

OSGeo in a global context

Astrid Emde (OSGeo Board from Cologne Germany)

FOSS4G Belgium 2019 Bruessels



OSGeo in a global context

How OSGeo is connected to a hat and a tie ribbon

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FOSS4G Belgium 2019 Brussels





Open Source Geospatial Foundation



Open Source Geospatial Foundation
Free, Open, Self-organizing, Global

I work with



Software

since 2003

focus on WebGIS & Webmapping
consultancy & training

I am lucky

because at



we work a lot with





& QGIS HelpDesk & FOSS Academy

Stadtplan Frankfurt - Chromium

Stadtplan Frankfurt x +

https://geoinfo.frankfurt.de/mapbender/application/stadtplan

Stadtkarte Luftbild Suchen Strecke messen Fläche messen Bildexport Treffpunkt Drucken

Karten Routing

Themenkarten

- ☐ Flurstücke
- ☐ Erfrischungsbrunnen
- ☐ Bodenordnungsverfahren
- ☐ Wohnlagen laut Mietspiegel 2018
- ☒ Verwaltungsgrenzen

Grünflächenamt

- ☐ Baumkataster
- ☐ Grünanlagensatzung

Luftbilder ab 2000

Historische Karten und Luftbilder

Strecke messen

150.74 m
76.61 m
43.95 m

Schließen

20 m

Frankfurt Offenbach

x=477248 y=5550965 1000 ? Zeichenerklärungen Stadtvermessungsamt Copyright-Hinweise

Stadtplan Frankfurt - Chromium

Stadtplan Frankfurt x +

← → ↻ ⓘ <https://geoinfo.frankfurt.de/mapbender/application/stadtplan> ☆ ⋮

Stadtkarte | Luftbild | 🔍 Suchen | 📏 Strecke messen | 📐 Fläche messen | 📷 Bildexport | 📌 Treffpunkt | 🖨 Drucken

Karten **Routing**

📍 Römerberg 23, Frankfurt x

📍 Schäfergasse 23, Frankfur x

↺ ↻ ↷

Römerberg 23, Frankfurt → Schäfergasse 23, Frankfurt
Länge = 936 m

Start - Entfernung zwischen Gebäude und Römerberg 16 m

Dem Straßenverlauf folgen auf Römerberg 6 m


Scharf rechts abbiegen auf Römerberg 31 m

Scharf links abbiegen auf

100 m

Frankfurt Offenbach

5000 ? Zeichenerklärungen 🏠 Stadtvermessungsamt ⓘ Copyright-Hinweise


Imprint & Contact | Privacy-Policy
Logged in as: root

v. 3.0.8.4

- Applications
 - New application
 - Export
 - Import
- Sources
 - Add source
- User control
 - Users
 - New user
 - Groups
 - New group
 - ACLs

Mapbender Demo Map

Base data

Layouts

Layersets

CSS

Security

Template: Fullscreen

Toolbar

Title	Type	
Layer tree	Button	
FeatureInfo	Button	
Print client	Button	
Image Export	Button	
Legend	Button	
WMS loader	Button	
GPS Position	GPS Position	
measure	Button	
measure	Button	
about	About dialog	
POI	Button	

Sidepane

Title	Type	
Layer tree	Layer tree	
Redlining	Redlining	
Coordinates utility	Coordinates utility	
About Mapbender	HTML	

I am involved in



since 2006

Charter Member since 2010

OSGeo Board since 2017, OSGeo Secretary

Marketing, Outreach, OSGeoLive, Conferences and Sprints

What is OSGeo

- OSGeo is a not-for-profit software foundation
providing organizational, legal, and financial support for projects
- OSGeo is volunteer driven
Passionate membership of individuals from around the world
- OSGeo promotes adoption of open geospatial technology
Partnerships on open approach to software, standards, data and education.

The Open Source Geospatial Foundation

Open source projects

Open source is so much more than technology. Meet the projects that are here to help you!

[Choose a project](#)

About open source geo

Powerful, secure and flexible; open source gives you the freedom to "Do Geo" your way

[Open source geo](#)

Helping you succeed

Support provided by local chapters, service providers and research collaboration.

[Connect with OSGeo](#)[Science and Education](#)

- [About OSGeo](#) >
- [What is Open Source?](#) >
- [Board and Officers](#) >
- [Charter Members](#) >
- [Committees](#) >
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Community news

Palestra: Geotecnologias, muito além ao Google Maps

October 23rd, 2019

Portable GIS version 6

October 22nd, 2019

PostGIS Day 2019 Zürich

October 22nd, 2019

[View all community news](#) >

Foundation news

GeoForAll contributions to the United Nations Sustainable Development Goals

October 2nd, 2019

Agreement between Spanish QGIS Association and Spanish Geographers Professional Association

September 19th, 2019

OSGeoLive 13.0 Released

September 5th, 2019

[View all press releases](#) >

[Home](#) > [Service Providers](#)

Service providers

Open source is supported by a broad ecosystem of service providers providing you with supplier-independence. To encourage sustainability our project teams have identified **contributors**, to be listed first in search results.

