



Exercices

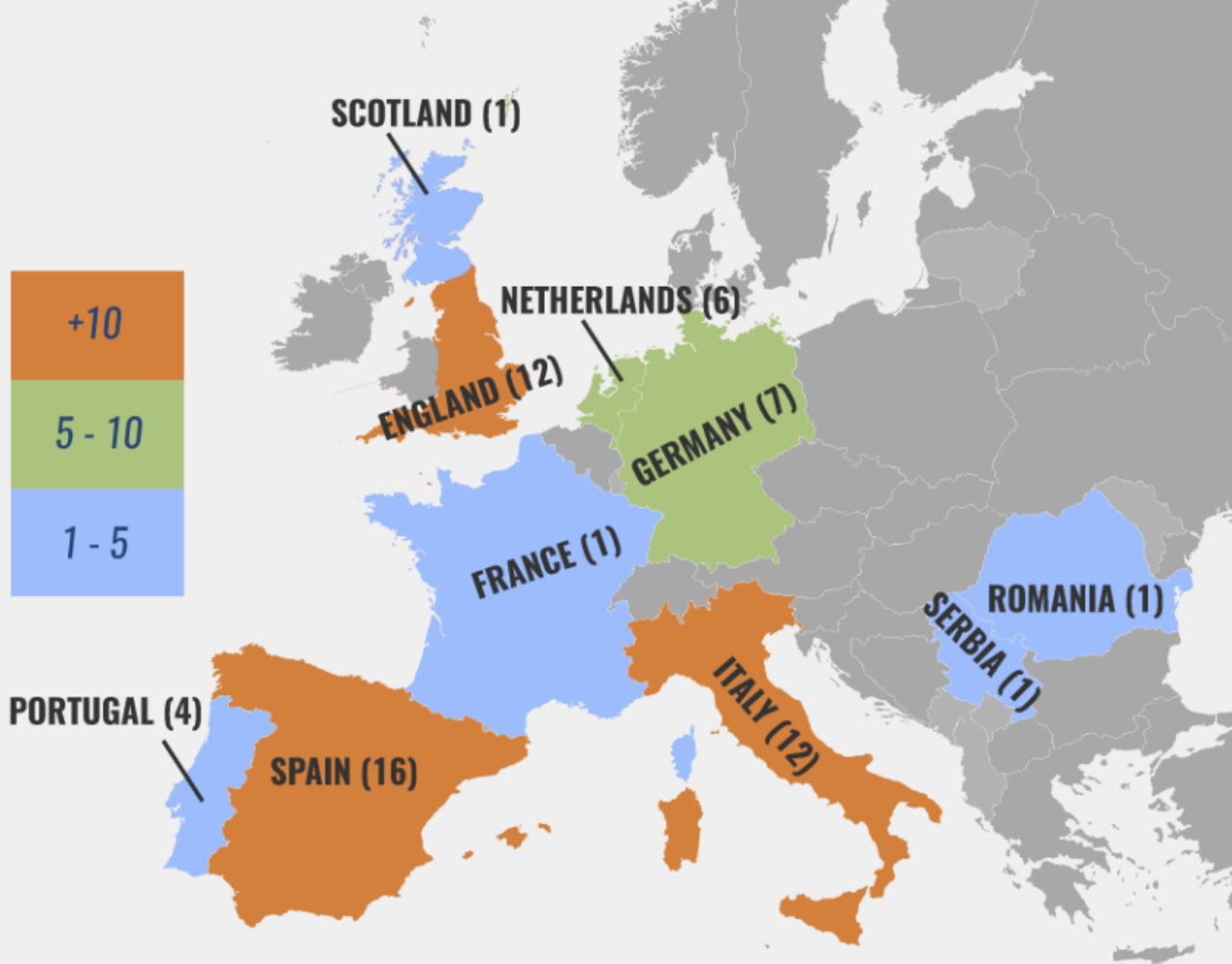
Exercice 3

- Objectif thématique : Refaire la carte des pays victorieux en UEFA Champions League.


Objectifs techniques :

- Trouver un fond de carte adapté
- Créer un fichier de données et le joindre au fond de carte
- Critiquer une carte et proposer des alternatives.

