OPEN INNOVATION FOR EUROPE

PARIS | MARNE-LA-VALLÉE
JULY 18th – 22nd 2017
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Welcome

For its third edition, we are glad to welcome the **FOSS4G Europe 2017** at Ecole Nationale des Sciences Géographiques (ENSG) in Marne La Vallée, France, from July 18th to 22nd, 2017. The event is jointly organized by GeoLabs SARL, IGN-ENSG, the OSGeo foundation and OSGeo-FR. We are very glad to welcome you all in this great venue for an outstanding conference week.

**FOSS4G Europe 2017** will follow the traditional schedule, starting with the FOSS4G workshops on July 18th which give you the opportunity to meet the experts and learn about the latest geospatial software during these 2 or 4 hours hands-on sessions.

FOSS4G has always been a place where discussion happens, knowledge is shared and new ideas arise. This year we are honored to propose a particularly rich, diversified and high quality program over three conference days, from July 19th to 21st. The conference general and academic tracks indeed relates the latest FOSS4G developments, technics and case studies for a great perspective on **Open Innovation for Europe**.

This year edition also includes Topic Talks and the Bird Of Feather sessions to encourage discussions on important topics in order to better shape the future of Open Source Geospatial together. We are also hosting a Missing Maps Mapathon on July 19th and the traditional FOSS4G Code Sprint will of course close the event on July 22nd.

On the first day, an ice-breaker will be open to attendees that have already recovered their badge. On July 20th, the social dinner will also take place in a traditional french "guinguette" to enjoy popular french food, dance and share drinks together.

We gratefully thank our generous sponsors and institutional partners whose contributions make this event possible. We also want to thank all the organizing committee members, especially chairs and volunteers who worked hard over the year to build the best conference experience. A special thank goes to In2Events for their professionnal support as organizing secretariat.

As the conference chairs and on behalf of the organizing commitee, we hope that you will enjoy and actively contribute to the **FOSS4G Europe 2017** event.

Have a great time, share your knowledge and have fun with the FOSS4G community!

---

**Gérald Fenoy & Nicolas Paparoditis**

Chairs of **FOSS4G Europe 2017**
FOS4GE

WELCOME TO ENSG

Ecole Nationale des Sciences Géographiques (ENSG) is a building of choice to host FOSS4G Europe 2017.

An established GIS university campus in France, our venue offers large amphitheaters, comfortable rooms and a large lobby and where the exhibition spaces and FOSS4G life will take place.

FOSS4G COMMUNITY

FOSS4G Europe 2017 is the annual meeting of the open source geospatial communities from all over Europe. Meet and engage with these lively groups, teams and user groups during the workshops, conference, exhibition, social events and code sprint.

FOSS4G Europe 2017 aims at fostering closer interactions amongst the European geospatial communities, support the collaborative development of open source geospatial software, and promote its widespread use.
Sponsors

Gold

Silver

Supporters

Institutional Partners

Media Partners
**General information**

**Welcome Desk opening hours**

Tuesday 18th July: 08:00-18:00  
Wednesday 19th July: 08:00-18:00  
Thursday 20th July: 08:30-18:00  
Friday 21st July: 08:30-18:00

**Exhibition opening hours**

Wednesday 19th July: 09:00-18:00  
Thursday 20th July: 09:00-18:00  
Friday 21st July: 09:00-16:30

**Conference Dinner (optional)**

The social dinner will take place at the restaurant «Chez Gegène» on Thursday 20th July at 19:45. Shuttle bus service will be organised between ENSG and Chez Gège. All information will be available at the welcome desk.

**Participant badge**

A name badge will be provided with your registration documents on site. For security and regulation purposes, the wearing of the badge is compulsory at all times inside the conference venue and social events. Should you lose your badge, please go to the Welcome desk for assistance.

**Speakers Desk**

The Speaker’s desk is located next to the welcome desk. All speakers are kindly requested to hand in their presentation to the staff of the speaker’s desk the day before their presentation if possible, or minimum 4 hours prior to their oral presentation.

**Poster Area**

The posters are located within the exhibition. Meet the author during the morning- and afternoon coffee breaks on Thursday 20th July.

**Insurance & Liability**

Participants are advised to provide their own personal insurance. Neither the organisers nor In2Events will assume any responsibility whatsoever for damage and injury to persons or property during the conference.
Copernicus is the European Commission’s flagship Earth Observation programme that delivers freely accessible operational data and information services. ECMWF has been entrusted to operate two key parts of the Copernicus programme and is assisting with a third to bring a consistent standard to the measurement, forecasting and predicting of atmospheric conditions and climate change:

- The Copernicus Atmosphere Monitoring Service provides daily forecasts detailing the makeup composition of the atmosphere from the ground up to the stratosphere.

