



CLEVER Cities

Guidance on how to utilize available EU data platforms to support local processes

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Executive summary

Several European data platforms are potentially useful to support the monitoring of the effects of nature based solutions (NBS) in the urban environment. The CLEVER Cities project establishes local monitoring teams (LMT) in each of the participating cities which will measure the effects of the specific NBS implemented. Within this framework, this guidance document is intended to foster the exploitation of the EU platforms. It is thereby anticipated that some of their data may be integrated in the LMT's monitoring efforts and thereby enhance the data bases locally available. These European data sources can provide a range of opportunities, including the comparisons of certain parameters across several cities and the assessment of boundary conditions in the vicinity of the municipal areas. Furthermore, the European databases may to a degree fill certain gaps in the city's data bases.

Considering the resources available, the scope of this document had to be limited to a selection of potentially available data platforms. Emphasis was placed on geographical applications, whereby several of the described platforms provide statistical data as well. The technical data handling and integration of data sources at various levels and scales, and also the architecture of a common data platform and a data management system will be covered within a separate effort.

Introduction

This guideline focuses on the utilisation of EU data platforms, reporting on several hubs which provide different types of data that are likely of interest for cities that implement NBS (nature-based solutions) in the context of the CLEVER Cities project. The document explains the rationale behind this undertaking and the approach taken. The core of the document is a systematic catalogue of European data hubs the description of which follows a coherent structure.

Considering resources available, the scope of this document had to be limited to a selection of potentially available data platforms. Emphasis was placed on geographical applications, whereby several of the described platforms provide statistical data as well.

This effort contributes to establishing the CLEVER monitor which will be used to assess NBS impacts within the CLEVER Action Labs (CALs) during the course of the project and beyond. However, the organisational and technical framework for the data integration is beyond this guideline's scope. The technical data handling and integration of data sources at various levels and scales, and also the architecture of a common data platform and a data management system will be covered within a separate effort.

Rationale

The establishment and refinement of NBS, and likewise their long-term management within the participating cities requires a sound monitoring framework and the ongoing measurement of pre-defined indicators. After certain NBS were implemented, indicators must be measured on a regular basis to determine their effectiveness. Monitoring results will support the planning of possible adaptations of the NBS applied. Likewise, alternative NBS can be selected where applicable. Furthermore, even before NBS are implemented, such a monitoring framework will also serve the purpose to identify issues that can potentially be tackled by NBS.

The cities participating in CLEVER Cities already conduct monitoring efforts which are suitable to measure many of the effects of NBS. They also run their own data systems, although with largely varying degrees of sophistication. They are, thus, more or less prepared to take up input from additional data sources to enlarge their own database.

Several European data sources provide unique opportunities to enhance the municipal databases currently available within the CLEVER Cities project. Exploiting these publicly funded platforms potentially provides a range of benefits to the local monitoring teams (LMT) consisting of the city partners of the project and scientific and other partners as well. European data sources can on the one hand be tapped into for certain purposes, such as providing auxiliary data regarding NBS related indicators. On the other hand, after systematically using such data during the course of the project, the LMTs can give feedback to the database holders who can then optimise what they offer to their users. This will bring about that the municipalities' benefits from European data will be further enhanced.

At a later stage, besides the utilisation of European data sources to supplement cities' databases, also the reverse approach is anticipated, namely to enhance European databases through inputs from the cities, for the mutual benefit of stakeholders operating at both local and continental levels. As a preparatory step for this endeavour, possible data security issues must be clarified and a quality assurance mechanism must be mutually agreed upon.

Advantages of European data sources

European data sources provide, depending on their scope, various opportunities to enhance the cities' own databases. Owing to their large geographical scale, they can help to determine boundary conditions regarding various aspects which will likely influence situations within the cities.

The data are harmonised across the continent and, thus, enable comparisons between the cities which are in several cases more difficult or even impossible owing to lacking compatibility of local data (fostering cross-city comparability is among the targets of the project). These comparisons can relate to the cities participating in the project, to other cities in the vicinity, or even across Europe. The databases which contain data specifically related to cities already provide embedded mechanisms for such comparisons. Although INSPIRE provides principles for sharing of spatial data sets and services between public authorities within and among Member States, there are still a range of unresolved issues and many data sets are not yet harmonised.

European data may also be a gap-filler in case certain data are missing in the city database. Likewise, this gap-filling function can be important in the framework of the CLEVER Cities project if some cities have their own data regarding a particular indicator whereas others do not.

Furthermore, a comparison between municipal data and European data can be used as a means of quality testing of either of them, particularly if they were generated independently of each other and by different methods, e.g. in situ monitoring and remote sensing. Finally, a range of European data is simply complementary to existing data at the cities and will, thus, provide new insights in various NBS-related aspects.

The data of the platforms covered in the present report can in each case be had for free for non-commercial applications, so that their utilisation can be tested without imposing financial risks on the parties of the project.

Limitations of European data sources

The most obvious limitation of European – and generally large geographical scale – data sets is their resolution which is generally much lower than that of local scale data sets. This relates particularly to the spatial resolution which rarely covers neighbourhood level data requirements. However, firstly, owing to new satellite technology and data processing capacities, this difference in scale continually diminishes and even pan-European data products show smaller MMUs (minimum mapping units). Furthermore, European data products in any case provide valuable information about boundary conditions which influence the state of the observed variables at the local scale and help to interpret these observations.

In several cases, also the temporal resolution is not adequate for the application within the short time frame of a research project. Nevertheless, it should be considered that NBS implementation and monitoring requires longer time frames than single projects anyhow. For any monitoring technology, within the comparatively short time frame of the CLEVER Cities project, observing effects of NBS implementations will be possible only to a very limited degree, whereas it may not be possible at all via the described EU databases owing to their multi-annual update cycles.

While the scope of European data sets is very broad, few of them were designed with the aim to support municipal planning and monitoring efforts. Furthermore, the interoperability of European data sets with existing data in the cities is rarely fully given.

Data management by the participating cities

The current technical and legal data management approaches and capabilities of the city partners will be decisive for establishing a possible data flow from external data sources, including European ones, into municipal databases. A specific and detailed investigation in this regard is ongoing at the time this text is written in that a dedicated template was distributed among the cities' project representatives responsible for data management asking them for their input. The outcome of this endeavour is not yet available at the time this text is written.

Among the frontrunner cities, Hamburg (DE) and London (UK) each have established a coherent, city-wide data store with different sub-sections for specific applications, whereas Milan (IT) uses a de-centralised data management approach. Among the fellow cities, Madrid (ES), Quito (ECU), and Belgrade (SRB) run different kinds of central municipal data stores, whereas the other cities follow various approaches including independent GIS and other applications at different municipal departments.

Approach

Inventory of European data platforms

A catalogue was produced of the European data platforms most relevant regarding the aims of the project as described above. This catalogue goes beyond a mere stocktaking but describes a carefully chosen selection of European data hubs in detail, and it explains which data are available for which purposes and how they can be accessed. To facilitate this approach, a template (form sheet) was developed to ensure that the descriptions of the European databases are uniform, comparable, and complete in every case.

Selection of platforms

The data hubs presented in this catalogue were primarily selected because they can potentially enhance or support the data needed for assessing the effects of NBS and either directly relate to cities or are at least of relevance to them. The data platforms presented cover aspects regarding the state of the natural environment or of social and statistical factors, and several present indicators for specific purposes. Most of them have a range of sub-sections focussing on specific aspects.

The presented platforms contain recent data and frequently updated time series to enable the detection of changes – needed to e.g. measure effects brought about through the implementation of NBS (as mentioned above, assuming an application beyond the project time frame).

The following platforms were selected for inclusion in the catalogue:

- Urban Data Platform (JRC) – <http://urban.jrc.ec.europa.eu>
- JRC Data Catalogue (JRC) – <https://data.jrc.ec.europa.eu/>
- Copernicus Land Monitoring Service (EEA) – <https://land.copernicus.eu/>
- EEA Spatial Data Infrastructure (EEA) – <https://sdi.eea.europa.eu/catalogue/srv/eng/catalog.search#/home>
- EEA DiscoMap (EEA) – <http://discomap.eea.europa.eu/Index/>
- EEA Data and Maps – <https://www.eea.europa.eu/data-and-maps>
- ESPON Database Portal – <http://database.espon.eu/db2/>
- European Climate Adaptation Platform – <https://climate-adapt.eea.europa.eu/countries-regions/cities>
- WISE – Water Information System for Europe – <https://water.europa.eu>
- BISE – Biodiversity Information System for Europe – <https://biodiversity.europa.eu/>
- European Forest Information Portal – <http://forestportal.efi.int/>
- CDP – Disclosure Insight Action (former Carbon Disclosure Project) – <https://www.cdp.net/>

Structure of the template

The template provides the name of the investigated platform and its scopes. The logo is also given to help identify and recognise the particular platform. The template provides a descriptive text and it names the responsible institution. It explains how to access the database and which kinds of data can be viewed and downloaded. The latter is provided as lists with tick marks to enable an easy comparison between the various databases, i.e. which options they offer and which they do not. Data formats are explained in detail. The access conditions and the data policy are listed via a drop-down menu to ensure coherent information. Finally, some additional information is given to highlight specifics of the respective database and allow for flexibility of the template.

To illustrate the description of the databases and to show practical examples how to use them, a range of screenshots is provided for each of them. These screenshots also help to elucidate the various subsections of the databases which, in several cases, are dedicated to different applications. The blank template is shown below:

Template developed to describe EU data platforms useful for the CLEVER Cities project

Data Platform name:		Territorial scope:	
		Thematic scope:	
		Temporal scope:	
Logo:			
Description:			
Responsible institution:		Date of review:	
Data Platform URL:			
Related URL(s):			
Data Platform contents			
<i>Viewing possibilities</i>		<i>Download possibilities</i>	
Tabular data / indicators ☐ Static charts ☐ Interactive charts ☐ Static maps ☐ Interactive maps ☐ Interactive maps & charts ☐ Web Map Services (WMS) ☐		Tabular data / indicators ☐ Map/chart images / screenshots ☐ Reports (PDF...) ☐ Spatial data (points) ☐ Spatial data (lines) ☐ Spatial data (polygons) ☐ Spatial data (raster, image) ☐ Web Feature Services (WFS) ☐	
<i>Formats of data/spatial data/metadata (when available)</i> Format of tabular data: Format of spatial data: Format of metadata: Other formats provided:			
Type of access:	Choose an item.		
Data policy:	Choose an item.		
Additional information:			
Data Platform screenshot(s)			

Catalogue of EU data platforms suitable to support local processes

Urban Data Platform

Data Platform name:	Urban Data Platform	Territorial scope:	EU (cities, FUAs and metropolitan regions)
		Thematic scope:	Demography, urban development, economic development, transport and accessibility, environment and climate, resource efficiency, social issues.
		Temporal scope:	2010-2015 and future scenarios
Logo:			
Description:	The Urban Data Platform is a joint initiative of the Directorate General Joint Research Centre (DG JRC) and the Directorate General for Regional and Urban Policy (DG REGIO) of the European Commission. It aims to provide access to information on the status and trends of European cities and their surrounding regions. The cities currently included in the Urban Data Platform correspond to the EU-OECD definition "A city is a local administrative unit where the majority of the population lives in an urban centre of at least 50 000 inhabitants". Data on other cities will be available in further instances of the platform.		
Responsible institution:	European Commission DG REGIO and DG JRC	Date of review:	18/07/2018
Data Platform URL:	http://urban.jrc.ec.europa.eu		
Related URL(s):	https://ec.europa.eu/jrc/en/territorial-policies/platforms-models/urban-data-platform https://ec.europa.eu/jrc/en/luisa		
Data Platform contents			
Viewing possibilities		Download possibilities	
Tabular data / indicators	☒	Tabular data / indicators	☒
Static charts	☐	Map/chart images / screenshots	☐
Interactive charts	☒	Reports (PDF...)	☐
Static maps	☐	Spatial data (points)	☐
Interactive maps	☒	Spatial data (lines)	☐
Interactive maps & charts	☒	Spatial data (polygons)	☐
Web Map Services (WMS)	☐	Spatial data (raster, image)	☐
		Web Feature Services (WFS)	☐

Formats of data/spatial data/metadata (when available)

Format of tabular data: XLS, CSV

Format of spatial data:

Format of metadata:

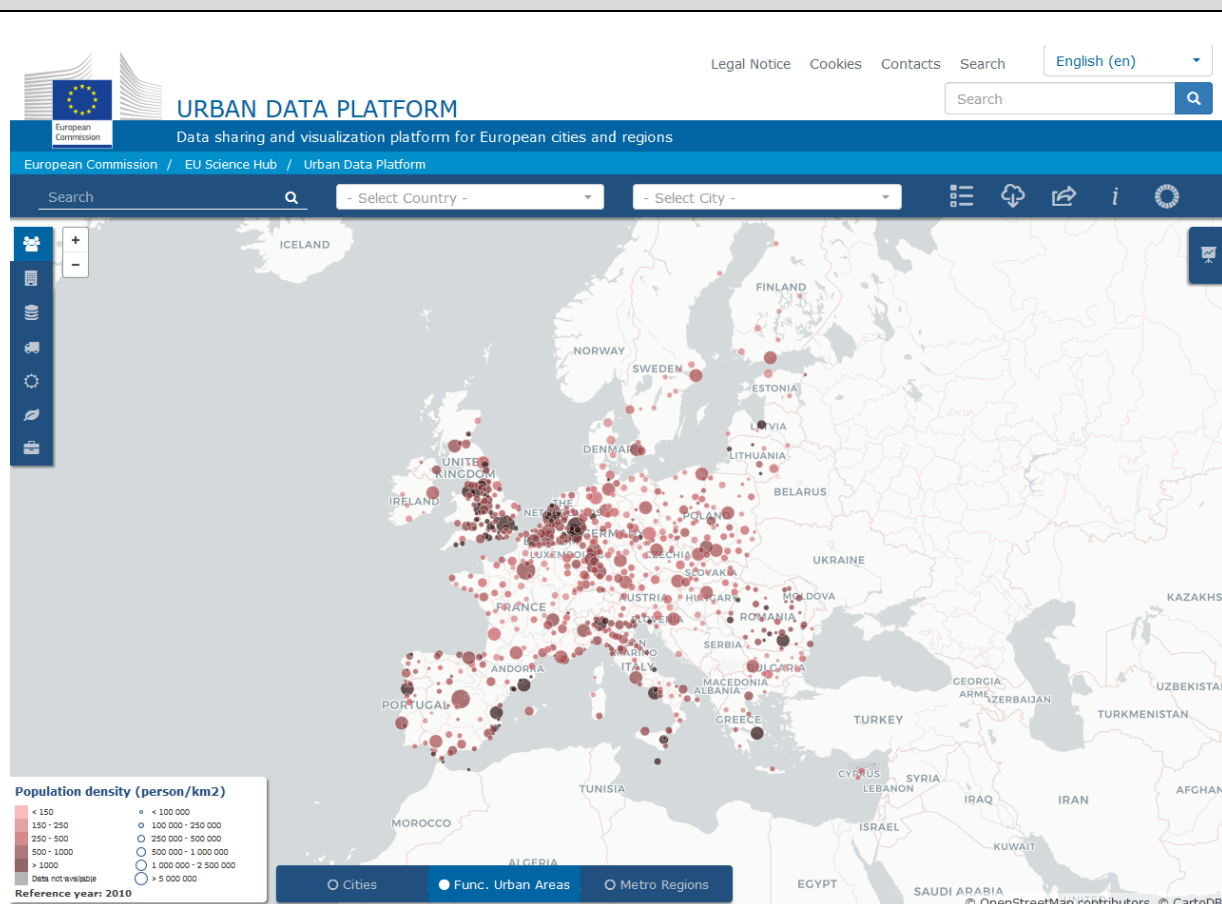
Other formats provided:

