



# ECDL-GIS

# ECDL-GIS

## NEWSLETTER

# dodici



SITO



MAIL



MAPPA (© OpenStreetMap contributors)



## NEWSLETTER ECDL-GIS

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## NEWSLETTER

La **Newsletter non potrebbe vivere senza il contributo e l'entusiasmo di Tutti** coloro i quali, per un motivo o per l'altro, confrontandosi con tematiche complesse, contribuiscono - direttamente o indirettamente - a generare soluzioni.

Il nostro obiettivo è condividere, per quanto possibile, questi "flussi di informazioni".

**Buona lettura!**

### Esami ECDL-GIS - Prossime sessioni

- Venerdì 24 febbraio 2017
- Venerdì 7 luglio 2017
- Venerdì 22 settembre 2017
- Venerdì 24 novembre 2017

Altre date possono essere concordate (minimo 5 iscritti). Per informazioni si prega di visitare la URL: [www.ecdlgis.polito.it](http://www.ecdlgis.polito.it) o inviare una E-mail a [ecdlgis@polito.it](mailto:ecdlgis@polito.it)

### EVENTI DI INTERESSE

# FOSS4G-IT 2017

## XVIII GRASS MEETING - X GFOSS DAY GENOVA 8 - 11 FEBBRAIO 2017

### FOSS4G-IT 2017 - XVIII GRASS meeting - X GFOSS Day

Il prossimo convegno italiano su Software e Dati Geografici Free e Open Source "**FOSS4G-IT 2017**" si terrà a **Genova** da mercoledì **8** a sabato **11 febbraio 2017**. Per il primo anno tale convegno raccoglie insieme il "**XVIII Meeting** degli utenti italiani di **GRASS** e **GFOSS**", il "**X GFOSS DAY**".



## USEFUL RESOURCES



### Natural capital project

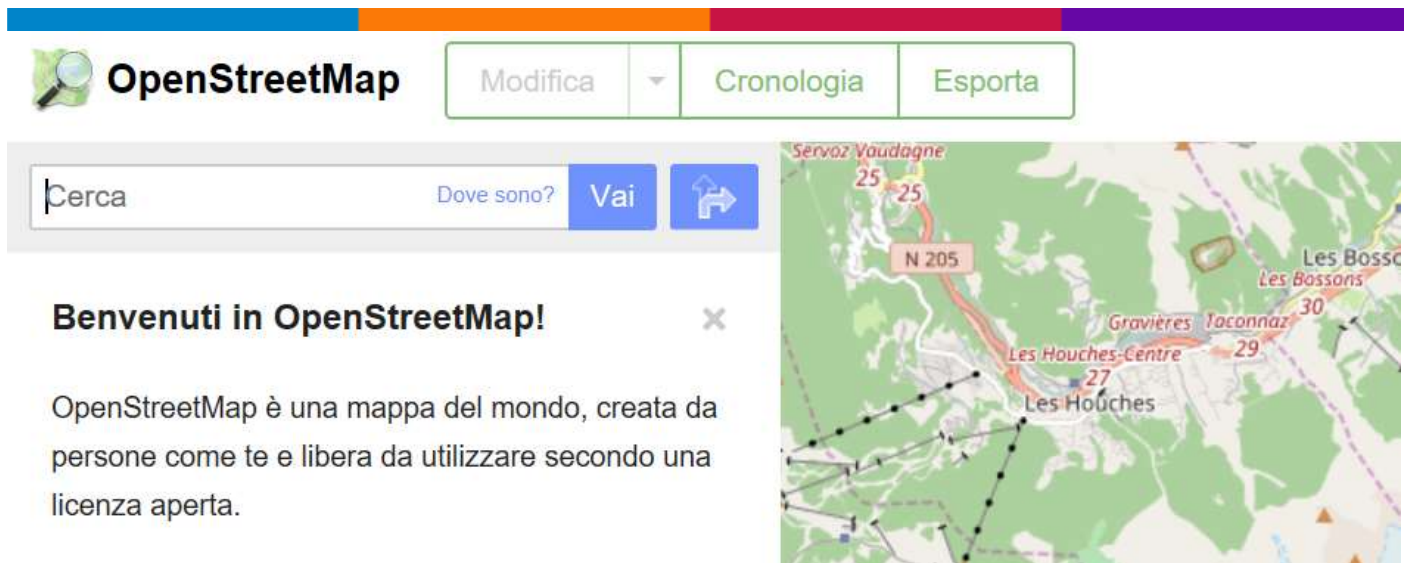
At The Natural Capital Project we're developing practical tools and approaches to account for nature's contributions to society, so that leaders of countries, companies, communities, and organizations worldwide can make smarter decisions for a more sustainable future.

[InVEST](#) is a suite of free, open-source software models used to map and value the goods and services from nature that sustain and fulfill human life. If properly managed, ecosystems yield a flow of services that are vital to humanity, including the production of goods (e.g., food), life-support processes (e.g., water purification), and life-fulfilling conditions (e.g., beauty, opportunities for recreation), and the conservation of options (e.g., genetic diversity for future use). Despite its importance, this natural capital is poorly understood, scarcely monitored, and, in many cases, undergoing rapid degradation and depletion.

[PyGeoProcessing](#) is a programmable, open source, and free GIS processing library. We built it to support our InVEST ecosystem service software, but it can be used for applications unrelated to ecosystem services. This is a tool for developers, built with their needs and data in mind.

