



Open Innovation for Earth Observation Programmes

2-4 November 2022 | ESA-ESRIN | Frascati (Rm), Italy

**The story of a compass.
*Perspective on creating successful OS communities.***

Codrina Maria Ilie

geo-spatial.org, OSGeo, Terrasigna



About me

- OSGeo board member (2019 - 2021, 2021 - 2023)
- OSGeo Charter Member since 2013
- Member of the Romanian geospatial community geo-spatial.org for almost 15 years
- Vice-president of Romanian OSGeo Local Chapter geo-spatial.org since 2015
- Open Knowledge International Foundation collaborator since 2014
- GIS/RS scientist at **TERRASIGNA** since 2016
- PhD candidate at Technical University of Civil Engineering Bucharest



compass *noun*

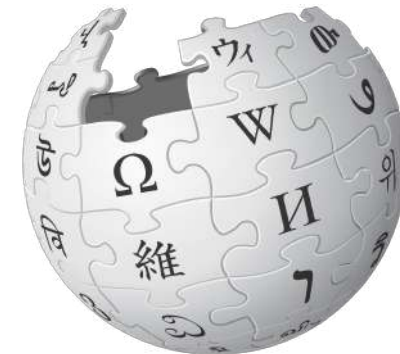
/ˈkʌmpəs/

(also magnetic compass) [countable] an instrument for finding direction, with a needle that always points to the north

- *a map and compass*
- *the points of the compass* (= N, S, E, W, etc.)

SEE ALSO [moral compass](#)

A **compass** is a device that shows the [cardinal directions](#) used for [navigation](#) and geographic orientation.





2006



2017



Open Source Geospatial Foundation

Your open source compass...

...Empower everyone with open source geospatial



Empower everyone with open source geospatial

OSGeo is a not-for-profit software foundation
(US: IRS code 503(c)4 organized under Social Welfare advocacy.)

- **Provides** financial, organizational and legal support to the broader open source geospatial community.
- **Mission** is to foster global adoption of open geospatial technology by being an inclusive software foundation devoted to an open philosophy and participatory community driven development.
- **Serves** as an independent legal entity to which community members can contribute code, funding and other resources, secure in the knowledge that their contributions will be maintained for public benefit.

Outreach and advocacy

- Promoting global adoption of open source geospatial technology
- Partnerships on open approach to standards, data and education.
- Provides a common forum and shared infrastructure for improving cross-project collaboration.

OSGeo is **volunteer driven**

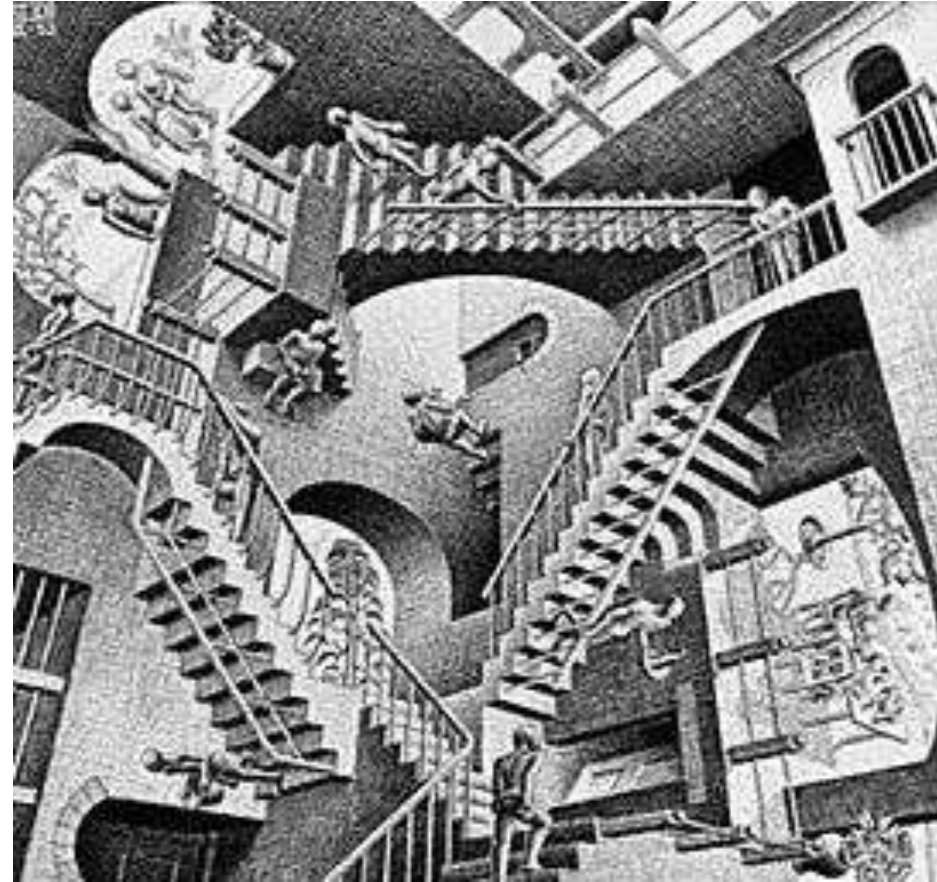
- Passionate membership of individuals from around the world.