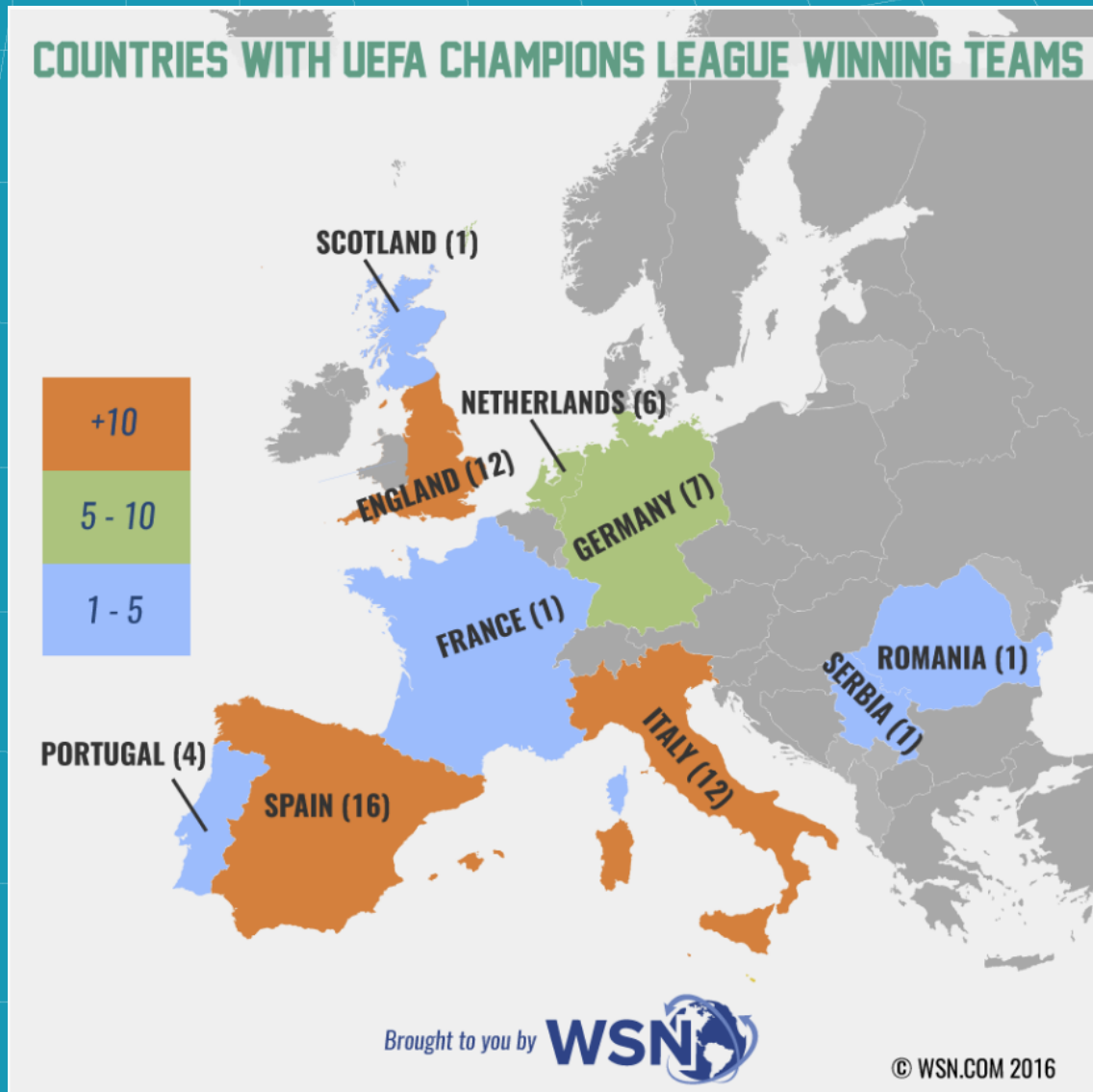
COUNTRIES WITH UEFA CHAMPIONS LEAGUE WINNING TEAMS



Exercice 3

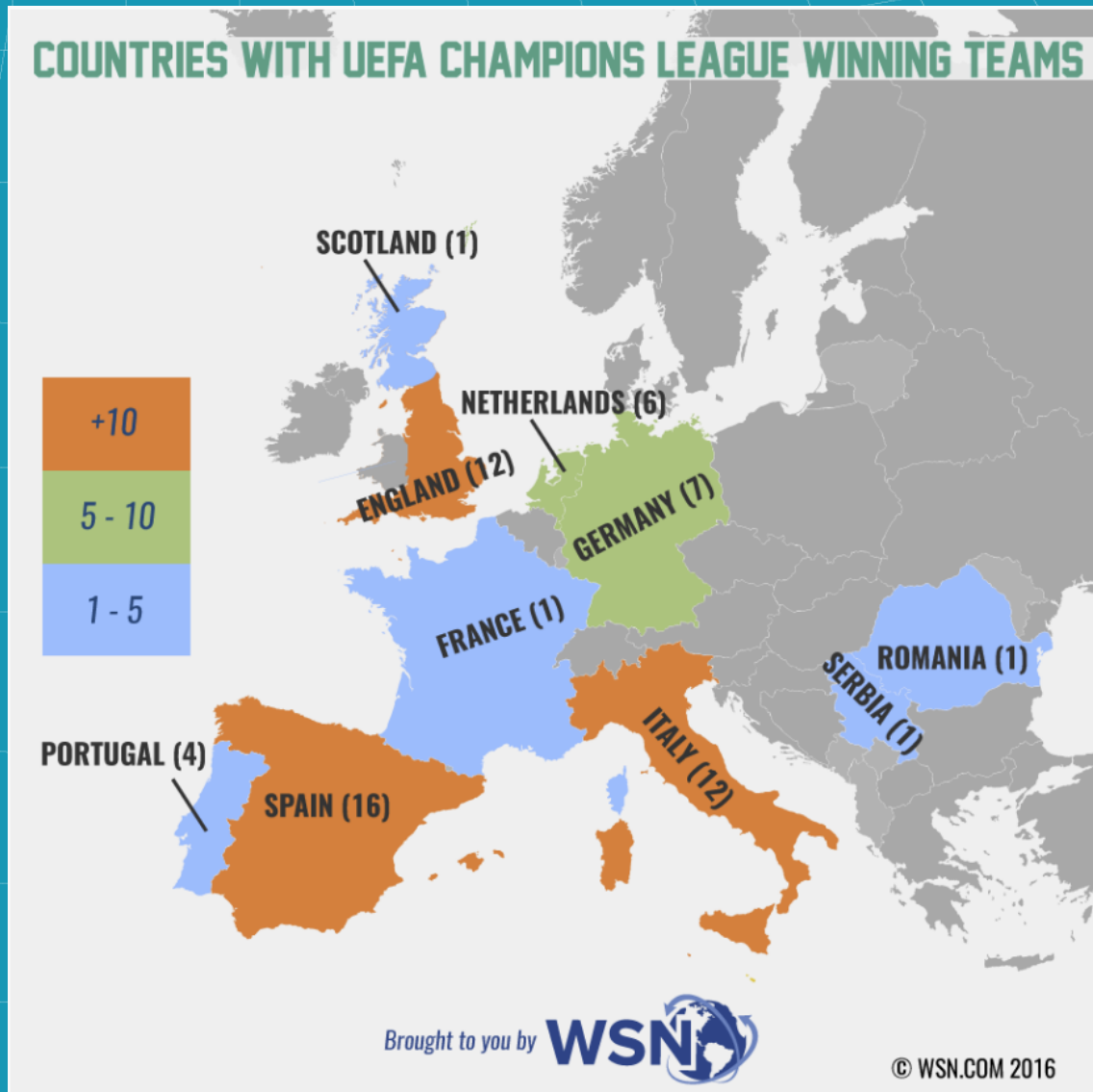
- 
- [1] Critique de la carte
 - [2] Trouver un fond de carte adapté
 - [3] Analyser le contenu du .dbf associé au shapefile de référence (codes)
 - [4] Préparer / mettre à jour les données
 - [5] Importer géométries et données dans Magrit
 - [6] Ajuster l'étendue géographique
 - [7] Choisir la représentation
 - [8] Mise en page

[1] Critiquer la carte



[1] Critiquer la carte

- **Représentation** - Les données statistiques (quantitatives) représentées à la façon d'une typologie (qualitative).
- **Source** – non mentionnée
- **Données** – Pas forcément à jour (2016 ?) / période considérée (depuis quand ?) / quels sont les pays qui participent à la compétition ?
- **Légende** – pas claire



[2] Trouver un fond de carte

Data availability key: 10 most detailed, 50 moderate detail, 110 coarse detail

Click on boxed numbers below to jump to theme's detail page and download data.

Cultural Vector Data Themes:



10 50 110

Countries – matched boundary lines and polygons with names attributes for countries and sovereign states. Includes dependencies (French Polynesia), map units (U.S. Pacific Island Territories) and sub-national map subunits (Corsica versus mainland Metropolitan France).

10 50

Disputed areas and breakaway regions From Kashmir to the Etem Triangle, Northern Cyprus to Western Sahara.

10 50

First order admin (provinces, departments, states, etc.) – internal boundaries and polygons for all but a few tiny island nations. Includes names attributes and some statistical groupings of the same for smaller countries.

10 50 110

Populated places – point symbols with name attributes. Includes capitals, major cities and towns, plus significant smaller towns in sparsely inhabited regions. We favor regional significance over population census in determining rankings.

10 50

Urban polygons – derived from 2002-2003 MODIS satellite data.

10

Parks and protected areas – US National Park Service units.

10 50 110

Pacific nation groupings – boxes for keeping these far-flung islands tidy.

10

Water boundary indicators – partial selection of key 200-mile nautical limits, plus some disputed, treaty, and median lines.



Natural Earth

Free vector and raster map data at 1:10m, 1:50m, and 1:110m scales

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« 1:10m Cultural Vectors « Downloads

Admin 0 – Countries



There are 247 countries in the world. Greenland as separate from Denmark. Most users will want this file instead of sovereign states.

[Download countries](#) (5.12 MB) version 4.0.0

[Download without boundary lakes](#) (5.26 MB) version 4.0.0

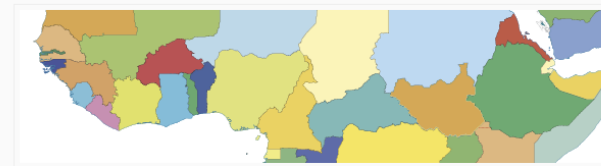
About

Countries distinguish between metropolitan (homeland) and independent and semi-independent portions of sovereign states. If you want to see the dependent overseas regions broken out (like in ISO codes, see France for example), use [map units](#) instead.

Each country is coded with a world region that roughly follows the [United Nations setup](#).

Countries are coded with standard ISO and FIPS codes. French [INSEE codes](#) are also included.

Includes some thematic data from the United Nations (1), U.S. Central Intelligence Agency, and elsewhere.



Disclaimer

Natural Earth Vector draws boundaries of countries according to defacto status. We show who actually controls the situation on the ground. Please feel free to mashup our [disputed area themes](#) to match your particular political outlook.

Known Problems

None.

Stay up to Date

Know when a new version of Natural Earth is released by subscribing to our announcement list.

Find a Problem?

Submit suggestions and bug reports via our correction system and track the progress of your edits.

