



INVITATION

Workshop:

Global Monitoring for Environment and Security GMES – Exploring Opportunities for Cooperation with the United Nations

Organised by

bridge 2GEO – European Geoinformation Network

with support from the

United Nations Office for Outer Space Affairs (UNOOSA)

and the

City of Bonn

Bonn, 12-13 November 2009

UN Campus, Hermann-Ehlers-Str. 10
D-53113 Bonn, Germany

The Global Monitoring for Environment and Security (GMES) program is a joint initiative of the European Commission and the European Space Agency. Recognizing the strategic importance of Earth observation, Europe has started to develop its own operational monitoring capability via its GMES program, the second flagship of EU space policy after the Galileo navigation system.

As an umbrella encompassing existing initiatives and systems at European level, GMES fosters the development of new services and technologies. Geospatial information combining Earth observation with satellite communication, positioning technologies and Spatial Data Infrastructure (SDI) is a prerequisite in supporting a wide range of EU policies. These include:

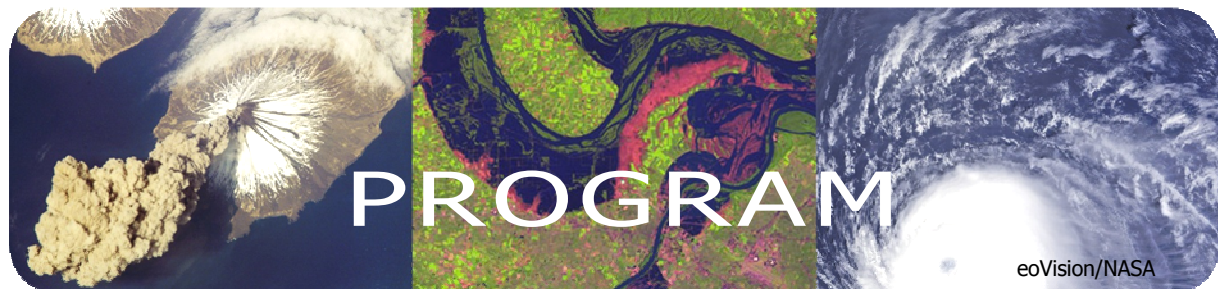
- Europe's environmental commitments within EU territory and globally
- Other EU policy areas such as agriculture, regional development, fisheries, transport, external relations, development aid and humanitarian assistance
- Common foreign and security policy
- Other policies relevant to European citizens' security, notably justice, home affairs, and customs, including surveillance and management of external borders.

The workshop provides first-hand information about tangible examples of GMES services. Ranging from research to commercial solutions, activities in monitoring environment and security are presented to facilitate transfer to different use cases in UN programmes.

The afternoon starts with general information about GMES and presentations on the two major GMES services: Environmental Monitoring and Support to Human Security. The subsequent information market invites individual exchange with geoinformation experts presenting a broad range of representative case studies. A concluding panel discussion provides a platform on which to assess requirements, and map out partnerships and next steps.

The reception will be held at the beautiful baroque *Altes Rathaus*, Bonn's old town hall. Jürgen Nimptsch, the new Mayor of the City of Bonn, welcomes us there to enjoy an informal get-together in the very heart of Bonn.

Next day's brokerage event provides the opportunity to discuss specific requests in detail.



Thursday, 12th November

13:30 – 15:00

- **Welcome**
Lóránt Czárán, UN-SPIDER • Ulrich Ziegenhagen, City of Bonn • Marie-Charlotte Hoffmann, *bridge2GEO*
- **GMES and Global Initiatives - The policy framework**
Peter Zeil, Center for GeoInformatics, Salzburg University, Z_GIS
- **Environmental Monitoring – Land/Atmosphere**
Thomas Blaschke, iSPACE
- **Human Security/Emergency Response**
Stefan Lang, Center for GeoInformatics, Salzburg University, Z_GIS

15:00 – 16:30

Information market: Case studies (incl. coffee/tea)

Moderation: Marie-Charlotte Hoffmann, *bridge2GEO*/Peter Zeil, Z_GIS

16:30 – 17:30

Concluding panel discussion:

Peter Croll, CEO Bonn International Center for Conversion (Moderation)

Lóránt Czárán, UN-SPIDER

Peter Breger/Mauro Facchini, European Commission, Space Research & Development

János J. Bogardi, Global Water System Project

Thorsten Welle, UN University, Institute for Environment and Human Security

Lars Wirkus, Bonn International Center for Conversion

Florin Vladu, UNFCCC

18:00 Bus shuttle to the Old Town Hall

Reception at the Altes Rathaus (Old Town Hall), Am Markt, 53111 Bonn

Welcome by the Mayor of the City of Bonn, Jürgen Nimptsch.