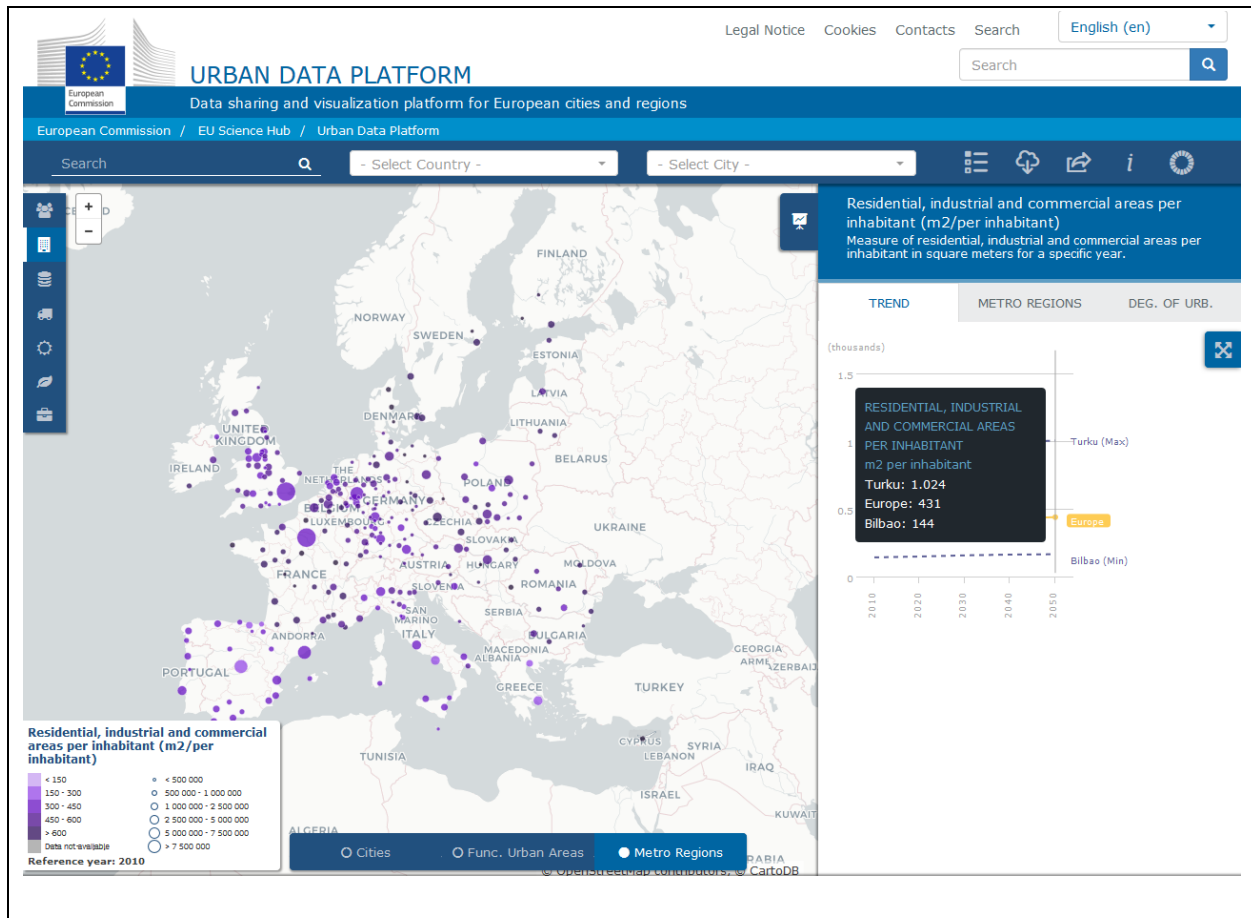
Type of access: Open

Data policy: Free usage

Additional information: It contains also prospective indicator for several topics, based on scenarios developed by means of JRC's LUISA platform.

Data Platform screenshot(s)





JRC Data Catalogue

Data Platform name:	JRC Data Catalogue	Territorial scope:	Europe, global
		Thematic scope:	Agriculture and food security, Economic and monetary union, Energy and transport, Environment and climate change, Health and consumer protection, Information society, Innovation and growth, Nuclear safety and security, Safety and security, Standards.
		Temporal scope:	Many
Logo:			
Description:	The Joint Research Centre (JRC) is the European Commission's in-house science service which employs scientists to carry out research in order to provide independent scientific advice and support to policies of the European Union. A dedicated JRC Data Policy was prepared to complement the JRC Policy on Open Access to Scientific Publications and Supporting Guidance, and to promote open access to research data in the context of Horizon 2020. In the JRC data catalogue, you can find an inventory of data produced by the JRC in accordance with the JRC Data Policy. The content is continuously updated and shall not be seen as a complete inventory of JRC data. Currently, the inventory describes only a small subset of JRC data.		
Responsible institution:	European Commission – JRC	Date of review:	30/07/18
Data Platform URL:	https://data.jrc.ec.europa.eu		
Related URL(s):	https://ec.europa.eu/jrc/en/about/jrc-in-brief/data-policy https://data.europa.eu/euodp/en/home		

Data Platform contents	
<i>Viewing possibilities</i> Tabular data / indicators ☐ Static charts ☐ Interactive charts ☐ Static maps ☐ Interactive maps ☐ Interactive maps & charts ☐ Web Map Services (WMS) ☒	<i>Download possibilities</i> Tabular data / indicators ☒ Map/chart images / screenshots ☒ Reports (PDF...) ☒ Spatial data (points) ☒ Spatial data (lines) ☒ Spatial data (polygons) ☒ Spatial data (raster, image) ☒ Web Feature Services (WFS) ☒
<i>Formats of data/spatial data/metadata (when available)</i> Format of tabular data: CSV, Excel, amongst others Format of spatial data: Shapefile, GeoTIFF, ESRI File Geodatabase, Mapinfo Tab, etc. Format of metadata: XML, plain text, etc. Other formats provided: PNG, PDF, JPEG, MDB, etc.	
Type of access:	Open
Data policy:	Free usage
Additional information:	Very good search and filtering interface, easy to look for a specific topic and filter by format, keywords, contributors, scientific area...

Data Platform screenshot(s)





Joint Research Centre Data Catalogue

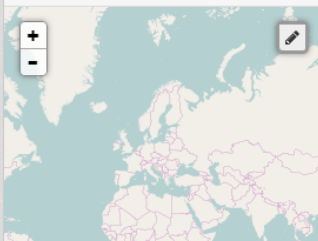
Opening access to JRC data

EUROPEAN COMMISSION > JRC > JRC Data Catalogue

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2017 PREDICT Dataset

PREDICT includes statistics on ICT industries and their R&D in Europe since 2006. The project covers major world competitors including 40 advanced and emerging countries -...

 **PREDICT**

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Acrylonitrile-Butadiene-Styrene granulate (ABS); production mix, at plant (Lo...

Raw data for polymerization and intermediate products are collected by several producers in Europe; the average is calculated by the consultant based on the production capacity...

 **PLCA**

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Aerated concrete block; mix of P2 04 and P4 05; production mix, at plant; ave...

The data set covers all relevant process steps / technologies over the supply chain of the represented cradle to gate inventory with a good overall data quality. The inventory...

 **PLCA**

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A_{BCIS} Ispra Atmosphere Biosphere Climate Integrated monitoring St... 27 Datasets	A_{ERONET-OC} Aeronet OceanColor 5 Datasets	A_{GRICULTURE} Datasets in the agricultural domain 1 Dataset	A_{IRMEX} European Indoor Air Monitoring and Exposure Assessment Project 1 Dataset
A_{LF-BIO} Alternative Fuels and BIOenergy 3 Datasets	B_{igDataEOSS} Earth Observation & Social Sensing Big Data 1 Dataset	C_{BM} Carbon Budget Model 1 Dataset	C_{CM} Catchment Characterisation and Modelling 1 Dataset
C_{EMS-EFAS} European Flood Awareness System	C_{EMS-EFFIS} Copernicus Emergency Management System -	C_{EMS-GIoFAS} Global Flood Awareness System	C_{EMS-GWIS} Copernicus Emergency Management System -


 Agriculture and food security


 Economic and monetary union


 Energy and transport


 Environment and climate change


 Health and consumer protection


 Information society


 Innovation and growth


 Nuclear safety and security


 Safety and security


 Standards

/ LF433 - Built-up area per ...



Organisation: European Commission, Joint Research Centre

Point of contact: ✉ carlo.lavalle@ec.europa.eu

Title: LF433 - Built-up area per inhabitant (LUISA Platform REF2014)

L UISA



Description

The built-up area per inhabitant measure the land consumption by comparing the size of the built-up areas with the population expressed in sq. m per inhabitant (m2 per person). The level of detail of this indicator is per NUTS0 and NUTS2.

Additional Publications: 1. Barbosa, A.; Lavalle, C.; Vandecasteele, I.; Vizcaino, M.; Vallecillo, S.; Perpina-Castillo, C.; Mari-Rivero I.; Baranzelli, C.; Jacobs-crisioni, C.; Batista e Silva, F.; Zulian, G.; Maes, J.; Guerra, C; (2015). "Evaluation of the status of natural resources in the u Scenario in the LUISA platform – Updated Configuration 201 modelling platform considerations. ". European Commission - Joint Research Centre. <http://doi.org/10.2788/527155>

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Ana Barbosa  0000-0003-2706-0743

How to cite

Lavalle, Carlo; Barbosa, Ana (2015): LF433 - Built-up area per inhabitant (LUISA Platform REF2014). European Commission, Joint Research Centre (JRC) [Dataset] PID: <http://data.europa.eu/89h/jrc-luisa-lf433-built-up-area-per-inhabitant-ref-2014>

Keywords

EU reference scenar...

EUROPOP2010

LUISA

Land

NUTS

NUTS0

NUTS2

Population

Pressure

refined CORINE land...

Related resources

Data access



LF433 - Built-up area per inhabitant (Danube)

The compressed zip file contains the projected built-up area per inhabitant for the Danube region at NUTS0 and NUTS2, from 2010 to 2050. The data is stored in .csv format.



LF433 - Built-up area per inhabitant (Europe)

The compressed zip file contains the projected built-up area per inhabitant at NUTS0 and NUTS2, from 2010 to 2050. The data is stored in .csv format.

Publications

Copernicus Land Monitoring Service

Data Platform name:	Copernicus Land Monitoring Service	Territorial scope:	Global, Pan-European, Local
		Thematic scope:	Land cover / land use
		Temporal scope:	1990-2015
Logo:			
Description:	Copernicus is a European system for monitoring the Earth. Data is collected by different sources, including Earth observation satellites and in-situ sensors. The data is processed and provides reliable and up-to-date information in six thematic areas: land, marine, atmosphere, climate change, emergency management and security. The land theme is divided into four main components: Global: produces a series of qualified bio-geophysical products on the status and evolution of the land surface, at global scale and at mid to low spatial resolution, complemented by the constitution of long term time series. Pan-European: it is coordinated by the European Environment Agency (EEA) and produces satellite image mosaics, land cover / land use (LC/LU) information in the CORINE Land Cover data, and the High Resolution Layers Local: it is coordinated by the European Environment Agency and aims to provide specific and more detailed information that is complementary to the information obtained through the Pan-European component. The local component focuses on different hotspots, i.e. areas that are prone to specific environmental challenges and problems. Reference data: the place for the LUCAS in-situ dataset.		
Responsible institution:	European Environment Agency (EEA)	Date of review:	01/08/2018
Data Platform URL:	https://land.copernicus.eu/		
Related URL(s):	http://www.copernicus.eu/ https://atmosphere.copernicus.eu/ http://marine.copernicus.eu/ http://climate.copernicus.eu/ http://emergency.copernicus.eu/ http://copernicus.eu/main/security		
Data Platform contents			
Viewing possibilities		Download possibilities	
Tabular data / indicators	☐	Tabular data / indicators	☐
Static charts	☐	Map/chart images / screenshots	☐
Interactive charts	☐	Reports (PDF...)	☐
Static maps	☐	Spatial data (points)	☐
Interactive maps	☒	Spatial data (lines)	☐
Interactive maps & charts	☐	Spatial data (polygons)	☒
Web Map Services (WMS)	☒	Spatial data (raster, image)	☒
		Web Feature Services (WFS)	☐

Formats of data/spatial data/metadata (when available)

Format of tabular data: -

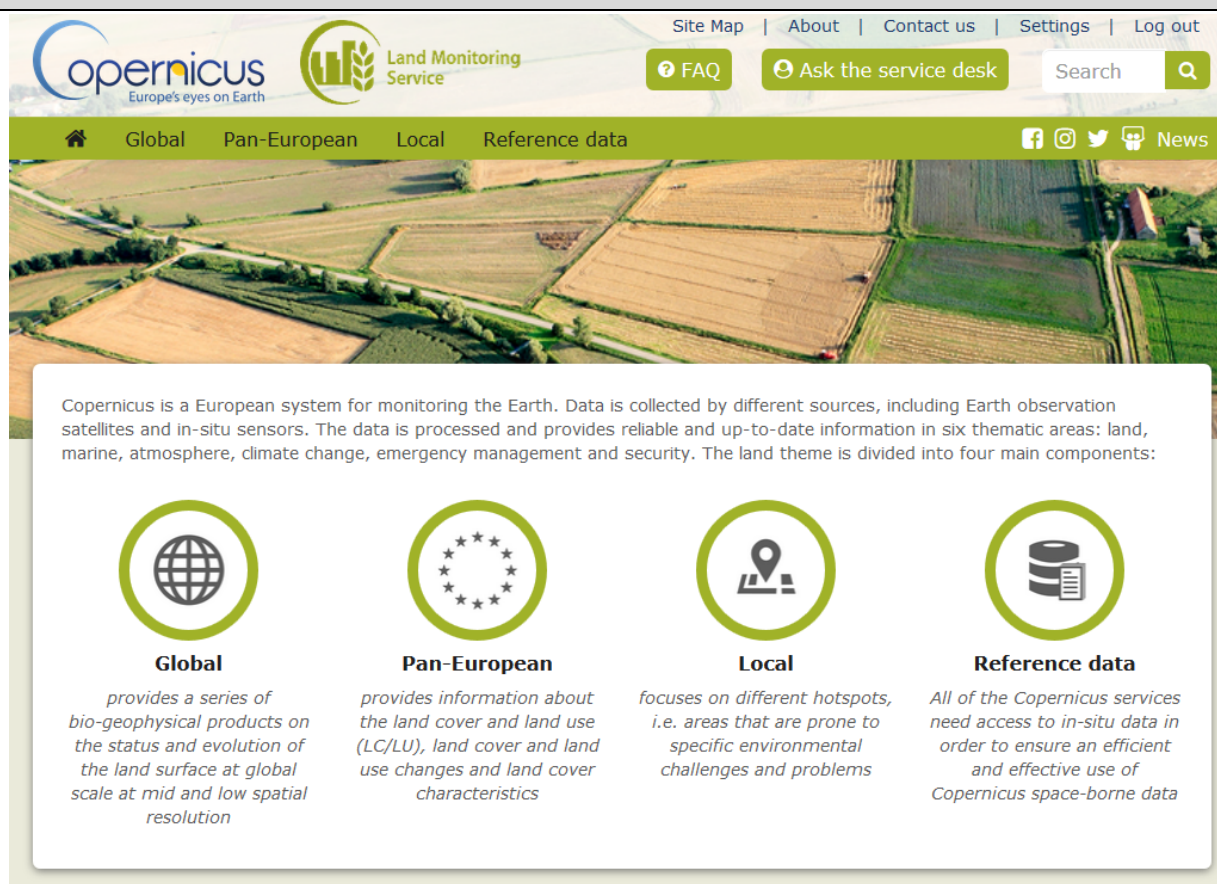
Format of spatial data: GeoTIFF, Shapefile, SQLite.