Join Our Community

Talk back and discuss Natural Earth in the Forums.

Thank You

Our data downloads are generously hosted by Florida State University.

Recent Forum Topics

- Natural Earth in Wagner VII
- Downloads are 404ing
- Disputed Territories: "type" field
- ISO code confusion
- Bad ADM1NAME, encoding in version 3.0.0 and missing diacritics in NAME
- U.S. County Shape File
- Projection / Proportion / Compatibility?
- Download URLs – double slash
- map soft – writer: me
- Unicode encoding issue – ne_10m_lakes.dbf

Forum Login

[Log in](#)
- or -
[Register](#)

<http://www.naturalearthdata.com/features/>

[3] Analyser le contenu du .dbf associé au shapefile

featureId	C_30	LABEL	SOVEREIGNTY	C_32	SOVADM	LEVTYPE	C_17	ADMIN	C_36	ADMN	GEOP	GEOUNIT	C_36
3	Admin-0 country	5.00	Netherlands		NL	1.00	2.00	Country	Aruba	ABW	0.00	Aruba	
0	Admin-0 country	3.00	Alghanistan		AFG	0.00	2.00	Sovereign country	Alghanistan	AFG	0.00	Alghanistan	
0	Admin-0 country	3.00	Angola		AGO	0.00	2.00	Sovereign country	Angola	AGO	0.00	Angola	
3	Admin-0 country	6.00	United Kingdom		GB	1.00	2.00	Dependency	Anguilla	AIA	0.00	Anguilla	
0	Admin-0 country	6.00	Albania		ALB	0.00	2.00	Sovereign country	Albania	ALB	0.00	Albania	
3	Admin-0 country	6.00	Finland		FI	1.00	2.00	Country	Aland	ALD	0.00	Aland	
0	Admin-0 country	6.00	Andorra		AND	0.00	2.00	Sovereign country	Andorra	AND	0.00	Andorra	
0	Admin-0 country	4.00	United Arab Emirates		ARE	0.00	2.00	Sovereign country	United Arab Emirates	ARE	0.00	United Arab Emirates	
0	Admin-0 country	2.00	Argentina		ARG	0.00	2.00	Sovereign country	Argentina	ARG	0.00	Argentina	
0	Admin-0 country	6.00	Armenia		ARM	0.00	2.00	Sovereign country	Armenia	ARM	0.00	Armenia	
5	Admin-0 country	4.00	United States of America		US	1.00	2.00	Dependency	American Samoa	ASM	0.00	American Samoa	
0	Admin-0 country	4.00	Antarctica		ATA	0.00	2.00	Indeterminate	Antarctica	ATA	0.00	Antarctica	
6	Admin-0 country	5.00	Australia		AU	1.00	2.00	Dependency	Ashmore and Cartier Islands	ATC	0.00	Ashmore and Cartier	
3	Admin-0 country	6.00	France		FR	1.00	2.00	Dependency	French Southern and Antarctic Lands	ATF	0.00	French Southern and	
3	Admin-0 country	6.00	Antigua and Barbuda		ATG	0.00	2.00	Sovereign country	Antigua and Barbuda	ATG	0.00	Antigua and Barbuda	
0	Admin-0 country	2.00	Australia		AU	1.00	2.00	Country	Australia	AUS	0.00	Australia	
0	Admin-0 country	4.00	Austria		AUT	0.00	2.00	Sovereign country	Austria	AUT	0.00	Austria	
0	Admin-0 country	5.00	Azerbaijan		AZE	0.00	2.00	Sovereign country	Azerbaijan	AZE	0.00	Azerbaijan	
0	Admin-0 country	6.00	Burundi		BD	0.00	2.00	Sovereign country	Burundi	BD	0.00	Burundi	
0	Admin-0 country	2.00	Belgium		BEL	0.00	2.00	Sovereign country	Belgium	BEL	0.00	Belgium	
0	Admin-0 country	5.00	Benin		BEN	0.00	2.00	Sovereign country	Benin	BEN	0.00	Benin	
0	Admin-0 country	3.00	Burkina Faso		BFA	0.00	2.00	Sovereign country	Burkina Faso	BFA	0.00	Burkina Faso	
0	Admin-0 country	3.00	Bangladesh		BGD	0.00	2.00	Sovereign country	Bangladesh	BGD	0.00	Bangladesh	
0	Admin-0 country	4.00	Bulgaria		BGR	0.00	2.00	Sovereign country	Bulgaria	BGR	0.00	Bulgaria	
5	Admin-0 country	4.00	Bahrain		BHR	0.00	2.00	Sovereign country	Bahrain	BHR	0.00	Bahrain	
3	Admin-0 country	4.00	The Bahamas		BHS	0.00	2.00	Sovereign country	The Bahamas	BHS	0.00	The Bahamas	
0	Admin-0 country	5.00	Bosnia and Herzegovina		BH	0.00	2.00	Sovereign country	Bosnia and Herzegovina	BH	0.00	Bosnia and Herzegovina	
6	Admin-0 country	8.00	Bajo Nuevo Bank (Petrel Is.)		BJN	0.00	2.00	Indeterminate	Bajo Nuevo Bank (Petrel Is.)	BJN	0.00	Bajo Nuevo Bank (Pe	
6	Admin-0 country	6.00	France		FR	1.00	2.00	Dependency	Saint Barthelemy	BLM	0.00	Saint Barthelemy	
0	Admin-0 country	4.00	Belarus		BLR	0.00	2.00	Sovereign country	Belarus	BLR	0.00	Belarus	
0	Admin-0 country	6.00	Belize		BLZ	0.00	2.00	Sovereign country	Belize	BLZ	0.00	Belize	
5	Admin-0 country	6.00	United Kingdom		GB	1.00	2.00	Dependency	Bermuda	BMU	0.00	Bermuda	
0	Admin-0 country	3.00	Bolivia		BOL	0.00	2.00	Sovereign country	Bolivia	BOL	0.00	Bolivia	
0	Admin-0 country	2.00	Brazil		BR	0.00	2.00	Sovereign country	Brazil	BRA	0.00	Brazil	
3	Admin-0 country	5.00	Barbados		BB	0.00	2.00	Sovereign country	Barbados	BB	0.00	Barbados	
0	Admin-0 country	6.00	Brunei		BRN	0.00	2.00	Sovereign country	Brunei	BRN	0.00	Brunei	
0	Admin-0 country	5.00	Bhutan		BTN	0.00	2.00	Sovereign country	Bhutan	BTN	0.00	Bhutan	
0	Admin-0 country	4.00	Botswana		BWA	0.00	2.00	Sovereign country	Botswana	BWA	0.00	Botswana	
0	Admin-0 country	4.00	Central African Republic		CAF	0.00	2.00	Sovereign country	Central African Republic	CAF	0.00	Central African Rep.	
0	Admin-0 country	2.00	Canada		CAN	0.00	2.00	Sovereign country	Canada	CAN	0.00	Canada	
0	Admin-0 country	4.00	Switzerland		CHE	0.00	2.00	Sovereign country	Switzerland	CHE	0.00	Switzerland	
0	Admin-0 country	2.00	Chile		CHL	0.00	2.00	Sovereign country	Chile	CHL	0.00	Chile	
0	Admin-0 country	2.00	China		CHN	1.00	2.00	Country	China	CHN	0.00	China	
0	Admin-0 country	3.00	Ivory Coast		CIV	0.00	2.00	Sovereign country	Ivory Coast	CIV	0.00	CI te d'Ivoire	
6	Admin-0 country	5.00	France		FR	1.00	2.00	Dependency	Clipperton Island	CLP	0.00	Clipperton I.	
0	Admin-0 country	3.00	Cameroon		CMR	0.00	2.00	Sovereign country	Cameroon	CMR	0.00	Cameroon	
1	Admin-0 country	9.00	Cyprus No Mans Area		CNM	0.00	2.00	Indeterminate	Cyprus No Mans Area	CNM	0.00	Cyprus U.N. Buffer Zone	
0	Admin-0 country	2.00	Democratic Republic of the Congo		COD	0.00	2.00	Sovereign country	Democratic Republic of the Congo	COD	0.00	Dem. Rep. Congo	
0	Admin-0 country	4.00	Republic of the Congo		COG	0.00	2.00	Sovereign country	Republic of the Congo	COG	0.00	Republic of the Congo	
5	Admin-0 country	4.00	New Zealand		NZ	1.00	2.00	Dependency	Cook Islands	CK	0.00	Cook Is.	
0	Admin-0 country	2.00	Colombia		COL	0.00	2.00	Sovereign country	Colombia	COL	0.00	Colombia	
3	Admin-0 country	6.00	Comoros		COM	0.00	2.00	Sovereign country	Comoros	COM	0.00	Comoros	
3	Admin-0 country	4.00	Cabo Verde		CPV	0.00	2.00	Sovereign country	Cabo Verde	CPV	0.00	Republic of Cabo Verde	
0	Admin-0 country	5.00	Costa Rica		CRI	0.00	2.00	Sovereign country	Costa Rica	CRI	0.00	Costa Rica	
6	Admin-0 country	5.00	Australia		AU	1.00	2.00	Dependency	Coral Sea Islands	CSI	0.00	Coral Sea Is.	
0	Admin-0 country	3.00	Cuba		CUB	0.00	2.00	Sovereign country	Cuba	CUB	0.00	Cuba	