- The Copernicus Climate Change Service will routinely monitor and analyse around 20 essential climate variables to build a global picture of our climate, from the past to the future, as well as developing customisable climate indicators in relevant economic sectors.

- The Copernicus Emergency Management Service supports improvements to flood forecasting and understanding of the frequency, variability and consequences of extreme weather.

The European Centre for Medium-Range Weather Forecasts (ECMWF) is an international organisation which specialises in numerical weather prediction and is supported by many European states.
GeoCat was established in the Netherlands in 2007 by GeoNetwork founder- Jeroen Ticheler. GeoCat offers software and services making geospatial data sharing easier and more efficient than ever. GeoCat builds sustainable applications following the Free and Open Source Software philosophy. By focusing on open standards the open source solutions can be easily combined with proprietary GIS software to enable hybrid infrastructures. GeoCat has provided successful consulting services and products to the development of organisational, national and international Spatial Data Infrastructures (SDI) for the Netherlands, Spain, Switzerland, Sweden, Finland, Canada, Austria, Germany, United Kingdom, Scotland, Belgium, Turkey, EEA (European Environment Agency), EuroSTAT (Statistical Office of the European Union), JRC (Joint Research Centre), ESA (European Space Agency) and many others. In other words, GeoCat has helped many organisations publishing data to an open source server platform in accordance with ISO/OGC/INSPIRE regulations, and other relevant country regulations. “We offer cutting-edge software and solutions, services, professional support and training that make publishing geospatial data on internet easier and more efficient than ever.”

GeoSolutions is highly specialized in the processing and dissemination of raster and vector geospatial data with Open Source software according to the specifications created by Open Geospatial consortium (OGC) and the ISO Technical Committee 211 which provide the base building blocks for the INSPIRE regulations. The GeoSolutions team is composed by renowned international professionals with leading roles in some of the main Open Source products for the geospatial field like GeoServer, GeoNode, GeoNetwork and MapStore for which GeoSolutions provides professional support services. GeoServer, the Open Source server for the management and interoperable dissemination of geospatial data according to the OGC, ISO and INSPIRE standard; GeoNetwork, the Open Source catalogue server for the management and dissemination of geospatial metadata according to the OGC, ISO and INSPIRE standards; GeoNetwork, the Open Source catalogue server for the management and dissemination of GeoSpatial metadata according to the OGC and ISO as well as INSPIRE standards; MapStore the innovative web-mapping solution to create, save, browse and share in a simple and intuitive way mashups created using content from sources server like Google Maps and OpenStreetMap or from servers provided by your organization or anyone else. GeoNode is a web-based application and platform for developing geospatial information systems (GIS) and for deploying spatial data infrastructures (SDI). It is designed to be extended and modified, and can be integrated into existing platforms. Lastly, GeoSolutions is ISO 9001:2008 certified for the design and development of software and related provision of consultancy and support. Design and delivery of bespoke training courses on the developed software.
Since 2012, Melown Technologies has specialized in mass-scale computer vision-based modeling of urban and natural landscapes from aerial imagery. As a major part of this process, we developed advanced 3D visualization technology, which allows interactive web-based rendering of these landscapes, from street-level details to the planetary scale. The rendering stack, codenamed VTS, has since been extended to include a native C++ implementation and massively powerful server-side data integration functionality. VTS is not a mere JS library and not a mere geospatial data server; rather, it is a fully integrated rendering and visualization stack providing everything needed to travel the long road from server-side data storage to the client browser or desktop. The entire Melown VTS rendering stack is now released as open source under the BSD 2-clause license on GitHub. It comprises six main projects with over 20 supporting repositories under the BSD 2-clause license. These include web and desktop rendering engines and C++-based backend components integrating various types of geospatial data. Those components allow you to operate a unique full-stack 3D visualization platform on your own infrastructure. FOSS4G Europe 2017 is the first major geospatial event taking place after the Melown VTS open-source release. We take part in fostering its broader adoption and usage in the GIS community to gather feedback from its nascent user base and to explain why contributing high-end geospatial technology to the open-source community actually works well for our business.

Esri, the global market leader in geographic information systems (GIS), offers the most powerful mapping and spatial analytics technology available. Since 1969, Esri has helped customers unlock the full potential of data to improve operational and business results. Today, Esri software is deployed in more than 350,000 organizations including the world’s largest cities, most national governments, 75% of the Fortune 500, and more than 7,000 colleges and universities. Esri engineers the most advanced solutions for digital transformation, IoT, and location analytics to create the maps that run the world. Visit us at esri.com/news
Situation map

General schedule

July 18th

ирует Workshops

July 19th

Conference day 1

July 20th

Conference day 2

July 21st

Conference day 3

July 22nd

Code Sprint
Code of conduct

Every FOSS4G Europe 2017 participant including attendees, speakers, volunteers or staff is expected to respect the event Code of Conduct. This code of conduct governs how we behave in any OSGeo event and whenever we will be judged by our actions. We expect it to be honored by everyone who participates in the FOSS4G Europe 2017 event.

