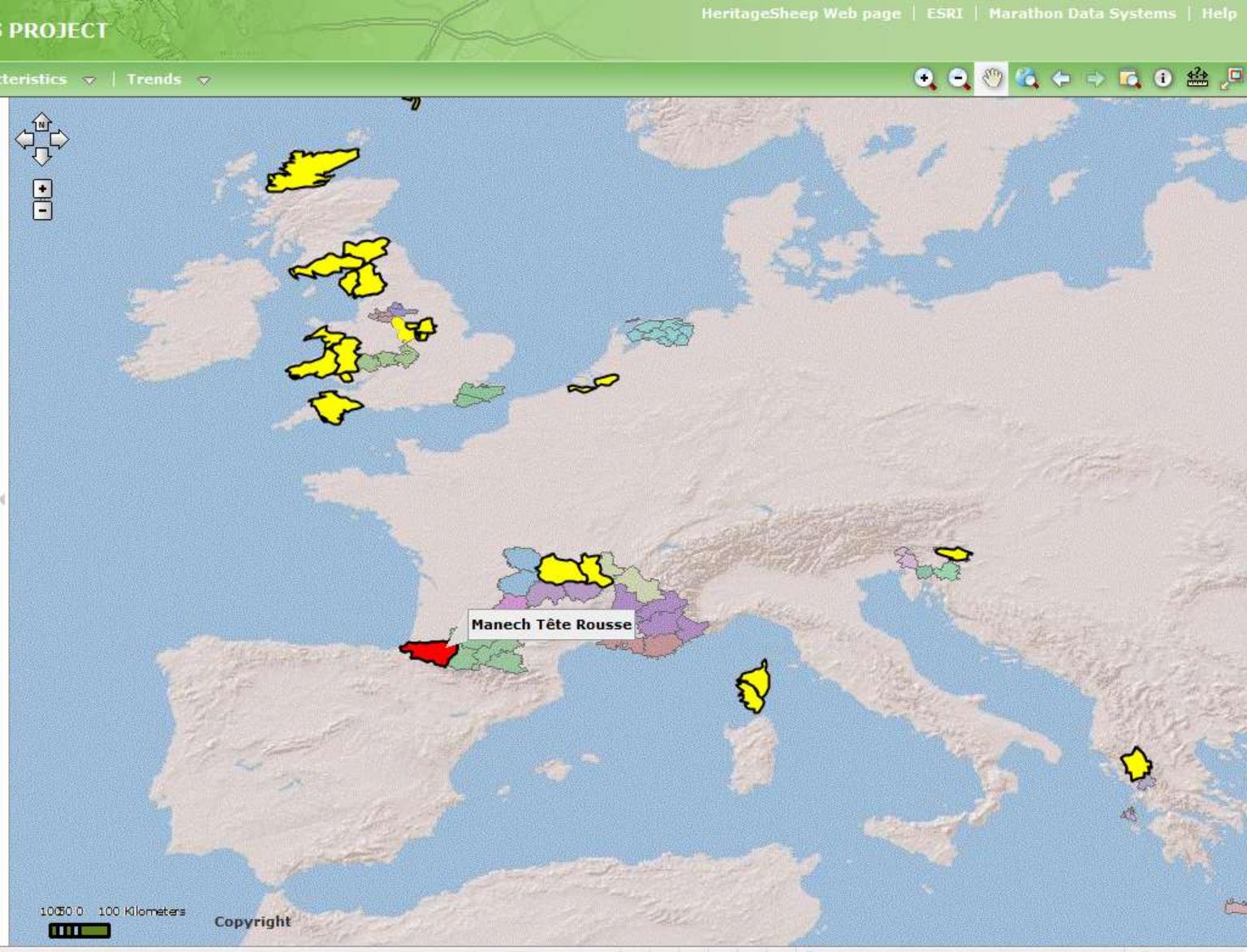
**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾

Results

- Adaptation to altitude (31)**
 - Characteristics (31)
Records 1 - 25 of 31 ▾
 - Shetland
 - Cheviot
 - Cheviot
 - Cheviot
 - Rough Fell
 - Herdwick
 - Derbyshire Gritston
 - Derbyshire Gritston
 - Derbyshire Gritston
 - Welsh Hill Speckled
 - Derbyshire Gritston
 - Derbyshire Gritston
 - Brecknock Hill Chev
 - Welsh Hill Speckled
 - South Welsh Mounta

Map Contents



Done

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**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

