

FOSS4G Central and Eastern Europe 2013

16 - 20 iunie, Biblioteca Națională a României, București, România



Ghid conferință

<http://2013.foss4g-cee.org>



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Asociația geo-spatial.org, în colaborare cu Agenția Spațială Română, Administrația Națională de Meteorologie, Institutul de Cercetare pentru Inteligență Artificială al Academiei Române, Facultatea de Geografie - Universitatea din București, Centrul de Cercetare Ingineria Apelor Subterane - Universitatea Tehnică de Construcții București, Facultatea de Geografie - Universitatea Babeș-Bolyai, Cluj Napoca, Facultatea de Chimie, Biologie, Geografie - Universitatea de Vest din Timișoara, Facultatea de Silvicultură și Exploatare Forestiere - Universitatea Transilvania, Brașov, Facultatea de Istorie și Geografie - Universitatea Ștefan cel Mare, Suceava, Facultatea de Geografie și Geologie - Universitatea Alexandru Ioan Cuza, Iași, Facultatea de Automatică și Calculatoare - Universitatea POLITEHNICA din București, Academia Tehnică Militară, Institutul de Cartografie și Geoinformatică, Universitatea Politehnică din Zurich/ETH Zurich, Elveția, Universitatea Politehnică din Milano, Itali, Departamentul de Geofizică și Științe Spațiale - Universitatea Eötvös, Budapesta, Ungaria, Fundația Soros România, SPONGE Media Innovation Lab, ROSEdu, Biblioteca Națională a României și Ministerul Culturii organizează a doua ediție a conferinței internaționale "Free and Open Source Software for Geospatial - Central and Eastern Europe" (FOSS4G-CEE). Evenimentul este dedicat prezentării beneficiilor tehnologiilor geospațiale deschise și libere (în accepțiunea free and open source software). Conferința s-a desprins dintr-un eveniment global (conferința anuală Free and Open Source Software for Geospatial / FOSS4G), recunoscut de întreaga comunitate geospațială internațională, cu acordul și sub patronajul instituției organizatoare, fundația Open Source Geospatial Foundation, din dorința de a adresa mai bine nevoile specifice ale comunităților geospațiale din Europa Centrală și de Est, cum ar fi latura educațională și cea științifică.

Evenimentul va fi găzduit de noul sediu al Bibliotecii Naționale a României.



Audienta

Ediția de anul acesta va beneficia de prezența unor importante personalități internaționale în domeniu și își propune atragerea unui număr de aproximativ 300 de participanți interesați de aplicațiile software geospațiale cu sursă liberă, incluzând:

- Specialiști din instituții guvernamentale și companii private aflați în căutarea de soluții eficiente pentru rezolvarea problemelor de natură geospațială. O atenție deosebită va fi acordată aducerii de experți implicați în proiectarea și implementarea la nivel național, regional sau local de infrastructuri de date compatibile cu specificațiile directivei europene INSPIRE;
- Manageri aflați în căutarea unor soluții software flexibile și avantajoase economic în aceste vremuri de criză financiară;
- Tineri profesioniști și studenți. Majoritatea țărilor din Europa Centrală și de Est suferă din cauza lipsei unei comunități geospațiale puternice. Astfel de comunități nu se pot naște însă peste noapte ci sunt rezultatul unor eforturi bine sincronizate, de durată. FOSS4G-CEE poate contribui semnificativ la coagularea acestor comunități.
- Lideri de opinie din comunitatea globală FOSS4G, esențiali pentru motivarea și inspirarea tinerelor generații de profesioniști.

Tematica

Activitățile se vor desfășura pe durata a cinci zile (16 - 20 iunie), sub formă de:

- Prezentări în plen;
- Prezentări în sesiuni tematice;
- Seminarii practice;
- Sesiuni de programare (code sprint);
- Hackathon date geospațiale deschise.