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ahocevar geospatial

Open source geospatial software development and OpenLayers support

[Website](#) [Core Contributors](#)



AppGeo

Applied Geographics, Inc. (AppGeo, www.AppGeo.com) is a geospatial IT consulting...

[Website](#) [Core Contributors](#)



Astun Technology

Astun Technology was formed in 2005 to provide open source and web-based GIS ser...

[Website](#) [Core Contributors](#)



Faunalia



GOVERNMENT GEOGRAPHIC DATA PUBLISHING

OSGeo history

- Established in 2006 at a meeting in Chicago, IL with financial support from AutoDesk
- Driven by need to organize and navigate rapidly growing field of open source geospatial projects

OSGeo Foundation: Founding members



Supporting Open Source Software development

OSGeo projects

Projects are the OSGeo core focus

25 graduated through a rigorous incubation:

- **Web Mapping:** deegree, Geomajas, GeoMoose, GeoServer, Mapbender, mapfish, MapServer, MapGuide Open Source*, OpenLayers, PyWPS
- **Desktop:** GRASS GIS, gvSIG Desktop, Marble, QGIS Desktop
- **Libraries:** GDAL/OGR, GEOS, GeoTools, Orfeo ToolBox
- **Spatial Database, metadata catalogs, other:** GeoNetwork, GeoNode, OSGeoLive, PostGIS, pycsw



OSGeo projects

20 Community projects, 6 are in incubation (*)

- **Libraries:** actinia, Pronto Raster, Proj*, FDO, Pronto Raster, OSSIM, pgRouting
- **Web Mapping:** istSOS*, ZOO-project*, Oskari*, GeoWebCache, GC2/Vidi
- **Desktop:** OSGeo4W, Opticks*
- **Other:** GeoServer Client PHP, MetaCRS*, Loader, GeoHealthCheck, Portable GIS, TEAM Engine*





OSGeo projects governance

- **Project graduation checklist**
- Provenance documents for each graduated project
- Independently run by a Project Steering Committee
- Annual status reports to OSGeo board
- OSGeo manages contributor agreements

OSGeo Annual General Meeting

AGM every year at FOSS4G



[Link to AGM 2019 video](#)

OSGeo Board

9 elected board members

Board of directors:



Officers:

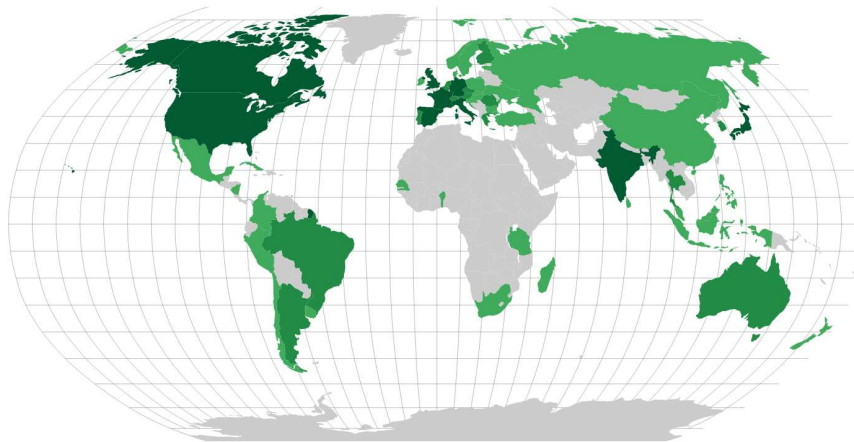
- President
- Secretary
- Treasurer
- Chief Returning Officer - Elections
- OSGeo Committees (including OSGeo Projects)

OSGeo membership

Open, free membership

- 5600+ members registered on the wiki
- 940 registrations on the website 08/2019
- 33700+ OSGeo mailman server unique subscribers 08/2019
- 425 elected charter members – developers, activists, advocates (2018)
- charter members elect the board of directors

Charter Members by country



Argentina (12) · Australia (11) · Austria (5) · Belgium (8) ·
Benin (1) · Brazil (9) · Bulgaria (1) · Canada (22) · Chile (1) ·
China (1) · Colombia (1) · Croatia (1) · Cuba (1) ·
Czech Republic (8) · Denmark (4) · Estonia (1) · Finland (6) ·
France (25) · Germany (20) · Greece (6) · Hungary (2) ·
India (19) · Indonesia (1) · Ireland (2) · Italy (24) · Japan (19) ·
Madagascar (1) · Malaysia (1) · Mexico (2) ·
Netherlands (12) · New Zealand (3) · Nicaragua (1) ·
Norway (2) · Peru (1) · Philippines (2) · Poland (4) ·
Portugal (13) · Romania (8) · Russia (2) · Senegal (1) ·
Slovakia (1) · Slovenia (1) · South Africa (4) ·
South Korea (6) · Spain (22) · Sri Lanka (3) · Sweden (1) ·
Switzerland (9) · Thailand (5) · Turkey (1) · Ukraine (3) ·
United Kingdom (19) · United Republic of Tanzania (1) ·
United States of America (84) · Uruguay (1)

♥ Jorge Sanz 2018

Local chapters

- 30+ local chapters all over the world
- organize meetups, conferences, code sprints
- report at Annual General Meeting at Global FOSS4G
- manage translations of documentation



Local chapter FOSSGIS e.V.