Format of metadata: Text.

Other formats provided: -

Type of access:	Login needed
Data policy:	Free usage
Additional information:	Free registration is needed in order to download the data.

Data Platform screenshot(s)



Copernicus is a European system for monitoring the Earth. Data is collected by different sources, including Earth observation satellites and in-situ sensors. The data is processed and provides reliable and up-to-date information in six thematic areas: land, marine, atmosphere, climate change, emergency management and security. The land theme is divided into four main components:

 Global <i>provides a series of bio-geophysical products on the status and evolution of the land surface at global scale at mid and low spatial resolution</i>	 Pan-European <i>provides information about the land cover and land use (LC/LU), land cover and land use changes and land cover characteristics</i>	 Local <i>focuses on different hotspots, i.e. areas that are prone to specific environmental challenges and problems</i>	 Reference data <i>All of the Copernicus services need access to in-situ data in order to ensure an efficient and effective use of Copernicus space-borne data</i>
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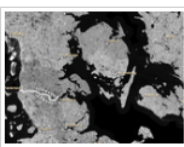


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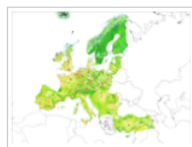
Pan-European

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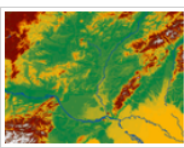
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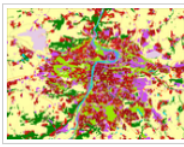


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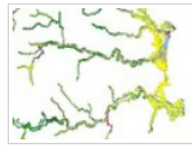
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[Riparian Zones](#)



[Natura 2000 \(N2K\)](#)

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- [Looking for national products?](#)




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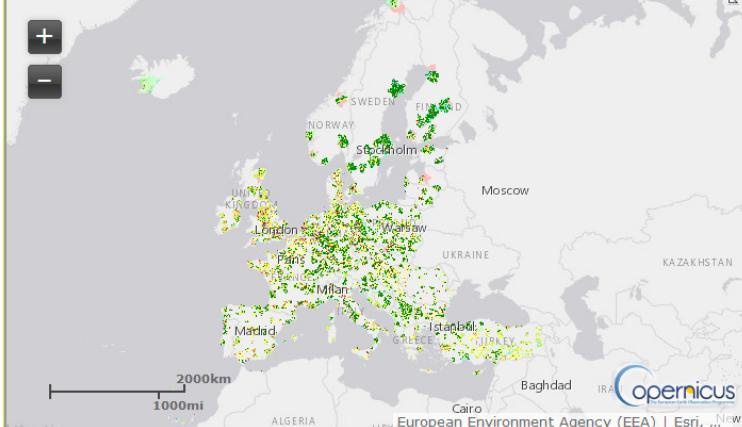
You are here: [Home](#) / [Local](#) / [Urban Atlas](#) / [Urban Atlas 2012](#)

Urban Atlas 2012

created by [Alan Steel](#) — last modified 22 May 2018, 09:00 AM

[Map View](#)
[Metadata](#)
[Download](#)

[Layers](#)
[Legend](#)
[Web services](#)



User corner

- [Contract opportunities](#)
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- [Use Cases](#)
- [Publications](#)
- [Technical library](#)
- [Looking for national products?](#)

Urban Atlas 2012

 Print

 created by [Alan Steel](#) — last modified 22 May 2018, 09:00 AM

[Map View](#) [Metadata](#) [Download](#)

Products can be downloaded by clicking on the delivered (dark-red) urban areas in the Web View tab, or by selecting the desired FUA(s) in the table below. Results can be filtered by using the search box. There is one zip archive per area, which includes: (1) the actual vector data in ESRI shapefile format (ETRS89-LAEA); (2) a PDF document with a high-resolution map of the area; and (3) a document with metadata and results of quality checks, referring to the original, non-reprojected data.

 Show **20** entries

Search:

☐ Name	Country	Type	Size
☐ Aachen	Germany	Vector	34.3 MB
☐ Aalborg	Denmark	Vector	176.9 MB
☐ Aberdeen	United Kingdom	Vector	152.5 MB
☐ Acireale	Italy	Vector	16.5 MB
☐ Adana-Mersin	Turkey	Vector	158.1 MB
☐ Adiyaman	Turkey	Vector	55.7 MB
☐ Afyonkarahisar	Turkey	Vector	42.5 MB
☐ Ağrı	Turkey	Vector	24.0 MB
☐ Ajaccio	France	Vector	55.8 MB
☐ Akçakale	Turkey	Vector	17.6 MB
☐ Aksaray	Turkey	Vector	70.6 MB
☐ Akşehir	Turkey	Vector	25.7 MB
☐ Alaçehir	Turkey	Vector	39.3 MB
☐ Alkmaar	Netherlands	Vector	20.5 MB

User corner

-  Contract opportunities
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-  Publications
-  Technical library
-  Looking for national products?

Water & Wetness 2015

 Print

 created by [Ludvig Forslund](#) — last modified 09 Jul 2018, 02:36 PM

[Map View](#) [Metadata](#) [Download](#)

DATA IDENTIFICATION

Resource title: High Resolution Layer: Water and Wetness 2015

Resource abstract: The combined Water and Wetness product is a thematic product showing the occurrence of water and wet surfaces over the period from 2009 to 2015. Two products are available: o The main Water and Wetness (WAW) product with defined classes of (1) permanent water, (2) temporary water, (3) permanent wetness and (4) temporary wetness. o The additional expert product: Water & Wetness Probability Index (WWPI) The products show the occurrence of water and indicate the degree of wetness in a physical sense, assessed independently of the actual vegetation cover and are thus not limited to a specific land cover class and their relative frequencies.

Resource type: Dataset

Resource Locator: <https://land.copernicus.eu/pan-european/high-resolution-layers/water-wetness/status-maps/2015>

CLASSIFICATION OF SPATIAL DATA

Topic of Environment

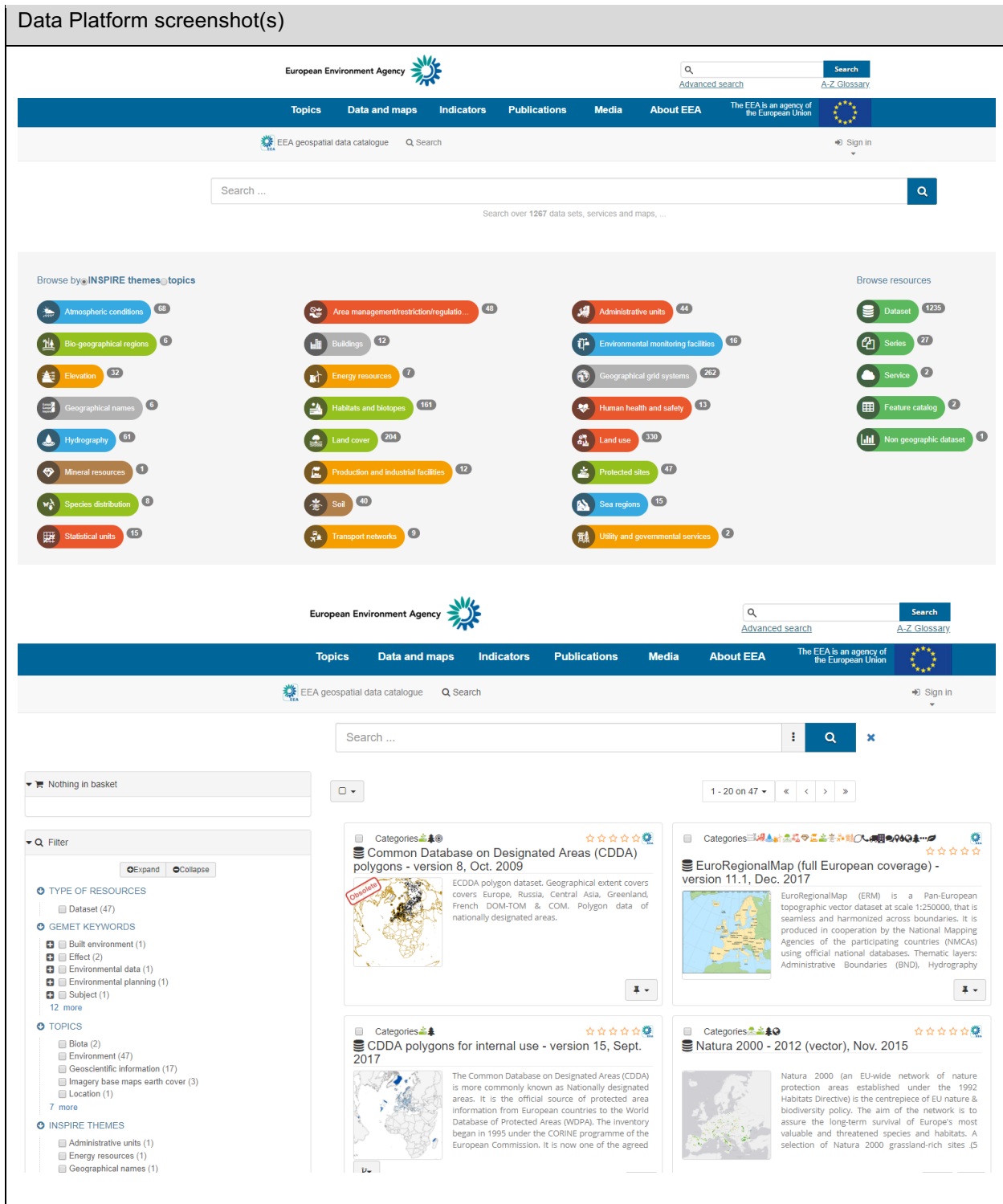
User corner

-  Contract opportunities
-  EAGLE
-  Use Cases
-  Publications
-  Technical library
-  Looking for national products?

EEA geospatial data catalogue

Data Platform name:	EEA geospatial data catalogue	Territorial scope:	EEA countries
		Thematic scope:	Environment
		Temporal scope:	1990-2018
Logo:	 EEA geospatial data catalogue		
Description:	This portal is the EEA's metadata catalogue corresponding to the EEA's Spatial Data Infrastructure (SDI). It contains standardised metadata records for all the datasets the EEA is using and publishing.		
Responsible institution:	European Environment Agency (EEA)	Date of review:	01/08/18
Data Platform URL:	https://sdi.eea.europa.eu/catalogue/srv/eng/catalog.search#/home		
Related URL(s):	https://www.eea.europa.eu/		
Data Platform contents			
<i>Viewing possibilities</i> Tabular data / indicators ☐ Static charts ☐ Interactive charts ☐ Static maps ☒ Interactive maps ☐ Interactive maps & charts ☐ Web Map Services (WMS) ☒		<i>Download possibilities</i> Tabular data / indicators ☐ Map/chart images / screenshots ☒ Reports (PDF...) ☒ Spatial data (points) ☐ Spatial data (lines) ☐ Spatial data (polygons) ☐ Spatial data (raster, image) ☐ Web Feature Services (WFS) ☐	
<i>Formats of data/spatial data/metadata (when available)</i> Format of tabular data: Format of spatial data: Format of metadata: XML, PDF, RDF Other formats provided:			
Type of access:	Open		
Data policy:	Free usage		
Additional information:	It is a metadata catalogue to discover what data are available. Data cannot be exported from this catalogue directly, but data publicly available for downloading is provided through “EEA Data and Maps”. Very good search and filtering interface.		

Data Platform screenshot(s)



European Environment Agency

Search

Advanced search A-Z Glossary

Topics Data and maps Indicators Publications Media About EEA The EEA is an agency of the European Union

EEA geospatial data catalogue Search Sign in

Search ...

Search over 1267 data sets, services and maps, ...

Browse by INSPIRE themes, topics

- Atmospheric conditions 68
- Bio-geographical regions 6
- Elevation 32
- Geographical names 6
- Hydrography 61
- Mineral resources 1
- Species distribution 8
- Statistical units 15
- Area management/restriction/regulation 48
- Buildings 12
- Energy resources 7
- Habitats and biotopes 161
- Land cover 204
- Production and industrial facilities 12
- Soil 40
- Transport networks 9
- Administrative units 44
- Environmental monitoring facilities 16
- Geographical grid systems 262
- Human health and safety 13
- Land use 330
- Protected sites 47
- Sea regions 15
- Utility and governmental services 2

Browse resources

- Dataset 1235
- Series 27
- Service 2
- Feature catalog 2
- Non geographic dataset 1

European Environment Agency

Search

Advanced search A-Z Glossary

Topics Data and maps Indicators Publications Media About EEA The EEA is an agency of the European Union

EEA geospatial data catalogue Search Sign in

Search ...

Nothing in basket

1 - 20 on 47

Filter

Expand Collapse

TYPE OF RESOURCES

- Dataset (47)

GEMET KEYWORDS

- Built environment (1)
- Effect (2)
- Environmental data (1)
- Environmental planning (1)
- Subject (1)
- 12 more

TOPICS

- Biota (2)
- Environment (47)
- Geoscientific information (17)
- Imagery base maps earth cover (3)
- Location (1)
- 7 more

INSPIRE THEMES

- Administrative units (1)
- Energy resources (1)
- Geographical names (1)

Categories

Common Database on Designated Areas (CDDA) polygons - version 8, Oct. 2009

ECDDA polygon dataset. Geographical extent covers Europe, Russia, Central Asia, Greenland, French DOM-TOM & COM. Polygon data of nationally designated areas.