Acestea vor detalia modul în care aplicațiile libere open source pot fi folosite în următoarele domenii:

- Dezvoltare de aplicații software;
- Interoperabilitate și standarde deschise;
- Implementări INSPIRE folosind FOSS4G;
- Migrarea către FOSS4G;
- Studii de caz cu implementări FOSS4G;
- FOSS4G în educație;
- Analiza, manipularea și vizualizarea datelor geospațiale;
- Senzori, teledetecție, scanare laser, structuri vectoriale 3D din colecții raster;
- Date geospațiale deschise și proiecte colaborative;
- Cartografie digitală și istorică;

Invitati speciali

Jeff McKenna



Jeff ([@mapserv](#)) is the current president of the OSGeo and has been involved at the Board level of the organization since 2009. A founding charter member of OSGeo, Jeff has been using and promoting Open Source geospatial for over a decade. He has been a huge supporter of the FOSS4G conference, and a key member of the Conference Committee that has brought the annual FOSS4G to areas all around the world. Jeff is a long-time user and documentation lead for the MapServer project, and is a member of the MapServer Project Steering Committee. His strengths include helping build communities, and sharing his passion for Open Source geospatial.

Paul C. Smits



Paul ([@paul_c_smits](#)) received a Ph.D. in electronic engineering and computer science from the University of Genoa, Italy. Since 1998 he is with the Joint Research Centre of the European Commission. He is leading the team that is developing the technical Implementing Rules Legal Acts for Directive 2007/2/EC establishing an Infrastructure for Spatial Information in the European Community (INSPIRE). Paul is also overseeing the development of the European Union Location Framework (EULF), and has a particular interest to stimulate innovation in public administrations by promoting the use INSPIRE and the EULF. He is past chairman of the IEEE Geoscience and Remote Sensing Data Fusion Technical Committee, and served as the Geoscience and Remote Sensing Society Vice President for Technical Activities (2003-2007).

From 2005 until 2012 he was convener of CEN/TC 287 Geographic Information/Working Group Spatial Data Infrastructures, and co-chair of the Open Geospatial Consortium (OGC) - ISO/TC211 Geographic Information Joint Advisory Group (JAG). He was the editor of the White Paper on the "Recommendations for the Technical Design of a Global Interoperable Information Network", prepared for the Eye on Earth Summit in Abu Dhabi in December 2011. Paul is a Marie Currie Fellow.

Jáchym Čepický



Jáchym ([@jachymc](#)) became a GRASS GIS and web GIS hacker after studying forest engineering at Faculty of Forestry and Wood Sciences - Czech University of Life Sciences Prague. Currently he is working at Help Service - Remote Sensing in Czech Republic, mainly on implementation of INSPIRE directive. Jáchym is well known in the FOSS4G community for his contribution to applications like PyWPS, OWSLib, OpenLayers or HSLayers. He was the chairman of FOSS4G-CEE 2012, held in Prague - Czech Republic. From 2012 he is a member of the Board of Directors of OSGeo Foundation.

Robin Smith



Robin has a background in ecology and received a Ph.D. in Town Planning from the University of Sheffield, UK. Since 2008 he has been working at the Joint Research Centre of the European Commission, as a post-doctoral research fellow and more recently as an external consultant. In support of Directive 2007/2/EC establishing an Infrastructure for Spatial Information in the European Community (INSPIRE), Robin is currently helping to develop a Reusable INSPIRE Reference Platform: a three-year project which aims to share and develop common open source components for the successful implementation of INSPIRE alongside policies such as the Digital Agenda for Europe and the Interoperability Solutions for European Public Administrations Programme,

who are funding this work. Robin was delighted to be elected as one of the first Fellows of the Vespucci Initiative for Geographical Information Science in 2009.

Maria Antonia Brovelli



Maria ([@MariaBrovelli](#)) has a Degree with honors in Physics and Ph.D. in Geodesy. Currently Professor of GIS at Politecnico di Milano. From 2006 to 2011 she lectured GIS at the ETH Zurich. From 2001 to 2011 she was the scientific responsible of the Geomatics Laboratory of the Politecnico di Milano. Since 2011 she is Vice Rector of the Como Campus of Politecnico di Milano. She is co-chair of ISPRS WG IV/5 "Web and Cloud Based Geospatial Services and Applications", Associate Editor of Applied Geomatics Journal (Springer); Member of the Scientific Committee of the Italian Photogrammetric and Topography Society (SIFET); Member of OSGEO Education Committee.

Dirk Frigne



Dirk is founder of Geosparc, a software vendor and global service company for FOSS4G solutions. Geosparc is the main sponsor of Geomajas, a web GIS software framework for SDI solutions, based on Java. He is the spiritual father of Geomajas, which is being further developed by a team of specialists and community enthusiasts. Dirk started his career in 1986 ,after completing his Master in Engineering, as an academical electronic engineer, with specialization in software systems. As a business consultant and entrepreneur, Dirk has experience introducing new ICT solutions in government agencies and utility companies (proprietary and open source based solutions).