ne_10m_admin_0_countries.zip (Version d'évaluation)

Fichier Commandes Outils Favoris Options Aide

Ajouter Extraire vers Tester Afficher Supprimer Rechercher Assistant Information

ne_10m_admin_0_countries.zip - ZIP archive, la taille non compressée est de 9 17

Nom

- ..
- ne_10m_admin_0_countries.VERSION.txt
- ne_10m_admin_0_countries.shx
- ne_10m_admin_0_countries.shp
- ne_10m_admin_0_countries.README.html
- ne_10m_admin_0_countries.prj
- ne_10m_admin_0_countries.dbf
- ne_10m_admin_0_countries.cpg

BTN	0.00	Bhutan	BTN	0.00	Bhutan	Bhutan	BTN	Bhutan
BWA	0.00	Botswana	BWA	0.00	Botswana	Botswana	BWA	Botswana
CAF	0.00	Central African Republic	CAF	0.00	Central African Rep.	Central African Republic	CAF	Central African Rep.
CAN	0.00	Canada	CAN	0.00	Canada	Canada	CAN	Canada
CHE	0.00	Switzerland	CHE	0.00	Switzerland	Switzerland	CHE	Switzerland
CHL	0.00	Chile	CHL	0.00	Chile	Chile	CHL	Chile
CHN	0.00	China	CHN	0.00	China	China	CHN	China
CIV	0.00	CI te d'Ivoire	CIV	0.00	CI te d'Ivoire	CI te d'Ivoire	CIV	CI te d'Ivoire
CLP	0.00	Clipperton I.	CLP	0.00	Clipperton Island	Clipperton Island	CLP	Clipperton I.
CMR	0.00	Cameroon	CMR	0.00	Cameroon	Cameroon	CMR	Cameroon
CNM	0.00	Cyprus No Mans Area	CNM	1.00	Cyprus U.N. Buffer Zone	Cyprus U.N. Buffer Zone	B43	Cyprus U.N. Buffer Zone
COD	0.00	Dem. Rep. Congo	COD	0.00	Dem. Rep. Congo	Democratic Republic of the Congo	COD	Democratic Republic of the Congo
COG	0.00	Republic of the Congo	COG	0.00	Republic of the Congo	Republic of the Congo	COG	Republic of the Congo
CK	0.00	Cook Is.	CK	0.00	Cook Islands	Cook Is.	CK	Cook Is.
COL	0.00	Colombia	COL	0.00	Colombia	Colombia	COL	Colombia
COM	0.00	Comoros	COM	0.00	Comoros	Comoros	COM	Comoros
CPV	0.00	Cabo Verde	CPV	0.00	Cabo Verde	Republic of Cabo Verde	CPV	Cabo Verde
CRI	0.00	Costa Rica	CRI	0.00	Costa Rica	Costa Rica	CRI	Costa Rica
CSI	0.00	Coral Sea Islands	CSI	0.00	Coral Sea Islands	Coral Sea Islands	CSI	Coral Sea Is.
CUB	0.00	Cuba	CUB	0.00	Cuba	Cuba	CUB	Cuba

Codes et noms des pays du
fichier de géométries



Ne pas modifier le fichier
.dbf !

[4] Préparer et mettre à jour les données

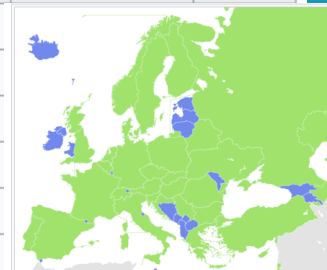
id	name	nb_victoires	part_victoires
ERI	Eritrea		
ESB	Dhekelia Sovereign Base Area		
ESP	Spain	17	27,4193548
EST	Estonia	0	0
ETH	Ethiopia		
FIN	Finland	0	0
FJI	Fiji		
FLK	Falkland Islands		
FRA	France	1	1,61290323
FRO	Faroe Islands	0	0
FSM	Federated States of Micronesia		
GAB	Gabon		
GBR	United Kingdom	13	20,9677419
GEO	Georgia	0	0
GGY	Guernsey		
GHA	Ghana		
GIB	Gibraltar		
GIN	Guinea		
GMB	Gambia		
GNB	Guinea-Bissau		
GNQ	Equatorial Guinea		
GRC	Greece	0	0

UEFA Champions League

From Wikipedia, the free encyclopedia

Performance in Finals by nation

Nation	Winners	Runners-up	Total
 Spain	17		
 Italy	12		
 England	12		
 Germany [A]	7		
 Netherlands	6		
 Portugal	4		
 France	1		
 Romania [B]	1	1	2
 Scotland	1	1	2
 Yugoslavia	1	1	2
 Belgium	0	1	1
 Greece	0	1	1
 Sweden	0	1	1
TOTALS	62	62	124