German language local Chapter for OSGeo - D-A-Ch

Official Local Chapter of OSMF for Germany

- 200+ members
- very active
- Outreach on conferences & fairs like AGIT, INTERGEO
- Community Meetings & OSM Hackthons
- Support Programme (Förderprogramm)

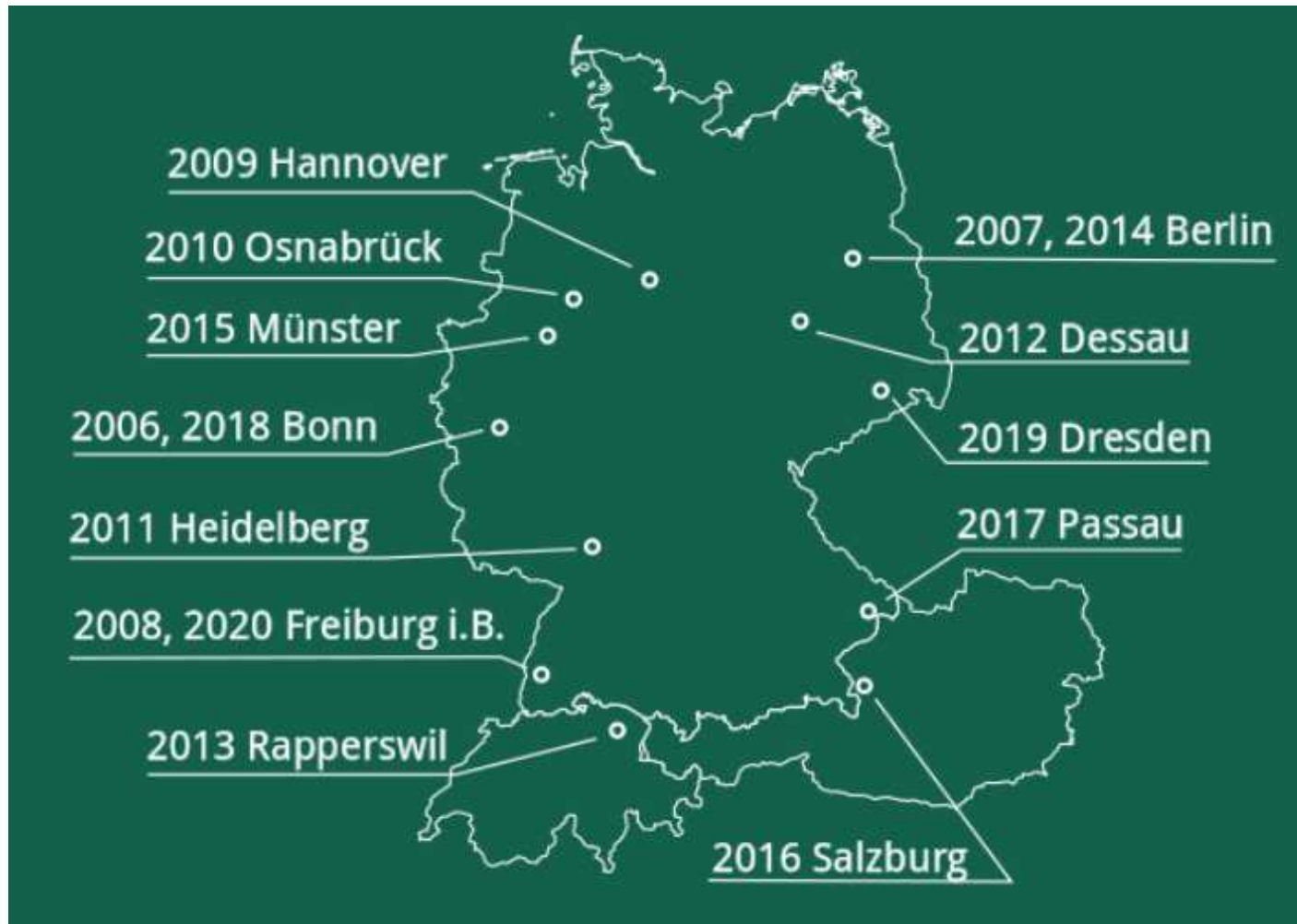


Annual FOSSGIS Konferenz



- 3 days of workshops, presentations, community meetings, networking
- 1 day OSM Day
- > 500 participants (sold out in the last years)
- live stream & video recordings

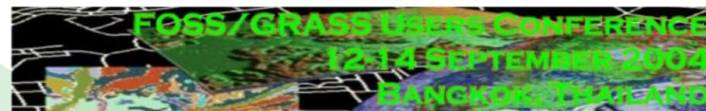
FOSSGIS Konferenz





Conferences: Global

Annual global FOSS4G conference travels around the world



<http://foss4g.org>



FOSS4G 2010
Barcelona



FOSS4G 2019 Bucharest

amazing event with over 1000 participants



Conferences: regional

Organized by local chapters, rapidly growing
many regional FOSS4G conferences per year