Friday, 13th November

09.00 – 11:30 am

➤ **GMES Services for the UN**

The brokerage event will be organized after registration. Please give comments on your specific topics of interest.

The workshop is jointly organized by three partners:

bridge 2GEO is a European Geoinformation Network funded by the 7th Research Framework Programme of the European Commission. Geoinformation experts from industry and research working in different application fields such as nature conservation, spatial planning, energy, health, and tourism bring their experience to the European GMES initiative to develop reliable services for applications such as disaster risk reduction, monitoring the stability of livelihoods, humanitarian assistance, environmental management, sustainable energy supply, food security and others.

bridge 2GEO is implemented by partners from the regions of Bonn and Salzburg, Austria, exploring the expertise of the regional clusters: the Geoinformation Initiative Bonn/Rhein-Sieg/Ahrweiler and the GIS-Cluster Salzburg.

UN-SPIDER is the United Nations Platform for Space-based Information for Disaster Management and Emergency Response implemented by the Vienna-based United Nations Office for Outer Space Affairs (UNOOSA). The program aims at providing universal access to all types of space-based information and services relevant to disaster management. The mission of UN-SPIDER is to make sure that all relevant information is disseminated to all stakeholders in the areas of disaster management, emergency and humanitarian response, to manage and transfer knowledge and to foster and strengthen strategic alliances and partnerships on a regional and global scale.

Bonn, Germany's United Nations City, is supporting its new profile as a center of international dialogue on key issues of the future. A visible symbol of this development is the UN Campus. The Campus provides UN organisations with ideal working conditions embedded in Bonn's infrastructure, thus facilitating co-operative action and useful contacts. UN organisations, Federal ministries and agencies, about 150 non-governmental organisations, research institutions and the resident economic global players make Bonn an international location. Increasingly, the City is turning into a hub whose actors focus on the issues of sustainable and humane development.

Registration/Security:

Please register on the UN-SPIDER Bonn website using the following link:

<http://www.un-spider.org/index.php?q=civicism/event/info&id=6>

Contact:

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Information Market Presentations

Group	Pollutant Release and Transfer Registry for the Umweltbundesamt	http://www.prtr.bund.de http://www.wherogroup.com
GEODAN	Fighting Disasters by Working Together: Time is one of the most crucial factors in emergency situations. Efficient coordination and sharing of information are essential in a multi-disciplinary emergency response. The Eagle Suite for Disaster Management, based on Microsoft Groove and SharePoint, and using ESRI's ArcGIS, Geodan Movida and Cyclomedias Cycloramas synchronizes and exchanges geographical and textual information, thus creating a Single View Platform.	http://www.geodan.com/markets/public-order-and-safety/eagle-download/
Bonn University	Spacial Data Infrastructure-Grid, joint project of the D-Grid Initiative: Technologies from spacial data infrastructures (SDI) and grid-computing are integrated into a SDI-Grid to build grid-enabled service chains. High-performance services lay the base for many new applications in the field of spacial data integration, spacial data processing, simulation and catastrophe management. Use cases: flood risk management, noise dispersion, real-time routing services for emergency situations.	http://www.gdi-grid.de/ http://www.aggis.uni-bonn.de/cms/personen/greve
eoVision	1) Development of SDI components and geoservices: Integration of Earth observation data and metadata into GMES products and services. Projects: g2real: Real-time information system for mobile field forces in disaster management, integrating Earth observation methodologies for rapid assessment of the emergency scene, or eoVIS: Geodata service for archive and real-time data. 2) Awareness building and geo-education awareness building for GMES: Multimedia/edutainment/education projects such as the Atlas of Global Change.	http://www.eovision.at/Datenbeschaffung.data-aquisition.0.html
Z_GIS	Displaced – The evolution of refugee camps in the context of regional crises: population monitoring, environmental impact, conditioned information for decision making. For the European Commission, UNODC, UNEP, WFP	http://www.zgis.at/research http://www.fp6-limes.eu http://www.gmes-gmosaic.eu
lat/lon	Earthquake Disaster Information System for the Marmara region, Turkey (EDIM), funded by BMBF. The existing early warning system for Istanbul is expanded to regional scale (Marmara Region). Estimates of the degree of reliability, real-time information on earthquake source parameters and near-real-time shakemaps for the region. Algorithms are set up in a way that they can be transferred and adapted to other regions.	http://www.cedim.de/EDIM.php
iSPACE	inSitu Sensor Toolbox - modeling, analysis and evaluation of environmental indicators using a distributed open standard framework of stationary and mobile standardized in-situ sensor webs (OGC SOS, OGC SAS) with integration of server-based geographic analyses and linkage to dynamic SDI services (OGC CSW). Developed for the Synergis GmbH.	http://ispace.researchstudio.at/home_de.html
PROJEKTKompetenz.eu	beyond GMES: Conceptualization and development of international projects, fundraising from regional, national, European and international programmes incl. Research Technological Development and Coordination/Support Actions, coordination and management of international projects, support for latest internet technologies (Web 2.0) for internal and external communication.	http://www.projektkompetenz.eu/