Great! But why talk about OSGeo at the ESA&NASA workshop Open Innovation in Earth Observation Programs, Thematic Area 2 “**Lessons learned from successful open community projects**” ?!

Perspective on creating successful OS communities

What is successful OS communities?!



Source: <https://en.wikipedia.org/w/index.php?curid=29612930>, fair use

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2001 – [OSSIM](#) initial revision in CVS

[PostGIS](#) started

[GeoNetwork opensource](#) started

[GeoServer](#) started

2002 – [Quantum GIS](#) initial revision in CVS

[GEOS](#) initial revision in CVS

2003 – [Community MapBuilder](#) started. End of life in 2008

Release of [Mapbender](#) under the GNU GPL license

[gvSIG](#) was started

2004 – [uDig](#) was started

2005 – [MapGuide Open Source](#)

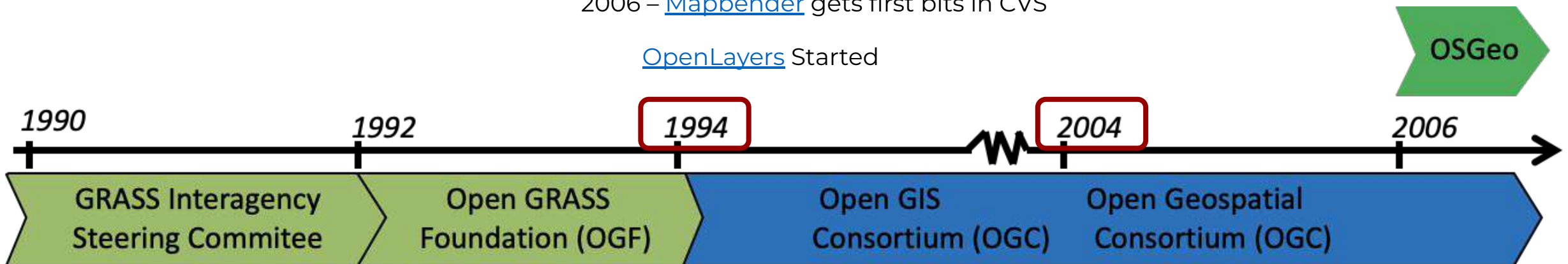
2006 – [Mapbender](#) gets first bits in CVS

