KNOWLEDGE PLATFORM WHERE MINDS CONVERGE
Market worldwide for Big Data and business analytics is expected to increase to US $16.9 billion in 2015.

Global geospatial industry is close to $100 billion and is growing at an annual growth rate of 10-15%.

Global geo-services market is pegged between $150 billion and $270 billion.

In Canada, PPPs led to efficiency gains of up to 61.2% over those done with conventional methods.

The demand for investment in areas such as energy, transportation, water, waste, and social infrastructure in US alone is expected to hit an average of $4 trillion annually until 2030.

$4.2 billion will be spent in India on Cloud services from 2013 through 2017, out of which US $1.8 billion will be spent on Saas.

In the UK, 89% of Infrastructure PPP projects were delivered on time or early.

Increasing data will produce a hyperconnected environment or ‘Internet of Things’, with estimates of over 50 billion things connected by 2020.

Just 600 cities are responsible for 60% of the global GDP.

In Canada, PPPs led to efficiency gains of up to 61.2% over those done with conventional methods.

The demand for investment in areas such as energy, transportation, water, waste, and social infrastructure in US alone is expected to hit an average of $4 trillion annually until 2030.

$4.2 billion will be spent in India on Cloud services from 2013 through 2017, out of which US $1.8 billion will be spent on Saas.
Policies, technologies and applications are the three key factors affecting growth of geospatial industry. Formulation of policies and its associated implementation requires strong engagement and propagation of innovations and practices. Public-private partnership is one instrumental driver not only in bridging technological gaps, but in integrating stakeholders for maximum impact. The theme CONVERGENCE: Policies + Practices + Processes via PPP aims to address the need for greater coordination among policy-makers, technology providers and users to benefit the industry, and to highlight geospatial workflows as an enabler for successful PPPs by facilitating more informed decision making among the stakeholders.

The first edition of Ministerial Panel was successfully held in GWF 2014 in Geneva, which saw ministerial delegations from Switzerland, Azerbaijan, Ghana, India, Malaysia, Canada, Mauritius and Nigeria put together their thoughts on the need to evolve geospatial policies at the highest level for national and regional development. Anticipate another high-level discussion involving ministers from advanced and developing nations tackling the latest geospatial policy issues that could impact the overall growth of the industry.

The INSPIRE directive aims to create a European Union (EU) spatial data infrastructure. This will enable the sharing of environmental spatial information among public sector organisations and better facilitate public access to spatial information across Europe. A European Spatial Data Infrastructure will assist in policy-making across boundaries. Therefore the spatial information considered under the directive is extensive and includes a great variety of topical and technical themes. The INSPIRE directive came into force on 15 May 2007 and will be implemented in various stages, with full implementation required by 2019.

Each year a European INSPIRE conference is held to provide a forum for stakeholders from government, academia and industry to hear about the developments in National SDIs. INSPIRE conferences are organised through a series of plenary sessions addressing common policy issues, and parallel sessions and workshops focusing in particular on applications and implementations of SDIs, research issues and new and evolving technologies and applications.

Considering the underlying objectives of both INSPIRE and Geospatial World Forum is to promote the optimal use and implementation of spatial data and resources for growth, there is an existing foundation for a synergised effort. While INSPIRE is designed to discuss the latest developments of the INSPIRE Directive, addressing common policy issues, applications and implementations of SDIs, Geospatial World Forum features success stories of private industry and users of spatial data boosting the business of spatial information and downstream dissemination of the technology applications. By combining efforts, both INSPIRE and Geospatial World Forum can create a strong case for Public-Private Partnership initiative and to strengthen dialogue and discussions for promotion of geospatial technologies with all stakeholders while enabling networking of professionals at global scale.
## Plenary Speakers

### Plenary 1

**Converging Policies, Practices & Processes through Public Private Partnership**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Position/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAYMOND O’CONNOR</td>
<td>President, Chief Executive Officer, Topcon Positioning Systems, United States</td>
</tr>
<tr>
<td>MICHAEL HOWELL</td>
<td>Deputy Program Manager, Information Sharing Environment, United States</td>
</tr>
<tr>
<td>DORINE BERMANJE</td>
<td>Chair of Executive Board, The Netherlands</td>
</tr>
<tr>
<td>JOSEF ASCHBACHER</td>
<td>Head, Programme Planning &amp; Coordination (GP-2), Earth Observation Programmes/Directorate of European Space Agency, United States</td>
</tr>
<tr>
<td>EDE IJJSZ-VASQUEZ</td>
<td>Senior Director for the Social, Urban, Rural and Resilience Global Practice, World Bank, United States, Italy</td>
</tr>
<tr>
<td>ANN ROSENBERG</td>
<td>Vice President, Head of Global SAP University Alliances, Denmark, Belgium</td>
</tr>
</tbody>
</table>

### Plenary 2

**Geospatial Technology Trends**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Position/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLA ROLLEN</td>
<td>President and Chief Executive Officer, Hexagon, Sweden</td>
</tr>
<tr>
<td>JOSEPH AREZONE</td>
<td>Sr. VP &amp; Managing Director, EMEA &amp; APAC, Faro Technologies, Singapore</td>
</tr>
<tr>
<td>ANTHONY WHELAN</td>
<td>Director, Electronic Communications Network &amp; Services, DIG CONNECT, European Commission, Belgium</td>
</tr>
<tr>
<td>ARJEN FRENTZ</td>
<td>Commission on Drinking Water, European Federation of National Drinking Water &amp; Waste Water Associations, Netherlands</td>
</tr>
<tr>
<td>GIUSEPPE SGORBAT</td>
<td>Scientific Technical Director, Regional Agency for Environmental Protection, Italy</td>
</tr>
<tr>
<td>RICARDO MENDES</td>
<td>Chief Operating Officer, Tekever, Portugal</td>
</tr>
</tbody>
</table>