This code is not exhaustive or complete. It serves to distill our common understanding of a collaborative, shared environment and goals. We expect it to be followed in spirit as much as in the letter, so that it can enrich all of us and the technical communities in which we participate.

The FOSS4G Europe 2017 event welcomes and encourages participation by everyone. We are committed to being a community that everyone feels good about joining, and we will always work to treat everyone well. No matter how you identify yourself or how others perceive you: we welcome you.

Harassment and other exclusionary behavior are not acceptable in everyday life nor during the FOSS4G Europe 2017 event. This includes, but is not limited to:

- Personal insults or discriminatory language, especially those using racist or sexist terms.
- Offensive comments, excessive or unnecessary profanity.
- Intimidation, violent threats or demands.
- Sustained disruption of sessions or events.
- Stalking, harassing photography or recording.
- Unwelcome physical contact or sexual attention.
- Repeated harassment of others. In general, if someone asks you to stop, then stop.
- Posting (or threatening to post) other people’s personally identifying information (“doxing”).
- Sharing private content, such as emails sent privately or non-publicly, or unlogged forums
- Advocating for, or encouraging, any of the above behavior.

If you believe someone is breaking this code of conduct, you may reply to them, and point to this code of conduct. Such messages may be in public or in private, whatever is most appropriate. Assume good faith; it is more likely that participants are unaware of their bad behaviour than that they intentionally try to degrade the quality of the discussion. Should there be difficulties in dealing with the situation, you may report your concerns to the FOSS4G Europe 2017 staff. Serious or persistent offenders may be expelled from the event by the organizers.
## Workshops

### Tuesday, July 18th

#### Morning Workshops

<table>
<thead>
<tr>
<th>Workshop</th>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS01</td>
<td>9:00-13:00</td>
<td>Melown</td>
<td>Jachym Cepicky, Stanislav Sumbera</td>
</tr>
<tr>
<td>WS02</td>
<td>9:00-13:00</td>
<td>Mapbender3: A powerful Geoportal Framework</td>
<td>Astrid Emde</td>
</tr>
<tr>
<td>WS03</td>
<td>9:00-13:00</td>
<td>Lizmap</td>
<td>René-Luc D’hont, Michael Douchin</td>
</tr>
<tr>
<td>WS04</td>
<td>9:00-13:00</td>
<td>Fully Open Monitoring System</td>
<td>Massimiliano Cannata, Milan Antonovic, Mirko Cardoso, Daniele Strigaro, Yann Chemin, Luca Delucchi</td>
</tr>
<tr>
<td>WS05</td>
<td>9:00-13:00</td>
<td>GML application schema made easy in GDAL/OGR and QGIS</td>
<td>Francois Prunayre, Even Rouault, Christian Ansorge, Sylvain Grellet, Hugo Mercier, Paul van Genuchten</td>
</tr>
<tr>
<td>WS08</td>
<td>11:30-13:30</td>
<td>Introduction to GeoNode</td>
<td>Alessio Fabiani</td>
</tr>
<tr>
<td>WS09</td>
<td>11:30-13:30</td>
<td>CARTO Builder</td>
<td>Jorge Sanz</td>
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<td></td>
<td>11:00-11:30</td>
<td>Coffee break</td>
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#### Afternoon Workshops

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<thead>
<tr>
<th>Workshop</th>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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</thead>
<tbody>
<tr>
<td>WS10</td>
<td>14:00-18:00</td>
<td>ZOO-Project Introduction</td>
<td>Niroshan Bandara, Gerald Fenoy, Venkatesh Raghavan, Nicolas Bozon</td>
</tr>
<tr>
<td>WS11</td>
<td>14:00-18:00</td>
<td>GeoNetwork open source</td>
<td>Paul van Genuchten, François Prunayre, Maria Arias de Reyna</td>
</tr>
<tr>
<td>WS12</td>
<td>14:00-18:00</td>
<td>Web mapping with OGC services and GeoServer</td>
<td>Andrea Aime</td>
</tr>
<tr>
<td>WS13</td>
<td>14:00-18:00</td>
<td>FOSS4G routing with pgRouting</td>
<td>Daniel Kastl, Vicky Vergara</td>
</tr>
<tr>
<td>WS14</td>
<td>14:00-18:00</td>
<td>TGRASS: temporal data processing with GRASS GIS</td>
<td>Veronica Andreo, Luca Delucchi, Markus Neteler</td>
</tr>
<tr>
<td>WS15</td>
<td>14:00-18:00</td>
<td>Land cover monitoring using open satellite data and open source software</td>
<td>Cedric Lardeux, Adrien Moiret</td>
</tr>
<tr>
<td>WS16</td>
<td>16:30-18:00</td>
<td>What can you do in 5 minutes with WebWorldWind?</td>
<td>Yann Voumard, Paulo Sacramento, Paul David Collins, Patrick Hogan</td>
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<tr>
<td>WS17</td>
<td>14:00-16:00</td>
<td>Geopaparazzi and gvSIG: never out of data in the field</td>
<td>Silvia Franceschi</td>
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<td>16:00-16:30</td>
<td>Coffee break</td>
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Conference