[OpenLayers](#) Started

Concurrent Versions System

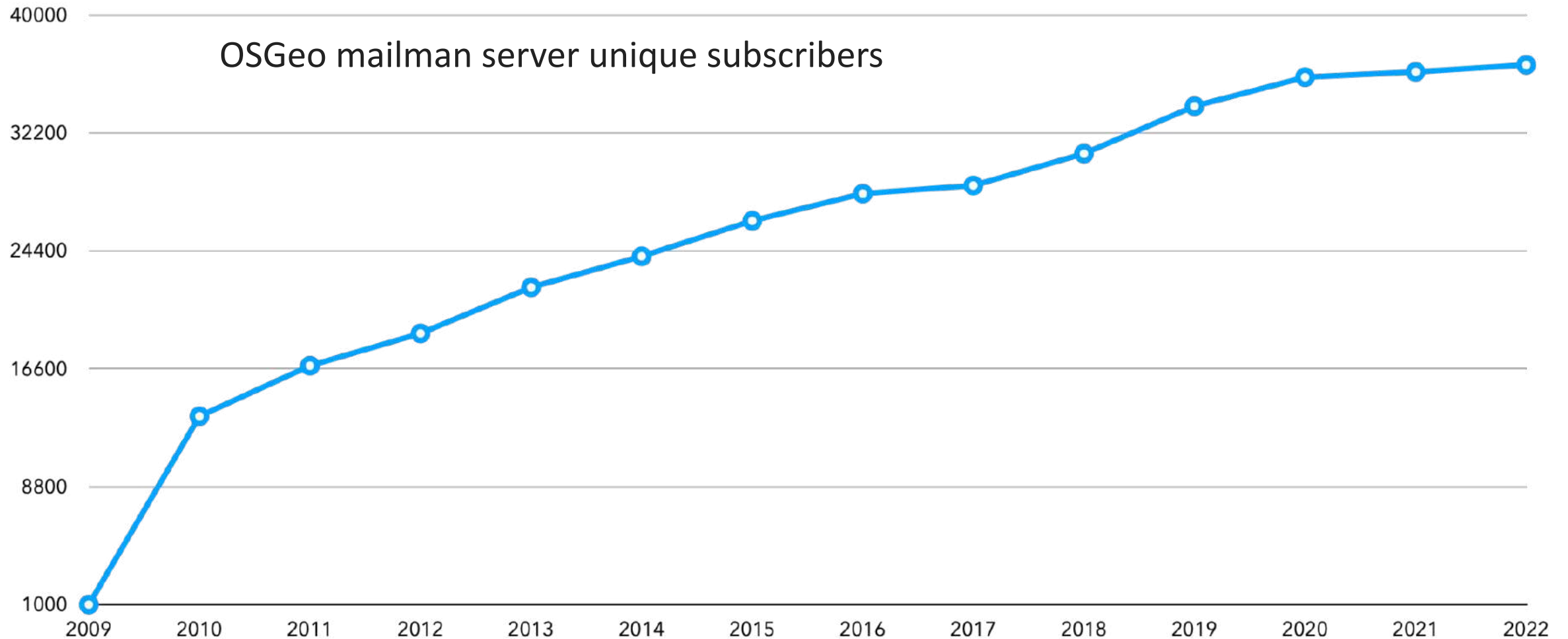
Version Control System

GIT



Graphics by Markus Neteler, Ten years of OSGeo, XVII Meeting degli utenti italiani di GRASS e GFOSS, Parma, 11-12 Feb 2016

Success. Is it in numbers?



Success. Is it in the events organized?



FOSS/GRASS USERS CONFERENCE
12-14 SEPTEMBER 2004
BANGKOK, THAILAND

Presented by **FOSS/GRASS 2004 International Organizing Committee**

Free/Libre and Open Source Software for Geoinformatics: GIS-GRASS Users Conference

Held at Chulalongkorn University
Department of Survey Engineering
Patumwan
Bangkok, Thailand
10330

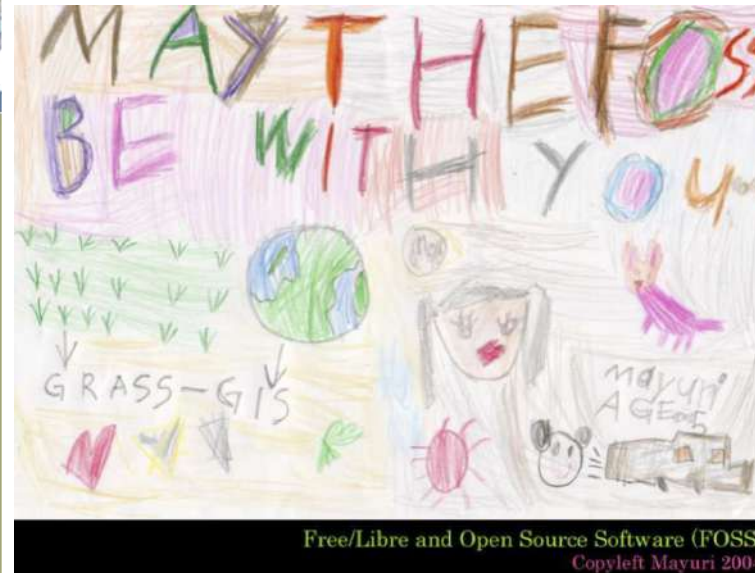
September 12 - 14, 2004

ABOUT THE CONFERENCE

The Free/Libre and Open Source Software (FOSS) for Geoinformatics: GIS - GRASS Users Conference will be held in Bangkok, Thailand, 12-14 September 2004. An extended successor to a long series of GRASS-GIS Users Conferences (last held on September 2002 in Trento, Italy), the series will be in Asia for the first time. The conference joins GRASS developers and users worldwide to foster closer relations, and to share ideas for improving software and applications. (Unlike at closed-source software users meetings, anyone can turn findings of this meeting into new code and improved applications.) The Bangkok conference will cover all aspects of FOSS for Geoinformatics, in addition to GRASS itself. Thus the aim of the conference is twofold: (a) exchange of experiences between GRASS users and developers and (b) provide first-hand information on FOSS capabilities for developing national/local spatial data infrastructures, with emphasis on Asian countries. One unique aspect of the conference will be the **INSTALLFEST**. Bring your computer (or buy one in Bangkok), install GRASS and other geoinformatics software, and begin to use it, all at the conference!

Venue and Organizers

The conference is being organized by the Faculty of Engineering, Chulalongkorn University, Thailand, with support from several other institutions. The Organizing Committee includes prominent experts in FOSS for Geoinformatics.