### Plenary 3

**Geospatial Platform Enabling Workflows**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Position/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEVEN HAGAN</td>
<td>President and Chief Executive Officer - Global, Bentley Systems, United States</td>
</tr>
<tr>
<td>DAMIAN SPANGRUD</td>
<td>Director of Solutions, Euri, United States</td>
</tr>
<tr>
<td>TED LAMBOO</td>
<td>Senior Vice President, Infrastructure Owners – Global, Bentley Systems, Netherlands</td>
</tr>
<tr>
<td>KANWAR CHADHA</td>
<td>Executive Chairman, Binatone Global Marketing Advisor, Infrastructure, Facebook, Founder in CEO, Samsung Inc, Founder, SIMD, United States</td>
</tr>
<tr>
<td>RICHARD MARKWELL</td>
<td>President, European Association of Agricultural Machinery Industry (GEIMA), Belgium</td>
</tr>
<tr>
<td>ANDREAS ERWIG</td>
<td>Vice President, Business Development and Business Operations, Traffic and Travel Information Product Unit, TomTom, Germany</td>
</tr>
</tbody>
</table>

### Plenary 4

**Geospatial Practices Driving Policies**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Position/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>KARL FALKENBERG</td>
<td>Director General, European Commission DG Environment, Belgium</td>
</tr>
<tr>
<td>VANESSA LAWRENCE CB</td>
<td>Co-Chair, UN Initiative on Global Geospatial Information Sharing, United Kingdom</td>
</tr>
<tr>
<td>ARE USHER</td>
<td>Chief Technology Officer, HumanGeo, United States</td>
</tr>
<tr>
<td>RUI AMARO ALVES</td>
<td>Director General, Directorate General for Territorial Development, Portugal</td>
</tr>
<tr>
<td>PRASHANT SHUKLE</td>
<td>Director General, Canada Centre for Mapping &amp; Earth Observation, Natural Resources Canada, Canada</td>
</tr>
<tr>
<td>SIMON UPTON</td>
<td>Environment Director, Organisation for Economic Co-operation and Development (OECD), France</td>
</tr>
</tbody>
</table>
## DAY 1
25 MAY 2015, MONDAY

<table>
<thead>
<tr>
<th>DURATION</th>
<th>EVENT DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0900 – 1100</td>
<td>Opening Session and Ministerial Panel</td>
</tr>
<tr>
<td>1100 – 1130</td>
<td>Networking Tea/Coffee Break</td>
</tr>
<tr>
<td>1130 – 1330</td>
<td>Plenary 1: Converging Policies, Practices &amp; Processes through Public Private Partnership</td>
</tr>
<tr>
<td>1330 – 1500</td>
<td>Exhibition Opening followed by Lunch &amp; Networking</td>
</tr>
<tr>
<td>1730 – 1900</td>
<td>Evening Reception</td>
</tr>
</tbody>
</table>

## DAY 2
26 MAY 2015, TUESDAY

<table>
<thead>
<tr>
<th>DURATION</th>
<th>EVENT DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0900 – 1030</td>
<td><strong>Workshop</strong> INSPIRE: Progress in Implementation, SDI, GeoGovernance, Regional &amp; International Development, Urban and Climate Resilience and Sustainability, Data Management, GeoAgri, Measuring Progress: Achieving Smarter Cities, UAV, Workshop INSPIRE, Workshop Esri</td>
</tr>
<tr>
<td>1030 – 1100</td>
<td>Networking Tea/Coffee Break</td>
</tr>
<tr>
<td>1100 – 1300</td>
<td>Plenary 2: Geospatial Technology Trends</td>
</tr>
<tr>
<td>1300 – 1400</td>
<td>Networking Lunch</td>
</tr>
<tr>
<td>1400 – 1500</td>
<td>Exhibition Visit &amp; Networking</td>
</tr>
<tr>
<td>1730 – 1800</td>
<td>Networking Tea/Coffee Break</td>
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</tbody>
</table>
### DAY 3 27 MAY 2015, WEDNESDAY

<table>
<thead>
<tr>
<th>DURATION</th>
<th>EVENT DETAILS</th>
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</thead>
<tbody>
<tr>
<td>0900 – 1030</td>
<td><strong>1</strong></td>
</tr>
<tr>
<td>1030 – 1100</td>
<td>Networking Tea/Coffee Break</td>
</tr>
<tr>
<td>1100 – 1300</td>
<td><strong>Plenary 3</strong>: Geospatial Platform Enabling Workflows</td>
</tr>
<tr>
<td>1300 – 1400</td>
<td>Networking Lunch</td>
</tr>
<tr>
<td>1400 – 1500</td>
<td>Exhibition Visit &amp; Networking</td>
</tr>
<tr>
<td>1730 – 1800</td>
<td>Networking Tea/Coffee Break</td>
</tr>
<tr>
<td>1900</td>
<td>Awards Night &amp; Gala Dinner</td>
</tr>
</tbody>
</table>