July 19th, 20th, 21st

Keynote speakers

The FOSS4G Europe 2017 conference LOC is pleased to welcome six leaders of open source geospatial as invited keynote speakers. The keynote talks will all take place in the Caquot amphitheater during the morning plenary sessions.

General track

The FOSS4G Europe 2017 General Track is the main event line with presentations on Free and Open Source Software for Geospatial technologies, projects and communities.

Academic GeoForAll track

The FOSS4G Europe 2017 Academic GeoForAll Track is co-organised by ISPRS, OSGeo and ICA. It relates progress of scientific research and experiences on using and teaching Free and Open Source Software.

Topic talks

The FOSS4G Europe 2017 Topic Talks are community-oriented open discussions occurring every day in the L006 room.
Keynote speakers

July 19th, 20th, 21st

'Tech trends and openness in the geospatial world'

**Athina Trakas**
Services Director Europe, Central Asia & Africa
Open Geospatial Consortium

'United Nation OpenGIS Initiative'

**Kyoung-Soo Eom**
Chief of Geographical Information Section
United Nations

'The Future of Geo is Open'

**Suchith Anand**
Researcher, OSGeo Charter Member
University of Nottingham

'Why Open Source Software? the ESA's Exploitation Platform experience'

**Salvatore Pinto**
Exploitation Platforms Principal System Architect
RHEA c/o European Space Agency

'Passport in my shoe'

**Jeff McKenna**
Director
Gateway Geomatics

'OSGeo: Where Do We Come From? What We Are? and Where Are We Going?'

**Venkatesh Raghavan**
Professor, OSGeo Foundation President
Osaka City University
Conference Day 1

Wednesday, July 19th morning

Chairs: Maria Bovelli, Jean-Baptiste Henry

9:00
Opening plenary
Gérald Fenoy, Nicolas Paparoditis

9:30
OSGeo: Where Do We Come From? What We Are? and Where Are We Going?
Venkatesh Raghavan

10:00
Tech trends and openness in the geospatial world
Athina Trakas

10:30
Sponsor session - ECMWF Copernicus
Copernicus, the European Union’s flagship for climate and atmospheric analysis - Anabelle Guillory

10:45
Coffee break & poster discussion

GENERAL TRACK

CAUCHY
Application development
Chair: Markus Neteler

11:00
GDAL 2.2: what’s new?
Even Rouault

11:30
Advanced geospatial technologies:
The new powerful GRASS GIS 7.2 release
Markus Neteler

NAVIER
Benchmarking & transition
Chair: Martin Desruisseaux

11:00
Examining The Spatial Dynamics of Economic Globalisation: A Tale of using Open Source Technologies
Anthonia Ijeoma Onyeahialam

12:00
What’s new in Orfeo ToolBox 6.0?
Victor Poughon, Julien Michel, Guillaume Pasero, Rémi Cresson

PICARD
Transition to FOSS4G
Chair: Jody Garnett

11:00
Four-letter word
Iván Sánchez Ortega

12:00
Adressing referencing issues with new standards, and introduction to Apache Spatial Information System (SIS)
Martin Desruisseaux

BIENVENUE
Open Data Collections
Chair: Maria Bovelli

11:00
Urban data collection using a bike mobile system with a foss architecture
A. Abdul Jabbar, I. Aicardi, N. Grasso, M. Piras

12:00
High resolution global gridded data for use in population studies
C. T. Lloyd

12:30
Lunch break

14:00

ACADEMIC TRACK

Remonterletemps.ign.fr: The geospatial time machine built upon open-source components
Thomas Tilak

Understanding the Flexibility of Open Source
Jody Garnett

Struggling with the Open Community
Ilya Zverev

Building a geographic data repository for urban research with free software – learning from observatorio.cedeus.cl
S. Steiniger, H. de la Fuente, C. Fuentes, J. Barton, J.-C. Muñoz
Wednesday, July 19th afternoon

