

Report

Asia Geospatial Forum 2011



17-19 October 2011

Hotel Mulia Senayan,
Jakarta, Indonesia

Organiser



Host Organiser



Inaugural

With the objective of connecting communities and raising the profile of the industry within Asia Pacific region, Asia Geospatial Forum was inaugurated in Jakarta, Indonesia. It brought together over 700 professionals from 28 countries to share their experiences, to learn from one another and to debate on the future development.

While welcoming the gathering, Dr. Asep Karsidi, Head of BAKOSURTANAL announced the launch of Indonesia geoportals (INA-SDI) and soft-launch of their new name “Badan Informasi Geospasial - BIG” (Geospatial Information Agency). The name change further strengthens its role and commitment to growing the use of geospatial technology in the country. According to him, geospatial technology has an important role to play in the country in addressing regional inequalities, utilization of natural resources and climate change.



In his introductory remarks, Sanjay Kumar, CEO, Geospatial Media & Communications, congratulated Indonesia on taking leadership in establishing the Geospatial Act. Analysing the trends in the geospatial industry, he observed that the technologies that have evolved over the last five years would be the real drivers for the industry.

Dr. Idwan Suardi, Deputy Minister for Science & Technology Utilisation, Indonesia stressed in his inaugural address on strengthening national innovation system. As it adopts geospatial solutions offered by various companies from across the world, it also needs to come up with its own technology for addressing various issues.



Dr. Suryo Adiwibowo, Special Deputy Head of National Land Agency, speaking on behalf of Dr. Joyo Winoto, Head of National Land Agency, informed that the present mandate of the Agency (since 2006) is fostering the realization of land for justice and prosperity. A major mandated programme for the Agency includes agrarian reforms. According to him, a key condition for

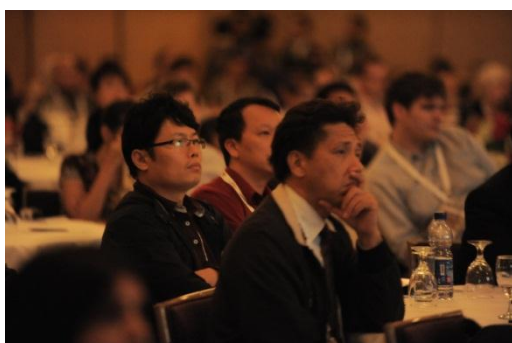
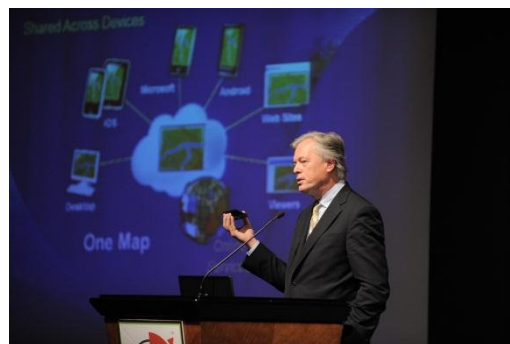
successful agrarian reforms includes sufficient data and information, implying an integrated geospatial information system.



Dr. Bambang Susantono, Vice Minister, Ministry of Transportation, Indonesia deliberated upon the role and support of GIS for the development of national connectivity. Informing the audience about the national development programme MP3EI (Masterplan for Acceleration and Expansion of Indonesia Economic Development) that is estimated to see investments of USD 400 billion over the next four years and includes the development of six economic corridors in different parts of Indonesia, he expressed that its success will depend on transport connectivity.

In the keynote address, John Graham, President – Security, Government and Infrastructure, Intergraph Corp., focused on the need for evolving technology to adapt to challenges. Also according to him, explosion of data is one of the biggest challenges. John dwelled upon the importance of integrated geospatial solutions in various applications, including smart governance, smart grid, safe cities, and safeguarding the nation.

In the other keynote address, Lawrie Jordan, Director of Imagery, Esri, discussed trends and challenges in geospatial technologies. He observed that many forces are converging, enabling a pervasive geospatial platform. According to him, intelligent web maps are the new medium for integrated services. He also shared that GIS is moving into online environment, making accessibility easier.



Plenary sessions

The plenary sessions on the inaugural day dwelled upon the role of geospatial technology in nation building and various other applications.



