GEOSPECS databases and related mapping material

The objective of this "read me first" document is to provide basic information for successful navigation within folders containing databases and mapping materials produced by GEOSPECS.

When opening "GEOSPECS_Data&Maps&MetaDa", two folders direct you to either:

- GEOSPECS_Metadata_ESPON-DB-Templates: containing indicators and comprehensive metadata in the format required ESPON DB (However, due to the scale at which has been working GEOSPECS, some minor adaptations have been made). No mapping material is available here.
- GEOSPECS_Maps&Data&Metadata_forUsers: containing GIS files, related databases in GIS format and some "basic" metadata that should be enough for a first use.

1.1 GEOSPECS_Metadata_ESPON-DB-Templates

It encloses 2 folders:

- GEOSPECS_Metadata_ESPON-DB-Templates\ESPONTemplateMetadata_LAU: containing indicators and comprehensive metadata in the ESPON DB format gathered by GEOSPECS at local level (125'049 units at LAU1 or LAU2 level)
- GEOSPECS_Metadata_ESPON-DB-Templates\ESPONTemplateMetadata_NUTS0: containing indicators and comprehensive metadata in the ESPON DB format gathered by GEOSPECS at national level (NUTS0).

2.1 GEOSPECS_Maps&Data&Metadata_forUsers

The objective of this folder is to regroup various mapping material developed by GEOSPECS with their related databases and necessary metadata. It is a "standalone package". Basically, with the material included in this folder, one can reproduce all maps and figures of the project. It contains also 4 folders:
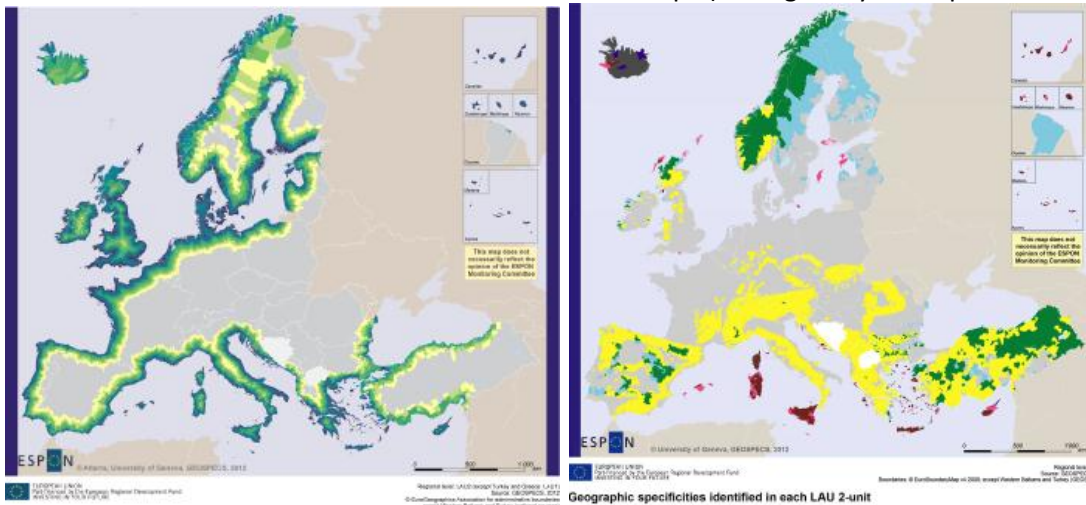
- GEOSPECS_Maps&Data&Metadata_forUsers\GEOSPECS_LAU2_v8: THE GEOSPECS local database and shapefiles with related metadata.

  The database is given into 2 formats:

  1) ".dbf" is the complete LAU DB to be joined to GEOSPECS LAU shapefiles via "Comm_ID".
  2) ".xlsx" shows how the GEOSPECS LAU DB can be used with pivot table to obtain NUTS3 figure (as an example) out of the LAU level.

Shapefiles are "surface" and "Points" representing the 125'049 LAU units of GEOSPECS area. Detailed LAU2 maps from Eurogeographics were used to delineate geographically specific areas. However, these maps make it difficult displaying geographic patterns derived from LAU2 data at a transnational