HERITAGESHEEP GIS PROJECT

Locate Breed | Factors ▾ | Characteristics ▾ | Trends ▾



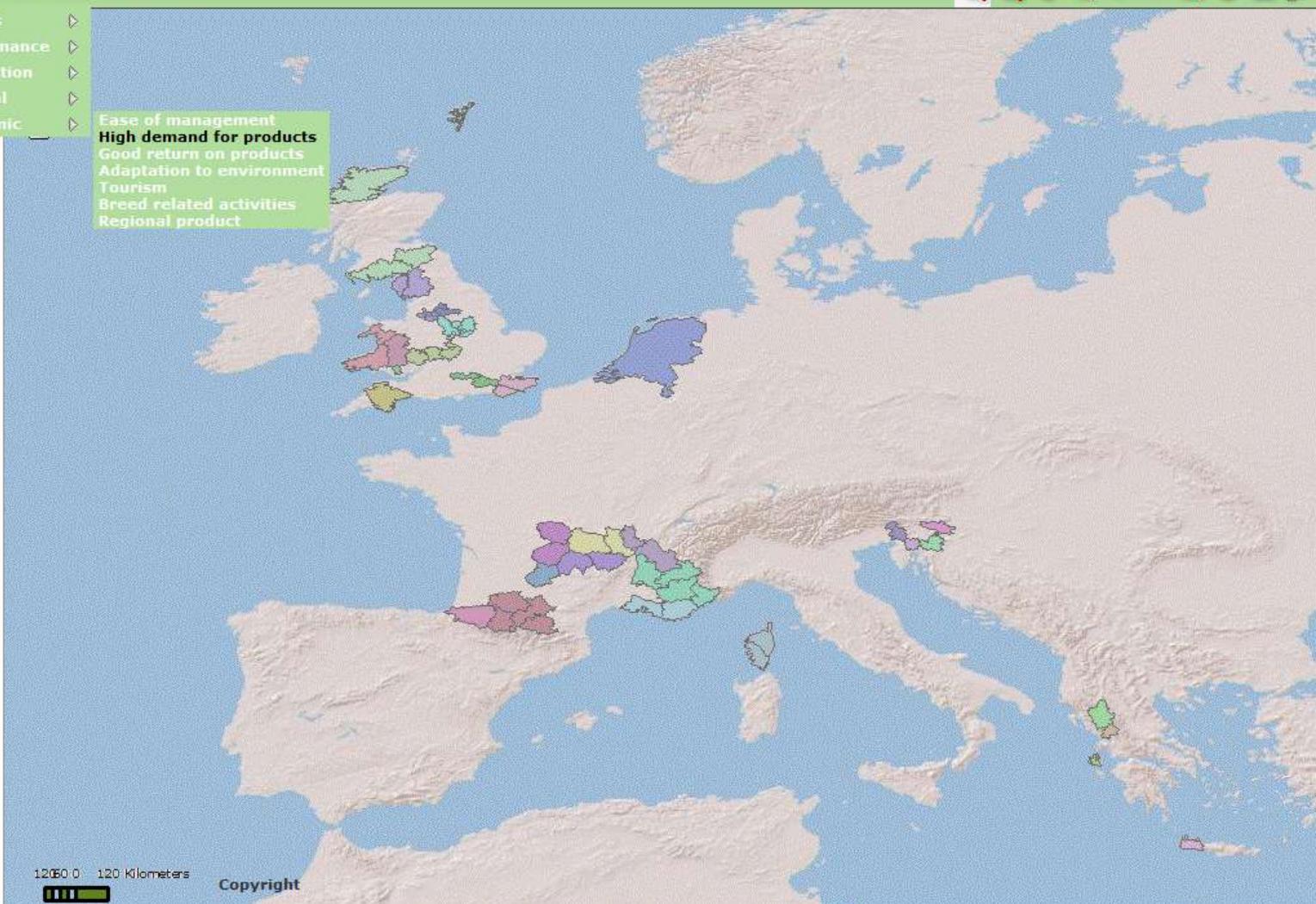
Results

Map Contents

- breeds
 - + BREED LOCATION
 - + Europe
- breeders_sheep
 - + Breeders & Sheep
- factors
 - + FACTORS
- values
 - + Characteristics

 Fitness ▾
 Performance ▾
 Adaptation ▾
 Cultural ▾
 Economic ▾

- Ease of management
High demand for products
 Good return on products
 Adaptation to environment
 Tourism
 Breed related activities
 Regional product



javascript:showFloatingPanel('TaskManager1_QueryAttributesTask77')

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HERITAGE SHEEP
 France, Greece, Netherlands, Slovenia, UK