Categories

EuroRegionalMap (full European coverage) - version 11.1, Dec. 2017

EuroRegionalMap (ERM) is a Pan-European topographic vector dataset at scale 1:250000, that is seamless and harmonized across boundaries. It is produced in cooperation by the National Mapping Agencies of the participating countries (NMCA) using official national databases. Thematic layers: Administrative Boundaries (BND), Hydrography

Categories

CDDA polygons for internal use - version 15, Sept. 2017

The Common Database on Designated Areas (CDDA) is more commonly known as Nationally designated areas. It is the official source of protected area information from European countries to the World Database of Protected Areas (WDPA). The inventory began in 1995 under the CORINE programme of the European Commission. It is now one of the agreed

Categories

Natura 2000 - 2012 (vector), Nov. 2015

Natura 2000 (an EU-wide network of nature protection areas established under the 1992 Habitats Directive) is the centrepiece of EU nature & biodiversity policy. The aim of the network is to assure the long-term survival of Europe's most valuable and threatened species and habitats. A selection of Natura 2000 grassland-rich sites (5

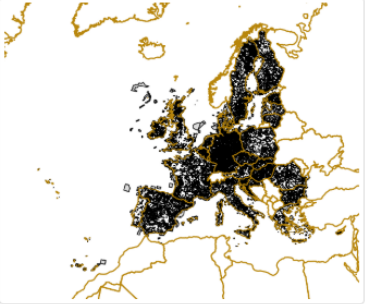
European Environment Agency


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[A-Z Glossary](#)

Topics
Data and maps
Indicators
Publications
Media
About EEA
The EEA is an agency of the European Union


 EEA geospatial data catalogue
 Search

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Natura 2000 (vector) - version 2017, Mar. 2018

Natura 2000 is an ecological network composed of sites designated under the Birds Directive (Special Protection Areas, SPAs) and the Habitats Directive (Sites of Community Importance, SCIs, and Special Areas of Conservation, SACs).

The European database on Natura 2000 sites consists of a compilation of the data submitted by Member States to the European Commission. This European database is generally updated once per year, so as to take into account any updating of the content of the national databases by Member States. However, the release of a new EU-wide database does not necessarily entail that a particular national dataset has recently been updated.

The descriptive data in the European database are based on the information that national authorities have submitted, for each of the Natura 2000 sites, through a site-specific standard data form (SDF). Amongst other site-specific information, the standard data form provides the list of all species and habitat types for which a site is officially designated.

The spatial data (borders of sites) submitted by each Member State are validated by the European Environment Agency (EEA), including as regard their consistency with the descriptive data.

Any problems identified through the above validation procedures in the national datasets are brought to the attention of the Member States concerned. However, it remains up to the Member States to decide whether or not to submit a revised dataset before the European database is updated. As a consequence, the EEA cannot guarantee that all inconsistencies detected in national datasets are removed in the European dataset.

Please note that some Member States have submitted sensitive information that has been filtered out of this database. The following Member States have submitted sensitive information: Austria, Finland, France, Germany, Ireland, Italy, Latvia, Luxembourg, Poland, Spain and Sweden. This concerns mainly species associated to specific sites. All reference to these species has been removed from the related sites. If this

Overview

Spatial extent



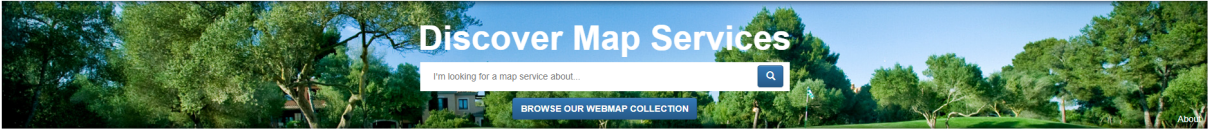
EEA DiscoMap

Data Platform name:	EEA DiscoMap	Territorial scope:	EEA countries
		Thematic scope:	Environment
		Temporal scope:	1990-2018
Logo:	 DiscoMap		
Description:	Discomap is the web map service catalogue of the EEA. In this portal users can search and view all the WMS published by the EEA.		
Responsible institution:	European Environment Agency (EEA)	Date of review:	31/07/18
Data Platform URL:	http://discomap.eea.europa.eu		
Related URL(s):	https://www.eea.europa.eu/		
Data Platform contents			
<i>Viewing possibilities</i>		<i>Download possibilities</i>	
Tabular data / indicators ☐		Tabular data / indicators ☐	
Static charts ☐		Map/chart images / screenshots ☒	
Interactive charts ☐		Reports (PDF...) ☐	
Static maps ☐		Spatial data (points) ☐	
Interactive maps ☐		Spatial data (lines) ☐	
Interactive maps & charts ☐		Spatial data (polygons) ☐	
Web Map Services (WMS) ☒		Spatial data (raster, image) ☐	
		Web Feature Services (WFS) ☐	
<i>Formats of data/spatial data/metadata (when available)</i>			
Format of tabular data:			
Format of spatial data: REST, JSON, SOAP, WMS, ArcGIS Javascript			
Format of metadata: XML			
Other formats provided:			
Type of access:	Open		
Data policy:	Free usage		
Additional information:	Standard WMS provided, possibility to be harvested from any geoportal using standard protocols. Formats of spatial data given although it is not possible to download these data because the web services, they allow to “view” the data as a kind of image while it is not possible to get the data themselves (as shapefiles or GeoTIFFs, for instance).		

Data Platform screenshot(s)


DiscoMap

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SERVICES BY CATEGORY

LAND

- Agriculture 15
- Background 4
- Elevation [land] 2
- Forest 4
- Imperviousness 5
- Land 66
- LPD 1
- Urban 4
- Urban_GI 5
- UrbanAtlas [land] 3

BIO

- Article_12 6
- Article17 3
- Bio 10
- BioRegions 3
- Ecosystem 5
- Internal 11
- Life 2
- MAES 4
- ProtectedSites 13
- SEIS 3

WATER

- BathingWater 6
- CoralReefWatch [water] 2
- GroundwaterSoE 7
- RiversLakesBiologicalElementsSoE 1
- RiversLakesSoE 8
- UrbanWasteWater 6
- Water 42
- WaterExploitationIndex 3
- WaterQuantitySoE 1
- Wise 17

COPERNICUS

- Corine 21
- Elevation [copernicus] 3
- EUHydro 6
- GioLand [copernicus] 11
- GioLandPublic 47
- Natura2000 6
- RiparianZones 6
- SoilSealing 4
- UrbanAtlas [copernicus] 12

AIR

- Air 5
- Airbase 13
- AirQuality 4
- EPRTTR 1

IMAGE

- GioLand [image] 11
- Image 4
- Noise [image] 37
- noiseStoryMap [image] 5

MARINE

- CoralReefWatch [marine] 2
- Marine 9
- MarineLitterWatch 4

NOISE

- Noise [noise] 37

CLIMATE

- ClimateAdapt 60
- Drought 12
- Forest_Fires 2
- Heatstress 2
- Heatwave 4
- Phenology_PEP725 21
- Urban_Vulnerability 46

MARATLAS

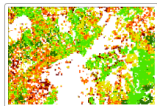
SOER

DiscoMap

Map Service Directory

You are here: [Home](#) / [Forest](#)

[View Forest in ArcGIS Services Directory](#)



forest_management_pressures (MapServer)

[REST](#) [JSON](#) [SOAP](#) [WMS](#) [Metadata](#) [ArcGIS JavaScript](#)

Title forest_management_pressures

Author

Subject

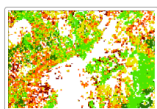
Keywords

Copyright Text ETC-ULS

Registered first time 22 Feb 2018

Service Description The basic production steps are: 1. Categorization of potential forest management approach 2. Comparison of forest harvest and regrowth and classification in terms of sustainability 3. Evaluation forest patch size and connectivity 4. Compilation of the three sub-indicators into the management related forest pressure indicator For a detailed methodology please consult the report.

[More info](#)



forest_management_pressures (MapServer)

[REST](#) [JSON](#) [SOAP](#) [WMS](#) [Metadata](#) [ArcGIS JavaScript](#)

Title forest_management_pressures

Author

Subject

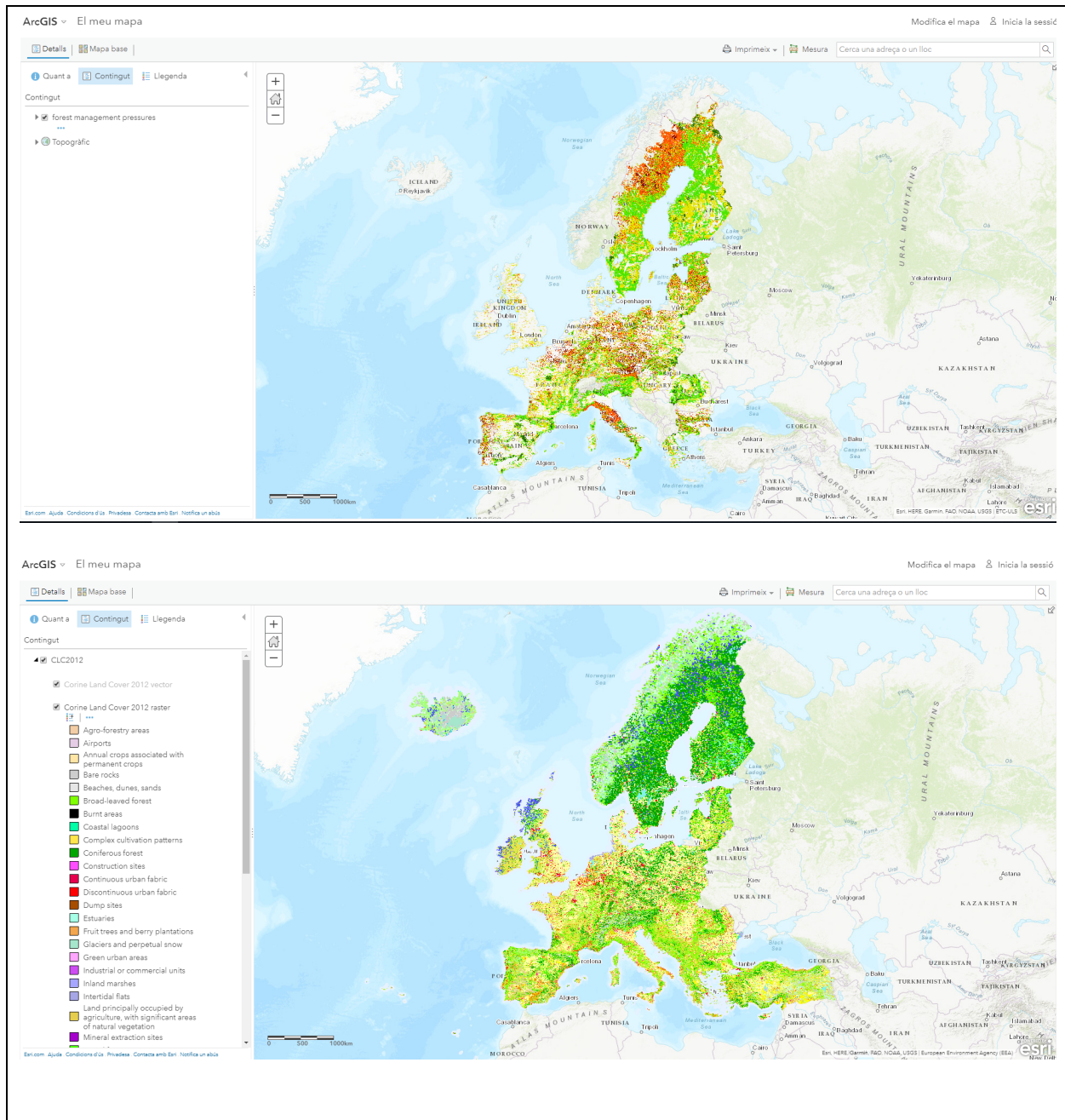
Keywords

Copyright Text ETC-ULS

Registered first time 22 Feb 2018

Service Description The basic production steps are: 1. Categorization of potential forest management approach 2. Comparison of forest harvest and regrowth and classification in terms of sustainability 3. Evaluation forest patch size and connectivity 4. Compilation of the three sub-indicators into the management related forest pressure indicator For a detailed methodology please consult the report.

[More info](#)



EEA Data and Maps

Data Platform name:	EEA Data and Maps	Territorial scope:	EEA countries
		Thematic scope:	Environment
		Temporal scope:	1990-2018
Logo:	No specific logo		
Description:	Centralised portal aimed at searching for, viewing and downloading the data, maps and charts that the EEA has published within indicators, reports, etc.		
Responsible institution:	European Environment Agency (EEA)	Date of review:	02/08/18
Data Platform URL:	https://www.eea.europa.eu/data-and-maps		
Related URL(s):	https://www.eea.europa.eu/		
Data Platform contents			
<i>Viewing possibilities</i>		<i>Download possibilities</i>	
Tabular data / indicators ☒		Tabular data / indicators ☒	
Static charts ☒		Map/chart images / screenshots ☒	
Interactive charts ☒		Reports (PDF...) ☒	
Static maps ☒		Spatial data (points) ☒	
Interactive maps ☒		Spatial data (lines) ☒	
Interactive maps & charts ☒		Spatial data (polygons) ☒	
Web Map Services (WMS) ☐		Spatial data (raster, image) ☒	
		Web Feature Services (WFS) ☐	
<i>Formats of data/spatial data/metadata (when available)</i>			
Format of tabular data: CSV, MDB, etc.			
Format of spatial data: Shapefiles, GeoTIFF, etc.			
Format of metadata:			
Other formats provided: PNG, GIF, PDF, TSV, HTML...			
Type of access:	Open		
Data policy:	Free usage		
Additional information:	Complete search and filtering interface, through the EEA's Content Management System. Possibility to filter by content type (data, graph, indicator, map...).		

Data Platform screenshot(s)

European Environment Agency



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A-Z Glossary

Topics

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Indicators

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Data and maps

Data and maps

Search data products

Advanced

Search data, maps, graphs...

Search

Browse complete catalogue

All data products



Up-to-date air quality data



Ratio of green recycling to land take



Ratio of densification to land take as an



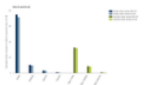
Land recycling and densification



Boxplot of land recycling by



Land recycling and densification



Population exposure to environmental



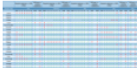
European Union Emissions Trading



National Emission Ceilings (NEC)



Percentage of area of groundwater bodies



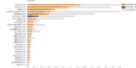
EU Member State progress in meeting



Distribution of marine litter by material type

Interactive data viewers

See all



Ratio of densification to land take as an average of all functional urban areas (FUAs) by country

Read more

Infographics

See all



Actors in the food chain

Food system actors represent the largest group of natural resource managers in the world. They are critical in both creating the problems and implementing the solutions. Identifying actors ...