### DAY 4 28 MAY 2015, THURSDAY

<table>
<thead>
<tr>
<th>DURATION</th>
<th>EVENT DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0900 – 1030</td>
<td><strong>1</strong></td>
</tr>
<tr>
<td>1030 – 1100</td>
<td>Networking Tea/Coffee Break</td>
</tr>
<tr>
<td>1230 – 1330</td>
<td>Networking Lunch</td>
</tr>
<tr>
<td>1500 – 1530</td>
<td>Networking Tea/Coffee Break</td>
</tr>
<tr>
<td>1530 – 1730</td>
<td><strong>Plenary 4</strong>: Geospatial Practices Driving Policies</td>
</tr>
<tr>
<td>1730 – 1830</td>
<td>Closing Panel</td>
</tr>
</tbody>
</table>
## DAY 5 | 29 MAY 2015, FRIDAY

<table>
<thead>
<tr>
<th>DURATION</th>
<th>EVENT DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0900 – 1030</td>
<td>1. <strong>Workshop:</strong> Portuguese INSPIRE Metadata  2. <strong>Workshop:</strong> INSPIRE Measurement Data  3. <strong>Workshop:</strong> Fit for Purpose - Land Administration  4. <strong>Workshop:</strong> INSPIRE Data Producer</td>
</tr>
<tr>
<td>1030 – 1100</td>
<td>Networking Tea/Coffee Break</td>
</tr>
<tr>
<td>1100 – 1230</td>
<td>1. <strong>Workshop:</strong> Portuguese SDI  2. <strong>Workshop:</strong> INSPIRE ‘Linked Data’  3. <strong>Workshop:</strong> Crowdsourcing  4. <strong>Workshop:</strong> eENVplus</td>
</tr>
<tr>
<td>1230 – 1330</td>
<td>Networking Lunch</td>
</tr>
<tr>
<td>1330 – 1500</td>
<td>1. <strong>Workshop:</strong> Portuguese SDI  2. <strong>Workshop:</strong> European Union Location Framework  3. <strong>Workshop:</strong> Crowdsourcing  4. <strong>Workshop:</strong> INSPIRE ‘Agriculture’</td>
</tr>
<tr>
<td>1500 – 1530</td>
<td>Networking Tea/Coffee Break</td>
</tr>
<tr>
<td>1530 – 1700</td>
<td>1. <strong>Workshop:</strong> Portuguese SDI  2. <strong>Workshop:</strong> Standards Conformance  3. <strong>Workshop:</strong> Crowdsourcing  4. <strong>Workshop:</strong> Measuring success of INSPIRE Services</td>
</tr>
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**Understanding our world.**

Esri believes that geography is at the heart of building a more resilient and sustainable world.

Geographic knowledge allows you to make critical decisions and empowers you to positively impact the future.

Gain a greater understanding of the world around you.

We can help.

Learn more at [esri.com](http://esri.com).
SPATIAL DATA INFRASTRUCTURE

Highlights

» The best SDI practices from around the globe
» Evolution of local and regional SDIs
» SDI policies
» Connecting SDI to an open data portal

GEOSPATIAL INFORMATION contributes between $18-21 billion in GDP to the Canadian economy through productivity improvements distributed across Canada.

CATALAN SDI BROUGHT internal efficiency benefits of €2.6 million/year with investment recovered within 6 months of implementation.
STANDARDS & INTEROPERABILITY

**Highlights**

- The latest ISO-OGC-W3C-IETF standards for geographic information
- Interoperability solutions for European public administrations
- Interoperability of spatial data related to indoor space

GEOSPATIAL POLICIES

**Highlights**

- Use of geospatial information in policy-making process
- International and European legal framework for geospatial data and services
- Licensing of spatial data access and distribution

A GLOBAL open data policy could add an extra 1 percent of growth to the global economy over the next five years.

ONE OF THE GREATEST policy challenges over the coming years in the global geospatial community will be how countries can meet the increasing demand for free content that the Internet and the presence of organisations such as Google® and Microsoft®/Bing® has brought.

PROJECT THAT ADOPTED and implemented geospatial interoperability standards had a risk-adjusted RoI of 119%

NASA Geospatial Interoperability, RoI Study
IMPROVING government’s digital services and moving more services online contributed over £200 million of savings in the UK (2013-14).

THERE IS A need for 1.5 million more analysts in the US alone to take advantage of big data.

THE USHAHIDI HAITI earthquake website translated 25,186 SMS messages and numerous e-mail, Web, and social media communications from citizens resulting in 3,596 georeferenced reports that were displayed cartographically via the web and acted on by government and intergovernmental humanitarian actors.

3 MILLION PEOPLE joined DigitalGlobe’s crowdsourcing platform Tomnod to locate the missing Malaysia Airlines plane MH370 generating 257 million map views and 2.9 million areas tagged.

GIS-RELATED jobs outlook for the period 2010 to 2020 in US was set for growth of between 16% and 35%.