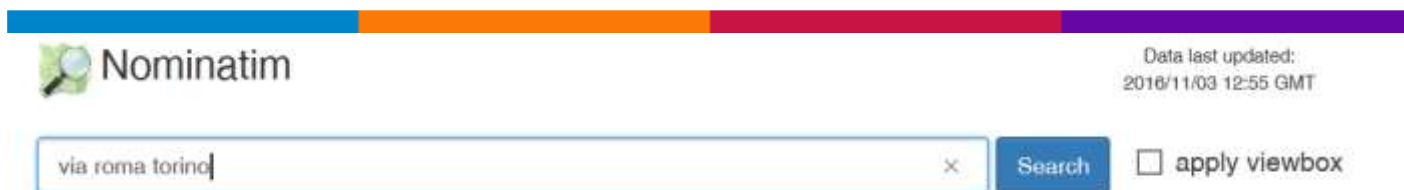
[RIOS](#) supports the design of cost-effective investments in watershed services. The Resource Investment Optimization System (RIOS) provides a standardized, science-based approach to watershed management in contexts throughout the world. It combines biophysical, social, and economic data to help users identify the best locations for protection and restoration activities to maximize the ecological return on investment, within the bounds of what is socially and politically feasible.

[OPAL](#) is a tool for quantifying the impacts of development and the value of potential protection or restoration activities to biodiversity and ecosystem services.



### OPENSTREETMAP

**OpenStreetMap** è una mappa del mondo, creata da persone come te e libera da utilizzare secondo una licenza aperta.



### Nominatim

Nominatim is a search engine for [OpenStreetMap](#) data. This is the debugging interface. You may search for a name or address(forward search) or look up data by its geographic coordinate(reverse search). Each result comes with a link to a details page where you can inspect what data about the object is saved in the database and investigate how the address of the object has been computed.



### 123 map – osmocoder

## Der Geocoder auf OpenStreetMap-Basis - Adressen verorten mit freien Daten

*(geocodifica solo indirizzi tedeschi)*

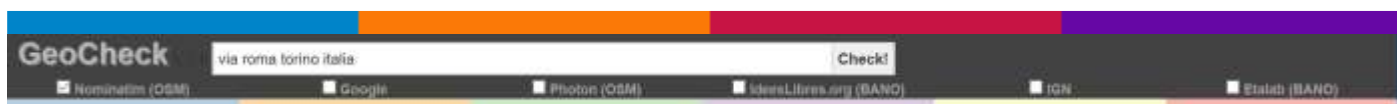


### OSM Names

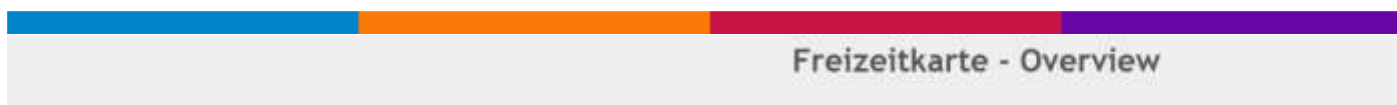
OSMNames project offers downloadable list of place names derived from OpenStreetMap database with a easy installation, clear licensing and clear code.

[Here](#) you can download the pre-generated data with over 21 million place names for the whole planet. Feel free to use it in your next project, your website, company product or just for your private research.

The file is available under the [Open Database License](#), the same license as the original [OpenStreetMap](#) data.



### GeoCheck



### Freizeitkarte – Overview

Maps of the Freizeitkarte project are intended for users of the **Garmin BaseCamp** (Mac, Win) application, **QLandkarte** (Mac, Win, \*ix) application and owners of **Garmin devices**.



# photon

search as you type with OpenStreetMap

## Photon – search as you type with OpenStreetMap



## OpenStreetMap Data Extracts

Welcome to Geofabrik's free download server. This server has data extracts from the [OpenStreetMap project](#) which are normally updated every day. Select your continent and then your country of interest from the list below. (If you have been directed to this page from elsewhere and are not familiar with OpenStreetMap, we highly recommend that you read up on OSM before you use the data.) This download service is offered for free by Geofabrik GmbH.



## fIOSM – POI

**POI map** (food, sport, stops, power plant...) and **Theme MAP** (public transport, routes, power grid...) from OpenStreetMap



## OpenStreetMap POI (extract data by queries)

/\*  
This is an example Overpass query.



Try it out by pressing the Run button above!  
You can find more examples with the Load tool.

```
*/
node
[amenity=drinking_water]
({{bbox}});
out;
```

If You are searching for, for example, the “universities”, change the area of interest (zoom and pan over the map) and replace **[amenity=drinking\_water]** with **[amenity=university]**

For a complete list of the OSM Features please see “[WIKI Map Features](#)”



