



Future Proofing the Provision of Geoinformation: Emerging Technologies

An Exchange with the Geospatial Industry for Global Geospatial Information Management (GGIM)
3 February 2013, Qatar National Convention Centre, Doha, Qatar

PREAMBLE and BACKGROUND

The Second High Level Forum on Global Geospatial Information Management will be held in Doha, Qatar, 4-6 February 2013. An Exchange Forum with the Geospatial Industry will be held on the day immediately before the Second High Level Forum on GGIM, on Sunday February 3, 2013. Following the success of the last Exchange Forum with the Geospatial Industry, held in Seoul, Korea, in October 2011 this Exchange continues the discourse between Industry, Government, Organisations and the research community.

This pre-conference exchange will facilitate the continued involvement of the geospatial industry at the most senior levels in the discussions surrounding UN-GGIM. It serves as a means for the industry to 'tie' into the GGIM agenda, while demonstrating some of the trends and directions in which the industry is heading.

Rapid advances in technology, information access, methodologies and equipment have meant that geospatial information is collected, globally, to high precision, processed using innovative software applications and made available via contemporary communications methods. This information is underpinned by accurate geodetic data from globally-distributed geodetic infrastructure, precision data collection methods, comprehensive analysis tools, the provision of global geospatial information, integrated data collection and mapping activities, formalized agreements and specifications and innovative means for information provision and visualization. It is therefore important that all stakeholders in global geospatial information collection, delivery, representation analysis and use are cognizant of current technologies, equipment and methodologies. As well, it is equally important that they are aware of emerging trends, developing technologies and future geospatial data usage and communication tools.

This Exchange is being held to disseminate information between stakeholders and to address how best to future proof the provision of geoinformation through the application of emerging technologies

STRUCTURE

The Exchange will operate around four focus issues:

- Determining place
The session will address the methods and technologies used to determine place. Advances in geodetic reference frames and techniques, surveying



methods and technologies and the overarching concepts of geographic information collection and classification are the themes of this focus session. The session will cover how new technologies can be used to facilitate the efficient location of geographic information – from global to local applications.

- **Monitoring place**
Advances in remote sensing and imaging, and related technologies continue to make data collection, monitoring and surveillance more efficient. This is happening from local to global applications. This session will provide discourse on technologies, strategies and methodologies that facilitate essential information capture to support global geospatial initiatives.
- **Connecting place**
Facilitating the accessibility and usefulness of geolocated data and collected information relies upon having systems and agreements in place that enable the efficient use of these resources. At a global level, just having information available is not enough – efficient and usable methods for management, access and dissemination are needed. This session will cover the advances in research and development and current initiatives being applied to ensure that decision-makers are able to better access and use geospatial data and information.
- **Delivering [geoinformation about] place**
Once geospatial data and information is collected, analysed and represented there exists the need to have systems and standards in place to ensure efficient delivery of that data and information. Rapid advances are being made in this area, as electronic production and publishing methods are combined with contemporary communications systems for output and delivery. This session will provide information regarding current and developing technologies for production and delivery of authoritative data and information for decision-makers.

OPERATION

The overall moderator is William Cartwright, Chair of the Joint Board - GIS (JBGIS)

Each session will comprise:

- An overview by the session chair
 - *Representatives of the JBGIS will chair each session:
 - Session 1 – International Hydrographic Organization (IHO)
 - Session 2 – IEEE Geoscience and Remote Sensing Society (IEEE-GRSS)
 - Session 3 - International Map Industry Association (IMIA)
 - Session 4 - International Steering Committee for Global Mapping (ISCGM)
- A 'scene-setting' key presentation (15 min)
- 3 'lightning talks' (3x10 min)
 - JBGIS representatives –
 - Session 1 – International Association of Geodesy (IAG)



- Session 2 – International Society of Photogrammetry and Remote Sensing (ISPRS)
- Session 3 - Global Spatial Data Infrastructure (GSDI) Association and
- Session 4 - International Cartographic Association (ICA)
 - Industry/research presenters
 - Government presenters
- A summary by rapporteur (chair) (15 min)
- Q & A and Discussion (15 min)

At the conclusion of the Exchange a Panel Discussion will be held (30 min). The moderator will chair this. Panel members will comprise all speakers from the Exchange sessions.

At the end of the Exchange the Moderator of the Exchange will present conclusions and recommendations (30 min).

Notes:

- a. Representatives of the UN (Kyoung-Soo Eom, Chief Cartographic Section and Officer-in-Charge, Strategic Support Service, Department of Field Support, United Nations), the Qatar Government and JBGIS (Chair, JBGIS) will give a welcome to the Exchange.
- b. The exchange forum will be moderated by the Chair of JBGIS
- c. A representative of member organizations of JGIS will chair each session.
- d. Each speaker will be allocated a specific time to present:
 - Keynote 15 minutes
 - 'Lightning' talks 10 minutes
 - *Lightning talks will address the topic of the Exchange from the perspective of the organization/discipline that the speaker represents.
- e. No questions will be taken between presentations.
- f. Questions will be addressed during the Q & A and Discussion section of each session
- g. The Moderator of the Exchange will chair the panel discussion.
- h. The session chair will provide a written position piece (~1 page) (a personal reflection on the session) at the end of the session. This will contribute to a formal summary of the Exchange session.

RECOMMENDATIONS AND CONCLUSIONS

The Moderator of the Exchange, with the assistance of members of JBGIS, will be responsible for preparing a report of the Exchange presentations and discussions.

It is suggested that the Moderator of the Exchange present a summary of the Recommendations and Conclusions in the Plenary Session of GGIM.