In Plenary I, Dr. Ir. Kuntoro Mangkusubroto, Head of President's Delivery Unit for Development Monitoring and Oversight (UKP4), discussed the role of geospatial technologies in monitoring the development programmes, with emphasis on governance reform and public participation. Dr. Ir. Max Hasudungan Pohan, Deputy of Regional Development and Local Authority, National Development Planning Agency (BAPPENNAS), Indonesia, said that laws mandate the use of geospatial technology for development activities in Indonesia. He stressed that detailed geospatial data and information is a necessary condition in developing detailed spatial plans and sustainability of the six economic corridors being developed across the country under the MP3EI scheme.

Bambang Soepijanto, Director General of Forestry Planning, Ministry of Forestry, Indonesia informed that forests cover about 70 percent land area of Indonesia, therefore spatial knowledge is a prerequisite in decision making. Charnchai Peanvijarnpong, Deputy Executive Director, GEO-Informatics and Space Technology Development Agency (GISTDA), Thailand shared GISTDA's vision and initiatives for 2012-16 and informed the audience about the country's plans to launch THEOS-2 and the concept of Krenovation Park.

In Plenary II, Ir. Avelino L. San Buenaventura, President of the Philippine Geodetic Engineering & Geomatics Society and Past President of the Geodetic Engineers Development Foundation represented Narciso B. Nieto, Undersecretary, Department of Agrarian Reform, Philippines. He informed that the Philippine government has allocated USD 3.5 billion towards implementing and enforcing agrarian reform programme, which is scheduled to complete by mid 2014. A key component in achieving this target is designing and developing digital maps, and applying reasonable geospatial technology at all levels.



Soh Kheng Peng, Chief Surveyor in Singapore Land Authority (SLA) discussed initiatives in cadastral survey system in Singapore. With new vision of "Limited Land, Unlimited Space", SLA is moving towards developing 3D cadastre system for the country. Ronald van Coevorden, Regional Manager - Asia Pacific, Survey Division, Trimble Thailand focused on sustainability and productivity in surveying through innovation. He observed that as the ability to acquire and generate geospatial data has and will continue to increase exponentially, surveyors need to move from being data centric to process and industry centric as industries vertically integrate.

David Cunningham, Senior Vice President - Sales, Intermap Technologies, informed the audience about cloud free imagery and elevation data that can support many of users' unique geospatial requirements including custom contours, terrain-derived hydrology, terrain-derived coastlines, slope and aspect maps and road and trail networks.

Lifetime Achievement Award

The second day of Asia Geospatial Forum saw Y.Bhg. Datuk Prof. Sr Dr. Abdul Kadir Bin Taib, Director General of Department of Survey and Mapping, Malaysia being conferred with Lifetime Achievement Award for his exemplary contribution to the geospatial industry. Dr. Abdul Kadir has demonstrated tremendous insight into the scope of geospatial technology and its potential for nation building.



Opening Plenary III session, Dr. Abdul Kadir elaborated on Spatial Enablement in Malaysia. One of its main objectives is to enable more effective and more transparent coordination, where people are able to access the spatial information they require to evaluate the choices made by the elected government. Ir. Budhy Andono Soenhadi, Executive Secretary of BAKOSURTANAL focused on the role of geospatial information to support economic development in Indonesia, given the nation's huge size and population and prosperity of natural resources both flora and fauna.

Ir. Mohammad Iksan Tatang, Secretary General, Ministry of Transportation, Indonesia highlighted the role of geospatial data in supporting transport services, through Integrated GIS. He shared the Ministry's initiatives on Integrated GIS for land, sea, air and rail transport.

Prof. Dr. Ir. A. Tom Veldkamp, Rector/Dean, ITC, The Netherlands addressed various issues related to capacity building for food and water security. According to him, the UN is ignoring the spatial dimension of sustainable development therefore there is a need to work towards providing this geospatial dimension. He opined that where the IT and GIS pyramid is concerned, all levels (from data collection to adding value) should have equal money making opportunities and business should be created out of it. Robert Marigliani, Industry Sales Director – Geospatial / SEAPAC, Bentley Systems, Australia, briefed the audience about the concept of Semantic 3D City GIS. According to him, 3D models of cities can be used to demonstrate the impact that a new piece of infrastructure will have on its surrounding environment.