Speakers

<p>Prof. Dr. János J. Bogardi Executive Officer Global Water System Project International Project Office Bonn, Germany gwsp.ipo@uni-bonn.de www.gwsp.org</p>	<p>Lóránt Czárán Head of the UN-SPIDER Bonn Office United Nations Office for Outer Space Affairs (UNOOSA) UN Campus Bonn, Germany lorant.czaran@unoosa.org www.unoosa.org/oosa/en/unspider/about_us.html</p>	<p>Lars Wirkus Senior Resesarcher Bonn International Center for Conversion (BICC) Bonn, Germany wirkus@bicc.de www.bicc.de</p>
<p>Peter Croll Director/CEO Bonn International Center for Conversion (BICC) Bonn, Germany croll@bicc.de www.bicc.de</p>	<p>Dr. Peter Zeil Senior Project Manager Centre for Geoinformatics (Z_GIS) Salzburg University Salzburg, Austria peter.zeil@sbg.ac.at www.zgis.at</p>	<p>Florin Vladu Programme Officer Technology United Nations Framework Convention on Climate Change (UNFCCC) Bonn, Germany Pdesanker@unfccc.int http://www.unfccc.int</p>
<p>Peter Breger or Mauro Facchini Policy Development European Commission Space Research and Development Unit Brussels, Belgium peter.breger@ec.europa.eu http://ec.europa.eu/enterprise/policies/space/research/who-we-are/index_en.htm</p>	<p>Prof. Dr. Thomas Blaschke Head of the Research Studio iSPACE Research Studios Austria iSPACE Salzburg, Austria thomas.blaschke@researchstudio.at http://ispace.researchstudio.at</p>	<p>Dr Ulrich Ziegenhagen Deputy Head, Department for Business Development, City of Bonn; Cluster Manager Geoinformation Initiative Bonn/Rhine-Sieg/Ahrweiler Bonn, Germany dr.ulrich.ziegenhagen@bonn.de www.bonn.de/wirtschaft_wissenschaft_internationales/wirtschaftsfoerderung/index.html?lang=de</p>
<p>Torsten Welle Senior Researcher United Nations University-EHS Institute for Environment and Human Security UN Campus Bonn, Germany welle@ehs.unu.edu www.ehs.unu.edu</p>	<p>Dr. Stefan Lang Senior Project Manager Centre for Geoinformatics (Z_GIS), Salzburg University Salzburg, Austria Stefan.Langl@sbg.ac.at www.zgis.at</p>	<p>Dr. Marie-Charlotte Hoffmann Project Manager bridge2GEO Österreichisches Wirtschaftsbüro Düsseldorf, Germany m-ch.hoffmann@oewb.de www.bridge2geo.eu</p>