## OpenStreetMap POI Export (Points of Interest)

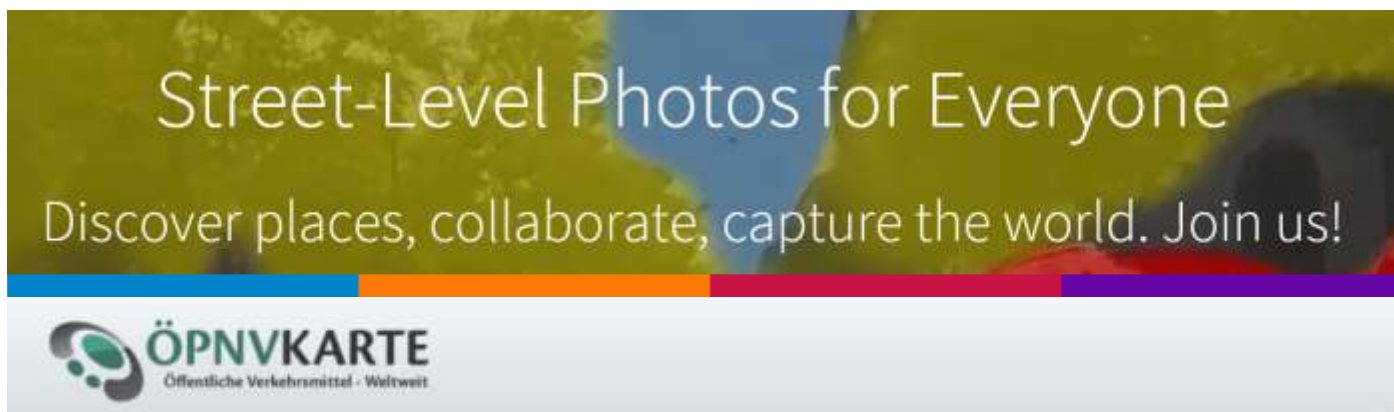
### OpenStreetMap POI Export (Points of Interest)

POI export (choose the country and the POI of interest) and go



### Mapillary – Street Level Photos for Everyone

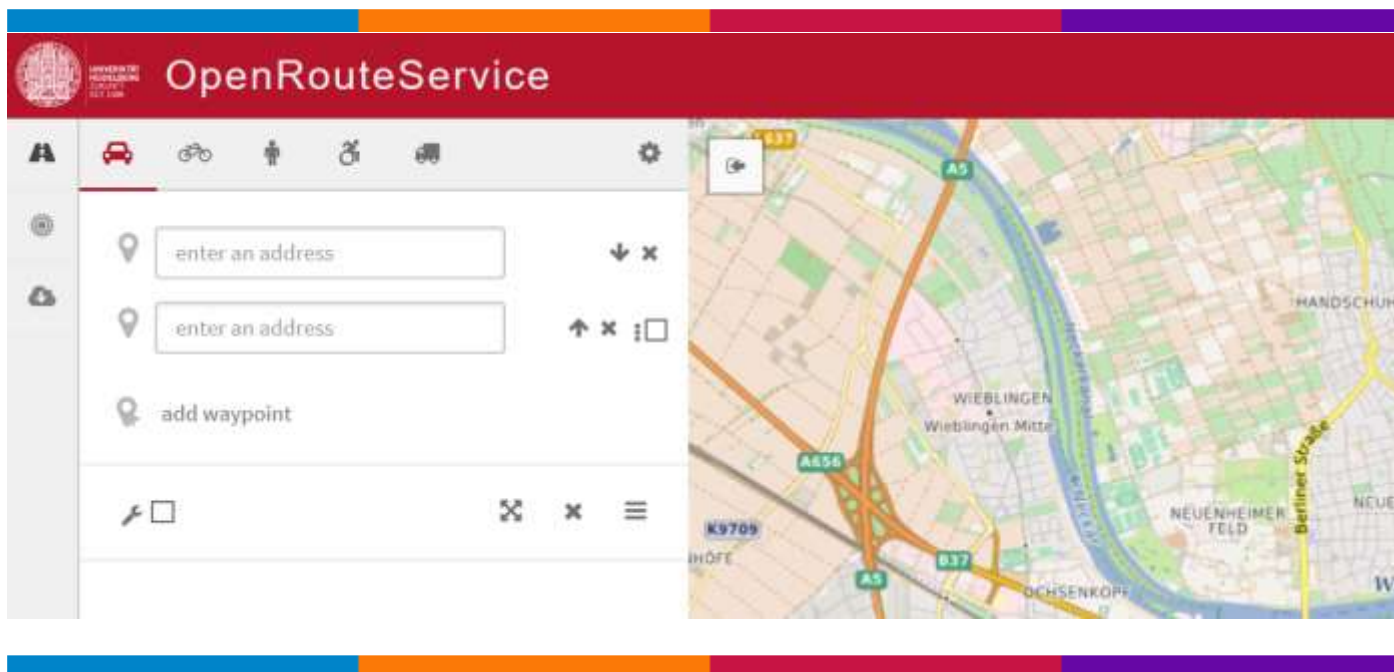
Discover places, collaborate, capture the world



## ÖPNVKarte - Worldwide public transport facilities

ÖPNVKarte display worldwide public transport facilities on a uniform map, so that you can forget about browsing individual operators websites.

The map is implemented with [Openstreetmap](#) data, which leads to the ability to complete and correct the map on your own. If you are new to Openstreetmap you can find a beginners guide about adding data to the map [here](#), afterwards the Openstreetmap-Wiki has also information on adding [public transports](#) in general and specifically about [this map](#).



## OpenRouteService – Calcolo percorsi

OpenRouteService.org as offers Routing services by using user-generated, collaboratively collected free geographic data from [OpenStreetMap.org](#) - Please donate your geographic data to [openstreetmap.org](#)!