» Geoportal as a tool for e-Government
» Emerging opportunities for public sector
» SDI challenges and opportunities for small and medium sized municipalities

» Capacity development from industry, government and institutional point of views
» Public-Private Partnerships
» Assessment of best practices of national coordination agencies
» Effective training courses for capacity building

» VGI-SDI integration
» Big data processing and apps for citizens’ observatories
» Participatory planning for city governance

THE USHAHIDI HAITI earthquake website translated 25,186 SMS messages and numerous e-mail, Web, and social media communications from citizens resulting in 3,596 georeferenced reports that were displayed cartographically via the web and acted on by government and intergovernmental humanitarian actors.
SPATIAL PLANNING

• Provision of geospatial information for spatial planning processes
• Spatial zoning plans regulations and distribution
• Harmonizing land use plans into spatial datasets towards sustainable spatial planning

REGIONAL & INTERNATIONAL DEVELOPMENT

• Successful cross-border initiatives across Europe
• African Union Border Programme
• Trans-border integration of open data and open services

MEASURING PROGRESS: ACHIEVING SMARTER CITIES

37.5% of the EU population lives in border areas, along some 30 internal borders made up of geographic and linguistic barriers and improved road safety in the Netherlands shows that spatial planning leads to a higher bicycle use and improved road safety.
Some countries reported that costs of implementing INSPIRE are higher than expected in guidance and coordination due to the complexity of the data specifications. INSPIRE 2013 Report.

TRANSFORMING THE WORK OF PROFESSIONALS ACROSS THE GLOBE

Trimble is transforming the way the world works. We are committed to providing our customers with world-class geospatial technology enabling faster, more robust data for accurate smarter decision making for professionals in many industries around the world.

Trimble’s industry-specific solutions integrate advanced capabilities that help customers tackle some of the greatest challenges industries face including:

• Constructing, maintaining and operating roads, railways and other civil infrastructure more quickly, safely, and cost-efficiently.
• Producing more food per acre at lower cost and with lower environmental impact.
• Generating and distributing energy, water and natural resources more quickly, safely and cost-efficiently, with greater compliance.
• Building, maintaining and operating residential and commercial buildings in less time, at lower cost, and to higher quality and environmental standards.

Trimble solutions are at work in more than 150 countries and have been used everywhere from North Pole expeditions to Antarctic surveys, from re-measuring the height of Mount Everest to helping rescue miners trapped deep underground. Our research & development centers, regional offices and manufacturing centers are located in more than 34 countries and our global partner network provides local sales, consulting, training, technical support, service and repair in over 125 countries.

Learn more about Trimble’s Geospatial Solutions at www.trimble.com
DATA MANAGEMENT

Highlights
» The entire spectrum of data management – from collection, publication, distribution and collaboration!
» Success stories from user agencies on geospatial data management
» State-of-the-art technology for data storage and harmonisation

AHMED ABUKHATER
Director, Shipping and GIS
Trimble
United States

MONIKA ORSIETA
Institute of Meteorology and Water Management
Ministry of Environment
Poland

SCOTT WILSON
Information Modeler
ECOCERT
Belgium

OPEN DATA

Highlights
» Open data in earth observation sector
» Creation of next generation open data and value outreach
» Sharing of non-open data from private users’ point of view

IRODOS VARVAKIS
Head of Geoinformatics
Department Geospatial Enabling Technologies
Greece

ARNOLD BRET
Professor
Wageningen University
Netherlands

LORENZO BRAGA
National Research Council Italy
Institute of Atmospheric Pollution Research
Italy

QUEENSLAND GOVERNMENT
in Australia saw a 500% increase in usage less than a year after making public data openly available on its portal

DATA CONSTRAINTS are estimated to have reduced direct productivity impacts in certain sectors by 5% to 15%
### Highlights

- Infrastructure to manage European Copernicus big data
- Managing large volume of 3D geospatial data-sets
- Big data analytics over open governmental spatial data

### Highlights

- 3D city modelling with WebGL technology
- 3D and 4D aspects in INSPIRE
- Augmented reality in mobile GIS
- Virtual reality for cultural heritage

### Highlights

- Publishing value added EO products as linked data
- GIS and Linked Data concept for effective governance
- Cloud-based Spatial Data Infrastructure for Smart Cities

---

**ECONOMIC VALUE**

of big geospatial data could reach $700 billion/yr by 2020

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CLOUD COMPUTING is now used by 54% of businesses due to the increase in mobile computing

---

THE NETWORK of tomorrow, built on an increasing number of sensors and thus increasing data volumes, will produce a hyper-connected environment or “Internet of Things”, with estimates of over 50 billion things connected by 2020.
EARTH OBSERVATION

Highlights
» New capabilities of sensors, i.e. video
» New developments in Radar
» Accuracy and application of stereo-matching for 3D city modelling

WEB GIS

Highlights
» Web services for different user application: electricity, port management, road network, etc.
» Developing geo apps - do’s and don’ts
» Web-based governmental spatial data sharing

UAV

Highlights
» The latest sensors trend on board UAVs
» Broad spectrum of successful user case studies
» Integrated approach of UAV and mobile laser scanning system

1000 SATELLITES are planned for launch in the next 5-10 years

INSTITUTIONAL PARTNERS

EARTH OBSERVATION

WEB GIS

UAV
**OPEN SOURCE**

**Highlights**

- European SMEs presenting the latest open source development
- Interoperable SDIs on open source platform
- User experience of utilizing open source services

**GEOBIM**

**Highlights**

- Integrating GIT, BIM and ICT for sustainable infrastructure
- Case studies of geospatially-enabled infrastructure asset development and maintenance
- Achieving optimal ROI from GeoBIM

---

**INDONESIAN tax agency recorded 90% savings by using open source systems**

**COST OF MAINTAINING and operating a building over 20 years can be up to 30 times the original construction cost**

**CONSTRUCTION INDUSTRY including buildings, electric power, water and wastewater, roads, rail & sea ports and airports, contributes about $7 trillion annually, or 10%, to the world GDP**

**UK GOVERNMENT estimates that it has achieved savings of £1.4 billion through BIM and related improvements in the 2013/2014 fiscal year**

**MEDIA PARTNER**

**BIMcrunch**, ITIL Enabled
GEO SERVICES can improve agricultural irrigation, helping to achieve global cost savings of $8-22 billion per year.