HERITAGESHEEP GIS PROJECT

[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾

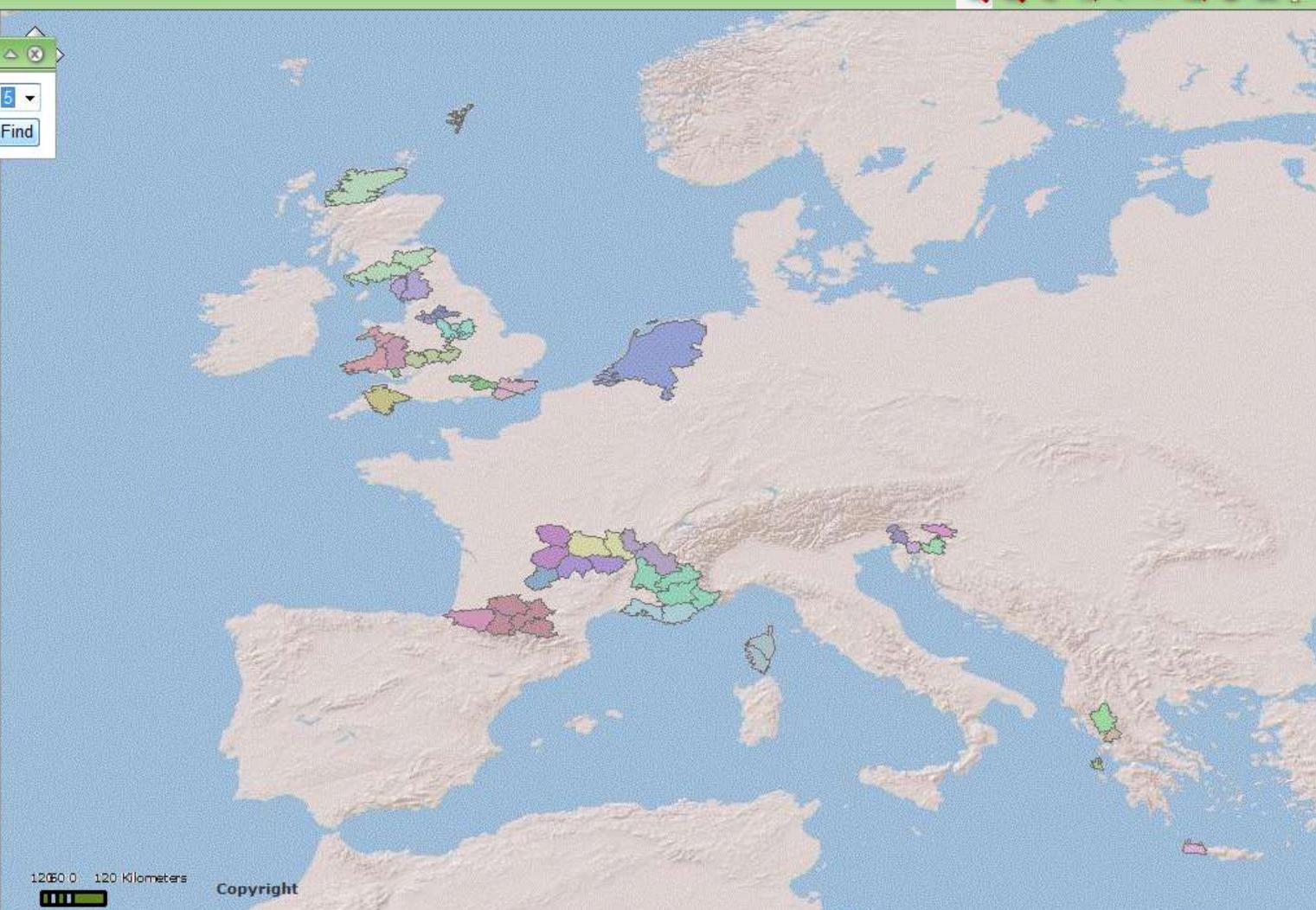
Results

Map Contents

High demand for products

 breeds BRI Eur

Find

 breeders_sheep Breeders & Sheep factors FACTORS values Characteristics

12000 0 120 Kilometers

Copyright

Done

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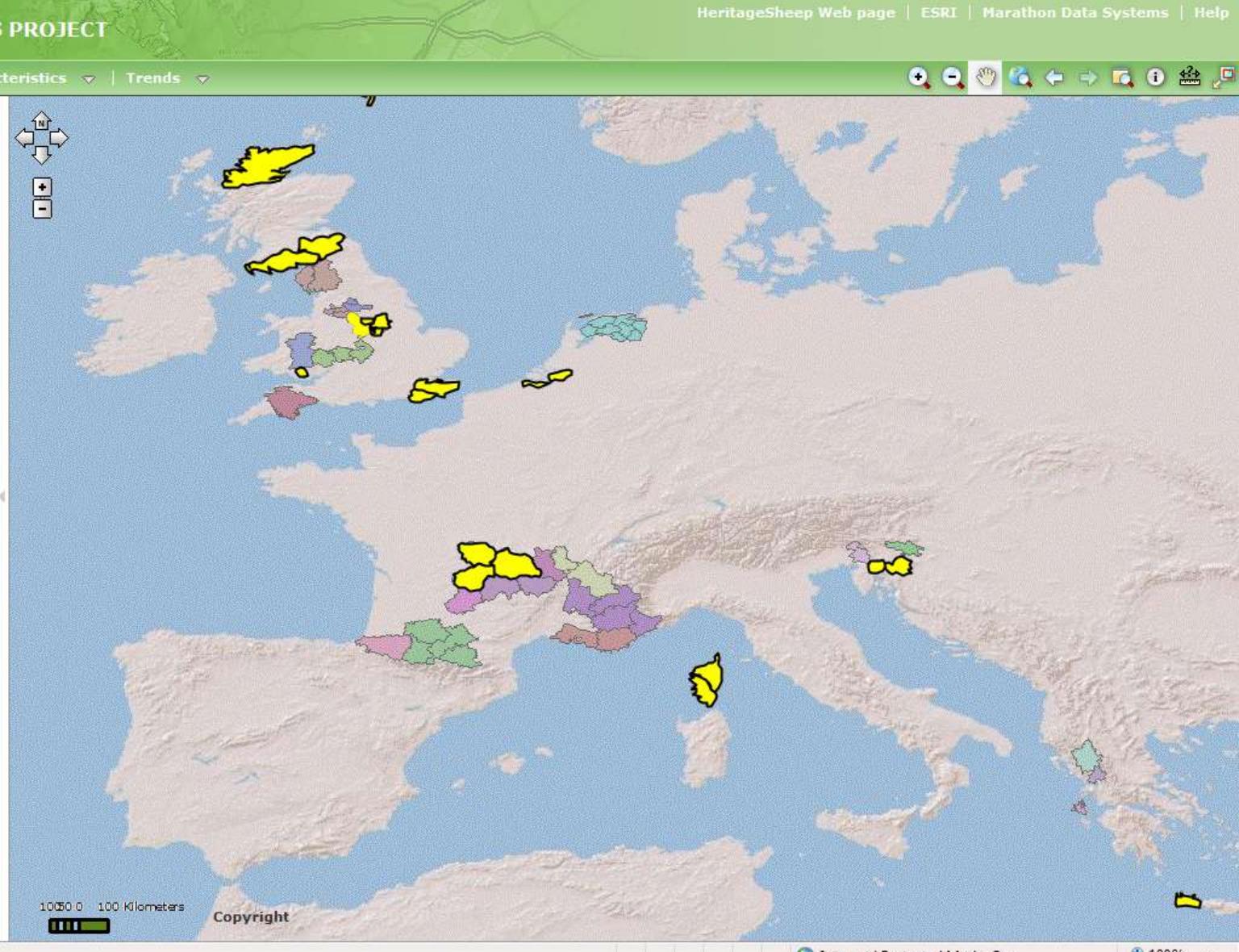
**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾

Results

- High demand for products (22)
 - Characteristics (22)
 - Shetland
 - Cheviot
 - Cheviot
 - Cheviot
 - Derbyshire Gritston
 - South Welsh Mountain
 - Zeeland milksheep
 - Romney
 - Zeeland milksheep
 - Romney
 - Limousine

Map Contents



Done

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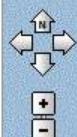
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**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

HERITAGESHEEP BREED GIS PROJECT

[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾[Results](#)

- Breeders ▶ How many members in Breed society
Sheep ▶ Breeders over 60 years old
Breeders under 35 years old
Percentage of farms have succession



◀

▶

[Map Contents](#)

100 Kilometers



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**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