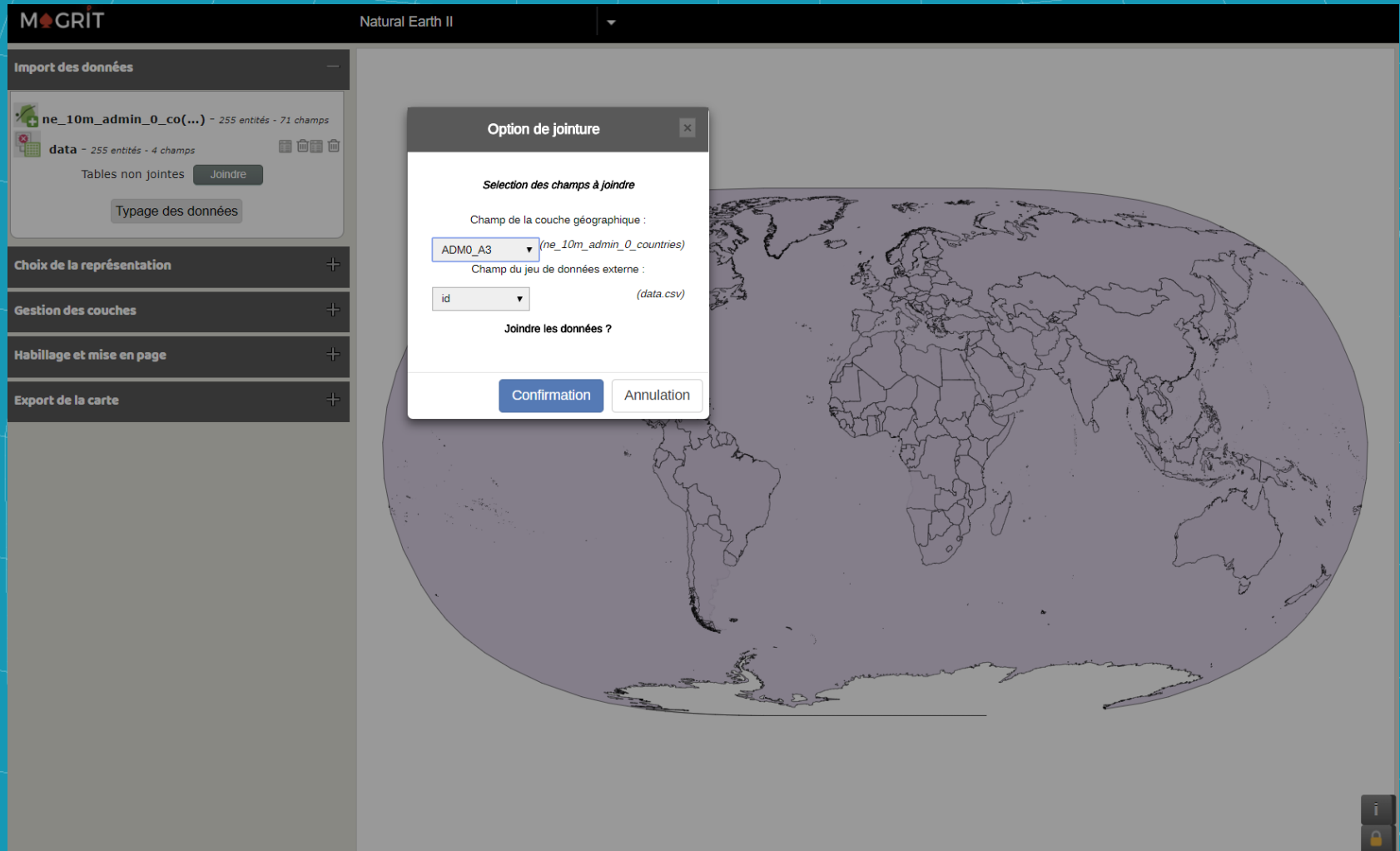


Map of UEFA countries whose teams reached the group stage of the UEFA Champions League
 ■ UEFA member country that has been represented in the group stage
 ■ UEFA member country that has not been represented in the group stage



- Rattacher la victoire de l'équipe écossaise de Glasgow au Royaume-Uni et celle de l'équipe yougoslave de Belgrade à la Serbie
- Supprimer les pays non membres de la Ligue de foot européenne

[5] Importer géométries et données dans Magrit



Import et jointure

[5] Importer géométries et données dans Magrit

The screenshot displays the Magrit web application interface. On the left, a sidebar contains navigation options: 'Import des données', 'Choix de la représentation', 'Gestion des couches', 'Habillage et mise en page', and 'Export de la carte'. The 'Import des données' panel shows two data sources: 'ne_10m_admin_0_co(...)' with 255 entities and 71 fields, and 'data' with 255 entities and 4 fields. A 'Joindre' button is visible. A modal window titled 'Option de jointure' is open, showing the 'Selection des champs à joindre' section. It lists 'ADM0_A3' as the field from the geographic layer and 'id' as the field from the external data source. Below this, a 'Confirmation!' dialog box is displayed, stating 'Jointure partielle: 50/241 geometries ont trouvé une correspondance. Valider ?' with 'Oui' and 'Non' buttons. The background shows a map of the world.

Magrit Natural Earth II

Import des données

ne_10m_admin_0_co(...) - 255 entités - 71 champs

data - 255 entités - 4 champs

Tables non jointes Joindre

Type des données

Choix de la représentation +

Gestion des couches +

Habillage et mise en page +

Export de la carte +

Option de jointure

Selection des champs à joindre

Champ de la couche géographique :

ADM0_A3 (ne_10m_admin_0_countries)

Champ du jeu de données externe :

id (data.csv)

Joindre les données ?

Confirmation Annulation

Confirmation!

Jointure partielle: 50/241 geometries ont trouvé une correspondance. Valider ?

Oui Non

Import et jointure

[7] Choix de la représentation

MGRIT ETRS89 / LAEA Europe

Import des données +

Choix de la représentation +

représentation : Carte de stocks

Champ: nb_victoires ▼

Taille fixée px: 30

sur la valeur ...: 17

Type de symbole: Carré ▼

Couleur du symbole: Une couleur ▼

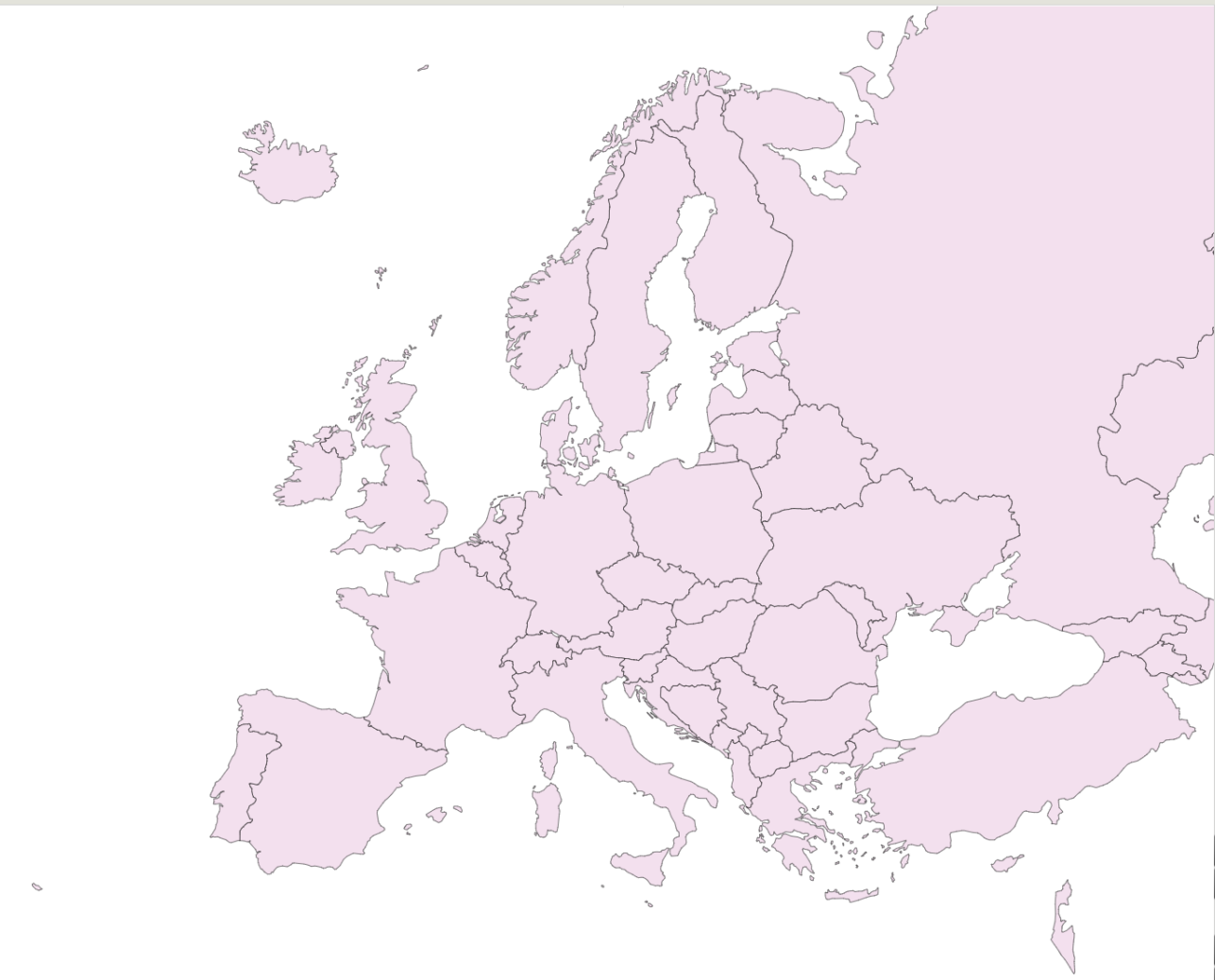
Nom du résultat: PropSymbol_nb_victoires_ne_50m_admin_0_c