- See -> OSGeo Events and -> Travel Grant Program
- FOSS4G SotM Oceania 2019 November Wellington, New Zealand
- FOSS4GUK
- FOSS4G Japan
- FOSS4G North America 2019
- Bolsena Codesprint 2019 - June 24th, 2019
- FOSS4G NL 2019 at Delft University - June 20th, 2019
- Jornadas SIG Libre 2019 - May 29th, 2019
- OSGeo Community Sprint 2019 - May 14th, 2019
- FOSS4G Europe 2018, Guimarães, Portugal
- FOSS4G Asia 2018, Sri Lanka
- **FOSS4G BE, Brussels**
- FOSS4G Hungary
- GFOSS Italy
- FOSGIS Germany
- OSGeo Irish Local chapter symposium, FOSS4G Finland, OSGeo Africa, QGIS conference, ...

Community sprints

- OSGeo budget supports code and community sprints
- Collaborative sprints with multiple projects
- Community sprints associated with FOSS4G conferences
- Code sprints organized by projects



Community sprint at Linuxhotel by FOSSGIS e.V.

Community Sprint in Dar es Salaam

The FOSS4G 2018 Community Sprint was held in Dar es Salaam at dLAB Tanzania September 1 to 2, the weekend after the closing sessions of FOSS4G. This sprint brought together nearly 70 members of the OSGeo community, HOT and students from closeby.



Community sprint at FOSS4G 2018 Dar es Salaam (Tanzania)



Fotos: Astrid Emde

Community sprint at FOSS4G 2018 Dar es Salaam (Tanzania)

OSGeo is attractive to young people

Travel Grant Programme

<https://www.osgeo.org/initiatives/foss4g-travel-grant-program/>

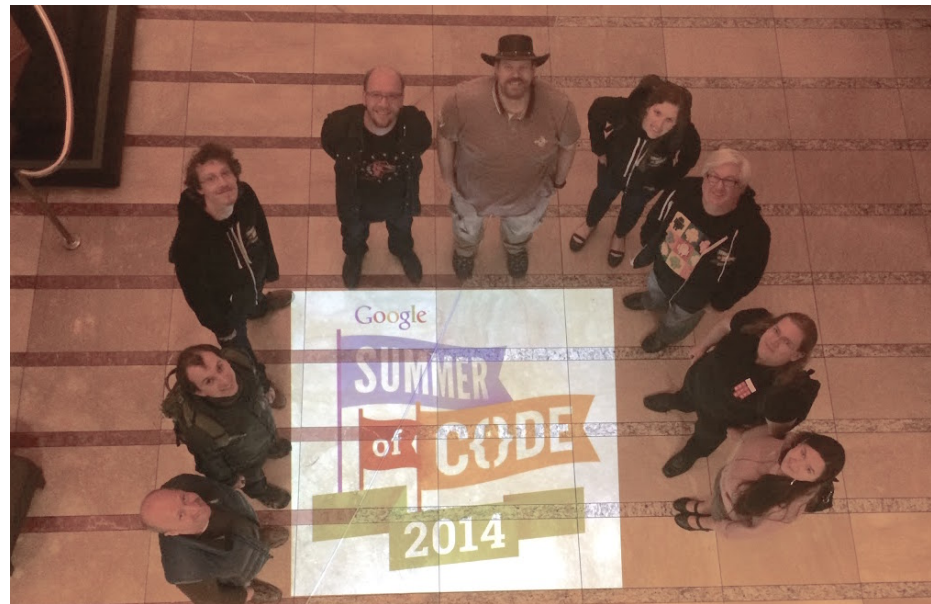


Flickr tshedy thobei: <https://www.flickr.com/photos/164185166@N06/43479316505/in/pool-foss4g/>

Google Summer of Code

<https://summerofcode.withgoogle.com>

- OSGeo serves as umbrella organization for projects
- Smaller open source geospatial projects can also join
- 12 years, 150+ students (\$750,000+) , 7 students in 2019
- mentors work for free, get to visit Google headquarters



Google_Code-in

<https://codein.withgoogle.com/archive/>

- OSGeo serves as umbrella organization for project participation in Google code-in
- Fostering pre-university student participation in OSGeo
- 2 years, 649 small tasks for 11 OSGeo projects



Google Code-in

Google Season of Docs-in

OSGeo is global



Network all over the world

Developer, conferences, community sprints...

Mapping events...