HERITAGESHEEP GIS PROJECT

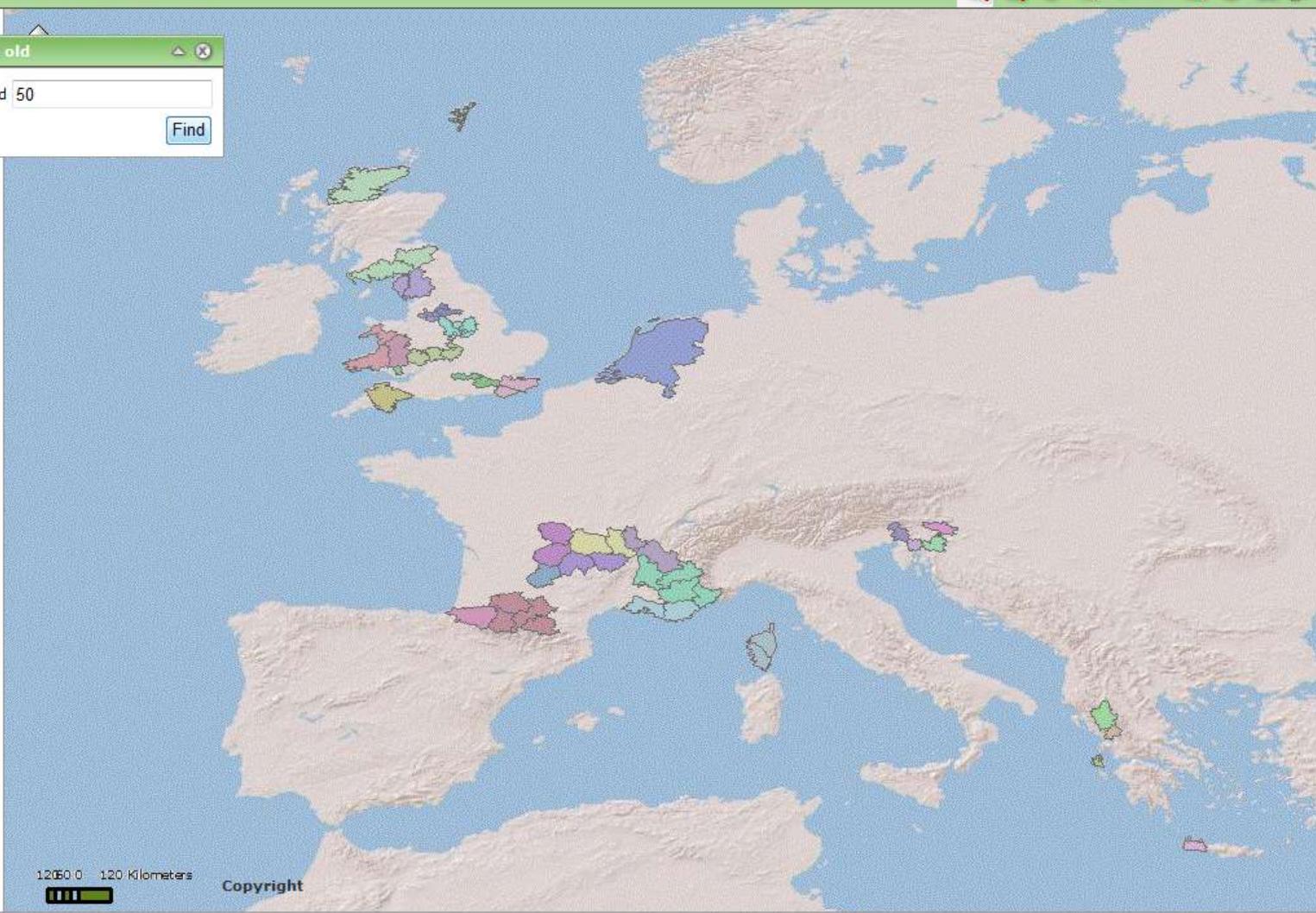
[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾

Results

Breeders over 60 years old

Map Contents

- breeds
 - BREED LOCATION
 - Europe
- breeders_sheep
 - Breeders & Sheep
- factors
 - FACTORS
- values
 - Characteristics



Copyright

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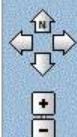
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**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

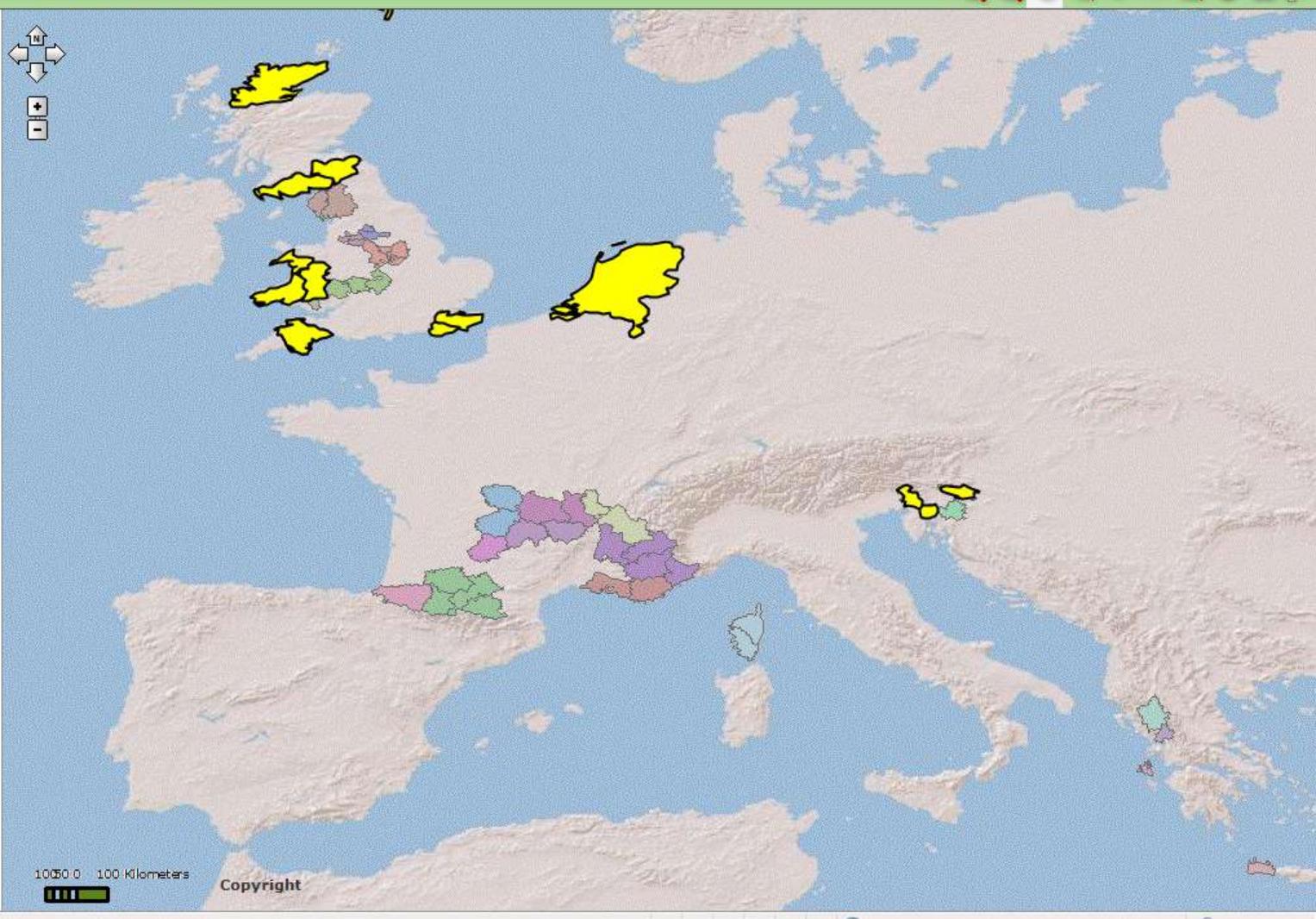
[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾