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<th>CAUCHY</th>
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<tr>
<td><strong>Application development</strong>&lt;br&gt;Chair: Codrina Maria Ilie</td>
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<tr>
<td>14:00</td>
<td>Assessment of the digital openness of the geospatial dimension&lt;br&gt;Codrina Maria Ilie</td>
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<td>14:30</td>
<td>Inspiring European data providers through open source geospatial software&lt;br&gt;Bernd De Roo, Dirk Frigne, Alexander Kotsev, Robin Smith, Michael Lutz</td>
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<th>NAVIER</th>
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<tr>
<td><strong>Application development</strong>&lt;br&gt;Chair: Ivan Sanchez Ortega</td>
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<td>14:00</td>
<td>State of the art of WebGL map viewers&lt;br&gt;Íván Sánchez Ortega</td>
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<td>14:30</td>
<td>CARTO 2017&lt;br&gt;Jorge Sanz, Ernesto Martínez</td>
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<th>PICARD</th>
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<tr>
<td><strong>Transition to FOSS4G</strong>&lt;br&gt;Chair: Sanghee Shin</td>
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<tr>
<td>14:00</td>
<td>Serving successfully millions of 3D objects in a browser&lt;br&gt;Loïc Gasser, Olivier Terral</td>
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<td>14:30</td>
<td>Melown 3D mapping stack&lt;br&gt;Ondřej Procházka, Jáchym Čepický, Stanislav Sumbera</td>
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<tr>
<td><strong>Data Processing</strong>&lt;br&gt;Chair: R. Venkatesh</td>
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<td>14:00</td>
<td>The extraction of indoor building information from BIM to OGC IndoorGML&lt;br&gt;Tee-Ann Teo, Sz-Cheng Yu</td>
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<tr>
<td>14:30</td>
<td>Can reconstructed land surface temperature data from space predict a west Nile virus outbreak?&lt;br&gt;V. Andreoa, M. Metz, M. Neteler, R. Rosa, M. Marcantonio, C. Billinis, A. Rizzoli, A. Papa</td>
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| 15:00 | Assess the OSM data quality starting from contribution history<br> Damien Garaud, Raphaël Delhome, Hugo Mercier, Olivier Courtin | | |
| 15:30 | **Coffee break** | | |

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<td><strong>Application development</strong>&lt;br&gt;Chair: Joachim Ungar</td>
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<td>16:00</td>
<td>GeoNode, the Open Source geospatial CMS&lt;br&gt;Alessio Fabiani</td>
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<td>16:30</td>
<td>A cloudfree Europe with Sentinel-2&lt;br&gt;Joachim Ungar, Stephan Meißl</td>
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<td>17:00</td>
<td>Standardized access and processing of Earth Observation data within a regional data middleware system&lt;br&gt;Jonas Eberle, Franziska Zander, Christiane Schmullius</td>
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<tr>
<td><strong>Visualization, Analysis and Manipulation of Geodata</strong>&lt;br&gt;Chair: Jorge Sanz</td>
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<td>16:00</td>
<td>A series of unfortunate maps&lt;br&gt;Jorge Sanz, Ramiro Azonar</td>
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<td>16:30</td>
<td>Magrit: a new thematic cartography application&lt;br&gt;Matthieu Viry, Timothée Giraud, Nicolas Lambert</td>
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<tr>
<td>17:00</td>
<td>Make It Rain with Mapbox GL&lt;br&gt;Franz Neubert, Timmo Freudi-Gierke</td>
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<td>16:00</td>
<td>Mobile application for 3D real-time visualization for Outdoor sports competitions (LIS3D)&lt;br&gt;Thierry Pagès, Régis Beuscart, Julien Soula, Anne Quesnel-Barbet</td>
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<tr>
<td>16:30</td>
<td>The theory of Space Syntax and its application using open source tools and libraries&lt;br&gt;Stephen Law, Ioanna Kovalou</td>
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<tr>
<td>17:00</td>
<td>Portable Antiquities of the Netherlands&lt;br&gt;Niek van Ruler, Kiki Smullenbroek, Maarten van Veen, Ronnie Lassche</td>
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<tr>
<td><strong>Case studies</strong>&lt;br&gt;Chair: Marijke Molema</td>
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<td>16:00</td>
<td>An integrated approach for linked data browsing&lt;br&gt;W. Beek, E. Folmer</td>
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<tr>
<td>16:30</td>
<td>GEOYASGUI: the geosparql query editor and result set visualizer&lt;br&gt;W. Beek, E. Folmer, L. Rietveld, J. Walker</td>
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<tr>
<td>17:00</td>
<td>A WebGIS for the knowledge and conservation of the historical buildings in Sardinia&lt;br&gt;G. Vacca, D. R. Fiorino, D. Pili</td>
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**Conference Day 2**

**Thursday, July 20th morning**

**CAQUOT**
Chair: Vasilé Craciunescu

9:00
Why Open Source Software? the ESA's Exploitation Platforms experience
Salvatore Pinto

9:30
United Nation OpenGIS Initiative
Kyoung-Soo Eom

10:00
Sponsors session
GeoCat
GeoSolutions
Melown Technologies
Esri Inc.