Dessiner le résultat

Gestion des couches +

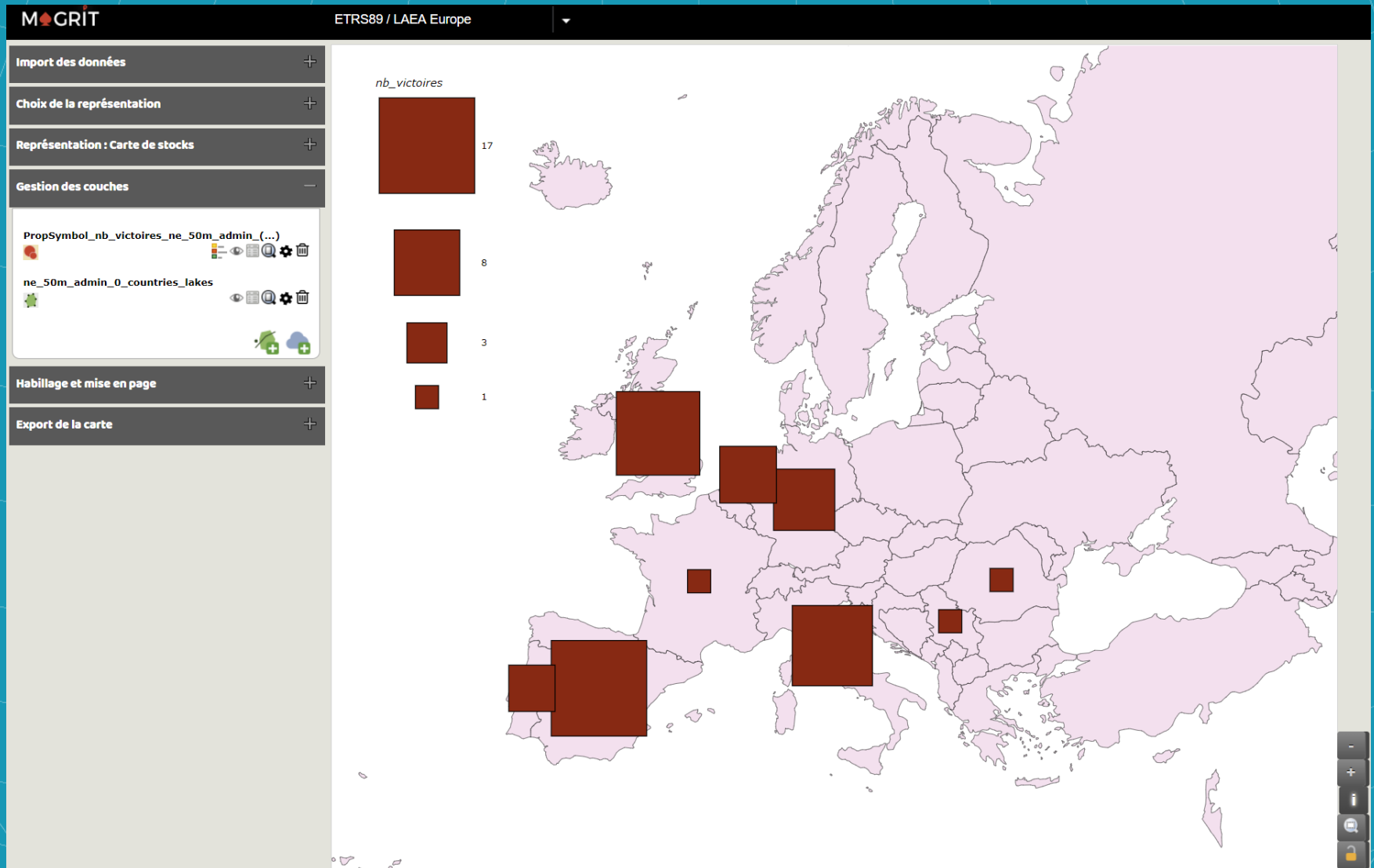
Habillage et mise en page +

Export de la carte +



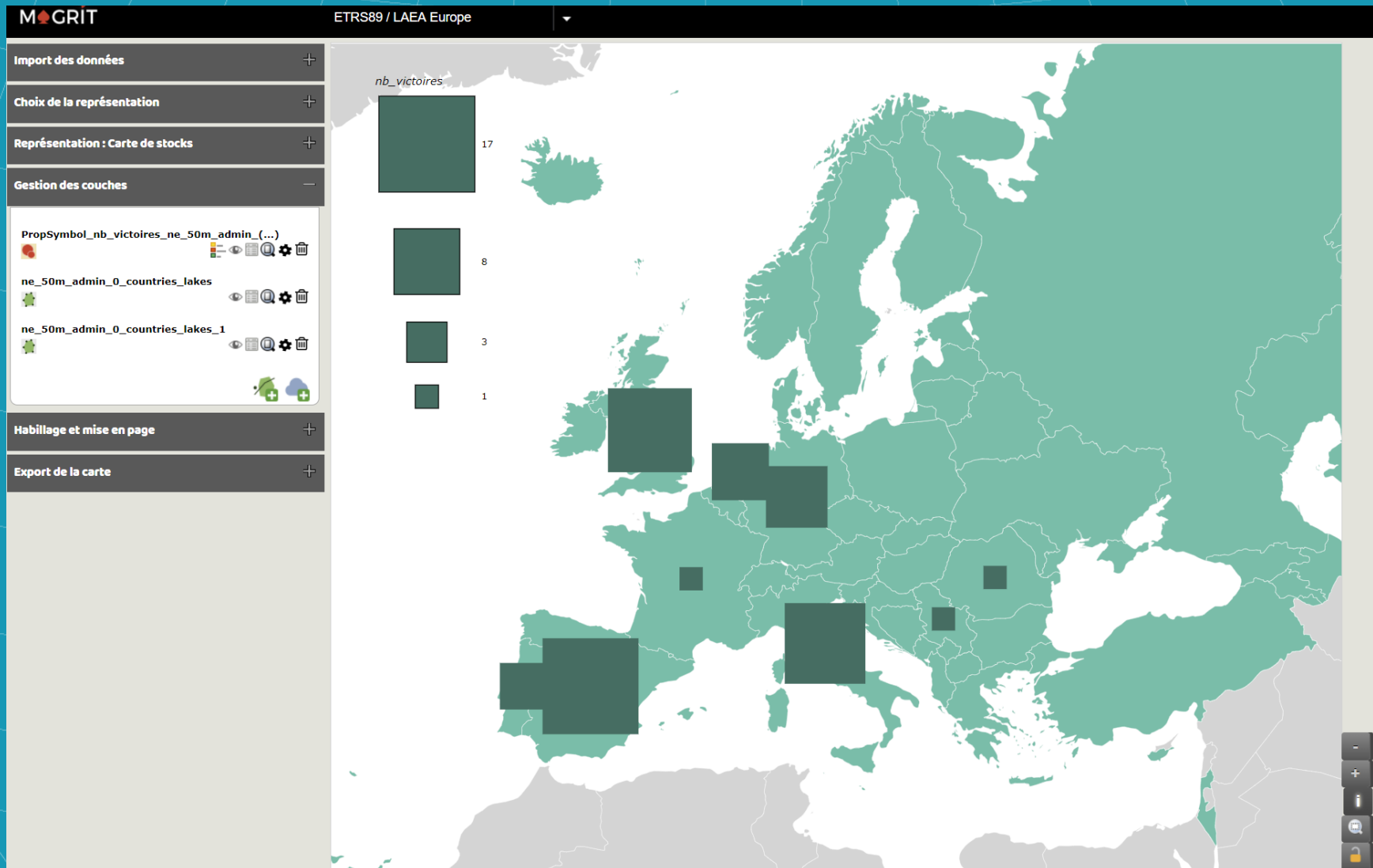
The image shows a screenshot of the MGRIT web application interface. The main map area displays a map of Europe with a light pink color scheme, likely representing the 'nb_victoires' field. The interface includes a sidebar with various toolbars and a main map area. The 'Choix de la représentation' toolbar is highlighted with a red box, showing the 'représentation : Carte de stocks' configuration. The configuration includes a dropdown for 'Champ' set to 'nb_victoires', a 'Taille fixée px' of 30, a 'sur la valeur ...' of 17, a 'Type de symbole' of 'Carré', and a 'Couleur du symbole' of 'Une couleur'. The 'Nom du résultat' is 'PropSymbol_nb_victoires_ne_50m_admin_0_c'. A 'Dessiner le résultat' button is also present. The sidebar also includes 'Gestion des couches', 'Habillage et mise en page', and 'Export de la carte' toolbars. The top of the interface shows the 'MGRIT' logo and the coordinate system 'ETRS89 / LAEA Europe'.