AN INCREASE of 50% of agricultural production is required by 2050.

RESEARCH ORGANIZATIONS, industry and policy makers discussing smart solutions to help farmers worldwide.

Increasing use and benefits of UAVs, aerial photography and high resolution data for combating the agriculture challenges.

GEOAGRI

Highlights
- Research organizations, industry and policy makers discussing smart solutions to help farmers worldwide
- Increasing use and benefits of UAVs, aerial photography and high resolution data for combating the agriculture challenges

GEOHYDRO

Highlights
- This session will cover both water utility and hydrography
- European Water Framework Directive
- Linking utility network/ hydrography data with sensor data, weather forecast data, and risk maps

GEOHEALTH

Highlights
- Potential of geospatial information for disease prevention and rehabilitation
- Spatial analysis of health facilities accessibility
- Web-based health information geospatial

EUROPE contains over 500,000 natural lakes larger than 1 ha.

THERE IS A SIGNIFICANT increase in the use of intelligent systems for large-scale analysis of biomedical data, socially relevant data and metadata, such as information about the spread of disease or certain health habits in populations.
AMONG THE WORLD’S urban regions with populations of more than five million, nearly two thirds are located in low elevation coastal zones.

AUSTRALIAN Bureau of Statistics develops Statistical Spatial Framework to connect people-centric (socio-economic) information to a location, and improve the accessibility and usability of spatially-enabled information.

RESILIENCE isn’t the new sustainability—it’s a whole new market. The Elkington Report

$70 BILLION in Hurricane Sandy losses instigated the first serious government proposals to consider the actual abandonment of established coastal communities in New York City.

IT COULD COST £12 million to attempt to harmonize existing administrative data at person level into centralized address database for census.

European statistical agencies sharing their experience in integrating geospatial into their workflow.

Spatial representation of census and surveys.

Impact of open data policy in statistical services.

Frameworks and mechanism addressing resilience and sustainability challenges from urban perspective.

User and community requirements to enable geospatial applications.

Location standards and interoperability.

STRATEGIC PARTNERS

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REFAZ DURO Scientist Austrian Institute of Technology Austria

MARIE CRISTINA BUETI Advisor International Telecommunication Unioin Switzerland

SLAYER KUO YI CHIANG Co-Founder/CEO GeoThings Taiwan

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MARIE CRISTINA BUETI Advisor International Telecommunication Unioin Switzerland

STRENGTHS

» European statistical agencies sharing their experience in integrating geospatial into their workflow.

» Spatial representation of census and surveys.

» Impact of open data policy in statistical services.

Highlights

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» Spatial representation of census and surveys.

» Impact of open data policy in statistical services.

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Highlights

» European statistical agencies sharing their experience in integrating geospatial into their workflow.

» Spatial representation of census and surveys.

» Impact of open data policy in statistical services.
LAND USE & ENVIRONMENT

Highlights
» Improving land use/environmental policy with geospatial information
» Spatial modeling of wildlife corridors network
» Geospatial technology to collect soil data

MINING AND ENERGY

Highlights
» Geospatial technology in minerals and geological data collection
» Harmonized minerals geoportal in Europe
» Geospatial analysis towards sustainable and renewable energy potential

TRANSOLUTION AND NAVIGATION

Highlights
» Geospatial technology in road, railways and port management
» GPS-based traffic sign inventory
» Universal address and postal system using geo-location

Failing to implement environment legislation is thought to cost the EU economy around €50 billion every year.

GLOBAL ENERGY consumption will grow 30% between 2010 and 2040.

7 BN GNSS devices by 2022 – almost one for every person on the planet!
COASTAL & MARINE

Highlights
» Integrated GIS for marine and coastal water management
» Coastal and Marine SDI Geoportals
» Maritime spatial planning framework

Young professionals under the age of 35
Postgraduates
Undergraduates

Professional development has been a major hurdle in geospatial industry of late. Continuous evolution in the areas of sensors for data acquisition, data management, real time analytics and visual interaction paradigms, together with the increasing prevalence of cloud computing, is affecting the capacity requirements in both government and private sectors. The future roles of young geospatial professionals are no longer seen as traditional geographers or surveyors, rather the market is demanding for software developers, spatial analysts, 3D modeler, data integrators, etc.

The Young Professionals Forum shall address the latest trend of the industry with talks from senior executives and HR managers of major public and private geospatial companies discussing what they’re looking for in employees. Young CEOs of well-known start ups too, will share their inspirational stories and vision on how young professionals can shape the future of geospatial industry.

**AGENDA**

**Geospatial Industry: The BIG Picture**
Senior executives of major public and private geospatial companies shall offer their takes on the future direction of geospatial industry, and how young professionals can prepare themselves to fit in.

**Adapting to New Opportunities**
Young CEOs and HR Managers will share their practical know-how on adapting to new environments and job requirements, which not always meet young professionals’ expectations.

**Students Presentation**
Students will be given the opportunity to present their research work and receive feedbacks from the mentors. Students will be selected from a separate call for papers, exclusively for Young Professionals Forum.