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Browse by organisation

Semantic Data Service

Access our data via semantic APIs

Global search on data, maps and indicators

Free text search

☒ all items ☐ in current results

Current search

[X] Results per page

[X] 12

[X] Topics

[X] All (4845)

[X] Content type

[X] Data [X] Graph [X] Indicator [X] Infographic [X] Interactive data [X] Interactive map [X] Map

△ Hide filters [X] Remove all

[1] 2 3 4 5 6 7 ... 404

next 12 items »



Up-to-date air quality data

01 Aug 2018

Latest measurements from Europe's air quality monitoring network

➔ Read more



Ratio of green recycling to land take as an average of all functional urban areas (FUAs) by country

27 Jul 2018

➔ Read more



Ratio of densification to land take as an average of all functional urban areas (FUAs) by country

Content type

- ☐ Article
- ☒ Data
- ☒ Graph
- ☒ Indicator
- ☒ Infographic
- ☒ Interactive data
- ☒ Interactive map
- ☒ Map
- ☐ News
- ☐ Publication
- ☐ Video

Filter by publishing date

Start date

End date

Topics

- ☒ All (4845)
- ☐ Agriculture (151)
- ☐ Air pollution (717)
- ☐ Biodiversity - Ecosystems (606)
- ☐ Chemicals (10)
- ☐ Climate change adaptation (522)
- ☐ Climate change mitigation (552)

Global search on data, maps and indicators

Free text search

☒ all items ☐ in current results

Current search

[X] Results per page

[X] 12

[X] Topics

[X] All (3)

[X] Content type

[X] Data

[X] Free text search

[X] green infrastructure

△ Hide filters [X] Remove all



Natura 2000 data - the European network of protected sites

03 Apr 2018

Natura 2000 is the key instrument to protect biodiversity in the European Union. It is an ecological network of protected areas, set up to ensure the survival of Europe's most valuable species and habitats. Natura 2000 is based on the 1979 Birds Directive and the 1992 Habitats Directive. This version covers the reporting in 2017.

➔ Read more



Nationally designated areas (CDDA)

18 Sep 2017

The European inventory of nationally designated areas holds information about protected areas and the national legislative instruments, which directly or indirectly create protected areas.

➔ Read more



Corine biotopes

14 Mar 2003

Content type

- ☐ Article
- ☒ Data
- ☐ Graph
- ☐ Indicator
- ☐ Infographic
- ☐ Interactive data
- ☐ Interactive map
- ☐ Map
- ☐ News
- ☐ Publication
- ☐ Video

Filter by publishing date

Start date

End date

Topics

- ☒ All (3)
- ☐ Agriculture (0)
- ☐ Air pollution (0)
- ☐ Biodiversity - Ecosystems (3)
- ☐ Chemicals (0)
- ☐ Climate change adaptation (0)
- ☐ Climate change mitigation (0)
- ☐ Default (0)
- ☐ Energy (0)
- ☐ Environment and health (0)
- ☐ Environmental scenarios (0)

ESPON ToolBox

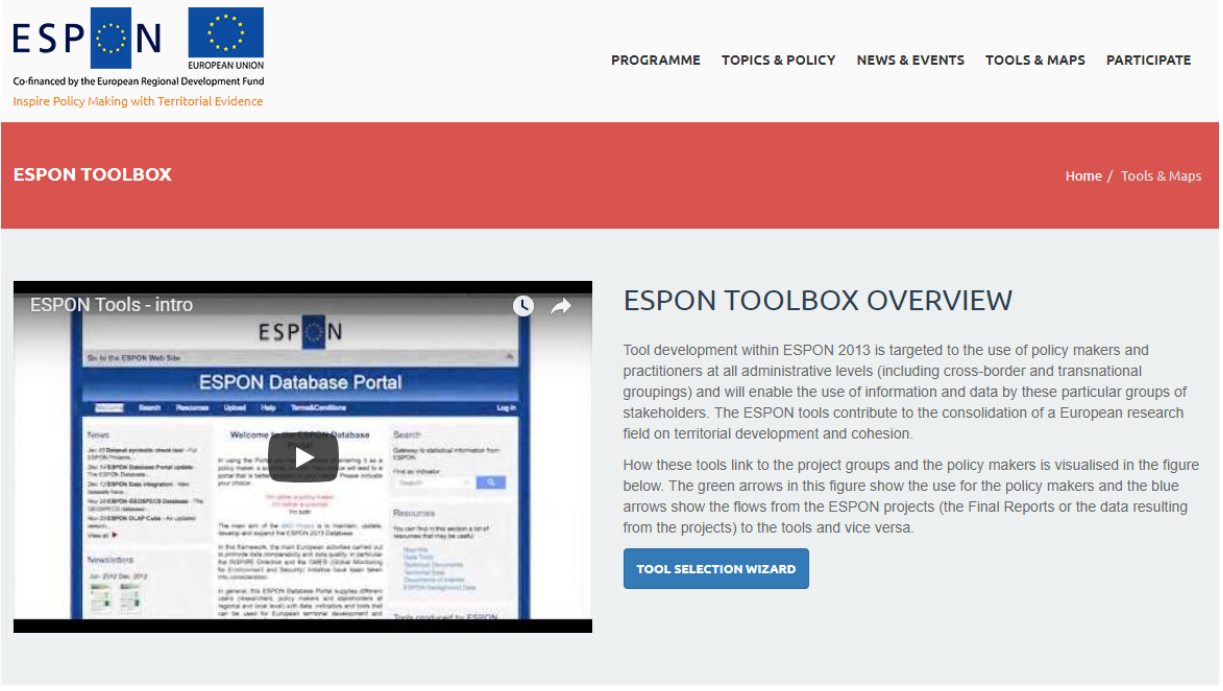
Data Platform name:	ESPON ToolBox	Territorial scope:	ESPON countries (EU28+EFTA), also global
		Thematic scope:	Territorial indicators
		Temporal scope:	2000-2018, future scenarios
Logo:	ESPON  EUROPEAN UNION Co-financed by the European Regional Development Fund Inspire Policy Making with Territorial Evidence ESPON TOOLBOX		
Description:	The ESPON 2020 Programme aims at promoting and fostering a European territorial dimension in development and cooperation by providing evidence, knowledge transfer and policy learning to public authorities and other policy actors at all levels. ESPON 2020 shall continue the consolidation of a European Territorial Observatory Network and grow the provision and policy use of pan-European, comparable, systematic and reliable territorial evidence. The ESPON ToolBox provides access to the different tools that the ESPON Programme has developed over the past years. It includes a wizard to help finding out the tool that most suits the user needs. Amongst the different tools, the ESPON Database, which is about to be completely renewed, provides access to all the ESPON indicators plus additional data.		
Responsible institution:	ESPON	Date of review:	02/08/18
Data Platform URL:	https://www.espon.eu/tools-maps		
Related URL(s):	https://www.espon.eu/		
Data Platform contents			
<i>Viewing possibilities</i>		<i>Download possibilities</i>	
Tabular data / indicators ☒		Tabular data / indicators ☒	
Static charts ☒		Map/chart images / screenshots ☒	
Interactive charts ☒		Reports (PDF...) ☒	
Static maps ☒		Spatial data (points) ☒	
Interactive maps ☒		Spatial data (lines) ☒	
Interactive maps & charts ☒		Spatial data (polygons) ☒	
Web Map Services (WMS) ☐		Spatial data (raster, image) ☒	
		Web Feature Services (WFS) ☐	

Formats of data/spatial data/metadata (when available)

Format of tabular data: MS Excel, CSV
 Format of spatial data: Shapefile, GeoTIFF, etc.
 Format of metadata: XML
 Other formats provided: PNG, JPEG, PDF, etc.

Type of access:	Login needed
Data policy:	Free usage
Additional information:	Each of the tools has a specific purpose, mainly aimed at visualising territorial trends. The ESPON Database is the main tool for data download. It provides basically information up to NUTS3 level, but data at local level (e.g. LAU) is also available.

Data Platform screenshot(s)



ESPON TOOLBOX OVERVIEW

Tool development within ESPON 2013 is targeted to the use of policy makers and practitioners at all administrative levels (including cross-border and transnational groupings) and will enable the use of information and data by these particular groups of stakeholders. The ESPON tools contribute to the consolidation of a European research field on territorial development and cohesion.

How these tools link to the project groups and the policy makers is visualised in the figure below. The green arrows in this figure show the use for the policy makers and the blue arrows show the flows from the ESPON projects (the Final Reports or the data resulting from the projects) to the tools and vice versa.

TOOL SELECTION WIZARD

ALL
MAPS
DATA
MONITORING
ANALYSIS
TIA



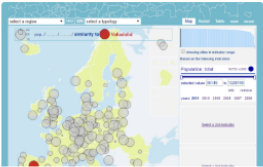
ESPON 2013 Database

Access to regional, local, urban, neighbourhood (candidate countries), world, grid and historical data ...



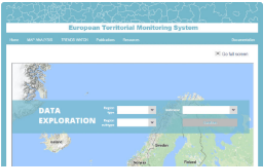
Baltic Sea Region Territorial Monitoring System

Baltic Sea Region Territorial Monitoring System ...



CityBench: Urban Benchmarking

Urban Benchmarking - A quick scan tool supporting investment decisions ...



ETMS Tool - European Territorial Monitoring System

Statistical information and practical evidence on territorial trends, dynamics, patterns and structural changes ...



ESPON Data Navigator

Access to data sources, statistical series and databases provided by National Statistical Offices ...



Functional Indicators Tool

Effects of transportation networks on accessibility and the territorial development. ...



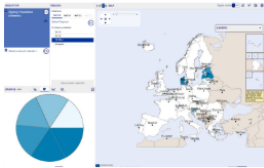
ESPON HyperAtlas

Compare and analyse a region's relative position at european, national and local level ...



ESPON Online Map Finder

Access to the most relevant ESPON maps. ...



RIMAP Online Mapping tool



ESPON TIA Tool

European Climate Adaptation Platform

Data Platform name:	European Climate Adaptation Platform	Territorial scope:	EU28
		Thematic scope:	Climate change adaptation
		Temporal scope:	Various
Logo:			
Description:	The European Climate Adaptation Platform (Climate-ADAPT) is a partnership between the European Commission (DG CLIMA, DG Joint Research Centre and other DGs) and the European Environment Agency. Climate-ADAPT aims to support Europe in adapting to climate change. It is an initiative of the European Commission and helps users to access and share data and information on: - Expected climate change in Europe - Current and future vulnerability of regions and sectors - EU, national and transnational adaptation strategies and actions - Adaptation case studies and potential adaptation options - Tools that support adaptation planning It collects a vast amount of information coming from several sources, in forms of reports, case studies, guidance documents, adapt city profiles, information portals, tools, etc.		
Responsible institution:	EC/EEA	Date of review:	25/08/18
Data Platform URL:	https://climate-adapt.eea.europa.eu/countries-regions/cities		
Related URL(s):	https://climate-adapt.eea.europa.eu		
Data Platform contents			
<i>Viewing possibilities</i>		<i>Download possibilities</i>	
Tabular data / indicators	☒	Tabular data / indicators	☒
Static charts	☐	Map/chart images / screenshots	☐
Interactive charts	☐	Reports (PDF...)	☒
Static maps	☐	Spatial data (points)	☐
Interactive maps	☐	Spatial data (lines)	☐
Interactive maps & charts	☐	Spatial data (polygons)	☐
Web Map Services (WMS)	☐	Spatial data (raster, image)	☐
		Web Feature Services (WFS)	☐

Formats of data/spatial data/metadata (when available)

Format of tabular data:

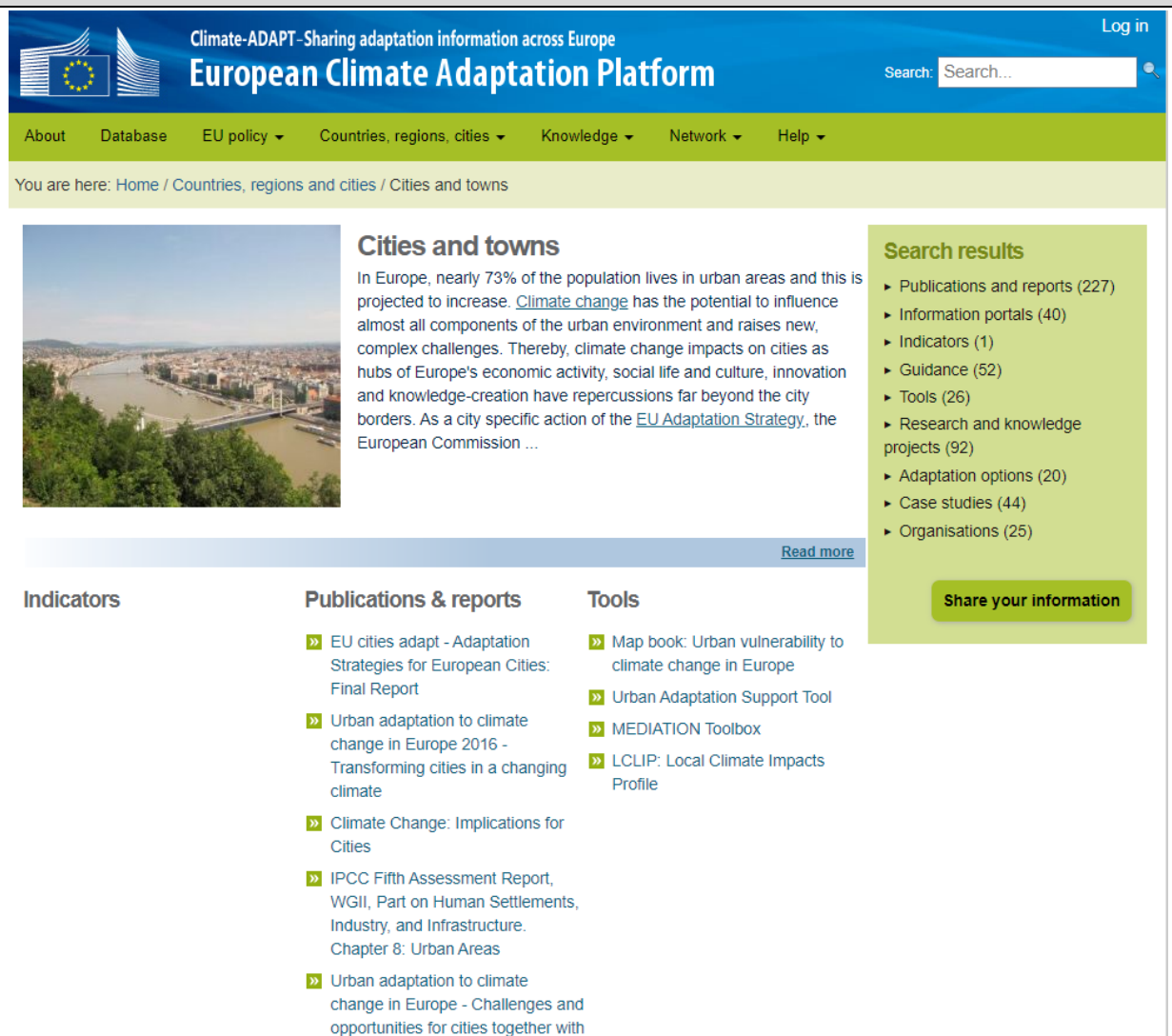
Format of spatial data:

Format of metadata:

Other formats provided: This platform is not directly providing data/metadata, but pointing out to other resources where many different types of information at European or local level can be found.

Type of access:	Open
Data policy:	Free usage
Additional information:	This platform is a collection of several different types of resources from many sources related to climate change adaptation. It includes links to indicators, reports, guidelines, etc. both at European and local levels.

Data Platform screenshot(s)



The screenshot shows the homepage of the European Climate Adaptation Platform. The header features the EU flag and the text "Climate-ADAPT-Sharing adaptation information across Europe". The main navigation bar includes links for About, Database, EU policy, Countries, regions, cities, Knowledge, Network, and Help. A search bar is located in the top right corner. The breadcrumb trail indicates the user is in "Home / Countries, regions and cities / Cities and towns". The main content area is titled "Cities and towns" and includes a paragraph about urban population growth and climate change impacts. A "Read more" link is provided. To the right, a "Search results" sidebar lists various categories and their counts, such as Publications and reports (227), Information portals (40), and Indicators (1). At the bottom, there are three columns: Indicators, Publications & reports, and Tools, each listing relevant resources.