Markus Neteler



Markus Neteler is head of the GIS and Remote Sensing unit at the Research and Innovation Centre of the Fondazione Edmund Mach, Trento, Italy. His main research interests are remote sensing for environmental risk assessment, epidemiological GIS modelling and Free Software GIS development, the latter since 1993. He is principal GIS analyst in several European and national projects related to vector-borne diseases and biodiversity. He is author/co-author of several books and chapters on the Open Source Geographical Information System GRASS and various papers on GIS applications. He is founding-member of the Open Source Geospatial Foundation (<http://www.osgeo.org>) and served on its board of directors from 2006 to 2011.

Peter Baumann



Peter obtained a degree in Computer Science (1987) from Technical University of Munich, a doctorate (1993) in Computer Science at Darmstadt University of Technology while working with Fraunhofer Institute for Computer Graphics. He has pursued post-doctoral activities in both industry and academia, working for Softlab Group in Munich and Technical University of Munich. In August 2004 he was appointed as Professor of Computer Science at Jacobs University Bremen. Peter is the chair of the OGC coverage-relevant working groups, invited expert in INSPIRE, and member of the ISO SQL working group. He is Principal Architect of the rasdaman Array Analytics engine which has pioneered the research field of Array Databases.

Radu Puchiu



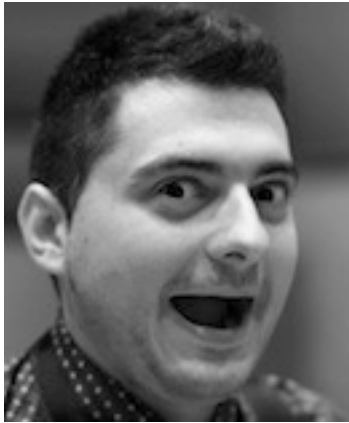
Radu ([@RaduPuchiu](#)) joined the Government of Romania in 2012 as State Counsellor to the Prime Minister, being in charge of the transformation of Government online services. In February 2013 he was appointed as State Secretary at Government of Romania. Between 2009 and 2012 he was part of the Kondiment Group team as Public Sector Business Unit Manager where he used the experience in Governmental area as well as the knowledge accumulated in eGovernment Programs in Singapore and Austria (2006 and 2007). His previous experience include 6 years as Head of Information Technology Department in Victoria Palace (Headquarter of Romanian Government) and over 6 years as Project Manager for more 100 online projects for different Romanian companies. In 2008, Radu Puchiu was the IT&C Coordinator of the NATO Summit in Bucharest.



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Iván Sánchez



Iván (@ReallvanSanchez) is a vocational computer scientist, and a free/open source activist since the 2000s. Having bought a GPS unit in 2006, he got involved in the OpenStreetMap project, then OSGeo, being a member of both the OpenStreetMap Foundation and OSGeo Spanish chapters, and a supporter and occasional organiser of the FOSS4G, SIG Libre and State of the Map conferences. Iván is spreading the ideals of Open Source and Open Data into several communities, including the GT-IDEE (the Spanish INSPIRE working group), several Spanish government agencies and even EuroGeoSource.

Programul conferintei

Ziua 1 - duminică, 16 iunie - Universitatea POLITEHNICA Bucuresti - Seminarii practice

Ora	Camera A	Camera B	Camera C	Camera D
10:00 - 13:00	Processing GIS data using Python Alex Morega, ROSEdu Iulian Iuga, Soft Business Union Bogdan Grama, Soft Business Union	FOSS4G Tools for (Geo)Data Driven Journalism Vasile Crăciunescu, Meteo Romania Ștefan Căndea, CRJI Michael Bird, CRJI	Practical introduction to OpenGeo Suite Florin Iosub, TeamNet International Sorin Constantin, ASRC	GRASS GIS and integrated analysis of watershed Cornel Tudose, Faculty of Geography - University of Bucharest Ionuț Ovejanu, Faculty of Geography - University of Bucharest
13:00 - 14:00	Pauză de prânz			
10:00 - 13:00	Big Earth Data in Space-Time: understanding them, and how to serve them Peter Baumann, Jacobs University	R for spatial analysis: MODIS data manipulation and climate data interpolation Mihai Terente, Romair Consulting / Emil Racoviță Institute of Speleology Alexandru Dumitrescu, Meteo Romania Codrina Maria Ilie, geo-spatial.org	PyWPS howto Jáchym Čepický, Help Service - Remote Sensing	Getting Started with MapServer Jeff McKenna, Gateway Geomatics