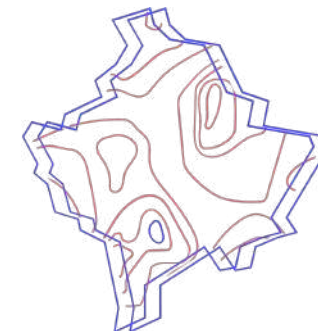


<https://gisws.media.osaka-cu.ac.jp/grass04/>

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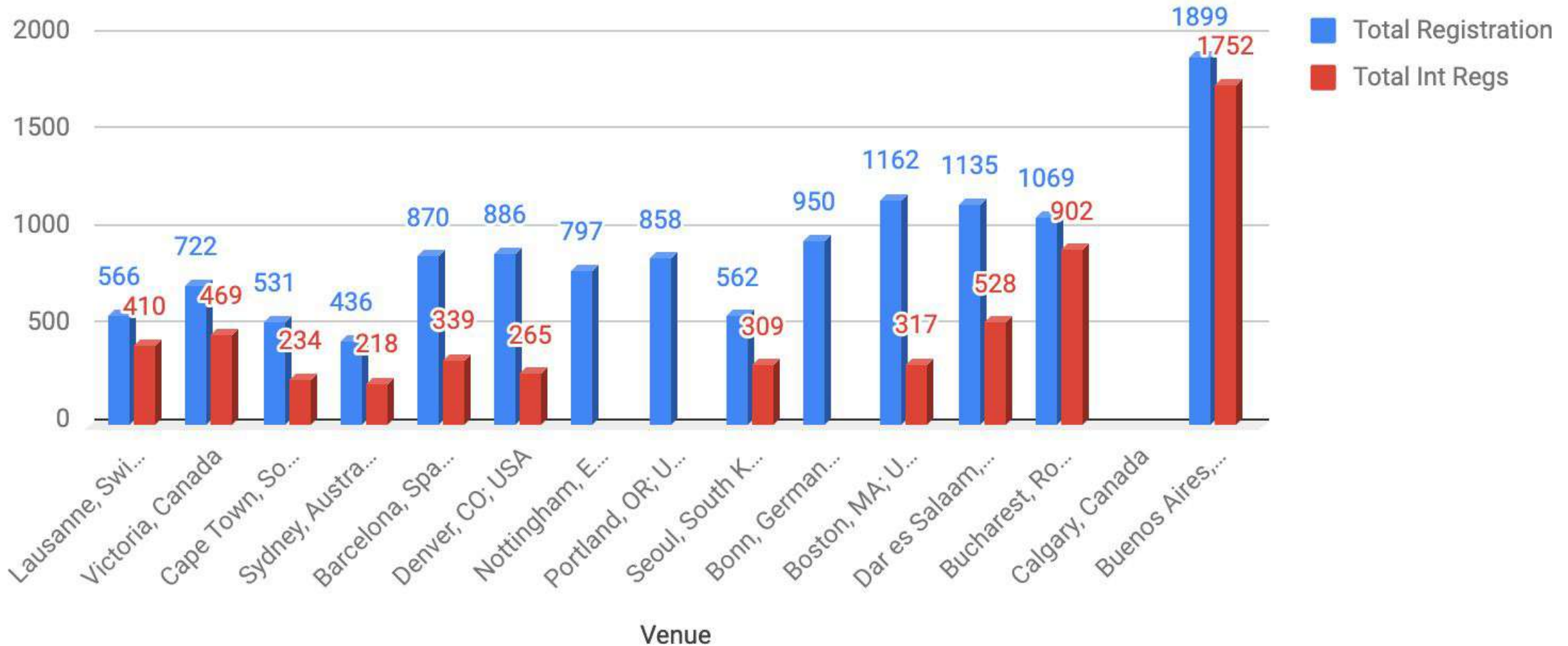


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Total Registration and International Participation