European Climate Adaptation Platform

Search:

Log in

About Database EU policy Countries, regions, cities Knowledge Network Help

You are here: Home / Countries, regions and cities / Cities and towns

Cities and towns

In Europe, nearly 73% of the population lives in urban areas and this is projected to increase. [Climate change](#) has the potential to influence almost all components of the urban environment and raises new, complex challenges. Thereby, climate change impacts on cities as hubs of Europe's economic activity, social life and culture, innovation and knowledge-creation have repercussions far beyond the city borders. As a city specific action of the [EU Adaptation Strategy](#), the European Commission ...

[Read more](#)

Search results

- Publications and reports (227)
- Information portals (40)
- Indicators (1)
- Guidance (52)
- Tools (26)
- Research and knowledge projects (92)
- Adaptation options (20)
- Case studies (44)
- Organisations (25)

[Share your information](#)

Indicators

Publications & reports

- » EU cities adapt - Adaptation Strategies for European Cities: Final Report
- » Urban adaptation to climate change in Europe 2016 - Transforming cities in a changing climate
- » Climate Change: Implications for Cities
- » IPCC Fifth Assessment Report, WGII, Part on Human Settlements, Industry, and Infrastructure. Chapter 8: Urban Areas
- » Urban adaptation to climate change in Europe - Challenges and opportunities for cities together with

Tools

- » Map book: Urban vulnerability to climate change in Europe
- » Urban Adaptation Support Tool
- » MEDIATION Toolbox
- » LCLIP: Local Climate Impacts Profile

WISE – Water Information System for Europe

Data Platform name:	WISE – Water Information System for Europe	Territorial scope:	EU28
		Thematic scope:	Water, freshwater, marine water
		Temporal scope:	many, mainly 2000-2018
Logo:			
Description:	The Water Information System for Europe (WISE) is a partnership between the European Commission (DG Environment, Joint Research Centre and Eurostat) and The European Environment Agency. WISE addresses several user groups: EU institutions as well as Member States national, regional and local administrations working in water policy development or implementation Professionals working in the water field from public or private organisations, with a technical interest on water Scientists working in the water field General public, including in this group those working in private or public entities not directly related to water policy but with an indirect interest in water (regular or sporadic) WISE was launched for public use as a web-based service on 22 March (World Water Day) 2007 providing a web-portal entry to water related information ranging from inland waters to marine. The web-portal is now grouped into sections for EU water policies (directives, implementation reports and supporting activities) Data and themes (reported datasets, interactive maps, statistics, indicators) Modelling (now- and fore-casting services across Europe) Projects and research (inventory for links to recently completed and ongoing water related projects and research activities)		
Responsible institution:	EC/EEA	Date of review:	25/08/18
Data Platform URL:	https://water.europa.eu		
Related URL(s):	https://water.europa.eu/freshwater https://water.europa.eu/marine https://www.eea.europa.eu/themes/water/dc		

Data Platform contents	
<i>Viewing possibilities</i> Tabular data / indicators ☒ Static charts ☒ Interactive charts ☒ Static maps ☒ Interactive maps ☒ Interactive maps & charts ☒ Web Map Services (WMS) ☒	<i>Download possibilities</i> Tabular data / indicators ☒ Map/chart images / screenshots ☒ Reports (PDF...) ☒ Spatial data (points) ☒ Spatial data (lines) ☒ Spatial data (polygons) ☒ Spatial data (raster, image) ☐ Web Feature Services (WFS) ☐
<i>Formats of data/spatial data/metadata (when available)</i> Format of tabular data: XLS, Access Format of spatial data: GDB, Shapefile Format of metadata: XML Other formats provided: PDF, EPS...	
Type of access:	Open
Data policy:	Free usage
Additional information:	The System is divided into freshwater and marine separate platforms. From each of them, the user can access to policy information, reports, indicators, data and maps, etc. It links to other resources from the EC or the EEA (e.g. Data and Maps platform).
Data Platform screenshot(s)	

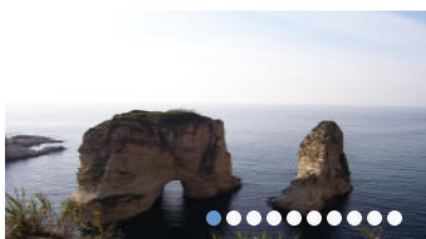


WISE - Water Information System for Europe is the European information gateway to water issues



[Site Map](#) | [Contact](#) | [Accessibility](#) | [About](#) | [Links](#) | [Legal Notice](#)

WISE FRESHWATER



The Water Information System for Europe

– or more commonly known as WISE – is your gateway to information on European water issues. It comprises a wide range of data and information collected by EU institutions to serve several stakeholders

[Links](#)
[Policy](#)
[Data and topics](#)
[Modelling](#)
[Projects and research](#)

WISE is a partnership between the European Commission (DG Environment, Joint Research Centre and Eurostat) and the European Environment Agency. The main roles and responsibilities of the partners are:

DG Environment, leads the policy and strategic aspect of WISE. It liaises with Member States, especially on official reporting requirements of EU water legislation.
For more information: http://ec.europa.eu/environment/water/index_en.htm

The **European Environment Agency** hosts the Water Data Centre and the thematic WISE webpages.

For more information:

- <http://www.eea.europa.eu/themes/water/dc>
- <http://www.eea.europa.eu/themes/water>

The **Joint Research Centre** conducts environmental monitoring and water resources modelling including nowcasting and forecasting services. For more information: <https://ec.europa.eu/jrc/en>

● Droughts:

- <http://edo.jrc.ec.europa.eu>
- <https://ec.europa.eu/jrc/en/research-topic/desertification-and-drought>

● Floods:

- <https://www.efas.eu/>
- <https://ec.europa.eu/jrc/en/research-topic/floods>

● Fate and impacts of pollutants:

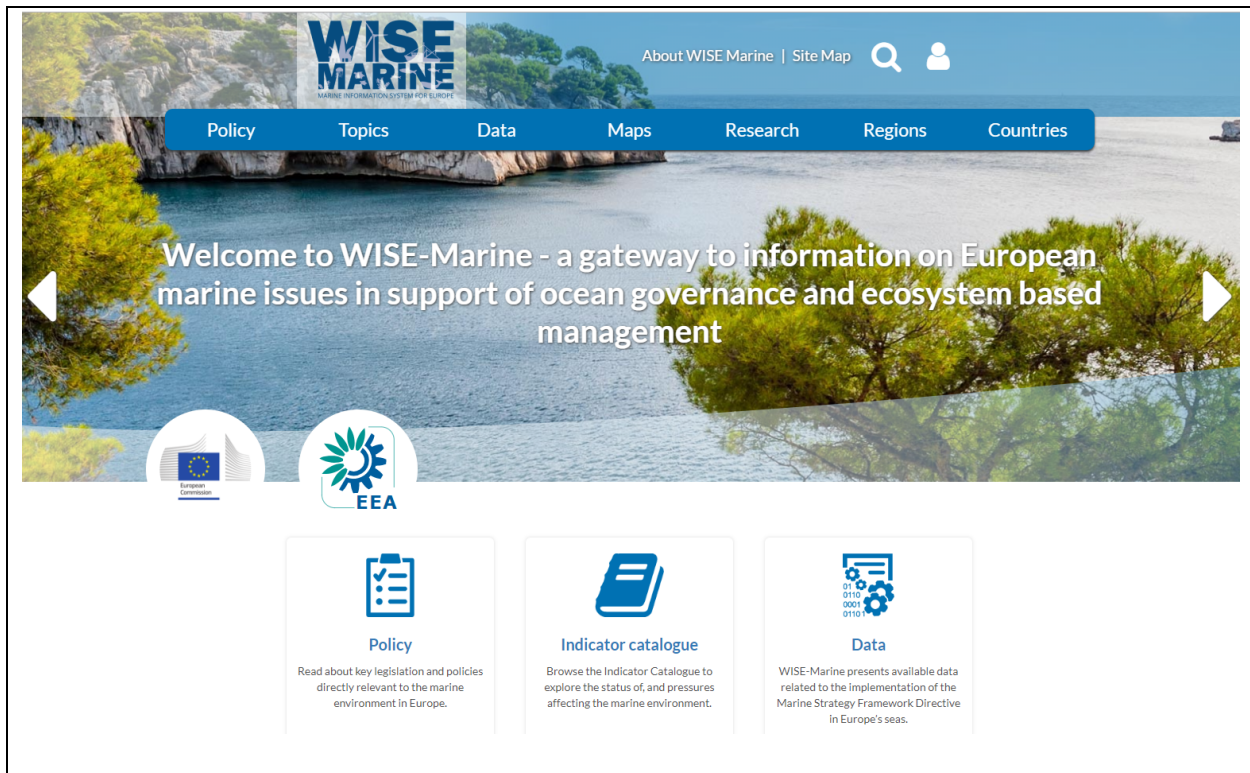
- <http://fate.jrc.ec.europa.eu>

Eurostat is collecting and disseminating water statistics, also as a part of WISE data and themes, and provides significant input in the development of the GIS part of WISE and in particular ensuring the link to INSPIRE.

For more information: <http://epp.eurostat.ec.europa.eu/>

News

- EEA, 04/07/2017: Better mix of measures including pricing and awareness campaigns key to improving sustainable water use
- DG ENV, 15/06/2017: New online oil spill risk tool provides local, specific information for coastal managers
- EEA, 23/05/2017: More European sites meet excellent bathing water quality standards than ever before
- DG ENV, 18/05/2017: Environmental DNA survey technique for deepwater fish can complement trawl surveys
- DG ENV, 04/05/2017: New light-based method for detecting and monitoring algal blooms
- EEA, 30/11/2016: Quality of Europe's water for people's use has improved, but challenges remain to keep it clean and healthy
- EEA, 25/10/2016: Restoring European rivers and lakes in cities improves quality of life
- EEA, 20/05/2016: Forty years of investments have improved Europe's bathing water

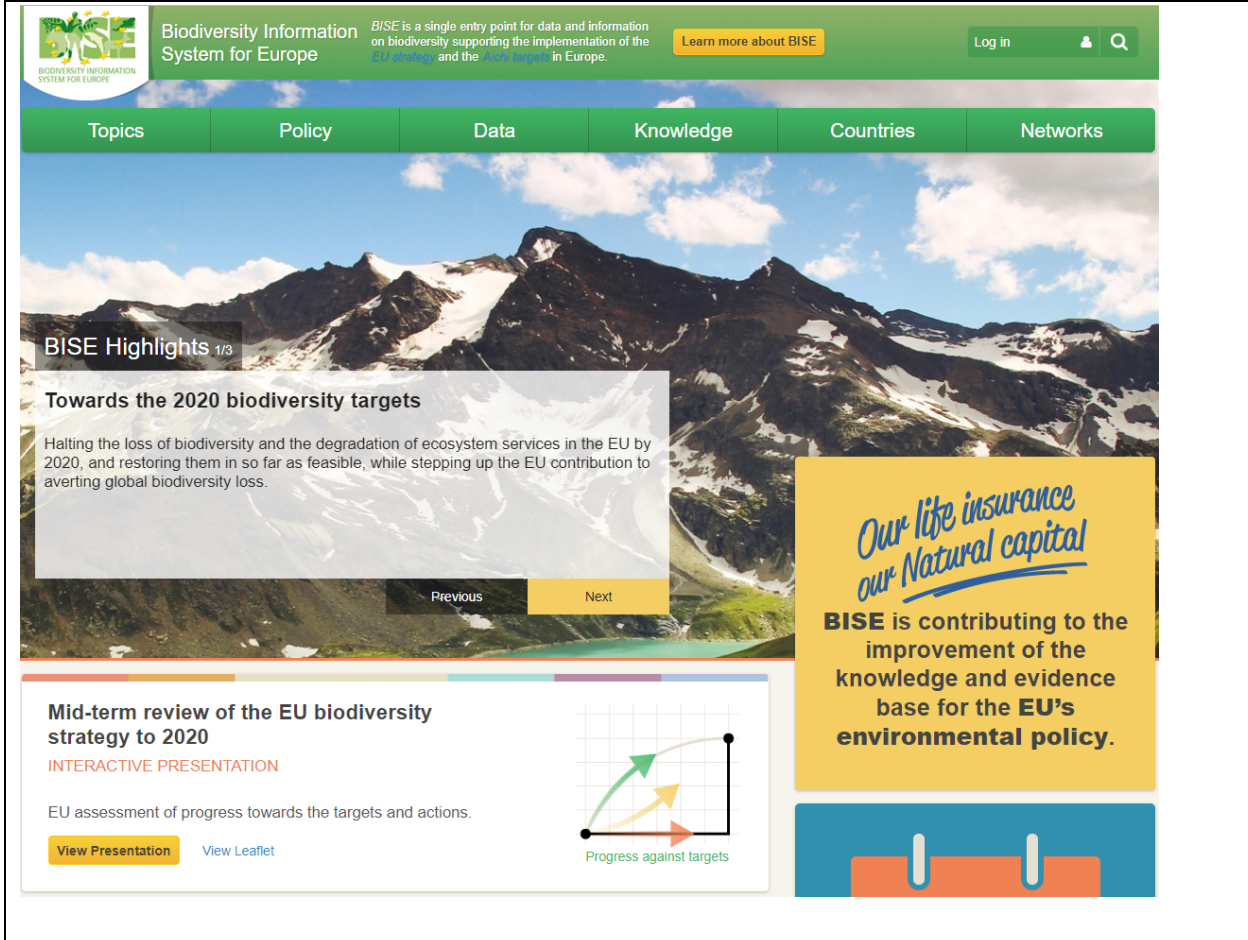


BISE – Biodiversity Information System for Europe

Data Platform name:	BISE – Biodiversity Information System for Europe	Territorial scope:	Europe
		Thematic scope:	Biodiversity
		Temporal scope:	Many, mainly 2000-2018
Logo:			
Description:	The Biodiversity Information System for Europe (BISE) is a single entry point for data and information on biodiversity supporting the implementation of the EU strategy and the Aichi targets in Europe. Bringing together facts and figures on biodiversity and ecosystem services, it links to related policies, environmental data centres, assessments and research findings from various sources. It is being developed to strengthen the knowledge base in support of the implementation of the EU biodiversity strategy and the assessment of progress in achieving the 2020 targets. BISE is a partnership between the European Commission, DG Environment – Directorate B and the European Environment Agency, supporting the knowledge base for the implementation of the EU 2020 Biodiversity Strategy. It also serves as the Clearing House Mechanism for the EU within the context of the United Nations Convention on Biological Diversity (CBD) and as such it is supported by the collaboration of the European CHM network and the CBD Secretariat. BISE is a collaborative IT tool, building on operating systems at European level. BISE provides information at the European level in relation to the EU 2020 Biodiversity targets as well as under five entry points: • Policy: policy, legislation and supporting activities related to the Common Implementation Framework of the EU strategy, pan- European and global policies • Topics: state of species, habitats, ecosystems, genetic diversity, threats to biodiversity, impacts of biodiversity loss, evaluation of policy responses • Data: data sources, statistics and maps related to land, water, soil, air, marine, agriculture, forestry, fisheries, tourism, energy, land use, transport • Research: important EU-wide research projects related to biodiversity and ecosystem services, improving the science-policy interface • Countries: links to information available from European countries and to the Biodiversity fact sheets for EU Member States • Networks: links to Europe- wide networks supporting information sharing across national borders.		
Responsible institution:	EC/EEA	Date of review:	25/08/18
Data Platform URL:	https://biodiversity.europa.eu/		
Related URL(s):	https://www.eea.europa.eu/data-and-maps		

Data Platform contents	
<i>Viewing possibilities</i> Tabular data / indicators ☒ Static charts ☒ Interactive charts ☒ Static maps ☒ Interactive maps ☒ Interactive maps & charts ☒ Web Map Services (WMS) ☒	<i>Download possibilities</i> Tabular data / indicators ☐ Map/chart images / screenshots ☐ Reports (PDF...) ☐ Spatial data (points) ☐ Spatial data (lines) ☐ Spatial data (polygons) ☐ Spatial data (raster, image) ☐ Web Feature Services (WFS) ☐
<i>Formats of data/spatial data/metadata (when available)</i> Format of tabular data: XLS, Access Format of spatial data: GDB, Shapefile Format of metadata: XML Other formats provided: PDF, EPS...	
Type of access:	Open
Data policy:	Free usage
Additional information:	Download not directly from this platform, but it links to other resources from the EC or mainly the EEA (e.g. Data and Maps platform)

Data Platform screenshot(s)



The screenshot displays the Biodiversity Information System for Europe (BISE) website. The header includes the BISE logo, the title "Biodiversity Information System for Europe", a description of BISE as a single entry point for data and information on biodiversity supporting the implementation of the EU strategy and the Aichi targets in Europe, a "Learn more about BISE" button, and a "Log in" button with a user icon and a search icon.