Ziua 2 - luni, 17 iunie - Universitatea POLITEHNICA Bucuresti - Seminarii practice

Ora	Camera A	Camera B	Camera C	Camera D
09:00 - 12:00	ZOO-Project playing with building blocks to build pgRouting web application Gérald Fenoy, GeoLabs SARL Nicolas Bozon, Cartogenic	PostGIS: a dive-in Vincent Picavet, Oslandia	Getting started with HSLayers Jáchym Čepický, Help Service - Remote Sensing	High level map interaction using python and GRASS Luca Delucchi, Fondazione Edmund Mach Václav Petráš, OSGeoREL at FCE CTU in Prague Anna Kratochvílová, OSGeoREL at FCE CTU in Prague

Ziua 2 - luni, 17 iunie - Biblioteca Natională a României - Conferinta

Ora	Aulă	Mircea Eliade	Mircea Vulcănescu
14:00 - 16:00	Welcome and Introduction by Conference Chair Vasile Crăciunescu, OSGeo Romania		
	Sharing, Growing with the OSGeo Community Jeff McKenna, OSGeo		
	Geo Web Maria Antonia Brovelli, Politecnico di Milano		
	Scaling up globally: 30 years of FOSS4G development Markus Neteler, Fondazione Edmund Mach		
16:00 - 16:30	Pauză de prânz		

Ora	Aulă	Mircea Eliade	Mircea Vulcănescu
16:30 - 17:00	QGIS as a platform Vincent Picavet, Oslandia	GEOSPACE: Training Centre for Geomatics Open Source Software Usage Mirela Constantin, ASRC Florin Șerban, ASRC Ștefan Constantinescu, Faculty of Geography - University of Bucharest Dănuț Petrea, Faculty of Geography - University Babeș-Bolyai Ioan Rus, Faculty of Geography - University Babeș-Bolyai	IPA-Online, an application build on OSS to assist Romanian farmers to prepare their application for direct payments Iulian Iuga, Soft Business Union Boris Leukert, Soft Business Union Bogdan Grama, Soft Business Union
17:00 - 17:30	Soil survey and mapping using QGIS in the specific methodological context of Romania Bogdan Roșca, Romanian Academy, Department of Iasi - Geography Group Radu Pirnau, Faculty of Biology - Al.I. Cuza University of Iasi Mihai Niculiță, Department of Geography, Faculty of Geography and Geology - Al.I. Cuza University of Iasi Iuliana Niculiță, Department of Geography, Faculty of Geography and Geology - Al.I. Cuza University of Iasi	OSGeo participation to Google Summer of Code Anne Ghisla, OSGeo Hamish Bowman, OSGeo Wolf Bergenheim, OSGeo	dartkart - Prototyping Web Cartography in Dart Karl Guggisberg, kacon gmbh
17:30 - 18:00	FOSS4G in large-scale projects Tomislav Obad, Igea Ltd. Marko Turković, Igea Ltd.	geo-spatial.org: The Reference Point for the Romanian FOSS4G Community Dana Gherghelas Androo, geo-spatial.org	Cartography with QGIS Server and Extended SLD/SE Ionuț Iosifescu-Enescu, Institute of Cartography and Geoinformation - ETH Zurich Cristina Iosifescu-Enescu, Institute of Cartography and Geoinformation - ETH Zurich Nadia Panchaud, Institute of Cartography and Geoinformation - ETH Zurich Lorenz Hurni, Institute of Cartography and Geoinformation - ETH Zurich