The service is based on open standards by the Open Geospatial Consortium (OGC). Currently the following services have been implemented within the frame of OpenRouteService.org, which allow

you to include maps, geocoding, directories and other content in your web pages or applications. By accessing, requesting and using OpenRouteService (ORS) and the provided API, you are agreeing to our terms of use.



### OSRM – Calcolo percorsi



### Speed (Km/h)



### Hike bike map

A map for hiking and biking. Render style by Colin Marquardt. ([Description](#))  
Hosting courtesy [WikiMedia Foundation Labs](#).

**OpenCycleMap.org - the [OpenStreetMap](#) Cycle Map**


### OpenCycleMap






## Wheelmap – Find wheelchair accessible places

**Wheelmap** is a map for finding wheelchair accessible places. The map works similar to Wikipedia: anyone can contribute and mark public places around the world according to their wheelchair accessibility. The criteria for marking places is based on a simple traffic light system:

 = Green = Fully wheelchair accessible

 = Yellow = Partly wheelchair accessible

 = Red = Not wheelchair accessible



## HistOSM

HistOSM is a WebGIS application to visually explore historic objects stored in the OpenStreetMap database. Your visual exploration process is supported by dynamically created statistics showing the top most used object categories in the current map view extent. The diagram itself can be used to filter the objects on the map to a specific value by clicking on a category.



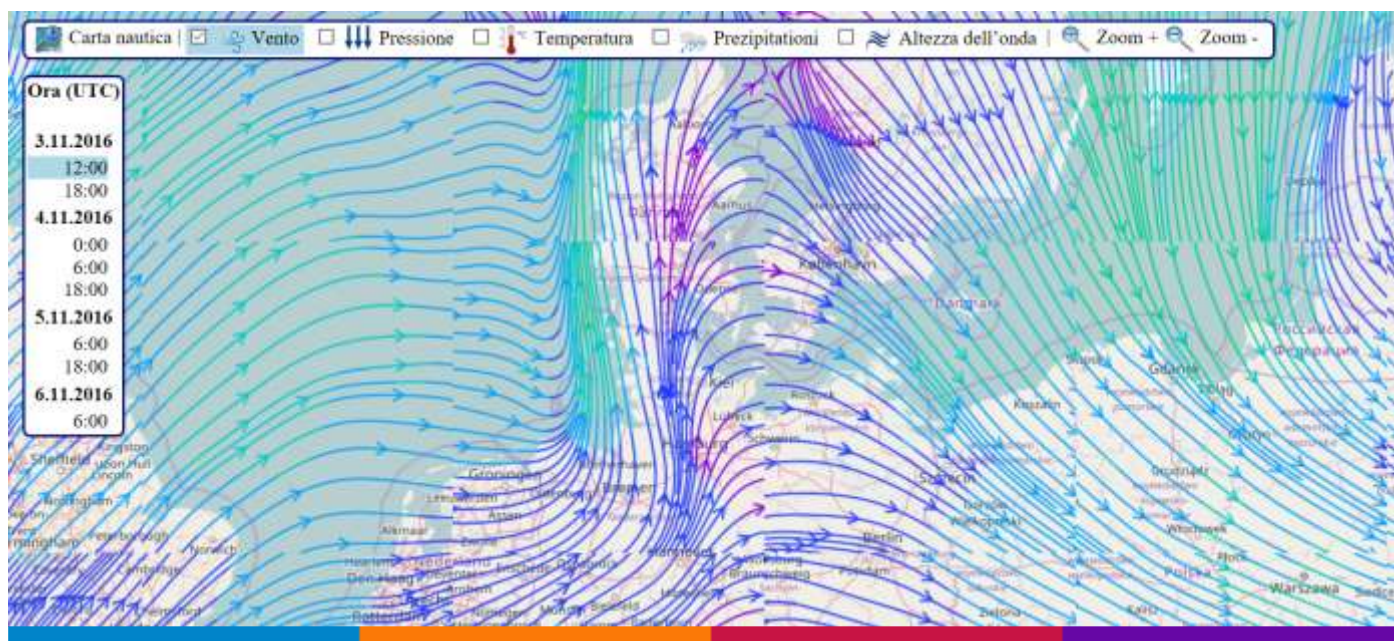
MapOSMatic è un servizio web basato su software libero che ti permette di generare mappe cittadine usando i dati di OpenStreetMap. Le mappe generate sono disponibili nei formati PNG, PDF e SVG e pronte per essere stampate.

Dal momento che i dati per generare le mappe vengono da OpenStreetMap, potete liberamente riutilizzare, vendere o modificare le mappe generate, secondo i termini della licenza OpenStreetMap.