**YOUNG PROFESSIONALS POSTER CONTEST**
Poster Theme: Young Professionals Driving the Future of Innovations
Young professionals are invited to prepare an A3 size poster to be displayed at the conference exhibition foyer to promote their idea of innovation that could disrupt the industry. A group of selected jurors will evaluate the ideas and the best idea will be announced at the end of the Young Professionals Forum.

Kindly write to sarah@geospatialmedia.net to participate in the poster contest.

**TARGET AUDIENCE**
**EUROGI Policy Papers**

**WORKSHOP OBJECTIVES**

> EUROGI, the European Umbrella Organisation for Geographic Information, has identified five important topics to write policy position papers from Geographic Information (GI) and GeoTechnologies (GT) perspective, namely, Open Data, Big/Linked Data, Internet of Things, SME Promotion, and Sustainable Urban and Regional Development. Preliminary discussions on these five identified topics will be held in two separate workshops hosted by EUROGI.

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**UN-GGIM Future Trends in Geospatial Information Management: Revision**

**WORKSHOP OBJECTIVES**

> To review the first draft of the Second Edition of ‘Future trends in geospatial information management: the five to ten year vision’ report that will be published in April 2015;
> To discuss the key themes contained within the document and to contribute additional information to the final draft.

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**Measuring the Success of Your INSPIRE Services**

**WORKSHOP OBJECTIVES**

> To explore tangible ways of evaluating current success and measuring user impacts of the changes made in the services and datasets provided;
> To show participants how to collect the metrics for their services and use the data for planning and implementing targeted improvements to their data provisioning.

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**Legal Issues for Geospatial Data and Services**

**WORKSHOP OBJECTIVES**

> To provide insight into the most critical legal issues in global geospatial industry, such as open data policies, licensing, privacy, warranty/liability, or special aspects of UAS operations.

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**Space to Village - SERVIR Science Applications to Support Informed Decisions**

**WORKSHOP OBJECTIVES**

> To introduce SERVIR, a platform to improve environmental management and resilience to climate change by strengthening the capacity of governments and other key stakeholders to integrate Earth observations and geospatial technologies into decision making for sustainable development within the hub regions and beyond;
> To exchange and share knowledge and experience of SERVIR science applications carried out within hub regions and SERVIR coordination office.

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**Hybrid (Indoor and Outdoor) Location Based Services and Mapping**

**WORKSHOP OBJECTIVES**

> To present IndoorGML, the recent standard voted by the Open Geospatial Consortium, and its implementation in Ilocane, the EC-funded project that is delivering an open source LBS toolkit based on open standards and on use of open indoor maps;
> To highlight how the results of the project will help unleash the full potential of “hybrid” indoor and outdoor LBS.
Workshop Objectives:

**OneGeology: Providing Geoscience Data Globally**

- Assessing the needs and trends of transition from geological map data to geoscience data including 3D models;
- Organisation model to ensure sustainability - from project to Consortium (and beyond);
- Comparing/testing the model with similar/inter models;
- Supporting standard development, and platform to ensure coordination of continental-scale initiatives.

**Capacity building with the Geoinformation Enabling Toolkit (GET-IT)**

- To understand how to easily kick-start an OGC-compliant node for the provision of geographic and sensor data;
- To learn how to customise the metadata editing interface by means of the templating language that have been defined;
- To define the context information that is referred to by the application for easing metadata editing.

**Urban Energy**

- To discuss the need for a Covenant of Mayors (CoM) data hub, where to publish, discover and access detailed information about geodata related to actions defined by Signatories of the CoM;
- To introduce the OGC CityGML Energy ADE, developed and tested by an international urban energy group;
- To disseminate the first results of the activities and tests performed by the CityGML ADE Energy Working Group and collect feedback.

**INSPIRE with Open Source**

- To introduce attendees to OpenGeo Suite, a complete geospatial platform for managing data and building maps and applications across web browsers, desktops, and mobile devices.

**Cross Border Spatial Data Infrastructures**

- To learn about spatial data infrastructures and other cross border projects related with data interoperability in cross border regions;
- To address the specifications of cross border SDI and similar projects, the problems of data compatibility, the generation of cross border indicators, the methodological and technological solutions and future perspectives.

**Power Tools for Satellite Imagery: Working with an Open Source Imagery Processing Pipeline**

- To introduce participants to Landsat-util, the open source command line utility developed for processing Landsat-8 imagery;
- To help participants run smarter, faster and better analysis and research using satellite products.

Speakers:

**OneGeology: Providing Geoscience Data Globally**

- Marko Komar, Managing Director of OneGeology Belgium

**Capacity building with the Geoinformation Enabling Toolkit (GET-IT)**

- Cristiano Fugazza, Researcher, Institute for Electromagnetic Sensing of the Environment, Italy

**Urban Energy**

- Piergiorgio Cipriano, Project Manager of Sinergis, Italy
- Luca Giovannini, Project Manager of Sinergis, Italy

**INSPIRE with Open Source**

- Benjamin Trigona-Harany, Global Support Lead of Boundless, United States

**Cross Border Spatial Data Infrastructures**

- Teresa Batista, Professor of CIMAC and ICAAM, University of Evora, Portugal

**Power Tools for Satellite Imagery: Working with an Open Source Imagery Processing Pipeline**

- Olaf Veerman, Project Lead of Development Seed, Portugal
Data Infrastructures for Sustainable Growth

WORKSHOP OBJECTIVES

- To obtain an overview/state of the art on “SDI in Portuguese” around the world;
- To identify which are the specificities of each country/SDI development, what is common, what is different and why;
- To understand what can we learn from each other and which types of collaboration may be established;
- To promote capacity building initiatives tackling the main gaps and the available experience to fulfil it.