The main navigation bar features six tabs: Topics, Policy, Data, Knowledge, Countries, and Networks. The "Topics" tab is currently selected.

The main content area features a large background image of a snowy mountain range. Overlaid on this image is a "BISE Highlights 1/3" section titled "Towards the 2020 biodiversity targets". The text in this section reads: "Halting the loss of biodiversity and the degradation of ecosystem services in the EU by 2020, and restoring them in so far as feasible, while stepping up the EU contribution to averting global biodiversity loss." Below the text are "Previous" and "Next" buttons.

To the right of the highlights section is a yellow box with the text: "Our life insurance our Natural capital" in a stylized font, followed by "BISE is contributing to the improvement of the knowledge and evidence base for the EU's environmental policy."

Below the highlights section is a section titled "Mid-term review of the EU biodiversity strategy to 2020" with the subtitle "INTERACTIVE PRESENTATION". It includes the text "EU assessment of progress towards the targets and actions." and two buttons: "View Presentation" and "View Leaflet". To the right of this text is a line graph titled "Progress against targets" showing a green line with an upward arrow and a yellow line with a rightward arrow.



Biodiversity Information System for Europe

BISE is a single entry point for data and information on biodiversity supporting the implementation of the EU strategy and the Aichi targets in Europe.

[Learn more about BISE](#)

[Log in](#)



Topics
Policy
Data
Knowledge
Countries
Networks

Home → Data

Data

This section presents selected entry points to reference data. The focus of the selection is set on information infrastructures such as the **Biodiversity data centre (BDC)** managed by the European Commission and to related products for biodiversity indicators and data for professionals, researchers and the public.

- BDC - interactive data and map viewers
- BDC - data and maps
- BDC - indicators
- BDC - document library

Selected highlights from the BDC: [Natura 2000 viewer](#), [Natura 2000 data](#), [EUNIS \(search on species, habitats and sites\)](#)

Data and information useful for biodiversity indicator sets such as [SEBI](#), as well as for assessments of biodiversity and ecosystem services are also provided by the **other eight European environmental data centres**:

- [Air pollution](#) - [Climate change](#) - [Water](#) - [Land use](#) - [Soil](#) - [Forest](#) - [Natural resources](#) - [Waste](#)

The mission of the **Global Biodiversity Information Facility (GBIF)** is to facilitate free and open access to biodiversity data worldwide via the Internet to underpin sustainable development. Access to millions of data records shared via the GBIF network is facilitated via the

- [GBIF Data Portal](#)

Copernicus, previously known as GMES (Global Monitoring for Environment and Security), is the European Programme for the establishment of a European capacity for Earth Observation. So far the most relevant services in the context of BISE are:

- [Land monitoring](#) - [Climate change](#) - [Marine environment monitoring](#)

Biodiversity data centre (BDC)

- BDC overview
 - Natura 2000 map viewer
 - Natura 2000 data
- Species, habitats and sites (EUNIS)
- Indicators

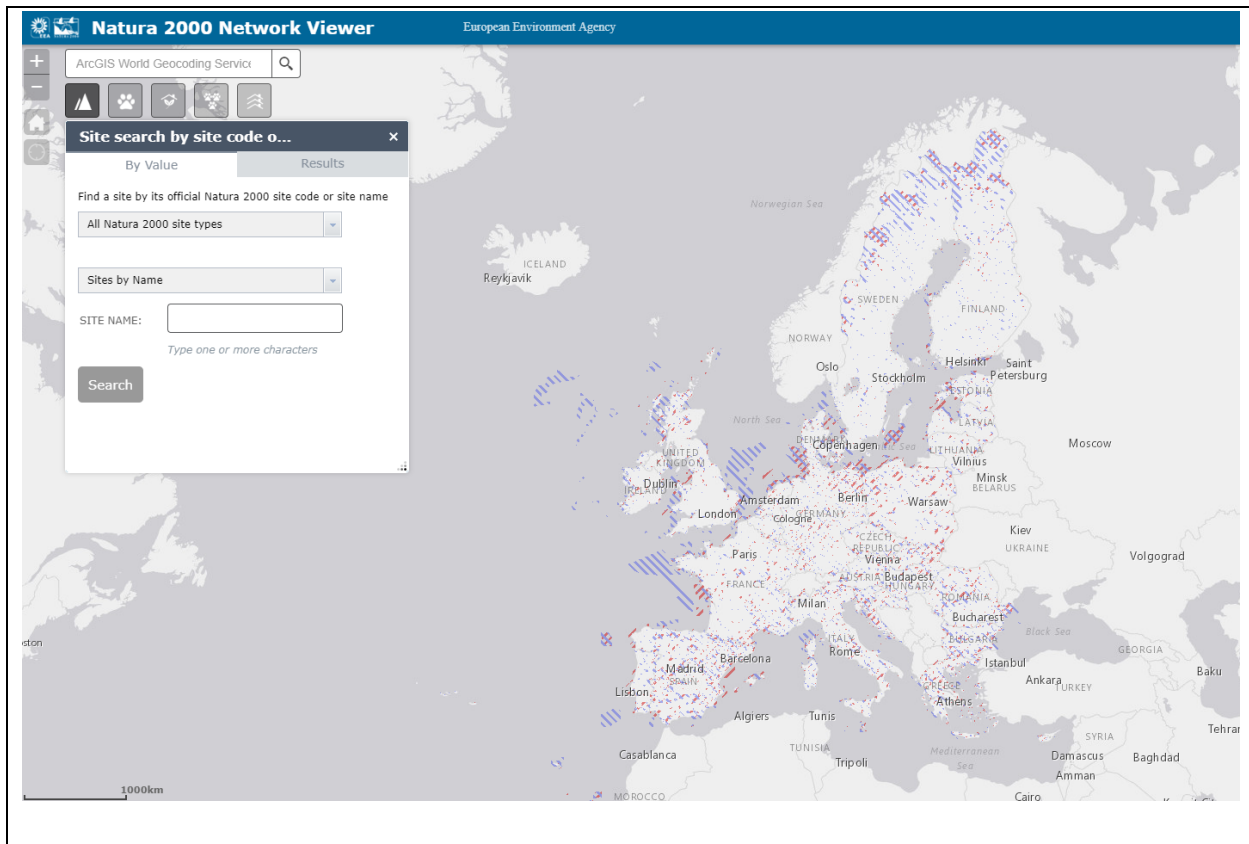
Other environmental data centres from EU

- Air
- Climate change
- Forest
- Land use
- Natural resources and products
- Soil
- Waste
- Water

[to the Biodiversity data centre](#)

[to the GBIF home page](#)

[to the Copernicus home page](#)



European Forest Information Portal

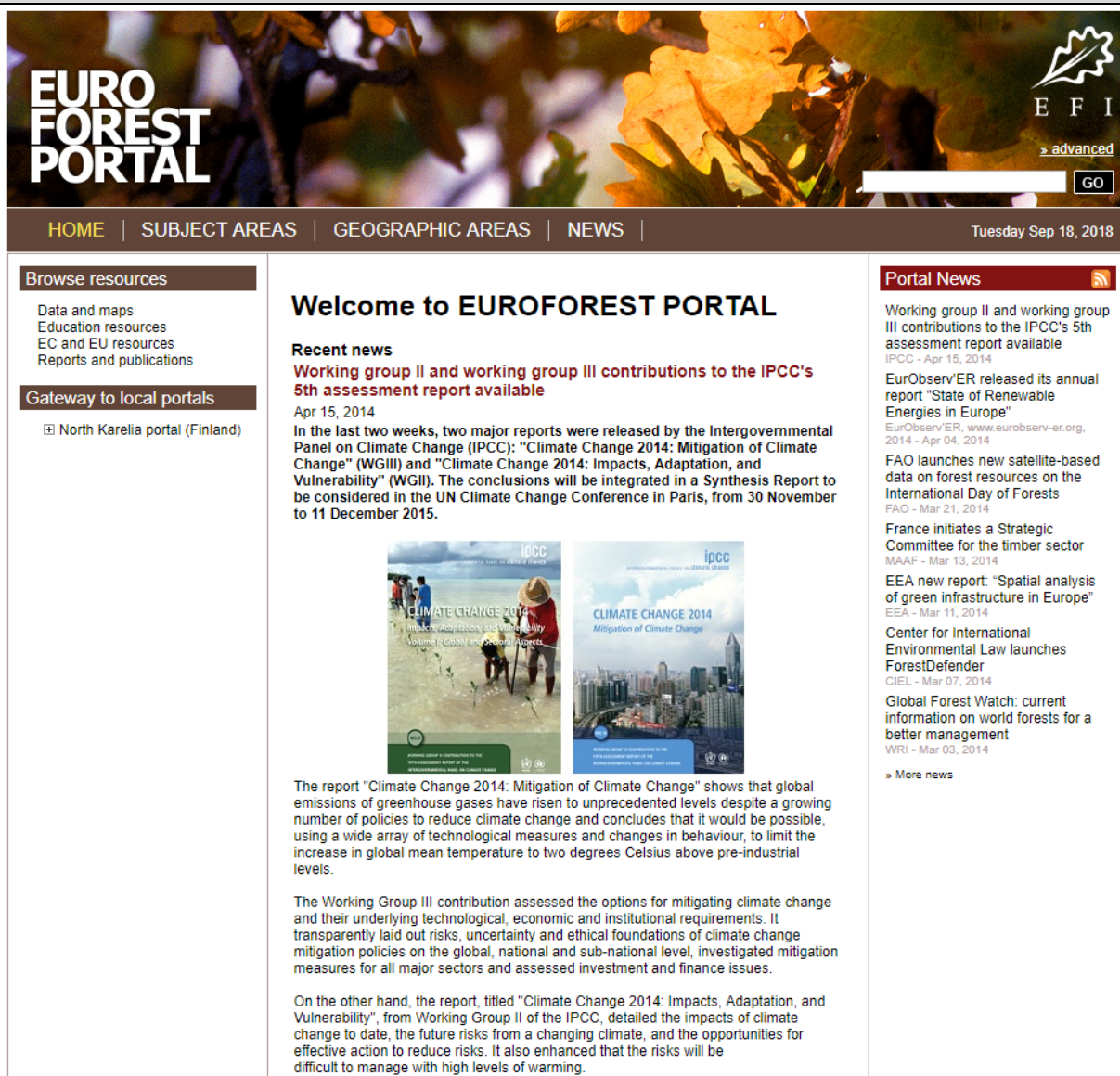
Data Platform name:	European Forest Information Portal	Territorial scope:	Mainly Europe, but also some global resources are available
		Thematic scope:	Forest
		Temporal scope:	
Logo:			
Description:	The European Forest Information Portal (EUROFOREST) is a free, non-commercial service providing information for forest information users. The portal aims to meet demands for better access to current information on European forests and forestry in an easily accessible and user-friendly form. It represents a web-based entry point into pan-European forest information in the selected topics. The service was launched on October 1st, 2007. The portal is the result of a project financed by the North Karelia Regional Council, the City of Joensuu and EFI. The portal service is maintained by EFI. Types of information • web pages (home pages of organisations/networks/journals/ etc. selected pages from elsewhere); • databases (bibliographic, non-bibliographic, images) available via web – freely available and paid access; • selected reports available via web / other major reports available; • news.		
Responsible institution:	European Forest Institute (EFI)	Date of review:	25/08/18
Data Platform URL:	http://forestportal.efi.int/		
Related URL(s):	https://www.efi.int/		
Data Platform contents			
<i>Viewing possibilities</i>		<i>Download possibilities</i>	
Tabular data / indicators ☐		Tabular data / indicators ☐	
Static charts ☐		Map/chart images / screenshots ☐	
Interactive charts ☐		Reports (PDF...) ☐	
Static maps ☐		Spatial data (points) ☐	
Interactive maps ☐		Spatial data (lines) ☐	
Interactive maps & charts ☐		Spatial data (polygons) ☐	
Web Map Services (WMS) ☐		Spatial data (raster, image) ☐	
		Web Feature Services (WFS) ☐	

Formats of data/spatial data/metadata (when available)

Format of tabular data:
 Format of spatial data:
 Format of metadata: XML
 Other formats provided:

Type of access:	Open
Data policy:	Free usage
Additional information:	It is not directly providing data or maps for downloads, but pointing out to several resources at European, national, local or global levels.

Data Platform screenshot(s)



The screenshot shows the EUROFOREST PORTAL website. The header features the 'EUROFOREST PORTAL' logo on the left and the 'EFI' logo on the right. Below the header is a navigation bar with links: HOME, SUBJECT AREAS, GEOGRAPHIC AREAS, NEWS. The main content area is divided into three columns. The left column contains 'Browse resources' (Data and maps, Education resources, EC and EU resources, Reports and publications) and 'Gateway to local portals' (North Karelia portal (Finland)). The middle column is titled 'Welcome to EUROFOREST PORTAL' and features 'Recent news' about the IPCC's 5th assessment report, dated April 15, 2014. It includes two images of IPCC report covers: 'CLIMATE CHANGE 2014: Impacts, Adaptation, and Vulnerability' and 'CLIMATE CHANGE 2014: Mitigation of Climate Change'. The right column is titled 'Portal News' and lists several news items, including 'Working group II and working group III contributions to the IPCC's 5th assessment report available', 'EurObserv'ER released its annual report', 'FAO launches new satellite-based data on forest resources', 'France initiates a Strategic Committee for the timber sector', 'EEA new report: "Spatial analysis of green infrastructure in Europe"', 'Center for International Environmental Law launches ForestDefender', and 'Global Forest Watch: current information on world forests for a better management'. A 'More news' link is at the bottom of the right column.