[7] Choix de la représentation



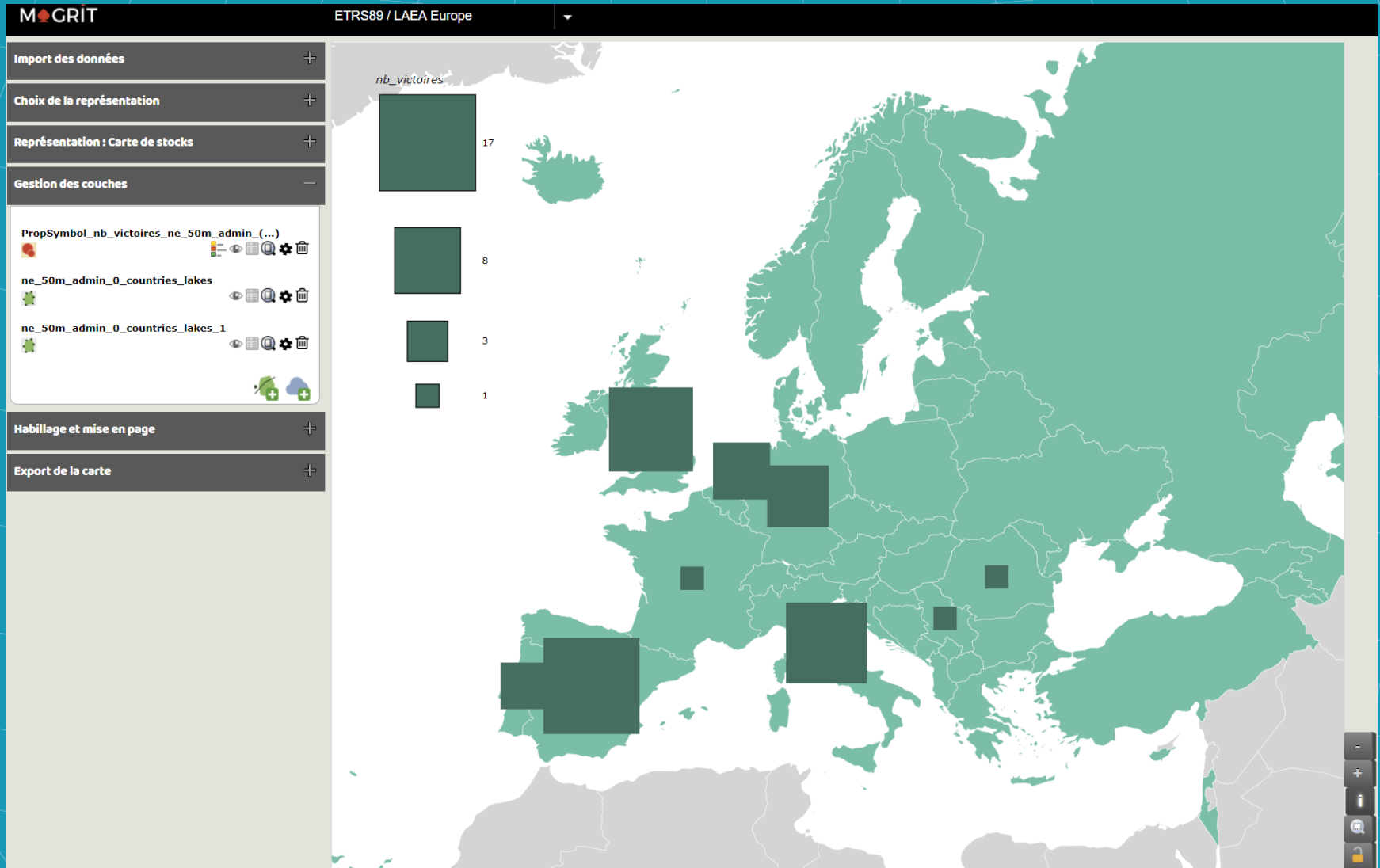
Rajouter un
fond
d'habillage

[8] Mise en page



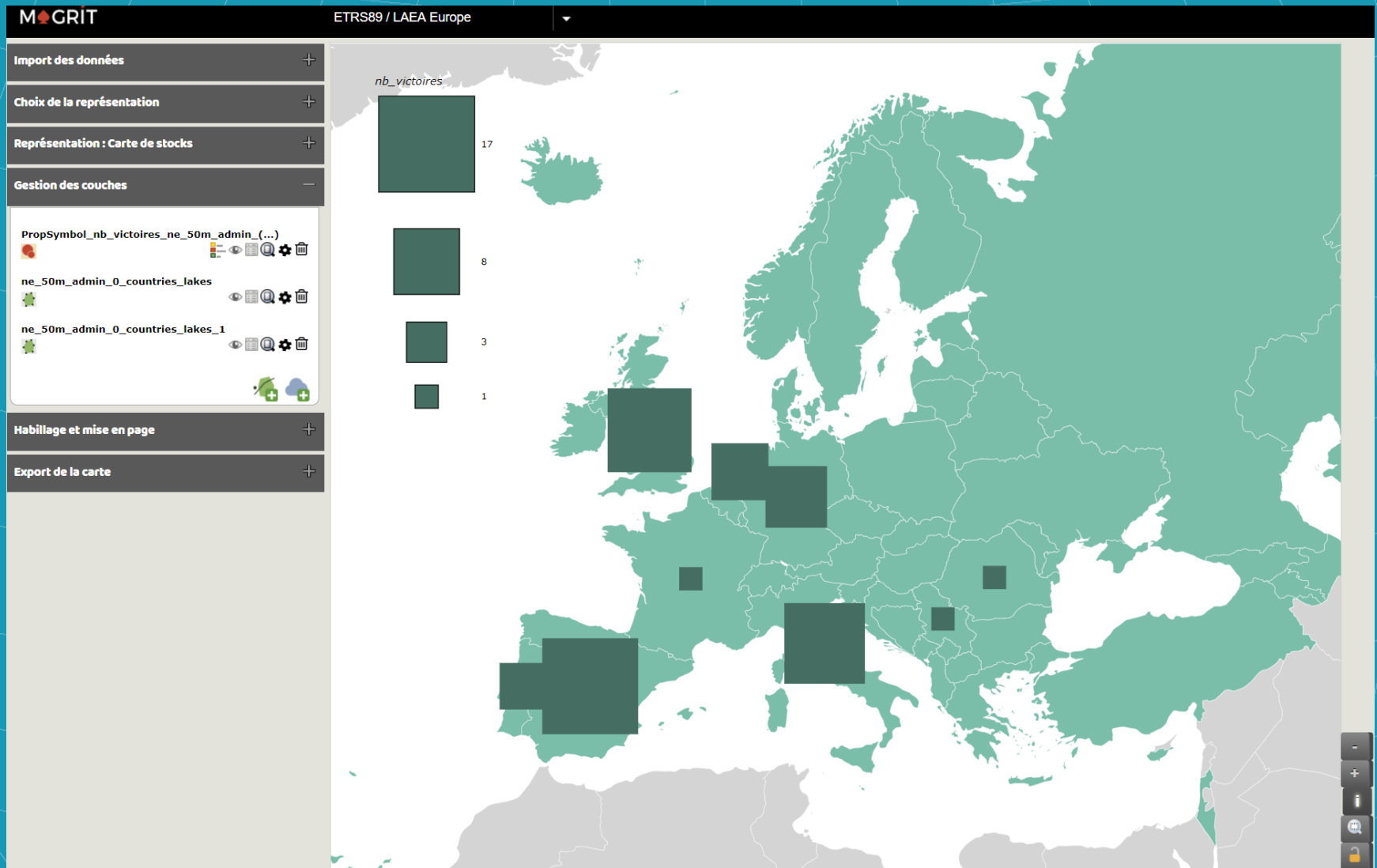
[8] Mise en page

Couleur du
fond de carte et
des bordures



Style et positionnement des symboles proportionnels

[8] Mise en page



Style et positionnement des symboles proportionnels

[8] Mise en page

MGRIT ETRS89 / LAEA Europe

Import des données +

Choix de la représentation +

Représentation : Carte de stocks +

Gestion des couches -

PropSymbol_nb_victoires_ne_50m_admin [Settings]

ne_50m_admin_0_countries_lakes [Settings]

ne_50m_admin_0_countries_lakes_1 [Settings]

Habillage et mise en page +

Export de la carte +

nb_victoires

17

8

3

1

PropSymbol_nb_victoires_ne_50m_admin

Champ utilisé : nb_victoires
Couche de référence : ne_50m_admin_0_countries_lakes

Nom de la couche : PropSymbol_nb_victoires_ne_50m_admin

Couleur de remplissage : Couleur unique

Couleur de remplissage

Opacité du remplissage : 100%

Couleur de la bordure

Opacité de la bordure : 0

Épaisseur de la bordure (px) : 0,28717