Beyond software

OSGeo works with partners to support and promote

- **Open Source:** collaborative software development
- **Open Data:** free access to geospatial data
- **Open Standards:** avoid lock-in, use interoperable software
- **Open Education:** learning and teaching without barriers
- **Open Science:** Share data, software, publications
- **MoUs** with 14+ organizations

MoU - Memorandum of Understanding



International Cartographic Association (ICA) 2011 Georg Gartner and Arnulf Christl, renewal in 2015 with Jeff McKenna, TIB Bastian Drees and Maria Arias de Reyna 2018

https://wiki.osgeo.org/wiki/MOU_OSGeo_All

TIB AV-Portal

- Offers a lot of FOSS4G videos from our conferences
- <https://av.tib.eu/>
- TIB AV-Portal search f.e QGIS > 400 hits 09/2019

SUBJECTS PUBLISHER OPEN DATA FAQ CONTACT WATCHLIST UPLOAD DEUTSCH LOGIN

TIB AV-PORTAL Search for people, places, topics ... **Search**

Refine your search 1-36 out of 1215 results

FOSS4G, Open Source Geospatial Foundation (OSGeo) Remove all filters

Change view Sort by: Relevance Title Release Date

Publication Year

2012 2013 2014 2015 2016 2017 2018 2019 2020

Collection

☐ Online collection (1215)

Subject

☐ Computer Science (1215)

Language

☐ English (1214)

☐ Korean (1)

Author & Contributors

Using Spatial Business Intelligence For Asset Management

22:43
FOSS4G, Open Source Geospatial Foundation (OSGeo)
English
2013

Working With Spatial Databases With GeoAlchemy

16:22
FOSS4G, Open Source Geospatial Foundation (OSGeo)
English
2013

VivaCity Smart City Platform

50:05
FOSS4G, Open Source Geospatial Foundation (OSGeo)
English
2013

TileServer: Hosting Map Tiles And MBTiles

24:39
FOSS4G, Open Source Geospatial Foundation (OSGeo)
English
2013

Virtual Box Setup

Using OSGeo Live In MSc Teaching

Remote Data Storage

Disconnected Geospatial Mobile & Open Source 5 Rules To Success?

OpenLayers

Cartaro - The Geospatial CMS

Web Maps Lite

Leaflet: Past, Present, Future

More MoUs

International Society for Photogrammetry and Remote Sensing (ISPRS) signed in 2014.

University Consortium for GIScience (UCGIS) signed in 2016

Association of Geographic Information Laboratories in Europe (AGILE) signed in 2017



University Consortium for
GEOGRAPHIC INFORMATION SCIENCE



YouthMappers (signed in 2018)

US DoI, OGC, LH Corp, IGU, STP India, GLTN, UNIGIS



Open Geospatial Consortium

long partnership, MoU signed in January 2009

- Many people from OSGeo projects are involved
- GeoServer, QGIS Server, deegree are reference implementations
- Member join Discussion and hackathons
- Discussion about closer collaboration at the moment

OSGeo sponsors and budget

OSGeo has many great sponsors



OSGeo AGM 2019 FOSS4G Bucharest

<https://www.osgeo.org/sponsors/>

OSGeo budget

- Support our committees, projects, initiatives
- Support new projects
- Provide technical infrastructure (mailing lists, server, test system...)
- Travel Grant Programme
- Conferences and community sprints and project meetings
- Awards

GeoForAll

OSGeo educational initiative

Global network of academic research and
education laboratories and government/industry
partners



GeoForAll

Mission and goals

Making geospatial education and opportunities accessible to all

- Create research and teaching opportunities in open geospatial science
- Build global open access teaching and research infrastructure
- Establish collaborations between academia, government and industry around open geospatial science and education