SDIs in Portuguese around the World

WORKSHOP OBJECTIVES

- To discuss specifically on waste water dataset INSPIRE harmonisation and possible improvement of the waste water tables including future adaptation to other waste water data providers and users;
- To discuss on the two specific waste water data viewers developed at EEA level and at national level under the SHF concept and the possible improvements of the functionalities;
- To discuss on existing IT tools developed to ease the work of the Member States and potential future.

INSPIRE – From Compliance to Maximizing Use in an Open Innovation Ecosystem

WORKSHOP OBJECTIVES

- To become familiar with key concepts and general approaches for integrating between proprietary GIS and CAD systems and typical INSPIRE data models;
- To become familiar with key concepts and general approaches for leveraging existing sources for 3D data to meet mandated requirements for 3D INSPIRE themes such as Buildings.

INSPIRE Data Transformation with FME

WORKSHOP OBJECTIVES

- To demonstrate how ArcGIS platform is expanding the capabilities beyond pure INSPIRE compliance to maximize the use of the information provided by leveraging on premise, cloud and hybrid systems for the benefit of user community;
- To illustrate how selected INSPIRE compliant Annex I, II & III data sets are not just being served out in an INSPIRE compliant form but have been embedded into useful information products that can be easily consumed using a variety of apps.

Leveraging INSPIRE SDI in e-government services: The Oskari Platform

WORKSHOP OBJECTIVES

- The workshop will demonstrate, how to leverage the benefits of the INSPIRE distributed SDI using the Oskari platform:
  - Adding OGC WMS/WMTS/WFS data sources
  - Adding your own data from files, e.g. SHP, MID/MIF, GPX
  - Creating embedded maps for other websites
  - Visualizing statistical data
  - Performing spatial analysis.
INSPIRE Training

WORKSHOP OBJECTIVES
> To provide an overview of INSPIRE Directive with practical examples and exercises. At the end of this training, participants will:
> know the INSPIRE Directive and its relation to other policy areas;
> know INSPIRE roadmap and implementation process/progress;
> know how to use INSPIRE.

Merging Statistics and Geospatial Information - Lessons Learned towards INSPIRE

WORKSHOP OBJECTIVES
> To share knowledge developed in the National Statistical Institutes (NSI) towards stronger implementation of geographical information together with statistical applications;
> To provide overview of the current state of play of Statistics and GI in respect to INSPIRE;
> To identify set of issues (lessons learned) to be used as guidance for future developments in the European NSIs.

INSPIRE Harmonization: The “Water” Cross-Border Layer

WORKSHOP OBJECTIVES
> To develop cross-border/marine regional/sub-regional reference data layer;
> To transform participants’ MS spatial data into INSPIRE GML using transformation software HALE;
> To create one cross border data set for “water” and/or “marine” related INSPIRE themes as Hydrography, Environmental Monitoring Features, Species Distribution, Area Management, etc.

Coordination between Data Producers: NMCA Experience

WORKSHOP OBJECTIVES
> To introduce the new initiative of the INSPIRE Thematic Clusters Collaboration Platform, developed to support INSPIRE implementation in the Members States;
> To present and describe an initial list of detected, relevant implementation issues in this scope;
> To promote discussion with the audience (implementers, users, technical experts) and get feedback and results on these topics.

INSPIRE: Topographic and Cadastral Reference Data
**Land Cover and Land Use**

**WORKSHOP OBJECTIVES**
- To present and describe an initial list of detected, relevant implementation issues and on-going projects and developments in the scope of the Land Cover and Land Use themes;
- To discuss how EAGLE land cover data model can be utilized by other INSPIRE themes, such as Buildings, Biotopes and Habitats, Hydrography, Agricultural Facilities, Soil, Sea Regions, Natural Risk Zones, etc.

**The INSPIRE GIS**

**WORKSHOP OBJECTIVES**
- To demonstrate how to use Open Source applications as a capable, integrated GIS;
- To explain how a deegree services backed, wetransform to ETL and analytics combined with different online + desktop clients can be used to perform everything in a proper GIS.

**Overview and Improvements on Portuguese INSPIRE Metadata**

**WORKSHOP OBJECTIVES**
- To make an overview of the situation on Portuguese metadata regarding the INSPIRE Directive;
- To improve the quality of the Portuguese INSPIRE metadata through the explanation of the problems that exist and where the metadata managers should intervene;
- To submit new proposals and relevant information
- To strengthen the metadata managers network through communication between the participants.

**Web Mapping with OGC Services and GeoServer: An Introduction**

**WORKSHOP OBJECTIVES**
- To provide hands on introduction to the basic GeoServer concepts, as well as usage and configuration, with particular attention to the setup of INSPIRE compliant view services with a demonstration set of data in various formats, both raster and vector.

**Conformance Testing and Registries in SDIs**

**WORKSHOP OBJECTIVES**
- To present challenges and opportunities in the ongoing work on conformance testing in INSPIRE, the Open Geospatial Consortium (OGC) and other geospatial initiatives;
- To present challenges and opportunities in the ongoing INSPIRE work on registers and registries and how to link them into registry federations;
- To present a testbed for linking central European registers with national and thematic registers that extend the European registers.