Champ utilisé pour les valeurs proportionnelles : nb_victoires

Taille du symbole fixée (px) : 30

sur la valeur ... : 17

☒ Autoriser le déplacement des symboles

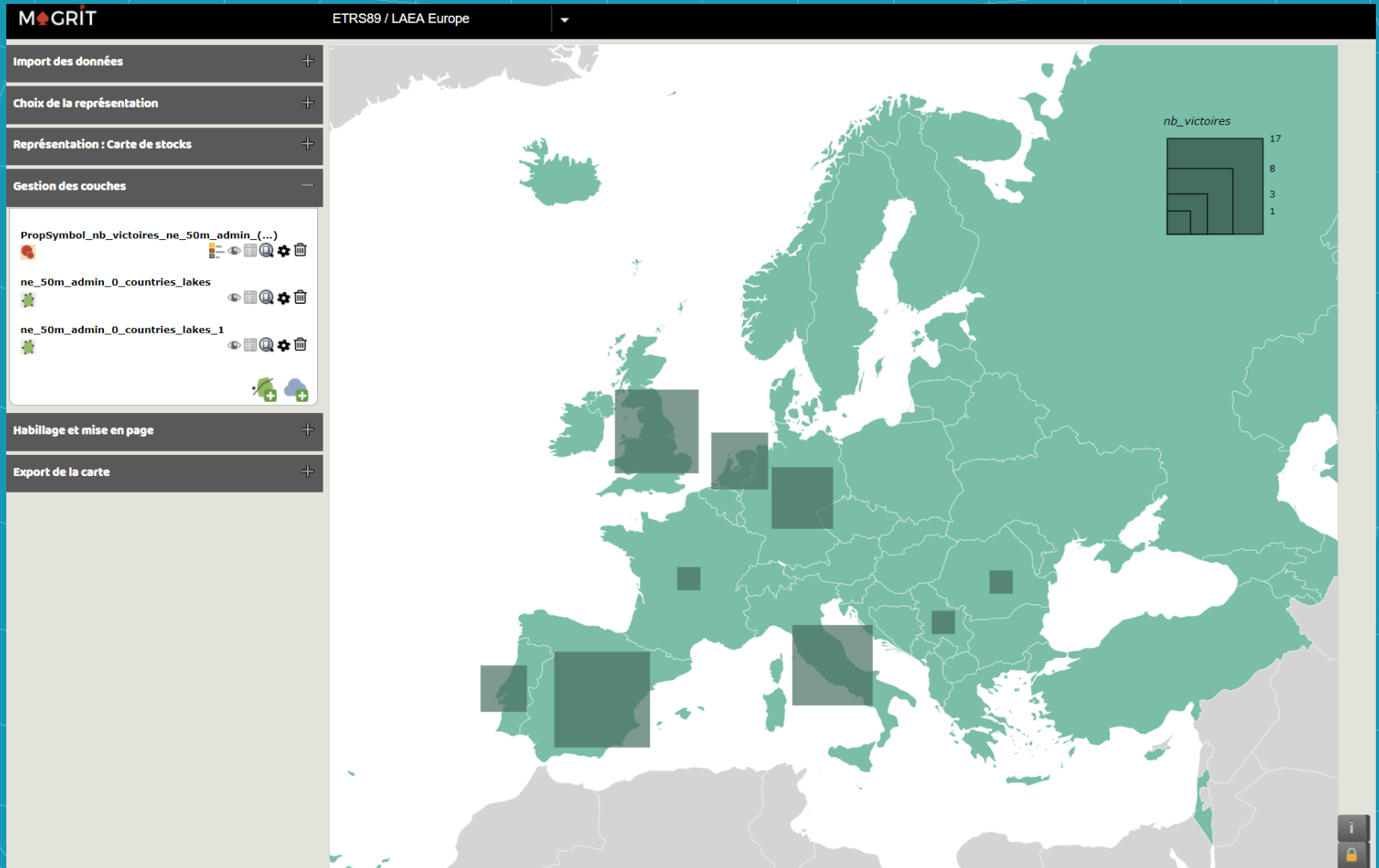
Retour à zéro les paramètres des symboles

Génération de labels pour cette couche...

Confirmation Annulation

Style et positionnement des symboles proportionnels

[8] Mise en page



[8] Mise en page

Titre, légende, logos, sources...

Import des données

Choix de la représentation

Représentation : Carte de stocks

Gestion des couches

Habillage et mise en page

Export de la carte

Titre de la carte

Couleur de l'arrière-plan

Largeur de la carte (px)

Hauteur de la carte (px)

Ratio d'affichage

Réadapter la carte à la taille de l'écran

Centrage de la carte ...

Alignement des éléments (experimental)

Ajout d'éléments d'habillage :

ETRS89 / LAEA Europe

CHAMPIONS LEAGUE

: 5 championnats dominent l'Europe

Victoires en UEFA Champions League

Tous clubs confondus par pays

17

10

5

1

Depuis 1956. Les pays participants à cette compétition sont représentés en vert

Source : Wikipedia, 2018

Réalisation : UMS RIATE, 2018