level. For the dissemination of results, GEOSPECS constructed a simplified map, based on Voronoi polygons. Therefore, it is possible to map GEOSPECS data at LAU2 level.
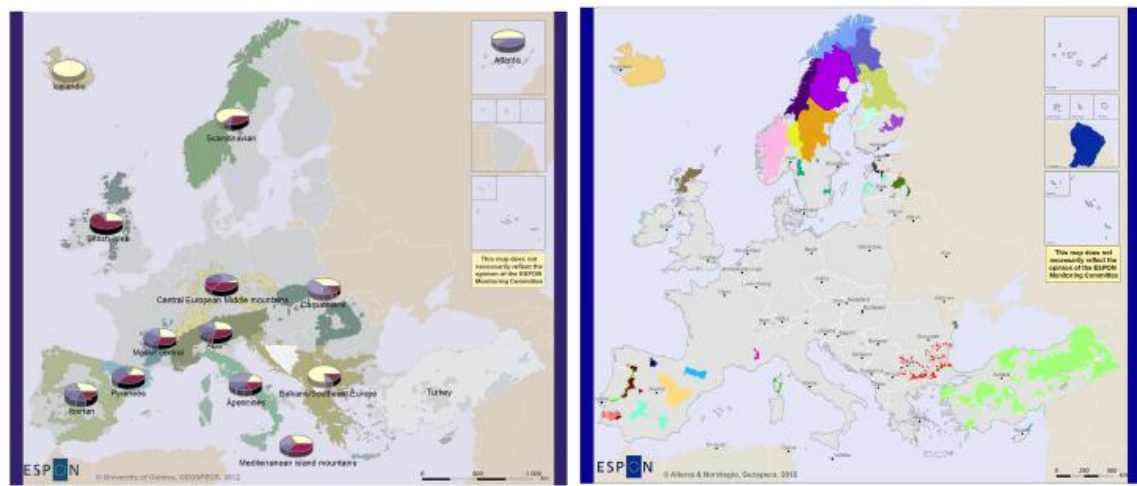Material in this folder allows the elaboration of such maps (among many other possibilities):
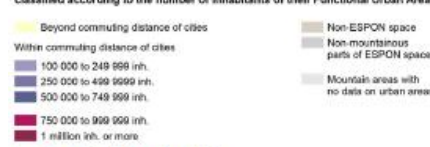

Average travel time to the coast from LAU2 units*

Geographic specificities identified in each LAU 2-unit

- [GEOSPECS_Maps&Data&Metadata_forUsers\GEOSPECS_Areas-of-GeogrSpecificity](#): contains shapefiles of the various GEOSPECS categories where LAU units have been dissolved according to the distinct geographical objects they belong to: mountain massifs (Alps, Central European middle mountains, etc.), borders (France-Italy, France-Switzerland, etc.), coasts (FR-Mediterranean, FR-Atlantic, etc.), islands (archipelago, multiple municipalities belonging to same island, etc.) and the so called massifs of sparsity (Poorly connected Alpine municipalities, Sparse Estonian coast, etc.).
  Material in this folder allows the elaboration of such maps (among many other possibilities):

Proportion of massif population within commuting distance of cities, classified according to the number of inhabitants of their Functional Urban Area
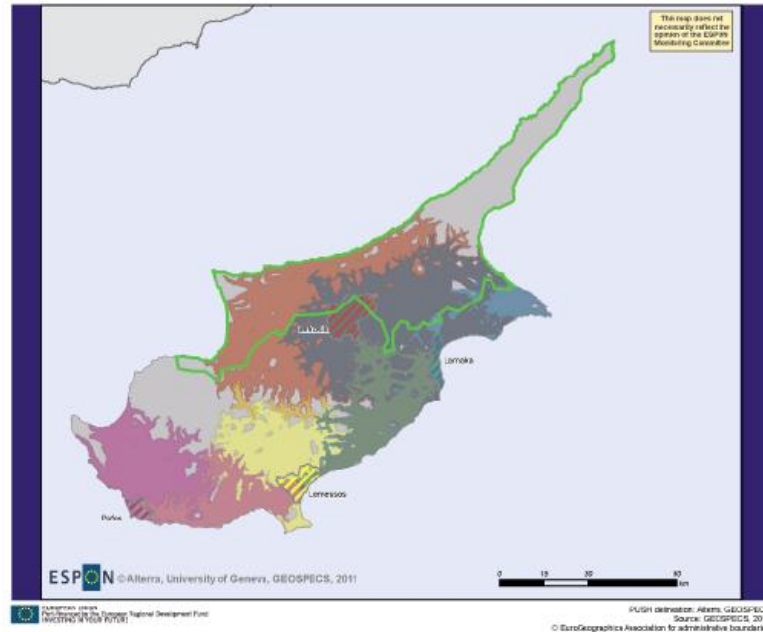
Map 28   Massifs and PUSH

Sparse Territories   - Subdivision of Sparsely Populated and Poorly Connected LAU2 units

In the case of PUSH2, geographic object are not LAU, but "time-distance" areas. They are overlapping. It allows producing this kind of map:

Potential Urban Strategic Horizon (PUSH areas)
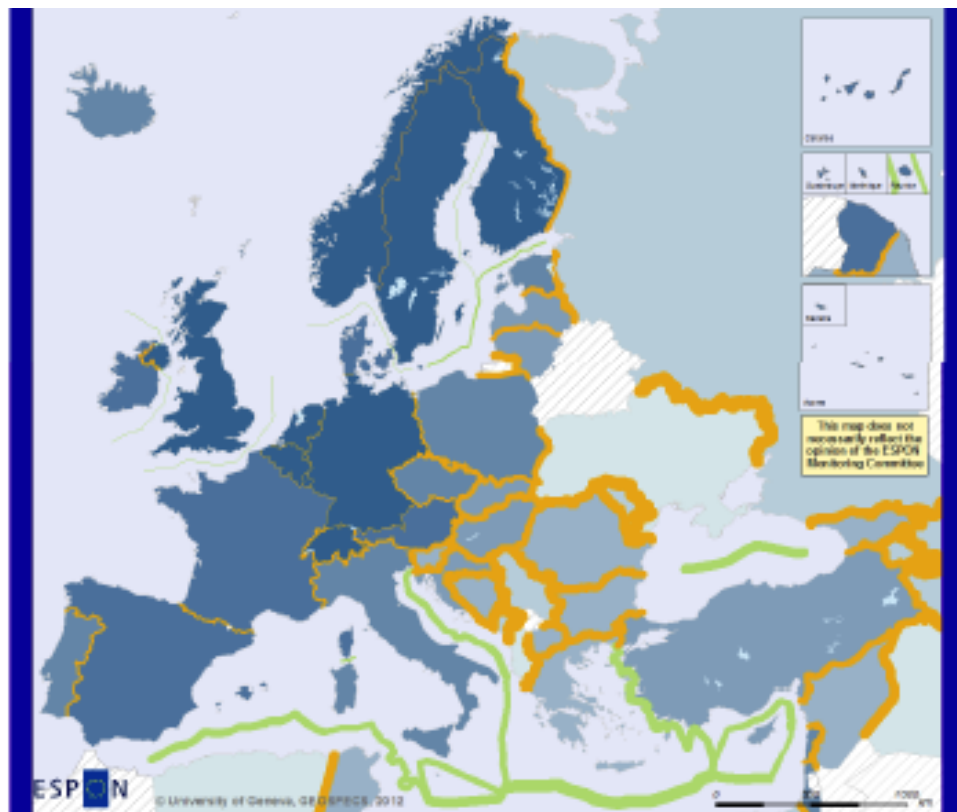Municipalities within 45 minutes from MUA by road

- GEOSPECS_Maps&Data&Metadata_forUsers\GEOSPECS_ESPON-MapKit: The ESPON map kit did not allow for overlays of administrative boundaries of Outermost Regions with other types of geographic information, because the boundaries had been moved so as to appear "above Russia" in the map template. For GEOSPECS, this had to be corrected: in the alternative map template, each Outermost Region is mapped in a separate map layer. The only effect on the final maps produced is a marginal difference in the appearance and orientation of the Outermost Regions due to the application of correct projection systems for each of them.

  This folder is a projected ESPON Mapkit, in which you can add all other layers (LAU, NUTS). You must however copy and past them into all layers.

- GEOSPECS_Maps&Data&Metadata_forUsers\GEOSPECS_NUTS0:

  This folder contains all necessary GIS, databases and metadata to produce this kind of map (cf. next page): simplified land borders lines with data, simplified maritime borders lines with data as well as simplified NUTS0 shapefile to fit with borderlines for discontinuities (LandBorderLine-Simpl_wtData_V1). The World Bank data are also attached.

  The land borders lines folder contains as well a shapefile called "NUTS0_BorderLine_Precise_forAccessibilityv2" that fits the EuroBoundaryMap_v4 2008 national border obtained from aggregation of LAU units.

and Borders
(1=High; 10=Low)

- 1.98 - 2.54
- 2.55 - 3.22
- 3.23 - 4.27
- 4.28 - 4.86
- 4.87 - 5.26
- 5.27 - 5.62
- 5.63 - 5.92

Sea Borders
(1=High; 10=Low)

- 2.12 - 2.66
- 2.67 - 3.18
- 3.19 - 3.81
- 3.82 - 4.26
- 4.27 - 4.71
- 4.72 - 5.20
- 5.21 - 5.41

Efficiency of customs clearance
(1=low to 5=high)

- 1.98 - 2.07
- 2.08 - 2.22
- 2.23 - 2.59
- 2.60 - 2.94
- 2.95 - 3.38
- 3.39 - 3.63
- 3.64 - 4.04
- No data