Results

- Breeders over 60 years old (22)
 - Breeders & Sheep (22)
 - Shetland
 - Cheviot
 - Cheviot
 - Cheviot
 - Welsh Hill Speckled
 - Brecknock Hill Cheviot
 - Welsh Hill Speckled
 - Mergelland
 - Romney
 - Mergelland
 - Romney
 - Mergelland
 - Devon Closewool
 - Devon Closewool
 - Jezersko - Solcava



Map Contents



100 Kilometers

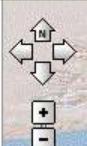
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**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾**Results**[Breeders](#) ▶[Sheep](#) ▶

Total estimate number of sheep
Percentage of breed located in the region stated
Total number of sheep since 2000
Flocks size since 2000
Future estimation of sheep number

Map Contents

18800 180 Kilometers

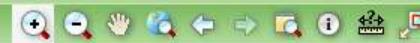


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**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾

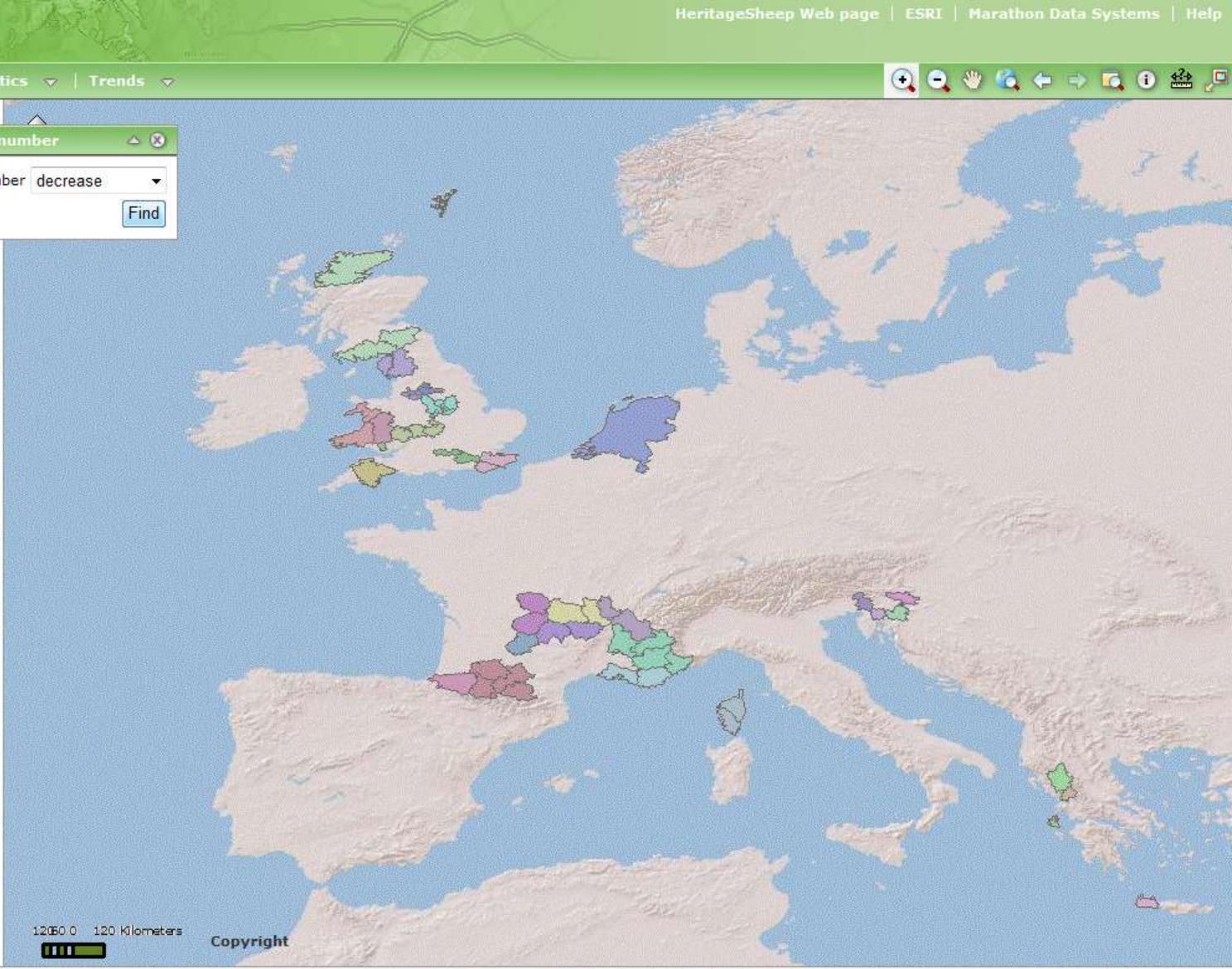
Results

Future estimation of sheep number

Future estimation of sheep number decrease

Map Contents

- breeds
 - BREED LOCATION
 - Europe
- breeders_sheep
 - Breeders & Sheep
- factors
 - FACTORS
- values
 - Characteristics