Symposium

The Symposium on Disaster Management witnessed the role of geospatial technology in various aspects related to disasters. Dr. Surono, Head – Center for Volcanology and Geological Hazard Mitigation, Geological Agency, Indonesia, demonstrated the role of remote sensing data in geological hazard mitigation through case study on Merapi Volcano disaster. In addition to volcanoes, he also highlighted instances involving the role of geospatial information in landslide susceptibility mapping, developing early warning systems, earthquake hazard mitigation and preparing tsunami hazard maps.



David Hisdal, VP Asia and Australia, Intermap Technologies

presented instances of two devastating tsunamis within a decade, one in Indonesia in 2004, and other in Japan in 2011, both were of similar magnitude. While over 250,000 people died in Indonesia, the loss of life in Japan was less than 25,000 people. According to David, much of the reduction in loss of life can directly be attributed to preparedness. One requirement for the preparedness is high quality elevation model that shows sufficient surface details, and 3D models that can help create safety zones.



Ridwan Yunus of National Agency for Disaster Management (BNPB) shared initiatives of the organisation in providing geospatial information related to disasters, including the recently established geospatial website, geospasial.bnpb.go.id; a map gallery which offers nearly 1000 maps available for downloading, and preparedness and disaster risk reduction Web GIS. The information is also available via mobile.

Craig Piman, Technical Advisor – APAC, Esri, demonstrated the use of GIS in addressing issues like identifying locations for refugee camps in case of disasters, by referring to flooding in Pakistan. Randolph S. Vicente, President, RSV Geo-consulting and Management Services, Philippines, stressed on the role of fundamental spatial datasets in disaster risk reduction management and the role of good governance in the process.



Seminars, Technical Sessions and Technology Tracks

Keeping in mind the main user segments and technology advancement in the region, Asia Geospatial Forum offered comprehensive Seminars and Technical Sessions throughout Day 2 and Day 3 of the conference. Seminar on Utilities & Infrastructure gathered representatives from government and private entities sharing their experience in utilising geospatial technology in utility and infrastructure management. Seminar on Mining & Exploration discussed various aspects related to spatial information in mining and oil exploration processes, while Land Administration Session brought forth some initiatives in this segment through reputed speakers from various land management agencies.



In Mining & Exploration Seminar, Ir. Prima Muharam Hilman, Head of Information Division, Center for Geological Resources, Geological Agency, Indonesia, discussed the use of GIS in mineral prospectivity analysis to support the preparation of new mining permit areas in Indonesia and concluded that Regional probabilistic models of frequency ratio and weight of evidence are a useful technique to evaluate the mineral potential. Sr. Razali Ahmad, Senior Manager – Geomatics Department, Technical Services Division, Petronas Carigali, Malaysia, while highlighting the spatial nature of oil exploration activities, stressed on the importance of integrity of spatial data and illustrated the losses that can incur in the case of inaccuracy of this data. Pugoh Sarwanto, Head of Topography Services, Total E&P Indonesia, described the features of the Enterprise GIS incorporated by the organisation and how the organisation is benefitting from the same.

The latest technology advancement in geospatial sector was also discussed in Seminars and Sessions of Asia Geospatial Forum. Enterprise GIS, 3D Modeling & LiDAR, Global Satellite Navigation Systems, Cloud Computing & Open Source and Earth Observation Systems, all caught the attention of delegates looking out for updates in these technologies, also initiating discussion on the best solutions available in the market.

In the session on Cloud Computing and Open Source, Dr. Chih Hong Sun, Director, Taiwan GIS Center informed about MAKOCI GIS, a new web portal for geographic information in the cloud era. He observed that experience in Taiwan shows that cloud computing era for geospatial industry is coming. Prof. Andre Economou, Solutions



Architect, Digital Publishing & Large Format Printing, HP Imaging and Printing Group, Asia Pacific and Japan, informed about printing and sharing options for files on the cloud and the company's solutions for the same. Kurnia Wahudi, Country Cloud Leader, IBM Indonesia said that cloud can be leveraged for geospatial applications through platform as a service, and infrastructure as a service. Arnulf Christi, CEO, Metaspatial, Germany, advocated the use of open source software over proprietary software, by highlighting its merits. Vanessa Ann D. Macaspac, GIS Research Engineer, Public Assessment of Water Services, University of the Philippines, demonstrated the synergized use of open source and proprietary GIS software in their projects

Technical Sessions on Environment & Forestry, Urban Development & Governance, Web GIS and Resource Management provided platforms for academicians, researchers and postgraduate students to present their technical papers, and discussed ideas on improving their work. Six authors participated in poster presentations at the conference.