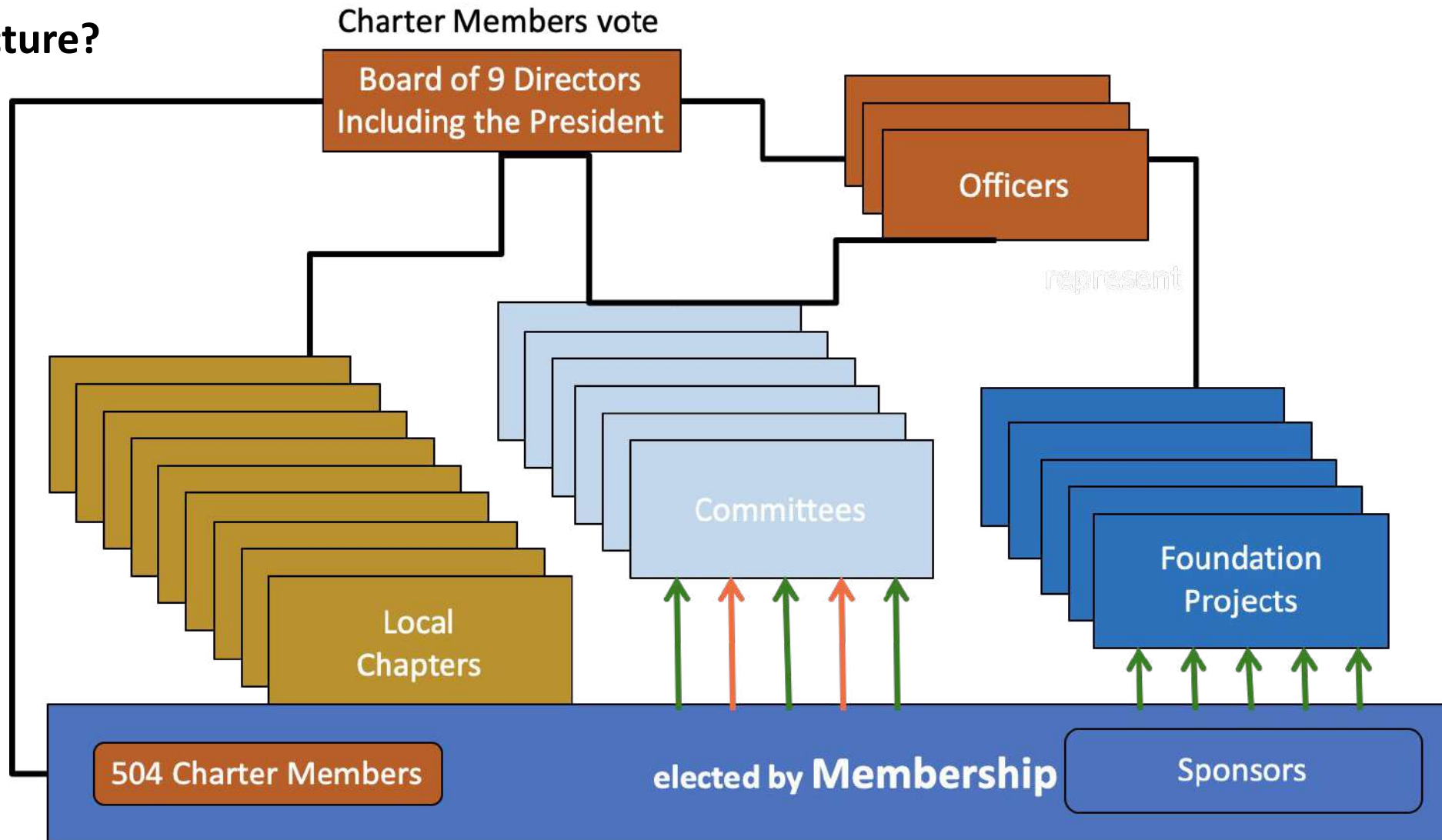
Source: numbers gathered from each LOC by Michael Turner.

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Success. Is it in the structure?



Incubation committee

2. Committee chair informs the OSGeo board, who appoints the project team as a newly formed OSGeo committee

Incubation [edit]

The following projects are currently in OSGeo incubation. The links provided are used to track the progress of incubation projects and are used by the developer team (and OSGeo mentor). In many cases the links will take you to project specific wiki or website in order to be closer to their target community.

When projects have completed the graduation checklist their mentor will recommend them to the Incubation committee for graduation.

IstSOS [edit]

IstSOS: <http://wiki.osgeo.org/wiki/IstSOS>

1. IstSOS Provenance Review
2. IstSOS Incubation Status
3. *Mentor*: Jeff McKenna

Opticks [edit]

Opticks: <http://opticks.org>

1. Opticks Incubation Status
2. no provenance review provided
3. Opticks Incubation Checklist
4. *Mentor*: Mark Lucas

Oskari [edit]

Oskari: <http://oskari.org/>

1. Oskari Incubation Application
2. Oskari Incubation Status
3. Oskari Graduation Checklist
4. *Mentor*: Arnulf Christl

TEAM Engine [edit]

TEAM Engine: <http://teamengine.sourceforge.net/>

1. Incubation Application from 2012
2. TEAM Engine Incubation Checklist
3. *Mentor*: Jody Garnett

ZOO-Project [edit]

ZOO-Project: <http://www.zoo-project.org/>

1. ZOO-Project_Incubation_Status
2. Provenance Review
3. ZOO-Project Incubation Checklist
4. *Mentor*: Dimitris Kotzinos

Graduated [edit]

The following status and provenance documents are for historical purposes, and are no longer actively maintained.

- Community Mapbuilder: Community Mapbuilder Incubation Progress | Community Mapbuilder Provenance Review (Entered 2006-02-04, Graduated 2006-07-14, Mentor: Steve Lime)
- deegree: deegree Incubation Status | deegree Provenance Review (Entered: 2008-06-09, Graduated 2010-02-04, Mentor: Jody Garnett)
- FDO: FDO Incubation Status | FDO Provenance Review (Entered 2007-03-06, Graduated 2008-02-06, Mentor: Daniel Morissette)
- GEOS: GEOS Incubation Status | GEOS Provenance Review (Entered 2007-11-02, Graduated 2012-04-28, Mentor: Frank Warmerdam)
- GDAL/OGRE: GDAL Incubation Progress | GDAL Provenance Review (Entered 2006-02-04, Graduated 2008-02-08, Mentor: Paul Spencer)

Project Steering Committee



wiki: [PSC](#)

[WIKI](#) [TIMELINE](#) [ROADMAP](#) [BROWSE SOURCE](#)

GRASS Project Steering Committee (PSC)