120 Kilometers

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Done

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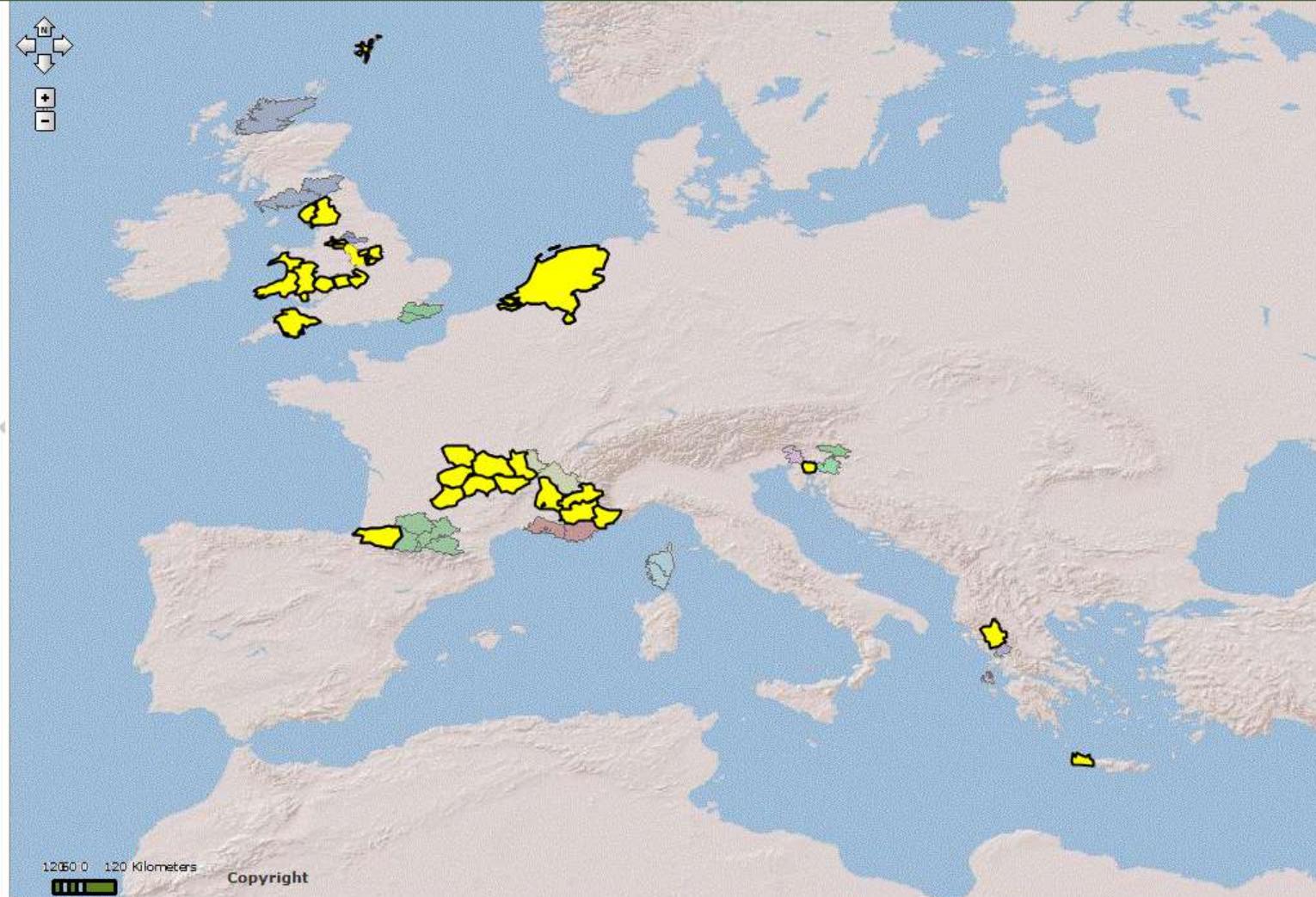
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**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

Results

- Future estimation of sheep numbers
- Breeders & Sheep (45)
 - Records 1 - 25 of 45>
 - North Holland
 - Shetland
 - Herdwick
 - Lonk
 - Lonk
 - Lonk
 - Derbyshire Gritstone
 - Derbyshire Gritstone
 - Derbyshire Gritstone
 - Welsh Hill Speckled
 - Derbyshire Gritstone
 - Derbyshire Gritstone
 - Brecknock Hill Cheviot

Map Contents



Done

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HERITAGE SHEEP
France, Greece, Netherlands, Slovenia, UK