## OpenSeaMap - die freie Seekarte

### OpenSeaMap



### Mappa delle misure di BuioMetria Partecipativa (BMP)

Mappa delle misure di BuioMetria Partecipativa (BMP)

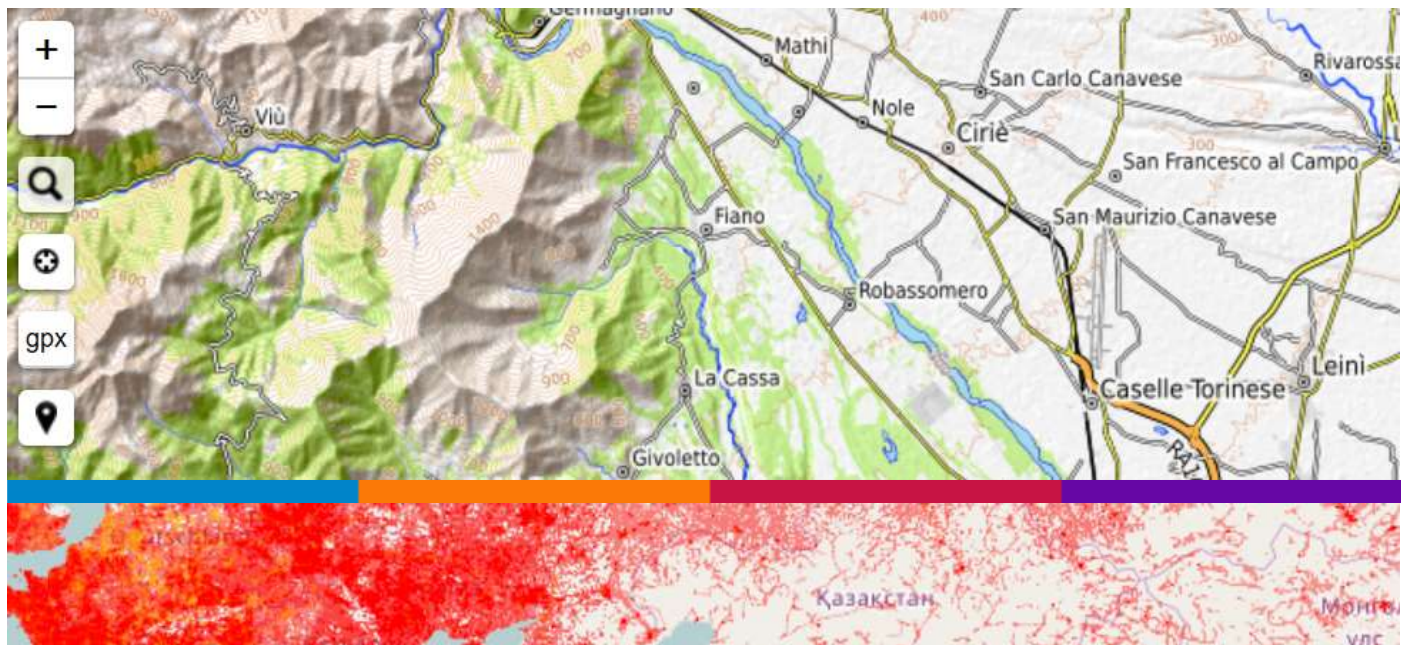


## OpenTopoMap

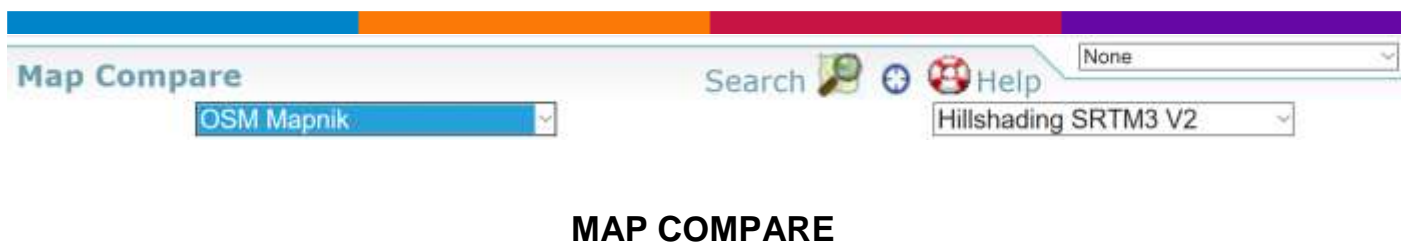
Topographische Karten aus OpenStreetMap

## Topographische Karten aus OpenStreetMap

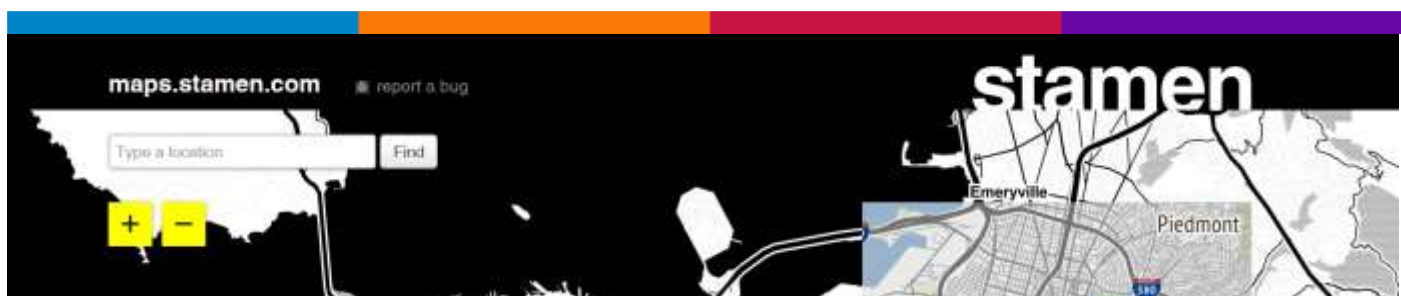
OpenTopoMap ist eine freie, topografische Karte, die aus den Daten der [OpenStreetMap](#) und [SRTM-Höhendaten](#) generiert wird. Der Kartenstil orientiert sich an den amtlichen Karten und setzt auf gute Lesbarkeit durch hohen Kontrast und ausgewogene Signaturen.