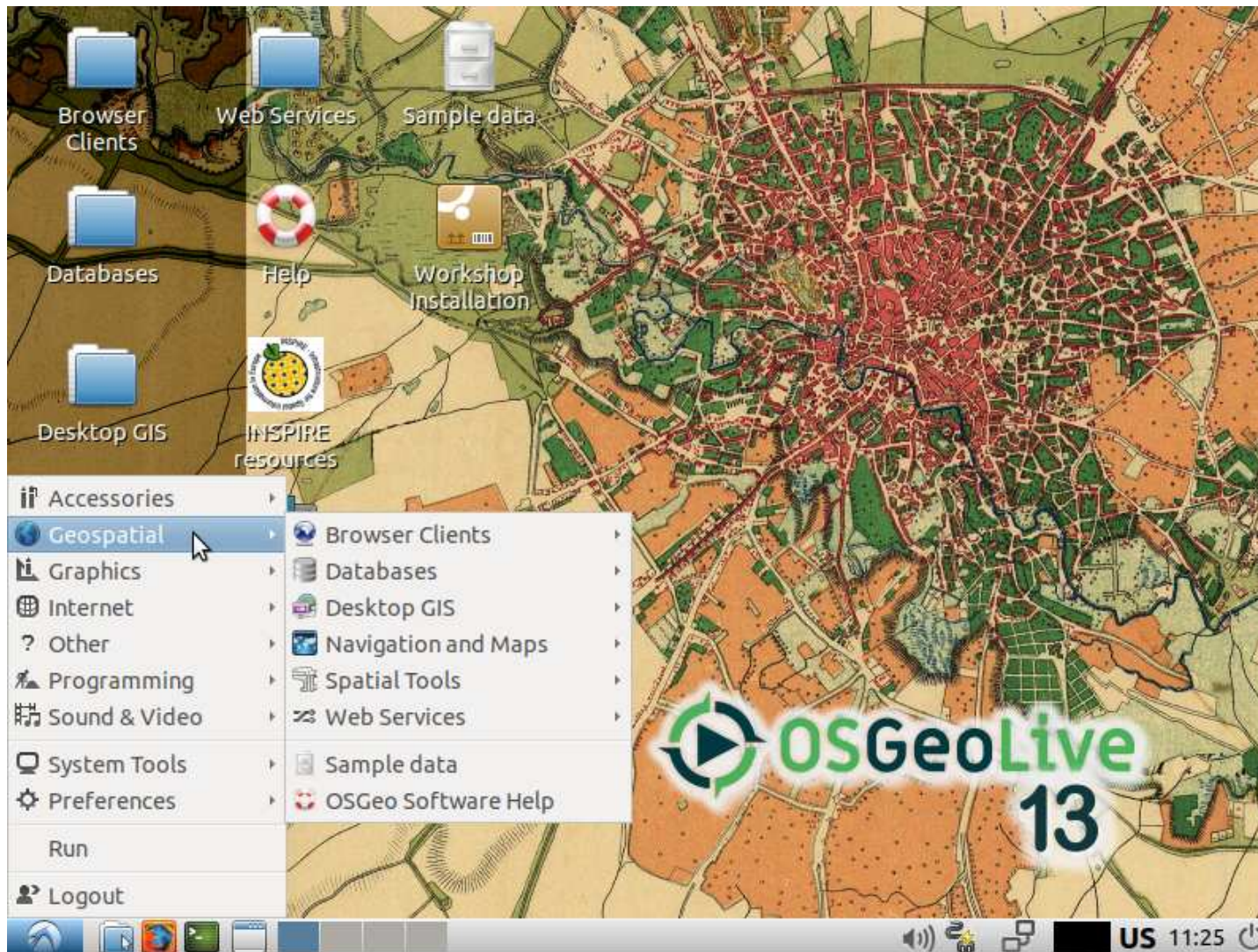
Map of the labs 2017

over 100 labs globally in 2017





- OSGeoLive 13.0 software collection
- Ubuntu 18.4
- contains 50+ Open Source Software for Geospatial
- Data & Dokumentation (Quickstart & Overview)
- OSM Data from the region of the actual FOSS4G





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Bienvenue sur OSGeoLive 13.0

OSGeoLive est un DVD amorçable autonome, une clé USB ou une machine virtuelle basée sur [Lubuntu](#), qui vous permet d'essayer une grande variété de logiciels open source géospaciaux sans avoir à installer quoi que ce soit. Il est composé uniquement de logiciels libres, ce qui lui permet d'être librement distribué, dupliqué et le transmettre à n'importe qui.

Il fournit des applications pré-configurées pour un éventail de cas d'utilisations géospaciaux, y compris le stockage, édition, affichage, analyse et manipulation de données. Il contient également de la documentation et des jeux de données de tests.

Pour tester les applications, tout simplement :

1. Insérer le DVD ou la clé USB dans l'ordinateur ou une machine virtuelle.
2. Redémarrez l'ordinateur. (Vérifier l'ordre de démarrage des périphériques si nécessaire)
3. Appuyez sur « Entrée » pour démarrer et vous connecter.
4. Essayez les applications en les lançant à partir du menu « Géospatial ».

OSGeoLive est un projet de la [fondation OSGeo](#). La fondation OSGeo est une organisation à but non lucratif supportant le développement, la promotion et [l'éducation](#) aux logiciels Open Source géospaciaux.

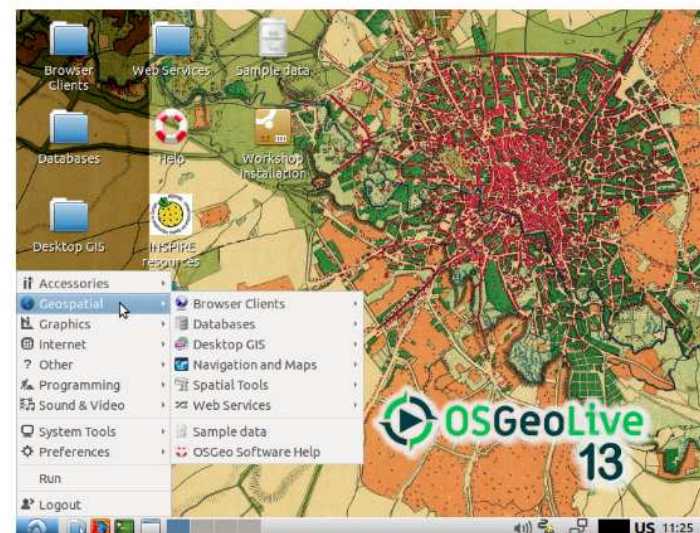
Guides de démarrage rapide

- [Getting started with the OSGeoLive DVD](#)
- [Change language or keyboard type](#)
- [Install OSGeoLive on your hard disk](#)
- [Run OSGeoLive in a Virtual Machine](#)
- [Create an OSGeoLive bootable USB thumb drive](#)
- [Running in a Hyper-V Virtual Machine](#)