Table of Contents

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[Former members](#)
[Former chair persons](#)
[See also](#)

Members

Chair: **Verónica Andreo**, AR

- **Verónica Andreo**, AR ([veroandreo * gmail.com](mailto:veroandreo@gmail.com)) [Home page](#). National Research Council (CONICET) - Argentinian Space Agency (CONAE), AR
- **Michael Barton**, USA ([michael.barton * asu.edu](mailto:michael.barton@asu.edu)) [Home page](#). Arizona State University, USA
- **Huidae Cho**, USA ([grass4u * gmail.com](mailto:grass4u@gmail.com)) [Home page](#). New Mexico State University, USA
- **Martin Landa**, Czech Republic ([martin.landa * fsv.cvut.cz](mailto:martin.landa@fsv.cvut.cz)) [Home page](#). Czech Technical University in Prague, CZ
- **Moritz Lennert**, Belgium ([mlennert * club.worldonline.be](mailto:mlennert@club.worldonline.be)) [Home page](#). Bluesquare, Brussels, BE
- **Helena Mitasova**, USA ([hmitaso * ncsu.edu](mailto:hmitaso@ncsu.edu)) [Home page](#). Center for Geospatial Analytics (CGA), North Carolina State University, Raleigh NC, USA
- **Markus Neteler**, Germany ([neteler * osgeo.org](mailto:neteler@osgeo.org)) [Home page](#). mundialis, Bonn, DE
- **Vaclav Petras**, USA ([wenzeslaus * gmail.com](mailto:wenzeslaus@gmail.com)) [Home page](#). CGA, North Carolina State University, Raleigh NC, USA
- **Anna Petrášová**, USA ([kratochanna * gmail.com](mailto:kratochanna@gmail.com)) [Home page](#). CGA, North Carolina State University, Raleigh NC, USA

PSC tasks

- The PSC has its own public [Mailing List](#).
- The Project Steering Committee maintains the **Agenda** with dates for issues that need voting.
- List of RFCs and Motions:
 - [Request For Comment \(RFC\) List](#)
 - [PSC Motions](#)
- The PSC is responsible for [granting SVN / GitHub write access](#) to new core/addon developers.

Minutes

Minutes of PSC meetings can be found on the dedicated [Minutes page](#)

Elections

- [Election 2020](#) (completed in Jan. 2021)
- [Election 2016](#) (completed in Aug. 2016)
- [Election 2012](#) (completed in Nov. 2012)

How membership works

- **Open, free** membership
- **Participants:** sign up to mailing lists, take part in events, help out on the projects, send pull requests, report bugs etc.
 - 36229 “unique-subscribers” on our mailing lists on Aug 1st 2021
- **Members:** self-declared on the wiki (volunteer driven)
 - >1500 members on the web site
- **Charter Members:** elected yearly after nomination by other charter members. Get to vote on the board elections.
 - 504 elected charter members
- **Board of Directors:** Up to 9 directors, 2 year term.

Success. Is it in the projects under the OSGeo umbrella?

Projects: osgeo.org/projects/

- OSGeo projects:
 - official projects passed graduation through incubation committee
 - **21 projects** (+1 heritage project)
- Community projects
 - the barrier for community projects is lower than for official ones, but they also need confirmation by incubation committee
 - **28 community** projects

OSGeo Projects

Community projects

[View all projects](#) >

[Choose a project](#) >

> OSGeo Projects

> Content Management Systems

GeoNode

Metadata Catalogs

GeoNetwork

pycsw

Desktop Applications

Marble

gvSIG Desktop

QGIS Desktop

GRASS GIS

Other

OSGeoLive

Web Mapping

MapServer

deegree

OpenLayers

GeoMoose

Mapbender

PyWPS

GeoServer

Geospatial Libraries

PROJ

GeoTools

Orfeo ToolBox

GDAL/OGR

GEOS

Spatial Databases

PostGIS

OSGeo Projects >

Community projects >

[View all projects](#) >

[Choose a project](#) >

Community projects

Desktop Applications

OSGeo4W

Opticks

Geospatial Libraries

PROJ-JNI

GeoStyler

Open Data Cube

Mesh Data Abstraction Library (MDAL)

actinia

Pronto Raster

OWSLib

FDO

OSSIM

pgRouting

Metadata Catalogs

Other

GeoServer Client PHP

Loader

GeoHealthCheck

Portable GIS

TEAM Engine

Spatial Databases

MobilityDB

rasdaman

Web Mapping

GeoExt

pygeoapi

GC2/Vidi

GeoWebCache

MapGuide Open Source

mapfish

Geomajas

ZOO-Project

istSOS

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OSGeo Live 15.0

<https://live.osgeo.org/en/index.html>

Quick Starts

- [Getting started with OSGeoLive](#)
- [Change language or keyboard type](#)
- [Install OSGeoLive to Hard Disk](#)
- [Running in a Virtual Machine](#)
- [Creating an OSGeoLive Bootable USB flash drive](#)
- [Running in a Hyper-V Virtual Machine](#)
- [Command Line basics](#)

Presentation

A half hour [presentation](#), highlighting all OSGeoLive applications, is available with slides, script



Success. Is it in the collaborations of OSGeo with other organizations?