## QA Tool – OSM noaddress, noname layer



## MAP COMPARE



## STAMEN



For over a decade, Stamen has been exploring [cartography](#) with our clients and in research. These maps are presented here for your enjoyment and use wherever you display [OpenStreetMap](#) data.

## OpenRailwayMap

### OpenRailwayMap

## OpenStreetMapData

Download OpenStreetMap-derived data



### OpenStreetMapData

The [OpenStreetMap project](#) collects an amazing amount of geodata and makes it available to the world for free. But the raw OpenStreetMap data is hard to use. On this web site you'll find some of that data pre-processed and formatted for easier use.

Pre-processing includes removing or fixing of wrong data and assembling of different parts of the data into a usable whole. The data is formatted into [Shapefiles](#) for easy use in the usual GIS applications.

#### Coastline data processings

The most popular data sets of [openstreetmapdata.com](#) - used by most OpenStreetMap based maps in some form

#### Generalized OpenStreetMap data

Special processings of OpenStreetMap geometries for better readable maps at coarse scales

#### Other datasets

Browse the full list of available data sets on [openstreetmapdata.com](#)



2.18.0

2.14.8 (LTR)

## QGIS Documentation

# QGIS User Guide

Release 2.14

QGIS User Guide Release 2.14

# QGIS Training Manual

QGIS Training Manual Release 2.14



SkyHelios

## SkyHelios

**SkyHelios** is a new tool for applied climatology calculating continuous sky view factor and sunshine duration in high spatial and temporal resolution by using the graphic processor. The storage and export of calculated data is main feature.

## Storytelling Author Mapillary BAsed (SAMBA)

### Storytelling Author MAPillary BAsed (SAMBA)

- **Search** for a city / address
- If you want a route by car, select the route mode **Vehicle** option
- If you want a route by foot, select the route mode **Foot** option
- If you want a route by bike, select the route mode **Bike** option
- (...)



## CESARE GERBINO GIS BLOG

Chi riceve un'idea da me ricava conoscenza senza diminuire la mia: così come colui che accende il suo cero dal mio riceve luce, senza lasciarmi al buio. Thomas Jefferson

### Cesare Gerbino GIS BLOG

## All Around GIS

GIS world, maps, tools and cartographic techniques

### All Around GIS [ BLOG ]

GIS world, maps, tools and cartographic techniques.

### ***DATI GIS – Piemonte - Novità ed aggiornamenti sui “GIS data”***

#### **Regione Piemonte - Geoportale**

REGIONE PIEMONTE - Catalogo dei Dati Territoriali – [Specifiche di Contenuto per i DB Geotopografici](#)

[BDTRE](#) - DATABASE GEOTOPOGRAFICO - 2016 – Vettoriale

#### **Regione Piemonte – Agricoltura e Sviluppo Rurale**

Gli "Shape file" sono dati vettoriali con sistema di riferimento WGS84, acquisiti in scala 1:10.000, utilizzabili con strumenti GIS ([per lo scarico sono disponibili in formato ZIP](#)). I dati sono suddivisi per comprensorio e per le seguenti tipologie:

- Aree irrigate
- Tratti di canale derivativo
- Opere di captazione lineari
- Opere di captazione puntuali

- Tratti di condotta derivativa
- Consorzi irrigui di 1° grado (organismi elementari)
- Punti notevoli
- [Documentazione](#) (doc 222 KB)



## Città Metropolitana di Torino - Geoportale

- [Centri di raccolta rifiuti in provincia di Torino](#), dove i cittadini possono conferire rifiuti ingombranti, RAEE, vernici, ecc.. Maggiori informazioni su <http://www.beataladifferenziata.it>
  - Individuazione delle [infrastrutture ciclabili](#) (piste e percorsi nelle aree verdi) esistenti - aggiornamento all'anno 2016.
  - [Mosaico dei PRG](#) - Classificazione omogenea e semplificata delle destinazioni d'uso, esistenti e/o previste determinata dalla resa numerica dei P.R.G.
  - [Aree boscate](#) - Individuazione della copertura forestale in ambito provinciale
  - [PTC2 2](#) – Programma piste ciclabili
  - [TRASFORMAZIONE STORICA DELLE AREE URBANIZZATE](#) - Definizione del processo di crescita urbana attraverso sovrapposizioni temporali (1820 - 1880 - 1920 - 1960 - 1990 - 2000)
  - [TRASFORMAZIONE STORICA DELLA VIABILITA' STRADALE](#) - Processo di trasformazione dei tratti stradali attraverso sovrapposizioni temporali (1880 - 1920 - 1960 - 1990 - 2000)
  - [TRASFORMAZIONE STORICA DEI PRINCIPALI TRATTI FLUVIALI](#) - Processo di trasformazione dei corsi d'acqua principali attraverso sovrapposizioni temporali (1880 - 1920 - 1960 - 1990 - 2000)
  - **Pianificazione territoriale** - Tavola 2.1 Sistema insediativo residenziale e servizi di carattere sovracomunale:
    - [Tavola 2.1 - Sistema insediativo residenziale e servizi di carattere sovracomunale: polarità, gerarchie territoriali e ambiti di approfondimento sovracomunale](#) (pdf 3,6 MB)
- [Licenza d'uso del dato](#) (pdf 99 KB)
- [Tutti i dati della tavola 2.1 in formato ESRI shapefile in un unico file compresso](#) (zip 1 MB)