**Could Agriculture Benefit from INSPIRE? Could INSPIRE Benefit from Agriculture?**

**WORKSHOP OBJECTIVES**
- To demonstrate, how agriculture could benefit from INSPIRE standardisation effort;
- To analyse, how INSPIRE standards could be transformed into Farm Management Information Systems and how information collected on the level of farms could become part of INSPIRE infrastructure.

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Federal Statistical Office
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Project manager
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Czech Republic

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**54**

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**55**
WORKSHOP OBJECTIVES
> To present the basic concepts needed to understand the Environmental Monitoring Facilities (EF) data model, the observations and measurements (OMM) framework and the standards useful to provide observations and measurement data within INSPIRE;
> To discuss concrete implementations of INSPIRE based Environmental Monitoring Facilities data services, problems encountered and ways forward towards successful data delivery;
> To introduce the new initiative of the INSPIRE.

WORKSHOP OBJECTIVES
> To make participants understand the essential concepts of geospatial Linked Data and metadata and their impact on INSPIRE;
> To offer best practices for transforming INSPIRE features as RDF triples;
> To point out the potential benefits from reusing existing INSPIRE SDIs for data discovery, retrieval, interlinking, fusion, and reasoning;
> To discuss the challenges towards INSPIRE-aligned semantic data infrastructures.

WORKSHOP OBJECTIVES
> To present the eENVplus project and its value to support institutions and stakeholders in the INSPIRE implementation in different application domains;
> To address the e-Government aspects of the project by using data and results produced by the pilots at national level, with a specific focus on Portugal area;
> To present a live demo of the major services available in the eENVplus infrastructure and some highlighted pilot demonstrator application.

WORKSHOP OBJECTIVES
> The aim of this workshop is to take stock of what has been planned, and what has been achieved thus far in the context of the UN-GGIM: Europe.

WORKSHOP OBJECTIVES
> To show how INSPIRE can be used in delivering effective e-government across sectors and borders;
> To understand the current status of the recommendations and guidelines within the EULF and how they fit in the wider context of e-government interoperability (the European Interoperability Reference Architecture);
> To shape the approach and road map for future location-enabled policies and services.

WORKSHOP OBJECTIVES
> To be able to characterize the key aspects of VGI, its advantages and existing challenges;
> To get acquainted with the different type of VGI initiatives and Citizens’ Observatories Projects and their characteristics;
> To obtain an overview of on-going VGI/crowdsourcing initiative;
> To get some skills through hands-on outdoor session;
> To collect, analyse and share the data.

WORKSHOP OBJECTIVES
> To present the basic concepts needed to understand the Environmental Monitoring Facilities (EF) data model, the observations and measurements (OMM) framework and the standards useful to provide observations and measurement data within INSPIRE;
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GEOSPATIAL WORLD AWARDS

Geospatial World – Your Geospatial Industry Magazine published by Geospatial Media & Communications has been conferring awards and recognitions for exemplary innovations and practices by geospatial technology developers, professionals, end users and policy makers in the global geospatial industry. The award ceremony will be held on 27th May during the gala dinner.

Award Categories:
Geospatial World Leadership Awards
Geospatial World Excellence Awards
Geospatial World Innovation Awards
Geospatial World Policy Awards

EXHIBITION

DEVELOP YOUR BUSINESS, NETWORK AND CONNECT @ INSPIRE-GWF 2015 EXHIBITION

Once again you have an opportunity to secure a space in the platform where the largest geospatial companies, most active regional industry and many large-scale user organizations from across the globe come together to showcase their products and services. The exhibition will offer your company visibility and exposure to some of the largest and most invested users of the technology from different parts of the world.

EXHIBITION FEE

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<thead>
<tr>
<th></th>
<th>SME/Institutional Space</th>
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<td>Exhibition Rate</td>
<td>EUR 400 per sqm</td>
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<tr>
<td>SME/Institutional Space</td>
<td>EUR 2000</td>
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HIGHLIGHTS:

- 1300+ sq m exhibition space
- 2000+ expected delegates/visitors from 80+ countries
- Special SME/Institutional Corner at competitive rate (first come first serve basis)
- Workshops and Technology Presentations inside Exhibition Hall
- Dedicated time for exhibition visit daily

Write to exhibition@INSPIRE-GWF.org for exhibition-related queries
## REGISTRATION

<table>
<thead>
<tr>
<th>Categories</th>
<th>Regular Registration</th>
<th>Late Registration</th>
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<tbody>
<tr>
<td><strong>Regular (All 5 days) Till 5th May 2015</strong></td>
<td>Euro 555</td>
<td>Euro 675</td>
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<tr>
<td>Two Day registration</td>
<td>Euro 370</td>
<td>Euro 500</td>
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<tr>
<td>One Day Registration</td>
<td>Euro 250</td>
<td>Euro 370</td>
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<tr>
<td>Exhibition visit (26-28 May 2015)</td>
<td>Euro 100 for all days</td>
<td>Euro 60 for one day</td>
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<tr>
<td>Award Night &amp; Gala Dinner ticket</td>
<td>Euro 125</td>
<td>Euro 155</td>
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<tr>
<td>Students Registration (Doesn't include award dinner ticket)</td>
<td>Euro 125 (for 5 days)</td>
<td>Euro 60 (for 2 days)</td>
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<td>Euro 40 (1 day)</td>
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*Read the full registration benefits and riders at [http://www.geospatialworldforum.org](http://www.geospatialworldforum.org) or write to registration@INSPIRE-GWF.org*

## REGIONAL CONTACTS

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