10:30
Coffee break & poster discussion

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<thead>
<tr>
<th>GENERAL TRACK</th>
<th>ACADEMIC TRACK</th>
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<tbody>
<tr>
<td><strong>CAUCHY</strong></td>
<td><strong>NAVIER</strong></td>
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<tr>
<td>Remote Sensing data, management and visualisation</td>
<td>Analysis, Manipulation and Visualization of Geodata</td>
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<tr>
<td>Chair: Vasilé Craciunescu</td>
<td>Chair: Petr Sloup</td>
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<tr>
<td>11:00</td>
<td>The importance of user communities in the uptake of open Copernicus data and information</td>
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<tr>
<td>Annekatrien Debien, Stephane Ourevitch, Julien Turpin</td>
<td>Konstantina Bereta, Dimitrianos Savva, George Stamoulis, Manolis Koubarakis</td>
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<tr>
<td>11:30</td>
<td>CTEP: satellite data exploitation platform developed entirely with FOSS software</td>
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<td>12:00</td>
<td>pyroSAR – a Python framework for large-scale SAR satellite data processing</td>
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<td>John Truckenbrodt, Felix Cremer, Jonas Eberle, Christiane Schmullius</td>
<td>Petr Sloup</td>
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<tr>
<td>12:30</td>
<td>Lunch break</td>
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<td>14:00</td>
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### Thursday, July 20th afternoon

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<thead>
<tr>
<th>Time</th>
<th>GENERAL TRACK</th>
<th>ACADEMIC TRACK</th>
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<tbody>
<tr>
<td>14:00</td>
<td><strong>OSGeo Foundation</strong>&lt;br&gt;Chair: Tönis Kärdi</td>
<td><strong>Geo-education &amp; awereness</strong>&lt;br&gt;Chair: Franz-Josef Behr</td>
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<td></td>
<td><strong>NAVIER</strong>&lt;br&gt;Application development&lt;br&gt;Chair: Martin Landa</td>
<td>FOSS4G as a key building block for case-based learning in geographic information education&lt;br&gt;M. Minghini, M. A. Brovelli, D. Vandenbroucke, M. Carbonaro, S. Prüller, M. Painho, G. Martirano, D. Frigne</td>
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<td></td>
<td>INSPIRE and Open Source Geospatial Solutions: adding missing pieces to the puzzle?&lt;br&gt;Robin S. Smith, Alexander Kotsev, Lorena Hernandez, Dirk Frigne, Berdien De Roo</td>
<td>Let's share GIS much quicker&lt;br&gt;Martin Landa, Jachym Cepicky, Marcel Dancak, Ivan Mincik</td>
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<td>QGIS Server 3:&lt;br&gt;Refactoring and enhancement&lt;br&gt;David Marteau, Paul Blottiere</td>
<td>In the service of democracy: allocating expat voters to polling stations using FOSS GIS&lt;br&gt;Daniel Urda, Florin Iosub</td>
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<td><strong>PICARD</strong>&lt;br&gt;Analysis, Manipulation &amp; Visualization of Geodata&lt;br&gt;Chair: Florin Iosub</td>
<td>New ASIG Geoportal – central place for spatial data and services in Albania&lt;br&gt;Marko Škvorc</td>
</tr>
<tr>
<td>14:30</td>
<td>Implementing INSPIRE view and download services – transition to FOSS4G&lt;br&gt;Tönis Kärdi</td>
<td>Integrating MCDM methods to gis through a dedicated FOSS application&lt;br&gt;M. A. Brovelli, D. G. B. Souza, C. Arias Muñoz, D. Oxoli, M. E. Molinari</td>
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<tr>
<td>15:00</td>
<td><strong>FOSS4G in education</strong>&lt;br&gt;Chair: Maria Arias de Reyna</td>
<td><strong>Open Geo Software I</strong>&lt;br&gt;Chair : Angelos Tzotsos</td>
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<td><strong>FOSS4G case studies</strong>&lt;br&gt;Chair: Marko Turcovic</td>
<td>A new digital image correlation software for displacements field measurement in structural applications&lt;br&gt;R. Ravanelli, A. Nascetti, M. Di Rita, V. Belloni, D. Mattei, N. Nistico, M. Crespi</td>
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<td>What's up with diversity?&lt;br&gt;Maria Arias de Reyna</td>
<td><strong>Case studies</strong>&lt;br&gt;Chair: Daniel Kastl</td>
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<td>Making geospatial resources web-ready: improving the discovery, access and use of SDIs&lt;br&gt;Clemens Portele, Paul van Genuchten, Robin S. Smith, Michael Lutz, Francesco Pignatelli</td>
<td>Estimating public transit &quot;real-time&quot; locations based on time-table data&lt;br&gt;Tönis Kärdi</td>
</tr>
<tr>
<td>15:30</td>
<td>Coffee break &amp; poster discussion</td>
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<tr>
<td>16:00</td>
<td><strong>IGEO geospatial platform</strong>&lt;br&gt;Marko Turković</td>
<td><strong>Extension of rtklib for the calculation and validation of protection levels</strong>&lt;br&gt;B. Takacs, Z. Siki, R. Markovits-Somogyi</td>
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<td>WebWorldWind: status and perspective 2 years after its introduction at FOSS4G in Como&lt;br&gt;Yann Voumard, Paulo Sacramento, Paul David Collins, Patrick Hogan</td>
<td><strong>Extending the scalability of istsos within the 4onse project</strong>&lt;br&gt;D. Strigaro, M. Cannata, M. Cardoso, M. Antonovic, M. Hoffmann</td>
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<td>MapStore 2, modern mashups with OL3, Leaflet and React&lt;br&gt;Mauro Bartolomeoli</td>
<td>Introducing the vehicle routing open-source optimization machine (VROOM)&lt;br&gt;Julien Coupey</td>
</tr>
<tr>
<td>17:00</td>
<td><strong>Albion : Geological modelling Software</strong>&lt;br&gt;Emmanuel Duguey</td>
<td>Shortest Path search in your Database and more with pgRouting&lt;br&gt;Daniel Kastl</td>
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</table>
Conference Day 3
Friday, July 21st morning