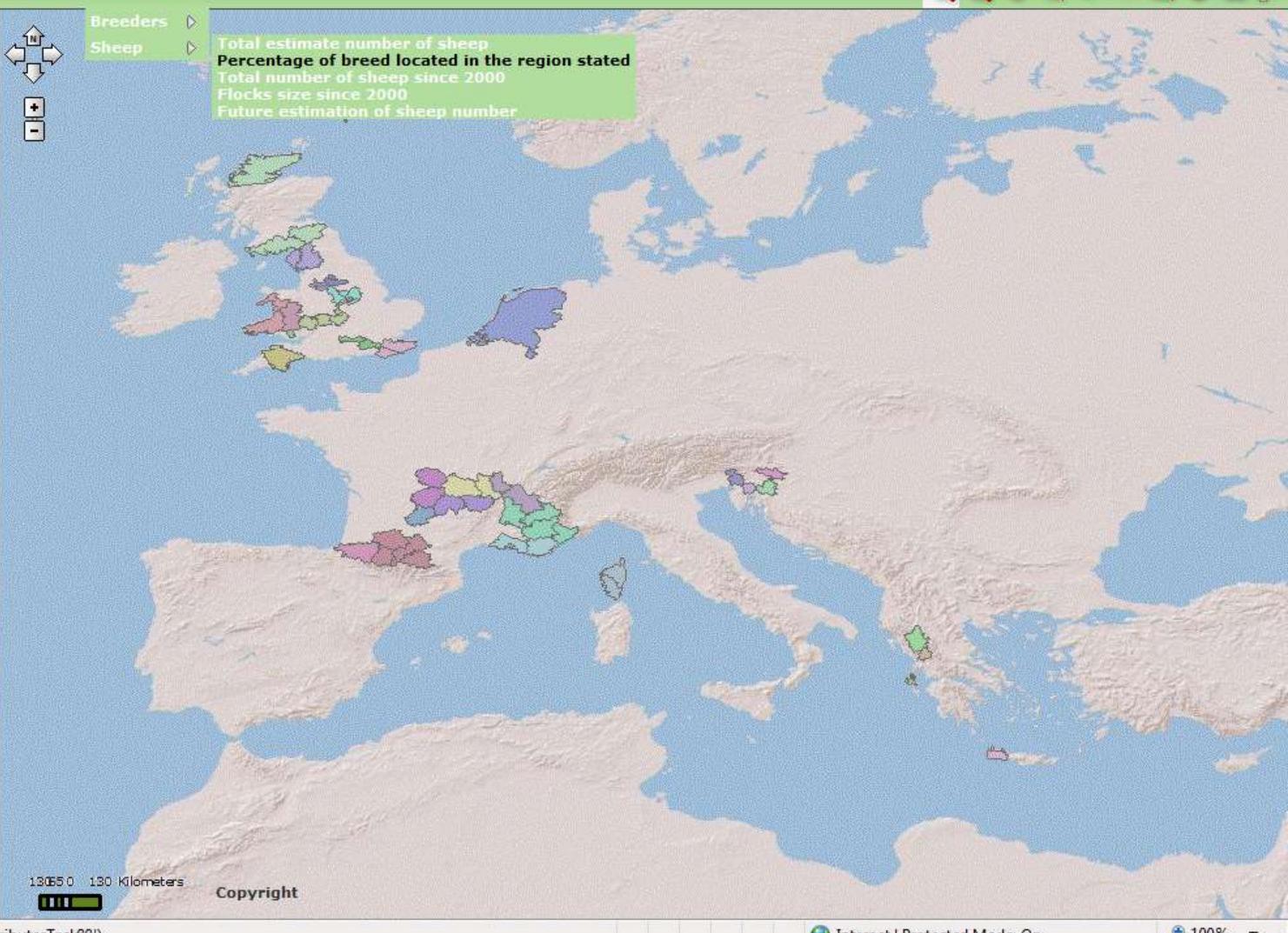
HERITAGESHEEP GIS PROJECT

[Locate Breed](#) | [Factors](#) ▾ | [Characteristics](#) ▾ | [Trends](#) ▾

Results

Breeders ▶
Sheep ▶
+ -

Total estimate number of sheep
Percentage of breed located in the region stated
Total number of sheep since 2000
Flocks size since 2000
Future estimation of sheep number



130 Kilometers



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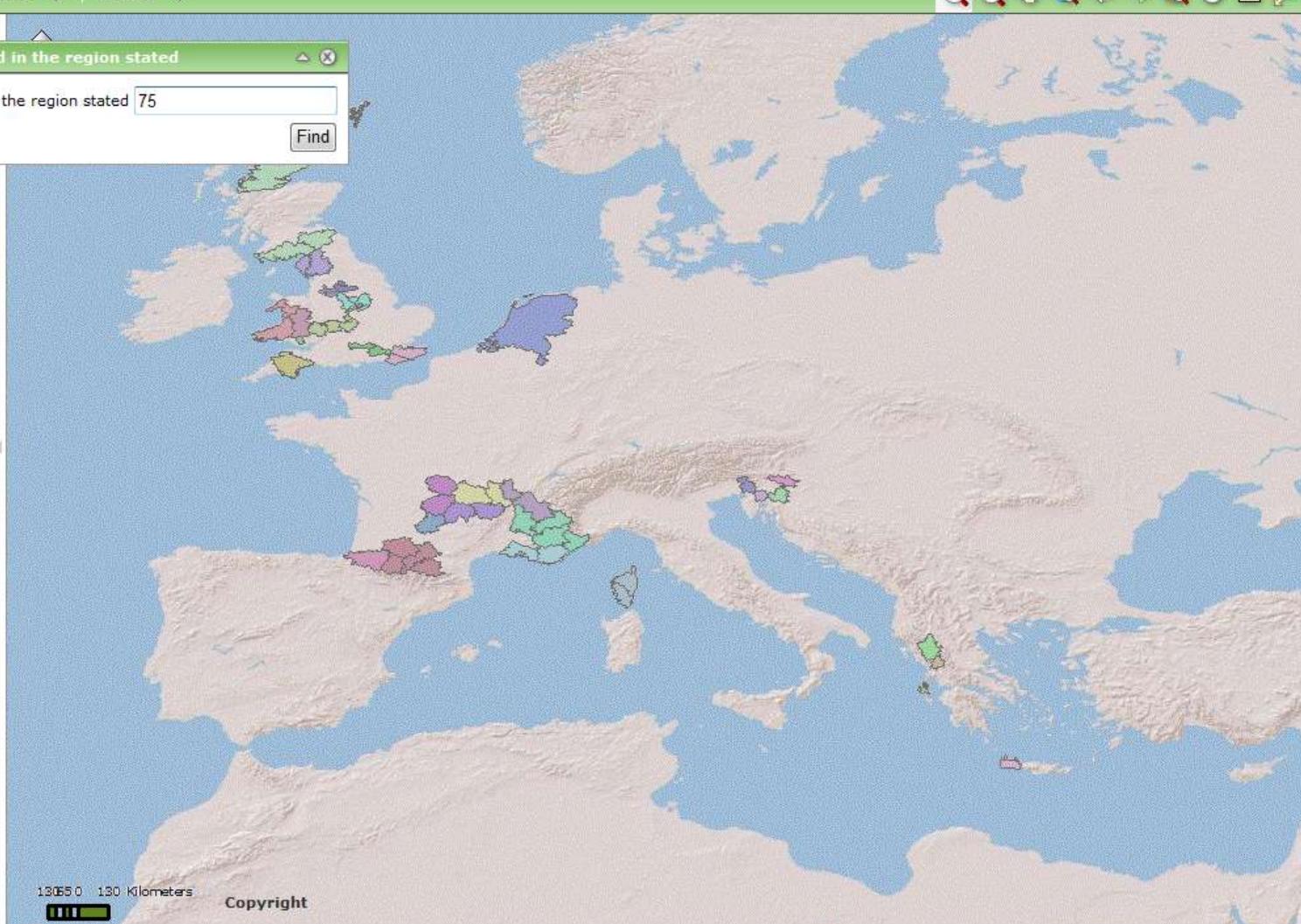
**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