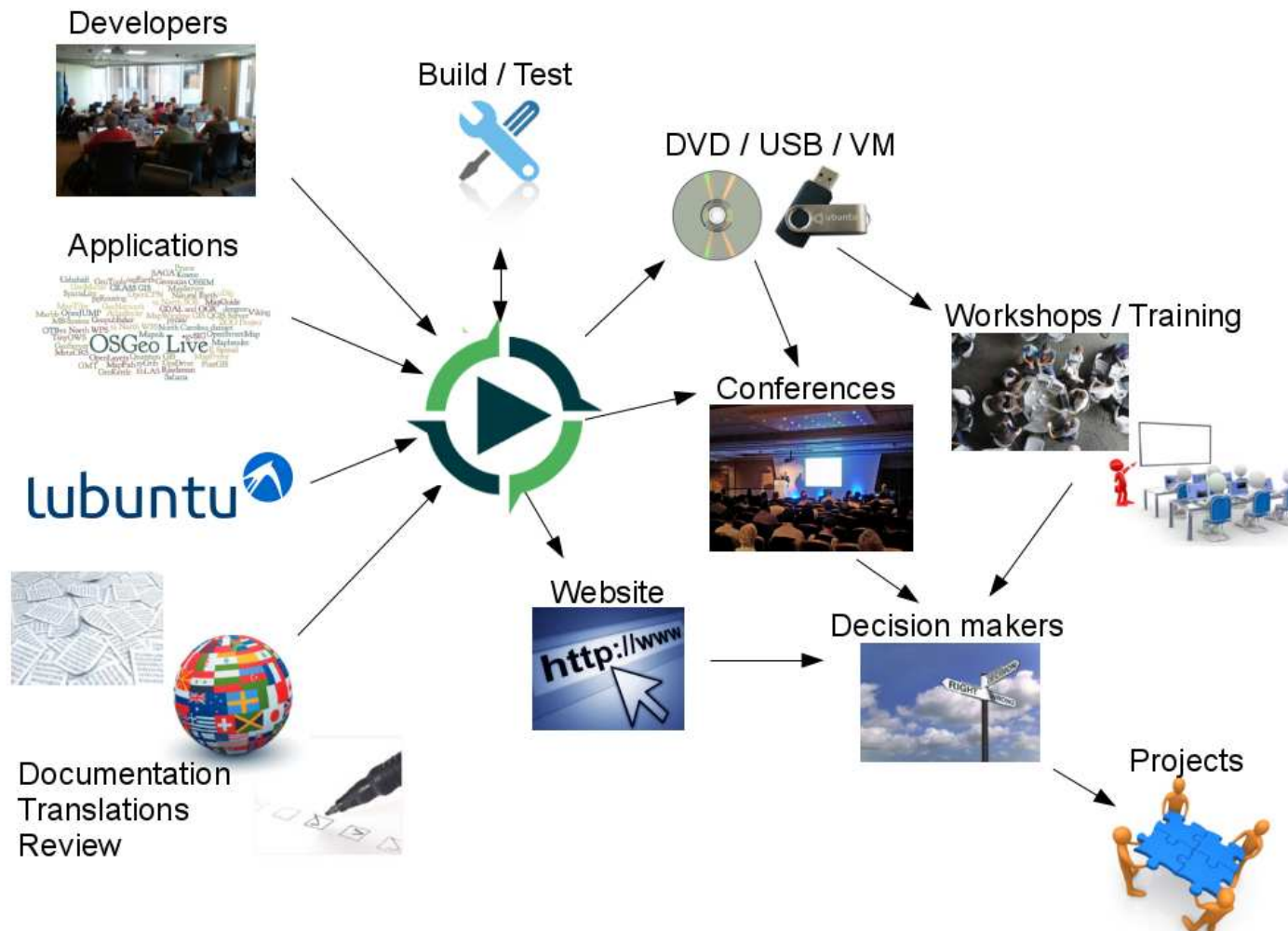
Présentation

Une [présentation](#) d'une demi-heure, qui passe en revue toutes les applications d'OSGeoLive, est disponible avec ses slides, scripts, et [abstract](#).