CAQUOT
Chair: Dimitris Kotzinos

9:30
The future of Geo is Open
Suchith Anand

10:00
Passport in my shoe
Jeff McKenna

10:30
Coffee break

GENERAL TRACK

CAUCHY
Application development
Chair: Andrea Aime

11:00
State of GeoServer
Andrea Aime, Jody Garnett

PICARD
Strategic domain apps
Chair: Silvia Franceschi

11:30
GeoNetwork: State of the Art
Maria Arias de Reyna

NAVIER
Application development
Chair: Ian Turton

11:00
Angular2 Geo-Apps with YAGA
Arne Schubert, Stephan Herritsch

11:30
Pirate Maps: Experiments with portable maps on the Raspberry Pi
Ian Turton

BIENVENUE

11:00
Open Geo Software II
Chair: Massimiliano Canata

11:30
Data Processing with QGIS 3
Yves Jacolin

12:00
Multi-modal remote sensing data fusion framework
M. A. A. Ghaffar, T. T. Vu, T. H. Maul

12:00
Serving earth observation data with GeoServer: addressing real world requirements
Simone Giannecchini, Andrea Aime

12:30
Lunch break

14:00
Taking advantage of OGC and HTML5: Offline web editing
Fernando Lacunza

14:00
LiDAR analysis for hazard mapping and forestry management using JGrassTools and gvSIG
Silvia Franceschi, Andrea Antonello

14:00
Spatial inequality in the accessibility to hospitals in Greece
S. Kalogirou
### Friday, July 21st afternoon

<table>
<thead>
<tr>
<th>Time</th>
<th>Track</th>
<th>Topic</th>
<th>Chair/Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>GENERAL TRACK</td>
<td>Advanced features in PyWPS 4.0.0</td>
<td>Jachym Cepicky, Luis de Sousa</td>
</tr>
<tr>
<td>14:30</td>
<td>Mapbender3</td>
<td>Presentation and Status Report</td>
<td>Astrid Emde</td>
</tr>
<tr>
<td>15:00</td>
<td>ZOO-Project 1.7.0: What’s new on the Open WPS Platform</td>
<td>The Geopaparazzi project: State of the art</td>
<td>Andrea Antonello, Silvia Franceschi</td>
</tr>
<tr>
<td>15:30</td>
<td>Coffee break</td>
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<tr>
<td>16:00</td>
<td>GeoMapFish, an Open Source WebGIS Project Status Report</td>
<td>Open Data and FOSS4G to improve resilience for Comoros</td>
<td>Yves Bolognini, Yves Jacolin</td>
</tr>
<tr>
<td>16:30</td>
<td>Lizmap Feature Frenzy</td>
<td>A digital approach for forest and land use planning build on WMS, WPS and WRSm</td>
<td>Michael Douchin, René-Luc D’Hont</td>
</tr>
<tr>
<td>17:00</td>
<td>Introducing mappyfile: a Python library for MapServer</td>
<td>Building a Table Joining Like Service with Web Processing Services</td>
<td>Ian Turton</td>
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<tr>
<td>17:30</td>
<td>Closing plenary</td>
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</table>
Poster sessions