- **Singoli dati della tavola 2.1 in formato ESRI shapefile compresso:**
- [Progetti di sviluppo delle strutture universitarie](#) (zip 20 KB)
- [Ambiti di approfondimento sovracomunale](#) (zip 657 KB)
- [Sistema di diffusione urbana](#) (zip 25 KB)
- [Comuni in fabbisogno abitativo consistente](#) (zip 25 KB)
- [Facoltà](#) (zip 24 KB)
- [Gerarchie urbane](#) (zip 25 KB)
- [Movicentri](#) (zip 22 KB)
- [Strutture ospedaliere in progetto](#) (zip 20 KB)
- [Distretto per la ricerca scientifica e farmaceutica](#) (zip 20 KB)
- [Scuole superiori non statali](#) (zip 22 KB)
- [Scuole superiori statali](#) (zip 38 KB)
- [scuole universitarie](#) (zip 23 KB)
- [Stazioni ferroviarie](#) (zip 24 KB)
- [Strutture di ricovero](#) (zip 28 KB)



## GEOPORTALE del Comune di Torino

### Comune di Torino

“La Città mette a disposizione in scarico, nei formati SHP e DWG, corredato di scheda metadato, il dato di base relativo a:

- **carta di sintesi** da utilizzare alla scala 1:10000 (contenente le informazioni sui fiumi, gli isolati, le passerelle ed i parchi)
- **civici semplificati** (coerenti con la carta di sintesi)
- **toponomastica semplificata** (coerente con la carta di sintesi)”

[Scarica SHP »](#)

(...)

Altri livelli informativi sono accessibili direttamente dal Geoportale.

## DATI GIS – Italia - Novità ed aggiornamenti sui “GIS data”

REGIONE LAZIO

L'INFORMAZIONE GEOGRAFICA  
QUALE STRUMENTO  
DI CONOSCENZA  
E CONSAPEVOLEZZA

GEO.On-line

Il Portale per la diffusione di servizi geografici

## Geo.On-line - Il Portale per la diffusione di servizi geografici



### Molise – Servizi Geografici

## GEOPORTALE DEI DOTTORI AGRONOMI E DEI DOTTORI FORESTALI



### GEOPORTALE DEI DOTTORI AGRONOMI E DEI DOTTORI FORESTALI

DATI CARTOGRAFICI [REGIONALI](#) E [NAZIONALI](#) GEOREFERENZIATI





















### MIUR – Scuole statali

- Anagrafe Scuole Statali 2015/16 **(con coordinate LATITUDINE/LONGITUDINE)**
- Anagrafe Scuole Paritarie 2015/16
- Anagrafe Centri Formazione Professionale 2014/15
- Anagrafe Nazionale - Alunni e classi
- Anagrafe Nazionale - Classi 1° anno per indirizzo/tempo scuola
- Abbandoni e Trasferimenti
- Esiti scrutini
- Esiti esami di Stato I e II grado
- Esiti esami di Stato I e II grado per voto
- Personale scuola

## ISPRA

## Download MAIS

-  [Corine Land Cover](#)
-  [Complessi idrogeologici](#)
-  [Reticolo idrografico \(1:250.000\)](#)
-  [Bacini idrografici principali \(1:250.000\)](#)
-  [Bacini idrografici secondari \(1:250.000\)](#)
-  [Impianti di monitoraggio ambientale](#)
-  [Cartografia Gravimetrica Digitale](#)
-  [DEM20](#)
-  [DEM75](#)
-  [Consumo di suolo](#)
-  [Goro Land Cover habitat mapping](#)
-  [Ocean Color Northern Adriatic Sea](#)
-  [Ocean Surface Wind Field Northern Adriatic Sea](#)
-  [Sea Surface Temperature Northern Adriatic Sea](#)
-  [Life+Imagine](#)
-  [Copertura del suolo ad alta risoluzione \(20 m\)](#)
-  [Idrografia INSPIRE](#)
-  [Mosaicature Nazionali ISPRA pericolosità frane alluvioni](#)



## Ministero dello Sviluppo Economico – Albo delle Cooperative

In questa sezione è possibile consultare l'Albo delle società cooperative, disciplinato dal Decreto del Ministro dello sviluppo economico del 23 giugno 2004 e successive integrazioni ([DM 23.6.04 Albocoop testo integrato](#)), in cui sono presenti tutte le cooperative che risultano regolarmente iscritte all'Albo alla data di consultazione, comprese le cooperative in stato di liquidazione.

La fonte dei dati è il Registro delle Imprese gestito da *InfoCamere*, la società consortile di informatica delle Camere di commercio Italiane. I dati vengono aggiornati con cadenza giornaliera.

La pubblicazione è da considerarsi ancora a carattere sperimentale e comunque l'attendibilità dei dati in essa riportati è assicurata dalla menzionata Società consortile *InfoCamere*.