Ziua 3 - marti, 18 iunie - Biblioteca Natională a României - Conferinta

Ora	Aulă	Mircea Eliade	Mircea Vulcănescu
09:00 - 10:40	Towards a Framework for the Maintenance and Implementation of INSPIRE Paul C. Smits, Joint Research Centre - European Commission	Side Event: "Moving forward. Open Data Discussions for an Open Romania"	
	Minding the gaps: building a reusable INSPIRE reference platform Robin Smith, Joint Research Centre - European Commission		
	OSGeo projects in relationship to INSPIRE Jáchym Čepický, Help Service - Remote Sensing		
	Open data mandate of the Department for Online Services and Design Radu Puchiu, Government of Romania		
10:40 - 11:00	Pauză de cafea		
11:00 - 11:30	PostGIS 2.0 and beyond Vincent Picavet, Oslandia	Side Event: "Moving forward. Open Data Discussions for an Open Romania"	
11:30 - 12:00	Leaflet: Past, Present, Future Vladimir Agafonkin, Universal Mind		
12:00 - 12:30	News in GRASS GIS 7 Markus Neteler, Fondazione Edmund Mach		
12:30 - 14:00	Pauză de prânz		
14:00 - 14:30	Spot on Geomajas - general introduction Dirk Frigne, Geosparc	FOSS4G for water management Vincent Picavet, Oslandia	

Ora	Aulă	Mircea Eliade	Mircea Vulcănescu
14:30 - 15:00	ZOO-Project 1.3.0 the WPS development environment Gérald Fenoy, GeoLabs SARL	Earth Science Data Access and Processing Service for Black Sea (ESPOSS) Sorin Constantin, ASRC Vasile Crăciunescu, Meteo Romania Ștefan Constantinescu, Faculty of Geography - University of Bucharest Florin Șerban, ASRC	Side Event: "Moving forward. Open Data Discussions for an Open Romania"
15:00 - 15:30	Do you want to INSPIRE? HSlayers map viewer Jáchym Čepický, Help Service - Remote Sensing Premysl Vohnout, Czech Center for Science and Society VStepan Kafka, Help Service - Remote Sensing	Water quality forecast and information system build entirely with FLOSS software Vasile Crăciunescu, Meteo Romania	
15:30 - 16:00	Pauză de cafea		
16:00 - 16:30	The NASA World Wind Europa Challenge Maria Antonia Brovelli, Politecnico di Milano Raffaele De Amicis, Fondazione Graphitech Patrick Hogan, NASA Ames Research Center Gabor Remetey, Hungarian Association for Geo-information Giorgio Zamboni, Politecnico di Milano	Transition of the GeoVITe Project from Proprietary to Open-Source Software Cristina Iosifescu-Enescu, Institute of Cartography and Geoinformation - ETH Zurich Ionuț Iosifescu-Enescu, Institute of Cartography and Geoinformation - ETH Zurich Nadia Panchaud, Institute of Cartography and Geoinformation - ETH Zurich Lorenz Hurni, Institute of Cartography and Geoinformation - ETH Zurich	Open Source Solutions in the US Real-Estate Market Anca Brișan, Yardi/PropertyShark
16:30 - 17:00	Open Source Software for GIS education at Tiraspol State University Lucia Căpățînă, Tiraspol State University Vitalie Dilan, Tiraspol State University	MagdaGeo - FOSS4G based INSPIRE compliant web GIS for citizens and local governments Dirk Frigne, Geosparc	Themis - Management of the Local Police specific activities Iulian Iuga, Soft Business Union Bogdan Grama, Soft Business Union

Ora	Aulă	Mircea Eliade	Mircea Vulcănescu
17:00 - 17:30	Master of Geographic Information System (Faculty of Geography, Bucharest) - model for FOSS4G in education Marin Andreea - Florentina, Faculty of Geography - University of Bucharest	Using FOSS4G to build and manage an INSPIRE compliant Digital Inventory of Sub-surface Information for Flanders Dirk Frigne, Geosparc	ENVISION platform - use of FOSS for an Environmental Services Infrastructure Silviu Trașcă, CS Romania Mihaela Ionescu, CS Romania
19:00 - 23:30	Cina festivă		

Ziua 4 - miercuri, 19 iunie - Biblioteca Natională a României - Conferinta

Ora	Aulă	Mircea Eliade	Mircea Vulcănescu
09:00 - 09:30	Adding Array Analytics to Databases Peter Baumann, Jacobs University	Policy and legal issues around Open Data Bogdan Manolea, ApTI	Harmonizing distribution and range data open source tool for species and habitats of the Habitats and Birds Directives Daniel Urda, TeamNet Solutions International Iurie Maxim, TeamNet Solutions International Ciprian Iacobescu, TeamNet Solutions International