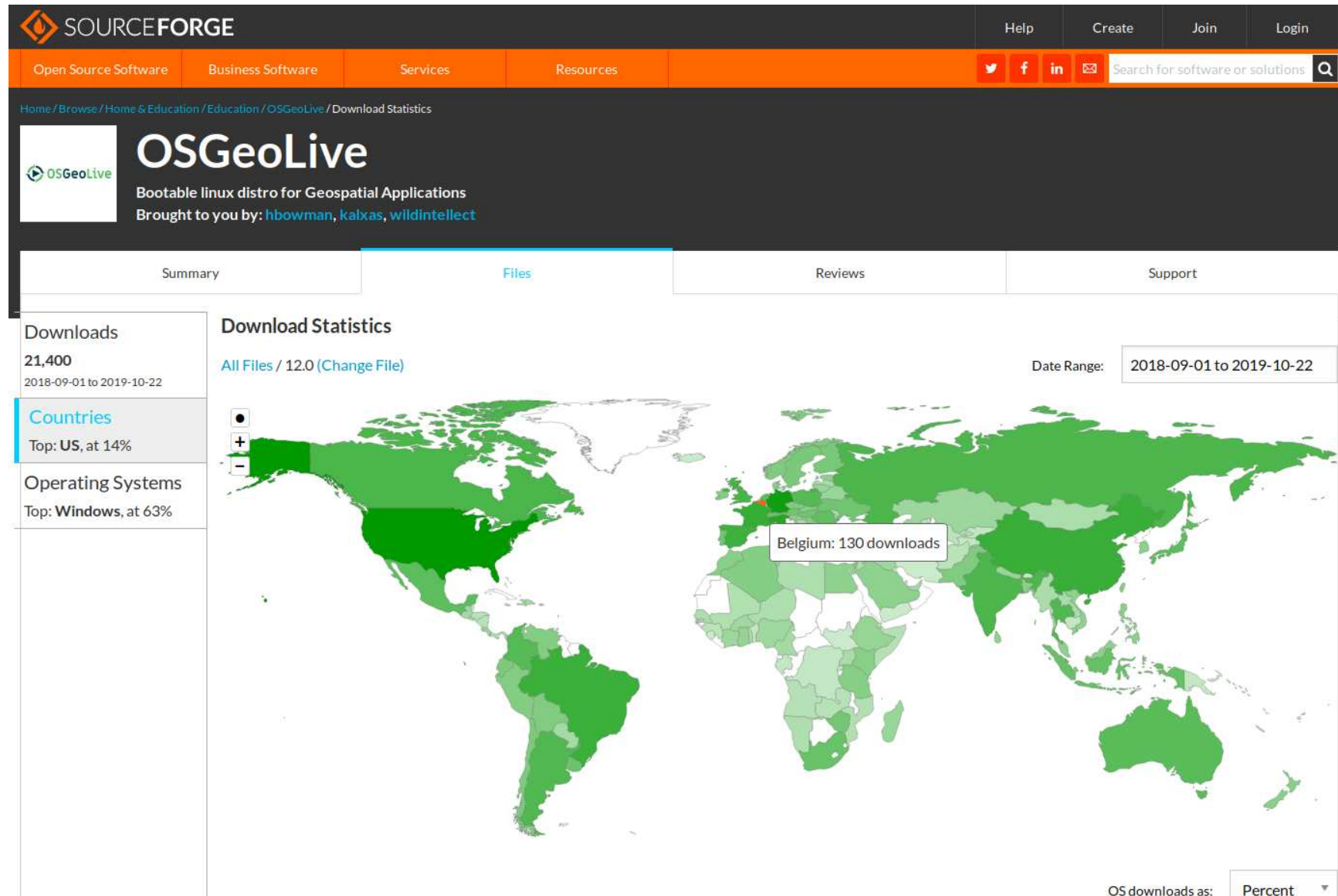
English | Català | Deutsch | Español | Suomen kieli | Français | Italiano | 日本語 | 한국어 | Polski | Русский | Hungarian
Copyright & Disclaimer



<https://live.osgeo.org>



OSGeoLive 12.0 downloads



OSGeoLive 12.0 downloads

Country	Android	BSD	Linux	Macintosh	Unknown	Windows	Total
1. United States	1%	0%	26%	8%	9%	57%	3,129
2. Germany	0%	0%	31%	4%	6%	58%	2,249
3. Italy	0%	0%	40%	8%	0%	51%	1,387
4. France	0%	0%	35%	4%	2%	58%	972
5. China	0%	0%	6%	1%	12%	80%	881
6. Brazil	0%	0%	35%	3%	1%	60%	819
7. Spain	0%	0%	30%	6%	0%	63%	799
8. United Kingdom	0%	0%	33%	8%	2%	56%	604
9. Canada	1%	0%	26%	5%	15%	53%	542
10. India	2%	0%	16%	3%	6%	72%	517
11. Russia	0%	0%	27%	5%	17%	51%	515
12. Thailand	0%	0%	4%	6%	0%	90%	448
13. Argentina	0%	0%	22%	2%	2%	74%	446
14. Poland	0%	0%	21%	2%	5%	72%	394
15. Colombia	0%	0%	15%	2%	2%	80%	389
16. Australia	0%	0%	29%	5%	3%	62%	346
17. Netherlands	0%	0%	22%	7%	2%	69%	344
32. Belgium	0%	0%	42%	3%	0%	55%	130

Offers OSGeo solutions for you?

- Great sustainable projects
- Projects are in action all over the work
- Support by Service Provider & developer
- Support by the community
- Educational material

You want to get involved?

- Become a member, create your member page
- Add your project
- Help with development, testing, documentation ...
- Promote OSGeo



Free/Libre and Open Source Software (FOSS)

Copyright Mayuri 2004



Enjoy FOSS4G-Begium and thanks to the organizers and to all people involved!

Astrid Emde (OSGeo) astrid_emde@osgeo.org

FOSS4G Belgium 24. October 2019