[HOME](#) | [SUBJECT AREAS](#) | [GEOGRAPHIC AREAS](#) | [NEWS](#)
Tue 18.09.2018

Browse resources

- Data and maps
- Education resources
- EC and EU resources
- Reports and publications

Data and maps



Katja Tröltzsch, 2006

The information resources have been classified according to their type. Here you can find information resources of the following types:

- Country data,
- Datasets and Databases,
- Images and Moving images,
- Maps,
- Statistics,
- Species data.

For more specific search, browse metadata using Subject areas, Geographic areas, or use the Advanced search tool.

290 records found in EUROFOREST Portal

1. [1 Kilometer Tree Cover Continuous Fields](#)
2. [A Biológiai Sokféleség Egvezmény és a Biológiai Biztonság honlapja](#)
 - Biodiversity Clearing-House Mechanism and Biosafety Clearing-House [Hungary]
3. [AFOLU DATA](#)
4. [Agreste - la Statistique Agricole](#)
5. [Annual Review and Assessment of the World Timber Situation](#)
 - Examen annuel et évaluation de la situation mondiale des bois; Examen annuel et évaluation de la situation mondiale des bois
6. [ARKive - Images of life on Earth](#)
7. [Artsdatabanken](#)
 - Norwegian Biodiversity Information Centre
8. [Assocarta](#)
 - Italian Pulp and Paper Industry
9. [Austropapier](#)
 - Austrian Paper Industry
10. [Basogintza Euskadin](#)
 - Basque Forest Sector; Sector forestal en Euskadi
11. [Belgian Biodiversity Platform](#)
12. [Belgische Soortenlijst](#)
 - Belgian Species List; Espèces de Belgique
13. [Beschermde natuur in Nederland](#)
 - Protected Nature in the Netherlands
14. [BGflora.net - Българияската флора онлайн](#)
 - BGflora.net - Bulgarian flora online
15. [BioDat](#)

CDP – Disclosure Insight Action (former Carbon Disclosure Project)

ddd

Data Platform name:	CDP – Disclosure Insight Action (former Carbon Disclosure Project)	Territorial scope:	Global
		Thematic scope:	Environment in general, quite focused in climate change, mitigation, adaptation, climate hazards, renewable energy or water, amongst others.
		Temporal scope:	Up to 2017
Logo:			
Short description:	CDP is an international organisation, with regional offices and local partners spanning 50 countries. There are now companies, cities, states and regions from over 90 countries that disclose through CDP. CDP, formerly the Carbon Disclosure Project, runs the global disclosure system that enables companies, cities, states and regions to measure and manage their environmental impacts. They claim to have built the most comprehensive collection of self-reported environmental data in the world.		
Responsible institution:	CDP	Date of review:	16/10/2018
Data Platform URL:	https://www.cdp.net/		
Related URL(s):	https://data.cdp.net/		
Data Platform contents			
<i>Viewing possibilities</i>		<i>Download possibilities</i>	
Tabular data / indicators	☒	Tabular data / indicators	☒
Static charts	☐	Map/chart images / screenshots	☒
Interactive charts	☒	Reports (PDF...)	☐
Static maps	☐	Spatial data (points)	☐
Interactive maps	☒	Spatial data (lines)	☐
Interactive maps&charts	☒	Spatial data (polygons)	☐
Web Map Services (WMS)	☐	Spatial data (raster, image)	☐
		Web Feature Services (WFS)	☐

Formats of data/spatial data/metadata (when available)

Format of tabular data: CSV, JSON, RDF, RSS, TSV, XML

Format of spatial data: PNG (image)

Format of metadata: XML

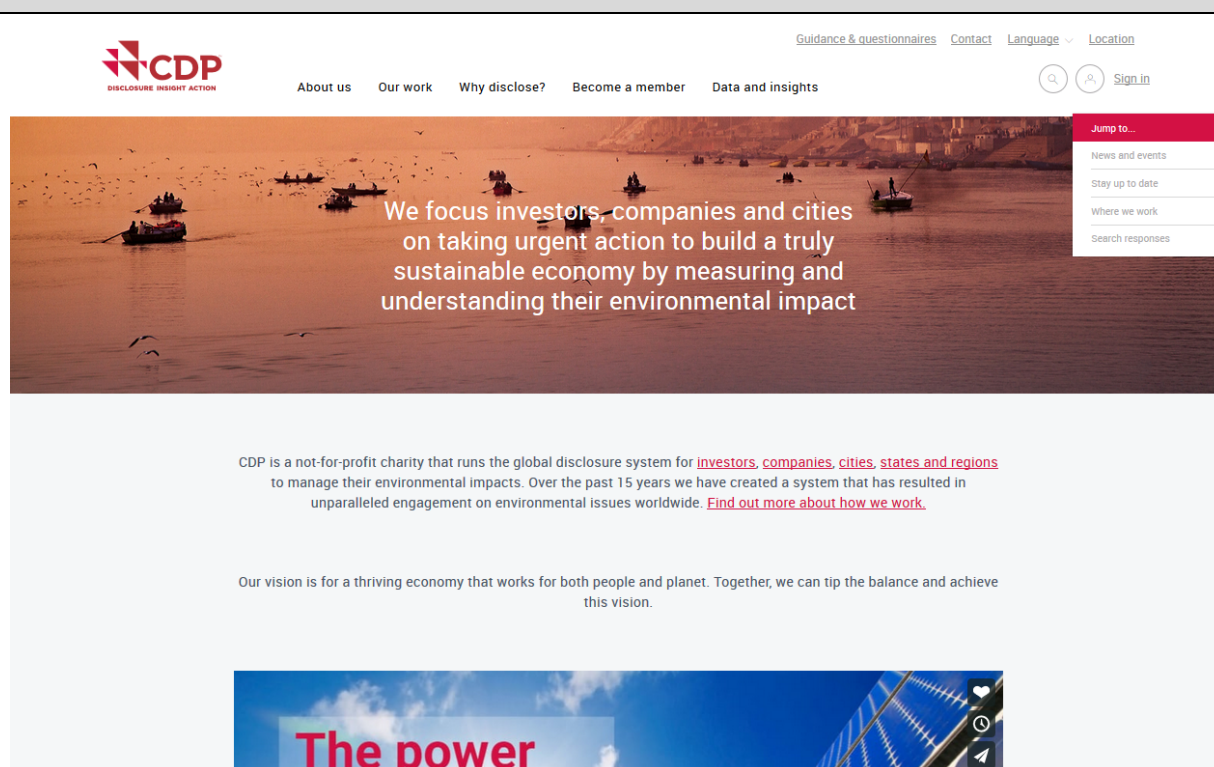
Other formats provided:

Type of access:	Open
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Data policy:	Free usage
--------------	------------

Additional information:	It collects and organises data provided by cities and regions around the world, regarding environmental impacts and responses.
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Data Platform screenshot(s)



[Explore](#)
[Browse Data](#)
[Showcase](#)
[Terms of Use](#)
[Disclose](#)
[CDP Cities](#)

[Sign In](#)

Explore CDP cities and regions data

Search hundreds of data sets on local action towards a global sustainable economy

Emissions

Find all datasets on greenhouse gas emissions

Renewable Energy

Find all datasets on low or zero-carbon energy

Mitigation Actions

Find all datasets on subnational climate change mitigation

Climate Hazards

Find all datasets on subnational climate risks

Opportunities

Find all datasets on economic opportunities of climate change

Governance

Find all datasets on subnational governance

Water

Find all datasets on water management and water security

Adaptation Actions

Find all datasets on subnational climate change adaptation

InFocus: Five cities driving climate action

While cities are responsible for some 70% of energy-related carbon emissions, they are also home to extraordinary innovation, are financial hubs and incubators for entrepreneurial spirit.

Why should cities, states and regions disclose through CDP?

Cities, states and regions have a vital role to play and by setting ambitious targets to reduce greenhouse gas emissions and fostering innovation, they are rapidly becoming hubs driving the transition to a sustainable economy.

How environmental disclosure fuels greater ambition

CDP started, in 2000 with a simple, yet undeniable idea: transparency is the foundation for environmental action.

Cities are harnessing the power of renewable energy: here's how

Cities are key to a low-carbon future. And pioneers across the world are already demonstrating that the transition is possible.

[Explore](#)
[Browse Data](#)
[Showcase](#)
[Terms of Use](#)
[Disclose](#)
[CDP Cities](#)

[Sign In](#)

Cities in Action, Map

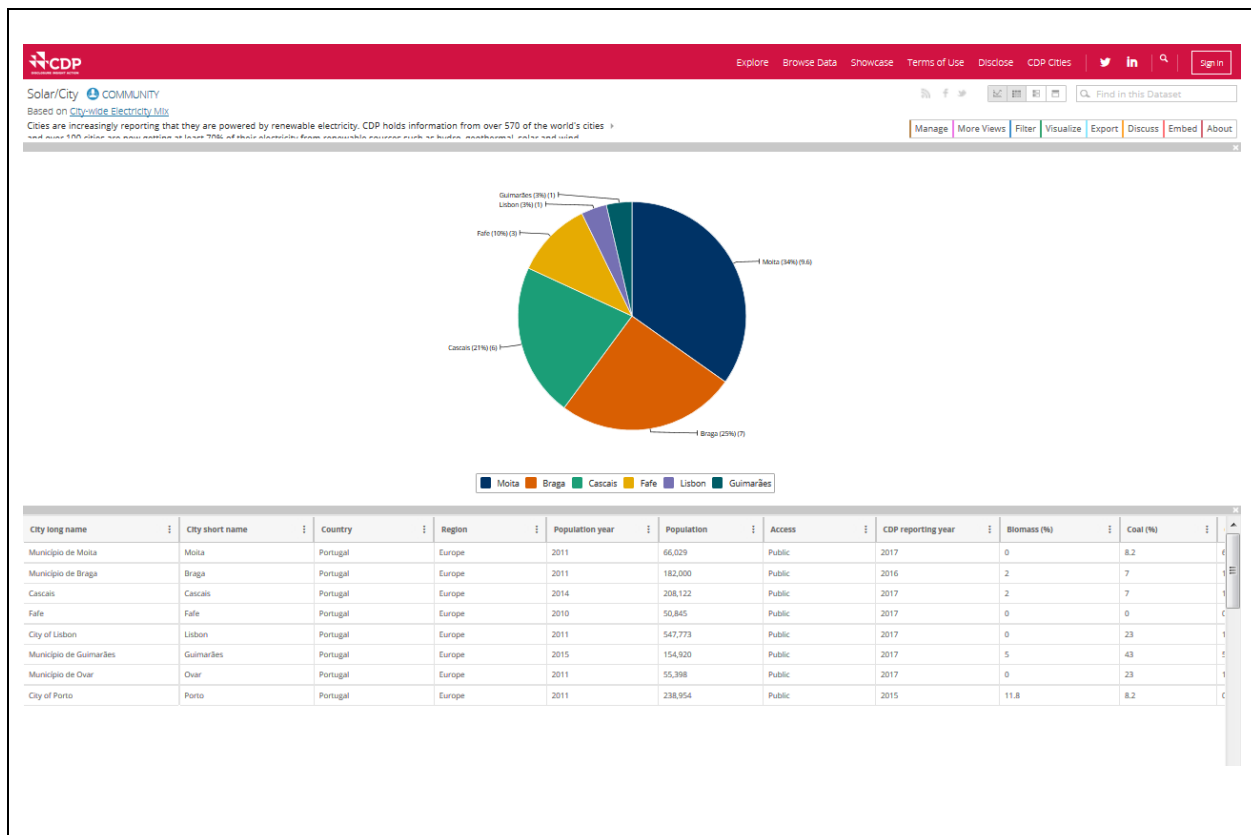
Based on [Cities in Action](#)

Cities around the world are taking action on climate change, improving water stewardship and creating better

Map data not yet available

Map data not yet available

City	State/Region	Country	Region	Headline	Link	City Location	Country Location
London	England	United Kingdom	Europe	A global financial hub, the Grea...	https://www.cdp.net/en/...	(51.504858°, -0.078689°)	(55.378051°, -3.435973°)
Singapore		Singapore	Asia Pacific	Extremely vulnerable to climat...	https://www.cdp.net/en/...	(1.352083°, 103.819836°)	(1.352083°, 103.819836°)
Brasilia	Federal District	Brazil	Latin America	A relatively young city, Brazil's c...	https://www.cdp.net/en/...	(-15.794229°, -47.882166°)	(-14.235004°, -51.92528°)
Cape Town	Western Cape	South Africa	Africa	Faced with three years of serio...	https://www.cdp.net/en/...	(-33.9253°, 18.4239°)	(-30.559482°, 22.937506°)
Adelaide	South Australia	Australia	Asia Pacific	In the face of growing climate c...	https://www.cdp.net/en/...	(-34.928499°, 138.600746°)	(-25.274398°, 133.775136°)
California		USA		In the aftermath of record-brea...	https://www.cdp.net/en/...	(37.7749295°, -122.4194155°)	(37.09024°, -95.712891°)
Chennai	Tamil Nadu	India	Asia Pacific	With the 2015 floods still in the ...	https://www.cdp.net/en/...	(13.099202°, 80.242513°)	(20.5937°, 78.9629°)
Mississippi River		USA	North America	America's largest navigable wat...	https://www.cdp.net/en/...	(36.102375°, -89.978022°)	(37.09024°, -95.712891°)
Rio de Janeiro	State of Rio de Janeiro	Brazil	Latin America	Faced with storm surges and in...	https://www.cdp.net/en/...	(-22.9054389°, -43.5614471°)	(-14.235004°, -51.92528°)
Chicago	Illinois	USA	North America	Reducing carbon emissions has...	https://www.cdp.net/en/...	(41.8781136°, -87.6297982°)	(37.09024°, -95.712891°)



Conclusions and outlook

This inventory has become a heterogeneous and widely comprehensive, but not exhaustive catalogue of data platforms that facilitate access to the visualisation and/or download of data, including tabular data, indicators, spatial data, maps, etc., regarding a range of environmental and/or socio-economic topics potentially relevant for the assessment of the effects of NBS implementation in cities.

A range of different data hubs have been described, and it can safely be assumed that many if not all of them will enhance the database used within the CLEVER Cities project to varying degrees. Likewise, it is obvious for all of them that only a sub-set of the data provided will be of relevance to the CALs and to cities in general.

The variety of available EU data enables a broad range of potential applications to view the impacts of NBS from various angles. This will be investigated in-depth during the course of the project, in that each of the databases will be practically explored by the LMTs. They will test to which degree it is fit for purpose – particularly with respect to its potential to support the measurement of indicators dedicated to assess the performance of the NBS implemented in the CALs within and beyond the time-frame of the project. Thereby, emphasis will be placed on the opportunities arising to perform comparisons between the participating cities.

In a future version of this document, specific fields could be added to the template which document the outcomes of this testing. Thereby, the value of the document for cities outside the project would be enhanced because they can then directly take advantage of the experiences made by those cities which used the databases in the framework of CLEVER Cities.