Everyday during breaks

Main Hall

Academic track posters

P01  Answering GeoSPARQL queries over relational data
     Konstantina Bereta, Guohui Xiao and Manolis Koubarakis

P02  Building a complete free and open source gis infrastructure for hydrological computing and data publication using gis.lab and gisquick platforms
     Martin Landa, Petr Kavka, Ludek Strouhal, Marcel Dancak, Jachym Cepicky and Ivan Mincik

P03  Query support for gmz
     Ayush Khandelwal and Dr. Krishnan Sundara Rajan

P04  Flowered-geodbapp: an application based on crowd-generating data using sentinel2 imagery
     Maria Teresa Melis, Francesco Dessi, Paolo Loddo, Claudio La Mantia, Stefania Da Pelo, Anna Maria Deflorio, Giorgio Ghiglieri, Binyam Tesfaw Hailu, Khamisi Kalegele and Benjamin Mwasi

P05  Improved parameterization of water cloud model for hybridpolarized backscatter simulation using interaction factor
     Sugandh Chauhan, Harishanker Srivastava and Parul Patel

General track posters

P06  The open platforms as a tool for smart knowledge of the area
     Luciana Abate

P07  Interoperability: a tool for the analysis and control of territory
     Luciana Abate

P08  Managing Woodland with Lego Bricks
     Pascal Coulon

P09  QGIS Plugin for integrating Sensor data into Water Pipeline Networks for effective detection of leakages
     Nancy Kapri

P10  Contextual generalization of the multi-source digital elevation model (DEM)
     Tomaž Podobnikar

P11  Portable Antiquities of the Netherlands (PAN)
     Niek van Ruler

P12  WebWorldWind and WorldWindAndroid: one API, two goals
     Yann Voumard

P13  Earth Observation Data Pilot in the ENTICE environment
     Jonathan Becedas

P14  Angular2 Geo-Apps with YAGA
     Arne Schubert
**Topic talks**

**Wednesday, July 19th**
- 11:00 – 12:30: An overview of the best Free and Open Source Software for Geospatial
  Angelos Tzotsos
- 14:00 – 15:30: Sustainability of OSGeo projects
  Jody Garnett, Massimiliano Cannata, Dirk Frigne

**Thursday, July 20th**
- 11:00 – 12:30: OSGeo-Live for INSPIRE
  Alexander Kotsev, Berdien Deroo, Robin Smidth, Dirk Frigne, Lorena Hernandez
- 14:00 – 15:30: FOSS4G-Europe welcomes new volunteers to the OSGeo community
  Jody Garnett, Astrid Emde, Dirk Frigne

**Friday, July 21st**
- The future of Spatial Data Infrastructures
  Till Adams and Dirk Frigne
- Economics of FOSS4G
  Till Adams and Dirk Frigne

**Mapathon Missing Maps**

**Wednesday, July 19th evening**

![Mapathon Missing Maps](image)

**Code Sprint**

**Saturday, July 22nd all day**

Join the OSGeo tribes and enjoy this friendly and interactive coding session. Sign up on the wiki page and come to improve the software project you love!

This **Code Sprint** is a unique opportunity to experience open source collaborative development with FOSS4G users and developers.

**Morning session**: 9:00 – 12:00

**Afternoon session**: 13:00 – 17:00
Organization

The FOSS4G Europe 2017 conference is brought to you by:

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Nicolas PAPARODITIS IGN

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Jachym CEPICKY OpenGeoLabs.cz
Vasile CRÂCIUNESCU Meteo Romania
Etienne DELAY UMR 6042
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Codrina Maria ILIE Terrasigna
Florin IOSUB Teamnet Solutions International
Kari SALOVAARA freelance
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Sven SCHADE - EC/JRC
Robert SZCZEPANEK - Cracow University of Technology
Wei TU - Shenzhen Key Laboratory of Spatial-temporal Smart Sensing and Services

Workshops committee

Jachym CEPICKY - OpenGeoLabs.cz
Didier RICHARD - IGN
Nicolás ROELAND - Etablissement français du sang
Angelos TZOTSOS - National Technical University of Athens

Finance committee

Jean-Marie ARSAC - AZIMUT
Inez BURGER - In2events
**Code Sprint committee**

<table>
<thead>
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<th>Organization</th>
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<tr>
<td>Luca DELUCCHI</td>
<td>Fondazione Edmund Mach</td>
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<td>Astrid EMDE</td>
<td>Where Group</td>
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<td>Jeff MCKENNA</td>
<td>Gateway geomatics</td>
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<td>Didier RICHARD</td>
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**Communication committee**

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<tr>
<td>Nicolas BOZON</td>
<td>Esri France</td>
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<td>Thomas GRATIER</td>
<td>WebGeoDatavore</td>
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<td>Jean-Baptiste HENRY</td>
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**Logistics committee**

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