Results

Percentage of breed located in the region stated

Percentage of breed located in the region stated

Map Contents



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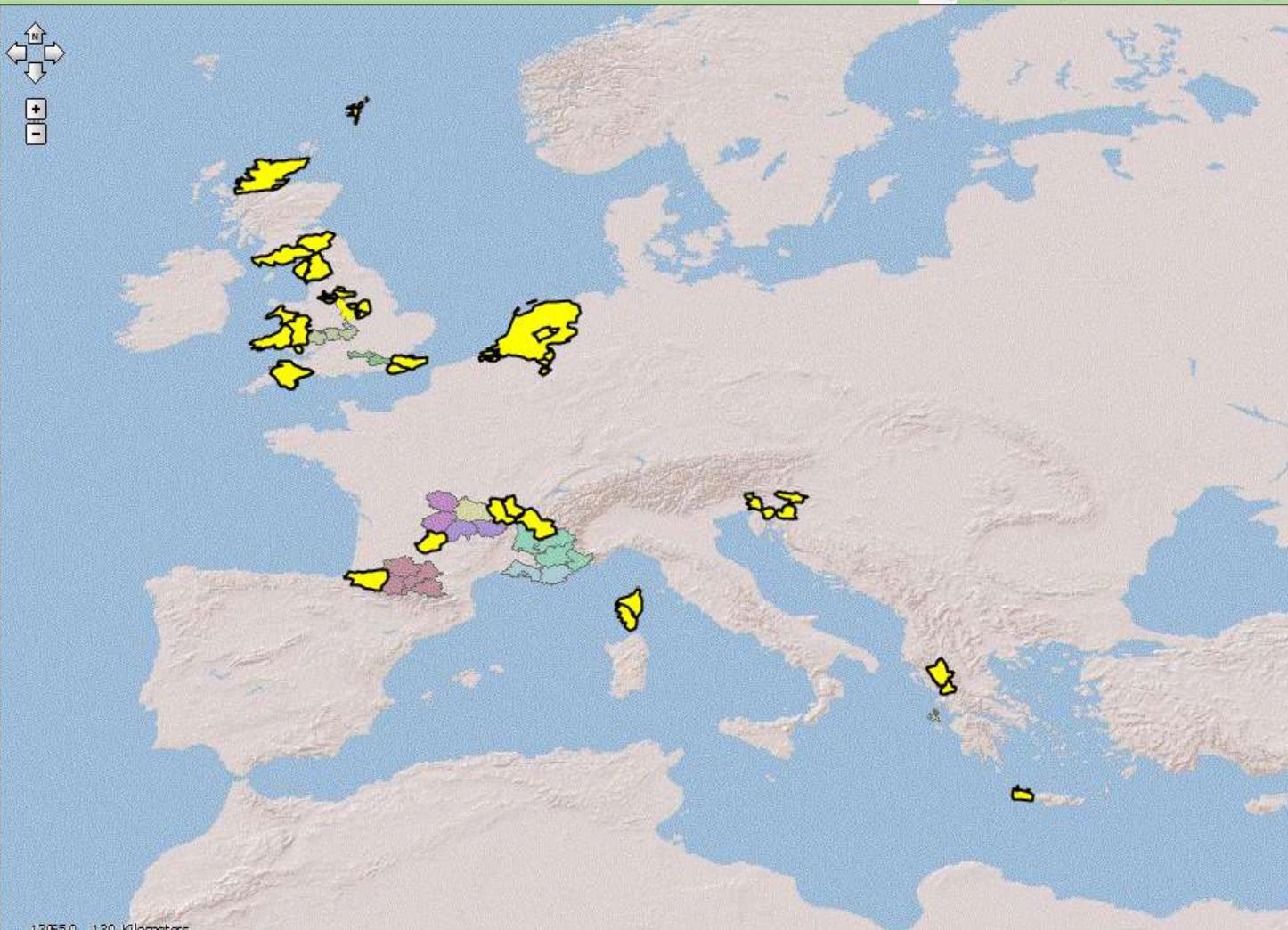
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**HERITAGE SHEEP**

France, Greece, Netherlands, Slovenia, UK

Results

- Percentage of breed located in the re...
 - Breeders & Sheep (50)
 - Records 1 - 25 of 50>
 - North Holland
 - Veluwe Heath
 - Veluwe Heath
 - Shetland
 - Cheviot
 - Cheviot
 - Rough Fell
 - Herdwick
 - Dalesbred
 - Dalesbred
 - Lonk
 - Lonk
 - Lonk
 - Derbyshire Gritstone
 - Derbyshire Gritstone
 - Derbyshire Gritstone
 - Welsh Hill Speckled
 - Derbyshire Gritstone
 - Derbyshire Gritstone
 - Brecknock Hill Cheviot



Map Contents

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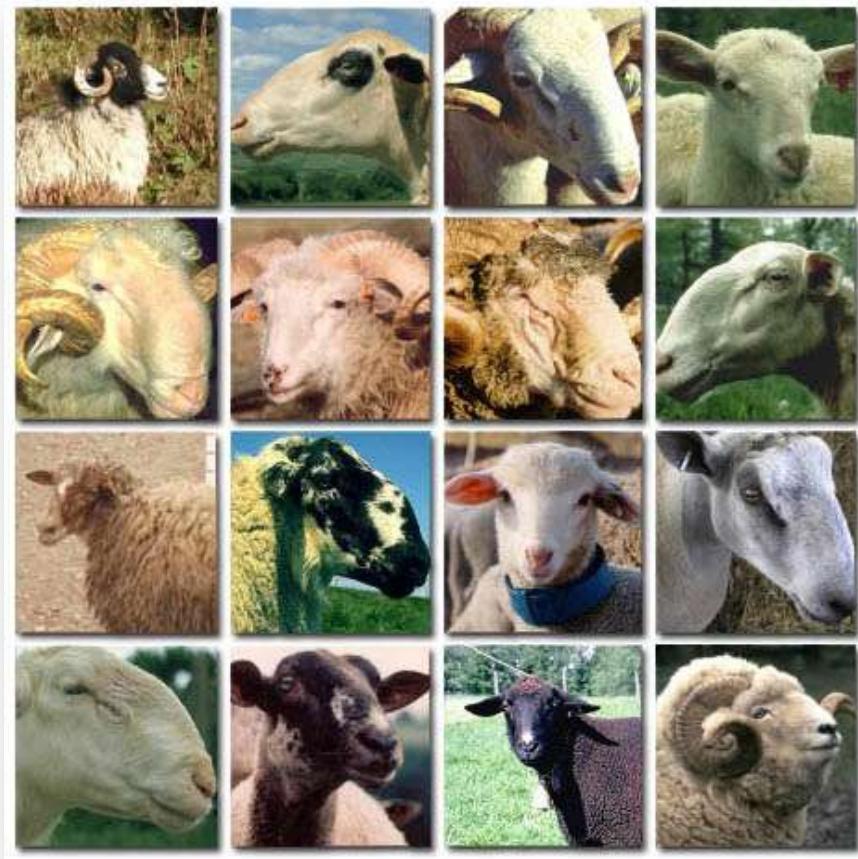
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**HERITAGE SHEEP**
France, Greece, Netherlands, Slovenia, UK

WP5

- Further developments:
 - Develop an index for the assessment of the threats to the breeds
 - Include static maps with results





*Thank you for
your attention!*