• Working with our partners:

- **Open Source:** a collaborative approach to software development.
- **Open Data:** freely available information to use as you wish
- **Open Standards:** avoid lock-in with interoperable software
- **Open Education:** removing the barriers to learning and teaching
- **Open Science:** share data and software for responsible research



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Memorandum of Understanding

<https://wiki.osgeo.org/wiki/>



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<https://www.youtube.com/c/OSGeoFoundation>

YouTube ^{CZ}

osgeo

www.osgeo.org



OSGeo

Annual General Meeting 2021

Open Source Geospatial Foundation



0:00 / 1:20:59 Introduction > Barbita

OSGeo AGM 2021

486 views · 25 Sept 2021

👍 20 🗨 DISLIKE ➦ SHARE ⬇ DOWNLOAD ✂ CLIP ≡+ SAVE ...

 **OSGeo**
391 subscribers

SUBSCRIBE

www.osgeo.org

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Others might say success is in sponsorship!

Platinum sponsors



Gold sponsors



Silver sponsors



Bronze sponsors



[How 2 Map](#)

Traceability & Transparency

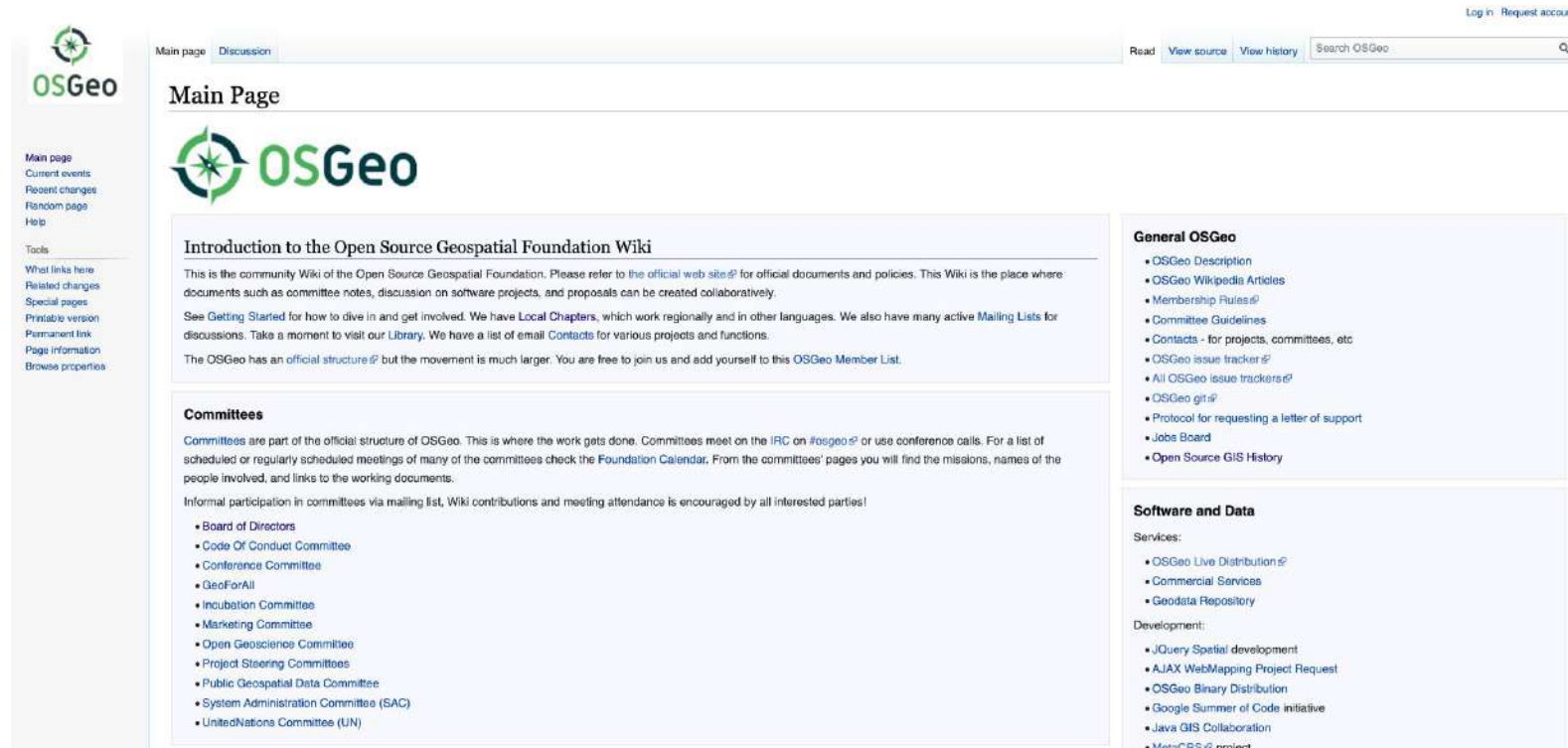
All board activities and decisions are recorded and published online (wiki, website etc.)

