OPEN DATA
& OPEN KNOWLEDGE
Workshop
OSGEO: THE UNDERWATER PILLAR OF OPEN GEOKNOWLEDGE

Codrina Maria Ilie, OSGeo Board of Directors member
About me

• Member of the Romanian geospatial community geo-spatial.org for more than 14 years

• Vice-president of Romanian OSGeo Local Chapter geo-spatial.org since 2015

• OSGeo Charter Member since 2013

• OSGeo elected director in the board (2020 - 2022, 2022 - 2024)

• Open Knowledge International Foundation collaborator since 2014

• GIS/RS scientist at TERRASIGNA since 2016
Open Source Geospatial Foundation

Empower everyone with open source geospatial
Wait a second...! Open Source in this session, on Private Sector, VHR & Cloud Providers ?!
Free and Open Source Software Characteristics

- Software is created and maintained by a group of people
- Typically, managed by an “Executive Editor” of the project
- Source code of software is freely available to use and change
- Use of software is governed by an “open license”
- Software is generally available free of license charges
<table>
<thead>
<tr>
<th>Free &amp; Open Source Software for Geospatial</th>
<th>Free Puppies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware/Cloud to run your FOSS4G software</td>
<td>Food</td>
</tr>
<tr>
<td>Your time to read and install software; and periodic software updates</td>
<td>Veterinary care</td>
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<tr>
<td>Obtaining specialized expertise for complex situations and/or problem solving</td>
<td>Equip: leash, food bowl, dog bed, etc.</td>
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<tr>
<td>etc., etc.</td>
<td>Toys; etc., etc.</td>
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Slide credits: “Is it wrong to make money with FOSS4G technology?” talk at FOSS4G 2022 by Michael Terner, michael.terner@hexagon.com, @ternergeo
Open Source Software is Big Business

What happens in tech, influences geo

Slide credits: “Is it wrong to make money with FOSS4G technology?” talk at FOSS4G 2022 by Michael Terner, michael.terner@hexagon.com, @ternergeo
Because there’s increasing customer interest in these technologies/approaches.
Request for Information

EO Exploitation Network of Platforms Architecture”
Infrastructure for Spatial Information in Europe

Figure 11. Overview of frequently used software tools for the provision (left) and the consumption (right) of INSPIRE data. Source: JRC, 2021.
Empower everyone with open source geospatial

- **OSGeo** is a not-for-profit software foundation
  - *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.
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
  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

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

### Desktop Applications
- Marble
- gvSIG Desktop
- QGIS Desktop
- GRASS GIS

### Metadata Catalogs
- GeoNetwork
- pycsw

### Other
- OSGeoLive

### Web Mapping
- pygeoapi
- MapServer
- deegree
- OpenLayers
- GeoMoose
- Mapbender
- PyWPS
- GeoServer

### Geospatial Libraries
- PROJ
- GeoTools
- Orfeo ToolBox
- GDAL/OGC
- GEOS

### Spatial Databases
- PostGIS
# OSGeo Community Projects

## Community projects

<table>
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<tr>
<th>Desktop Applications</th>
<th>Geospatial Libraries</th>
<th>Metadata Catalogs</th>
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<tr>
<td>OSGeo4W</td>
<td>PROJ-JNI</td>
<td>Other</td>
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<tr>
<td>Opticks</td>
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<td></td>
<td>Open Data Cube</td>
<td>GeoHealthCheck</td>
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<td>Mesh Data Abstraction Library (MDAL)</td>
<td>Portable GIS</td>
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<td>TEAM Engine</td>
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<td>OWSLib</td>
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<td>FDO</td>
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<td></td>
<td>OSSIM</td>
<td>MobilityDB</td>
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<td>pgRouting</td>
<td>rasdaman</td>
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## Web Mapping

- GeoExt
- GC2/Vidi
- GeoWebCache
- MapGuide Open Source
- mapfish
- Geomajas
- ZOO-Project
- 1stSOS
OSGeo structure

Charter Members vote

Board of 9 Directors
Including the President

Officers

Committees

Local Chapters

Foundation Projects

504 Charter Members

elected by Membership

Sponsors

Slide credits: Graphics by Markus Neteler, Ten years of OSGeo, XVII Meeting degli utenti italiani di GRASS e GFOSS, Parma, 11-12 Feb 2016. Updated 2022
• 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
OSGeo - Google Summer of Code


Google Summer of Code 2022 Ideas

- Back to the main OSGeo Google Summer of Code 2022 wiki page.
2021 OSGeo UN Committee Educational Challenge

Proposals are invited for developing open geospatial educational material for two challenges with a prize money of USD 3,000 each, sponsored by OSGeo.
https://www.osgeo.org/initiatives/geo-for-all/

Geo for All Labs

[World map with various locations marked]
Memorandum of Understanding
Collaboration with Group on Earth Observations (GEO)

The Group on Earth Observations (GEO) and the Open Source Geospatial Foundation (OSGeo) are collaborating around their shared visions of openness. For GEO this means open data, open standards, and open science; for OSGeo this means free and open source software.
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_2023
May the FOSS be with you!

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

2006 Lausanne (Switzerland), 2007 Victoria (Canada), 2008 Cape Town (South Africa), 2009 Sydney (Australia), 2010 Barcelona (Spain), 2011 Denver (United States of America), 2013 Nottingham (United Kingdom), 2014 Portland (United States of America), 2015 Seoul (South Korea), 2016 Bonn (Germany), 2017 Boston (United States of America), 2018 Dar es Salaam (Tanzania), 2019 Bucharest (Romania), 2021 Buenos Aires (Argentina), 2022 Firenze (Italy), 2023 Prizren (Kosovo)
● 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

“We are a Do-Ocracy”
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.

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