## DATI GIS – Europa - Novità ed aggiornamenti sui “GIS data”



### Digital Elevation Model over Europe (EU-DEM)

The Digital Elevation Model over Europe from the GMES RDA project (EU-DEM) is a Digital Surface Model (DSM) representing the first surface as illuminated by the sensors. The EU-DEM dataset is a realisation of the Copernicus programme, managed by the European Commission, DG Enterprise and Industry.



### EEA - Europe coastline (shapefile)



### EEA – Europe shoreline (shapefile)

The EUROSION shoreline is a seamless representation of the limit between land and sea.



### EEA - Geomorphology, Geology, Erosion trends and Coastal defence works

The dataset consists of two layers: 1) This layer features both morpho-sedimentological and geological patterns of the European coastline



## European Marine Observation and Data Network (EMODnet) Central Portal

The EMODnet data infrastructure is being developed through a stepwise approach in three major phases. Currently EMODnet is in the 2nd phase of development. EMODnet Geology was initiated in EMODnet Phase I (2009-2013) through the ur-EMODnet-Geology project. During the current Phase II (2013-2016), EMODnet Geology will extend the work carried out during the preparatory Phase 1 to move, together with the six other EMODnet sub-portals, towards an operational service with full coverage of all European sea-basins, a wider selection of parameters and medium resolution data products.



## Copernicus – Corine Land Cover

The **CORINE Land Cover** (CLC) inventory was initiated in 1985 (reference year 1990). Updates have been produced in 2000, 2006, and 2012. It consists of an inventory of land cover in 44 classes.

(...)



## France - CORINE Land Cover (CLC) : accéder aux données par services Web

Les données CORINE Land Cover sont accessibles via les services interopérables de l'Open Geospatial Consortium (OGC) au format :

- WMS (Web Map Service)
- WMS-C (Web Map Service tuilé)
- WMTS
- WFS (Web Feature Service)

- WCS (Web coverage service)
- KML

Les données sont accessibles librement, sous réserve du respect des conditions d'utilisation



### Germany - Corine Land Cover (CLC)



Aplicatia [INIS Viewer](#) permite vizualizarea resurselor de harta precum: TopRO5 Ortofoto 2005 Ortofoto 2008

### DATI GIS – Mondo - Novità ed aggiornamenti sui “GIS data”



### The Humanitarian Data Exchange



### Sentinel Scientific Data Hub - Free and Open data access

Anyone can register online via [self-registration](#). The self-registration process is automatic and immediate. Registration grants access rights for searching and downloading Sentinels products. Sentinels products are available at no cost for anybody. The data available through the Data Hub



is governed by the [Legal Notice on the use of Copernicus Sentinel Data and Service Information](#), which the User is deemed to have accepted by using the Sentinel data.



## Terra Populus – Integrated Data on Population and Environment

**Extract Builder** - The Extract Builder allows users to browse the entire TerraPop data collection, access rich metadata describing the data, select variables and datasets from any of the three data structures, and combine them into a single integrated dataset in the data format that best meets the needs of their analysis. These extracts may then be further analyzed with statistical packages or a Geographic Information System.

**TerraClip** - TerraClip allows users to obtain country-level subsets of selected global raster datasets. Users may preview and download data, either as an image or as georeferenced data for use in a GIS.

**TerraScope** - TerraScope supports exploratory spatial data visualization. It enables users to view the availability of variables across time and space, create choropleth maps of area-level data, and visualize raster datasets.



## Eurostat - Administrative units / Statistical units

The following Administrative units / Statistical units are available:

- NUTS 2013
- NUTS 2010
- NUTS 2006
- NUTS 2003

### Urban audit

- Urban audit 2011-2014
- Urban audit 2004
- Urban audit 2001

### Countries

- Countries 2014
- Countries 2013
- Countries 2010
- Countries 2006

## Census

- Census centroids 2011
- Census units 2011

## Communes

- Communes 2013
- Communal centroids 2010
- Communal centroids 2006

Please, [read the Copyright and License policy](#)



## EuroBoundaryMap

**EuroBoundaryMap** is a seamless geo-database at the scale 1:100 000 covering 43 countries. It contains geometry, names and codes of administrative and statistical units continuously updated by our members, the national mapping and cadastral authorities (NMCAs) of Europe. It links to the updated statistical LAU- and NUTS-codes for all local administrative units of the 28 member states of the European Union.

# GEOPORTALE DEI DOTTORI AGRONOMI E DEI DOTTORI FORESTALI



## GEOPORTALE DEI DOTTORI AGRONOMI E DEI DOTTORI FORESTALI

DATI CARTOGRAFICI INTERNAZIONALI GEOREFERENZIATI



## GEOS PORTAL

## RINGRAZIAMENTI





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## PROSSIMA NEWSLETTER ECDL-GIS

----- > Arrivederci a fine LUGLIO 2017!

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La casella di posta elettronica [ecdl-gis@polito.it](mailto:ecdl-gis@polito.it) è a Vostra disposizione per informazioni e/o chiarimenti sulla certificazione **ECDL-GIS**.

Allo stesso indirizzo potete segnalare eventi, risorse, strumenti... o, ancora, inviare suggerimenti (critiche...). Grazie!

Per altre informazioni, richieste o supporto tecnico è possibile scrivere a [s3lab\[at\]polito.it](mailto:s3lab[at]polito.it)