Ora	Aulă	Mircea Eliade	Mircea Vulcănescu
09:30 - 10:00	<p>Towards 3D modeling: new trend, endless FOSS4G opportunities!</p> <p>Cristian Balint, Independent developer</p>	<p>geoidea.ro: Open Geodata Initiative for Romania</p> <p>Radu Gogu, Groundwater Engineering Research Center - Technical University of Civil Engineering</p> <p>Vasile Crăciunescu, Groundwater Engineering Research Center - Technical University of Civil Engineering</p> <p>Ionuț Iosifescu, Institute of Cartography and Geoinformation - ETH Zurich</p> <p>Codrina Maria Ilie, Groundwater Engineering Research Center - Technical University of Civil Engineering</p> <p>Dragoș Gaitanaru, Groundwater Engineering Research Center - Technical University of Civil Engineering</p> <p>Lorenz Hurni, Institute of Cartography and Geoinformation - ETH Zurich</p>	<p>Forest management web application based on open-source solutions</p> <p>Mihai Daniel Niță, Forest Design</p> <p>Bogdan Candrea, Forest Design</p> <p>Ștefan Simon, Forest Design</p>
10:00 - 10:30	<p>The creating effective raster spatial analysis in PostGIS system</p> <p>Przemysław Lisowski, AGH University of Science and Technology</p> <p>Michał Lupa, AGH University of Science and Technology</p> <p>Stanisława Porzycka-Strzelczyk, AGH University of Science and Technology</p>	<p>Adding Value to FOSS4G through FOSS4G - An Overview on Open Source Geodata in General and Open Street Map Data in Particular</p> <p>Nadia Panchaud, Institute of Cartography and Geoinformation - ETH Zurich</p> <p>Ionuț Iosifescu-Enescu, Institute of Cartography and Geoinformation - ETH Zurich</p>	<p>Environmental geoportal: a tool for environmental spatial data infrastructure management</p> <p>Vitalie Dilan, Tiraspol State University</p>
10:30 - 11:00	<p>Pauză de cafea</p>		

Ora	Aulă	Mircea Eliade	Mircea Vulcănescu
11:00 - 11:30	Interactive METEOSAT: Educational Platform for Meteorological Applications Entirely Developed with FLOSS Software Florin Șerban, ASRC Vasile Crăciunescu, ASRC/Meteo Romania	Combining FOSS4G and Open Data to better understand the world. Case study politicalcolours.ro Codrina Maria Ilie, geo-spatial.org Bogdan Grama, Soft Business Union Iulian Iuga, Soft Business Union	FOSS tools for valorising Como historical cadastres: a final overview of the Web C.A.R.T.E. Project Maria Antonia Brovelli, Politecnico di Milano Marco Minghini, Politecnico di Milano Giorgio Zamboni, Politecnico di Milano
11:30 - 12:00	Implementation of scale-depended Digital Terrain Model's decomposition algorithm in open source GIS software Jolanta Knecht, AGH University of Science and Technology	Opening private geodata and private company to public Jozsef Kuszalik, Micro Mapper	Analysis of historical maps through free and open source software Angeliki Tsorlini, Institute of Cartography and Geoinformation - ETH Zurich Ionuț Iosifescu-Enescu, Institute of Cartography and Geoinformation - ETH Zurich Lorenz Hurni, Institute of Cartography and Geoinformation - ETH Zurich
12:00 - 12:30	Learning Earth Observation Image Processing with LEOWorks Adrian Stoica, ASRC Florin Șerban, ASRC	Free Navigation Charts Adrian Maizel, River Administration of the Lower Danube	Project eHarta: a collaborative initiative to digitally preserve and freely share old cartographic documents in Romania using FOSS4G Vasile Crăciunescu, Meteo Romania
12:30 - 14:00	Pauză de prânz		
14:00 - 16:00	Databases in the Big Earth Data Era Peter Baumann, Jacobs University		
	The best of both worlds: combining an open source business model with a proprietary business model Dirk Frigne, Geosparc		
	Conference Closing		

Ziua 5 - joi, 20 iunie

Ora	Teamnet International	Soros Foundation Romania
09:00 - 17:00	Code Sprint	Open GeoData Hackathon

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