Meetings agenda & minutes - IRC/ Jitsi

https://wiki.osgeo.org/wiki/Board_of_Directors#Board_Activities_and_Meetings

Decisions : <https://www.loomio.org/g/kdSmlwxu/osgeo-board>

Budget - https://wiki.osgeo.org/wiki/OSGeo_Budget_2022;



The screenshot shows the OSGeo Wiki Main Page. At the top, there is a navigation bar with 'Main page' and 'Discussion' tabs, and a search box. The main content area features the OSGeo logo and an 'Introduction to the Open Source Geospatial Foundation Wiki' section. Below this, there is a 'Committees' section listing various committees such as the Board of Directors, Code Of Conduct Committee, and Conference Committee. On the right side, there are two sidebar sections: 'General OSGeo' with links to descriptions, rules, and guidelines, and 'Software and Data' with links to live distribution, commercial services, and development resources.

So.. what is 'successful OS communities'?



We, at OSGeo, believe it is all that, **together.**

FOSS4G 2019, Bucharest, Romania

Take-away

What did we learn so far?

- Community is crucial
- Traceability and accountability
- Governance and procedures (ex: incubation committee, conference committee, Code of Conduct etc.)

What are the challenges?

- Understanding and supporting the *real* spread of the geospatial foss4g ecosystem
- Financial support: OSGeo <> NumFocus, Open Collective
- Building diversity and promoting inclusiveness

Take-away

You want to tap into the OSGeo Community?

How to work with OSGeo



As an organization: MoU, sponsor, participate at OSGeo events

As an individual: participant, member, charter member etc.

As a project: you have a project? Take the first step: include your project into OSGeo Live, take the second step: apply to become an OSGeo Community project to get to incubation

- **Join/contribute to a Project:** code, sponsorship, documentation writing, translations, presentations/workshops, bug reports, use in classroom etc.
- **Join a committee**
- **Join an initiative (GeoForAll, GSoC, Travel Grant, Standards)**
- **Host/organize events (code sprints)**
- **Outreach:** Help maintain the web site, contact governments/organizations to promote FOSS.
- **Get involved in Partnership buildup (e.g. Sponsorship, Standards, OGC, MOUs)**
- **Join/build Local Chapters**



Take-away



Open (source/data/education/science) is a mentality.

What does OSGeo provide: channels to an extensive community.

but **YOU** have to do your part of the work - OSGeo is a do-acracy!

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Thank you!

discuss@lists.osgeo.org

<https://twitter.com/OSGeo>

Link to the Telegram channel:

t.me/OSGeoorg

Link to the Matrix Telegram bridge -

<https://matrix.to/#/#general:osgeo.org>

www.osgeo.org

lists.osgeo.org Mailing Lists

Welcome!

Below is a listing of all the public mailing lists on lists.osgeo.org. Click on a list name to get more information about the list, or to subscribe, unsubscribe, and change the preferences on one, but with a '/' and the list name appended.

List administrators, you can visit [the list admin overview page](#) to find the management interface for your list.

If you are having trouble using the lists, please contact mailman@lists.osgeo.org.

List	Description
Africa	Africa local chapter discussions
Alberta	Alberta, Canada provincial OSGeo local chapter mailing list
Announce	OSGeo Announcements and News
Argentina	Geoinquietos Argentina
AtlanticCanada	Atlantic Canada Local Chapter of OSGeo
Barcelona	Geoinquiets Barcelona
Belgium	OSGeo Belgium discussion
Belgium-Announce	OSGeo Belgium Announce list
Benchmarking	Performance testing of OSGeo and other web service engines.
Board	OSGeo Board of Directors Discussion
Board-ar	OSGeo Argentina Board discussions
Board-es	OSGeo Espanol Board
Board-fr	Francophone LC Board mailing list of the legal association OSGeo-fr
Bolivia	Lista de correo de OSGeo Bolivia
Bootcamp08	Ottawa Open Source Boot Camp'08
Boston	Boston OSGeo Enthusiasts Discussion
Brasil	OSGeo Brasil
California	OSGeo California (USA)
Can_rnf	Canadian Road Network File Improvement Project
Cantabria	Lista de correo de GeoInquietos Cantabria
Carto	Cartographic meta-project for print quality output
cat-interop	Improving interoperability between open source metadata servers and clients.
CBERS-PDS	CBERS Public Dataset Discussion
COC-discuss	Discussion list for the OSGeo Code Of Conduct Committee
COG	Cloud Optimized GeoTIFF mailing list
Conference-Europe	Organization and discussion about FOSS4G in Europe
Conference-workshops	FOSS4G conference workshops subcommittee
Conference_dev	OSGeo/FOSS4G Conferences Discussion List