

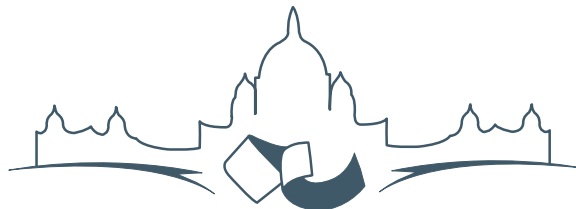
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# OSGeo Journal

The Journal of the Open Source Geospatial Foundation

Volume 3 / December 2007

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**2007 FREE AND OPEN SOURCE SOFTWARE  
FOR GEOSPATIAL (FOSS4G) CONFERENCE**  
VICTORIA CANADA 🍁 SEPTEMBER 24 TO 27, 2007

## Proceedings of FOSS4G 2007

### Integration & Development

- Portable GIS: GIS on a USB Stick
- Automatic Generation of Web-Based GIS/Database Applications
- db4o2D — Object Database Extension for 2D Geospatial Types
- Google Summer of Code for Geoinformatics

### Topical Interest

- A Generic Approach to Manage Metadata Standards
- Towards Web Services Dedicated to Thematic Mapping
- Interoperability for 3D Geodata: Experiences with CityGML & OGC Web Services
- A Model-Driven Web Feature Service for Enhanced Semantic Interoperability
- Spatial-Yap: A Spatio-Deductive Database System

### Case Studies

- DIVERT: Development of Inter-Vehicular Reliable Telematics
  - GRASS GIS and Modeling of Natural Hazards: An Integrated Approach for Debris Flow Simulation
  - A Spatial Database to Integrate the Information of the Rondonia Natural Resource Management Project
  - GeoSIPAM: Free & Open Source Software Applied to the Protection of Brazilian Amazon
  - The Amazon Deforestation Monitoring System: A Large Environmental Database Developed on TerraLib and PostgreSQL
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# From the Editor...

As promised, here it is — the conference proceedings from the biggest and best FOSS4G conference yet. This is a special edition of the OSGeo Journal, dedicated to bringing you a very small sampling of some of the hundreds of papers and topics presented at the event. For more information, conference summaries and discussion see the various blogs and reports available on the [reviews page](http://reviews.page) of the [foss4g2007.org](http://foss4g2007.org) web-site.

The local organising committee is already well into preparing for next year’s event in Cape Town, South Africa. For more information see the [foss4g2008.org](http://foss4g2008.org) web-site. Meanwhile, as you read this, the contenders for the FOSS4G 2009 bid are speedily writing up their proposals for hosting the event — best wishes to all proposals!

The next issue of the Journal will be back to normal. This is your invitation to contribute an article, code examples, tutorial, case studies and more. If you are interested in submitting an article, please add yourself to the [Volume 4 wiki page](#)<sup>1</sup> and an editor will be in touch with you. Contact me directly if you are wondering how your article might fit into the Journal.

As always, thank you to the rest of the Editorial team, proof-readers and **the 37 contributors** to this volume. Enjoy the articles!

*Tyler Mitchell*  
 Editor in Chief  
<http://www.osgeo.org>  
 tmitchell AT osgeo.org



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<sup>1</sup>[http://wiki.osgeo.org/index.php/Journal\\_Volume\\_4](http://wiki.osgeo.org/index.php/Journal_Volume_4)

# FOSS4G 2007 Sponsors & Supporters

## Reflections from two supporters

The Free and Open Source Software for Geospatial Conference (FOSS4G), with the involvement of the Open Source Geospatial (OSGeo) Foundation, has become the premiere event for the open source geospatial community. This year I was asked to provide a "wrap up" as part of the closing session. These are the themes I presented, which all neatly fall under an overarching theme of "maturity."

The experiences of the last few years (from the development of projects, to the creation of OSGeo, among other things) have given the FOSS4G community a confidence that I didn't feel in the past. While I've missed a few meetings in this series, notably the last edition of this event, the 2007 event struck me as a "real" conference. I see a change in the answer to this question, which I've posed to attendees over the last few years: "What software stack are you working with?" I suggest that the proportion of attendees new to GIS or new to geospatial was rather high. The FOSS4G community is "just like" the rest of the GIS community. I would identify the pursuit

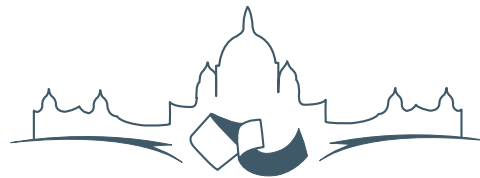
of effective business models and development funding as far "calmer" than in past years. The demand for open source geospatial education is growing.

*Adena Schutzberg*  
Executive Editor, *Directions Magazine*

The Open Planning Project wishes to thank FOSS4G 2007 conference organizers and especially attendees for making a terrific event. We had a great time connecting with colleagues and meeting new users of our collective technologies.

We were particularly excited to see the increasing popularity of GeoServer and OpenLayers, and enjoyed the opportunity to demonstrate the new feature development that we have been supporting in those projects. We look forward to another great year of advances in the open geo-stack and will be back with more exciting developments at the next conference.

*Chris Holmes, The Open Planning Project*



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Thank you to all the FOSS4G 2007 Sponsors for their support!



The [Open Source Geospatial Foundation](#), or OSGeo, is a not-for-profit organization whose mission is to support and promote the collaborative development of open geospatial technologies and data. The foundation provides financial, organizational and legal support to the broader open source geospatial community. It also 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. OSGeo also serves as an outreach and advocacy organization for the open source geospatial community, and provides a common forum and shared infrastructure for improving cross-project collaboration.

Published by OSGeo, the OSGeo Journal is focused on presenting discussion papers, case studies and introductions and concepts relating to open source and geospatial software topics.

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### Acknowledgements

Various reviewers & the GRASS News Project

The *OSGeo Journal* is a publication of the *OSGeo Foundation*. The base of this journal, the  $\text{\LaTeX}2_{\epsilon}$  style source has been kindly provided by the GRASS and R News editorial board.



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**Journal online:** <http://www.osgeo.org/journal>

**OSGeo Homepage:** <http://www.osgeo.org>

**Postal mail:** OSGeo

PO Box 4844, Williams Lake,  
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ISSN 1994-1897

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