Technology Tracks

In between the technical programmes, three Technology Tracks were conducted by DigitalGlobe, Intergraph and Intermap, respectively. The Tracks advocate on educating audiences not only on their latest products, but also the best solutions in their respective domains.



Asian Geospatial Excellence Awards

Under the auspices of Asia Geospatial Forum 2011, Geospatial Media & Communications presented the 'Asian Geospatial Excellence Awards' for innovations, applications, policies and programmes. These are premier private awards, commemorating the excellence and advancement in the field of geospatial technology in the region.

Winners:

Category	Recipient
Governance	Singapore Land Authority, Singapore
Web GIS	Japan Society of Promotion of Science and Technology, Japan
Civic Administration	Beijing Municipal Bureau of Finance, China
Utilities Management	Tenaga Nasional Berhad, Malaysia
Transportation Management	Institute of Transportation, Taiwan
Environment Management	Murray-Darling Basin Authority, Australia
Disaster Management	International Organization for Migration, Indonesia
Forest Management	Ministry of Forestry, Indonesia
GNSS	National Land Agency, Indonesia
Geospatial Policy	BAKOSURTANAL, Indonesia



Best Papers and Poster

Altogether there were 96 papers presented throughout the course of the conference.

Best Paper Awards were bagged by:

- Akhmad Riqqi, Lecturer, Bandung Institute of Technology (ITB), Indonesia
Paper: *Indonesian Multiscale Grid System for Environmental Data*
- Arnulf Christl, CEO, Metaspatial, Germany
Paper: *The OSGeo Foundation: Professionally Leveraging Open Source*
- Dr. Markus Mueller, Senior Advisor, GIZ - German Technical Cooperation, Indonesia
Paper: *Development of A Web-Based Forestry Information System Using Open Source Software*

Best Poster Award was given to:

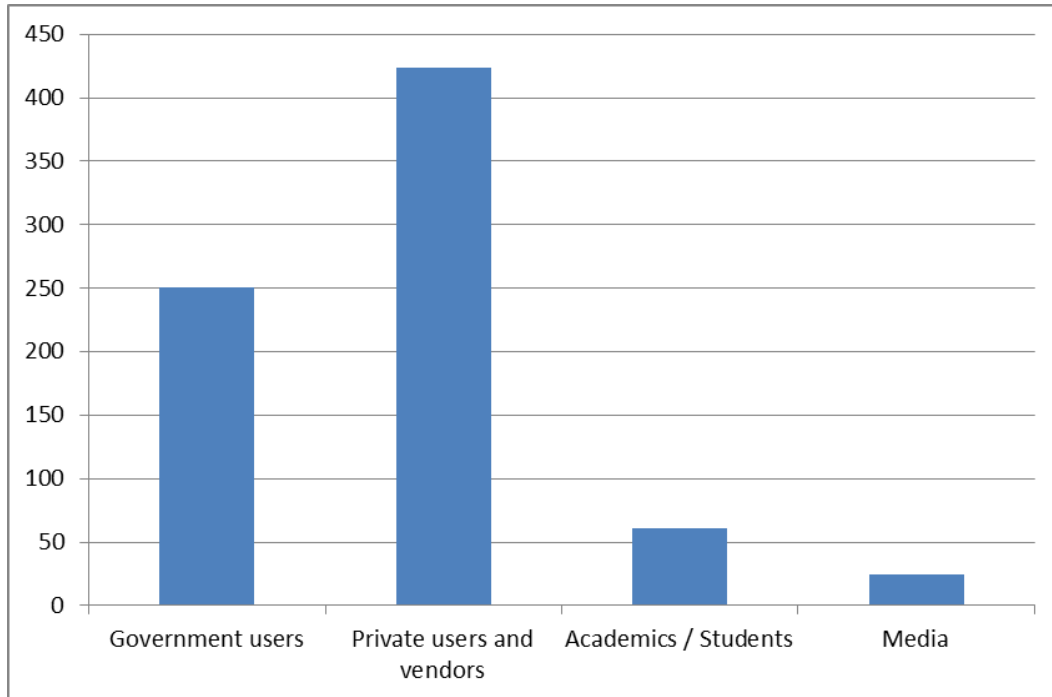
- Kris Sunarto, Researcher, Geomatics Research Division, BAKOSURTANAL, Indonesia
Paper: *GIS Application for Land Suitability of Ginger Cultivation*



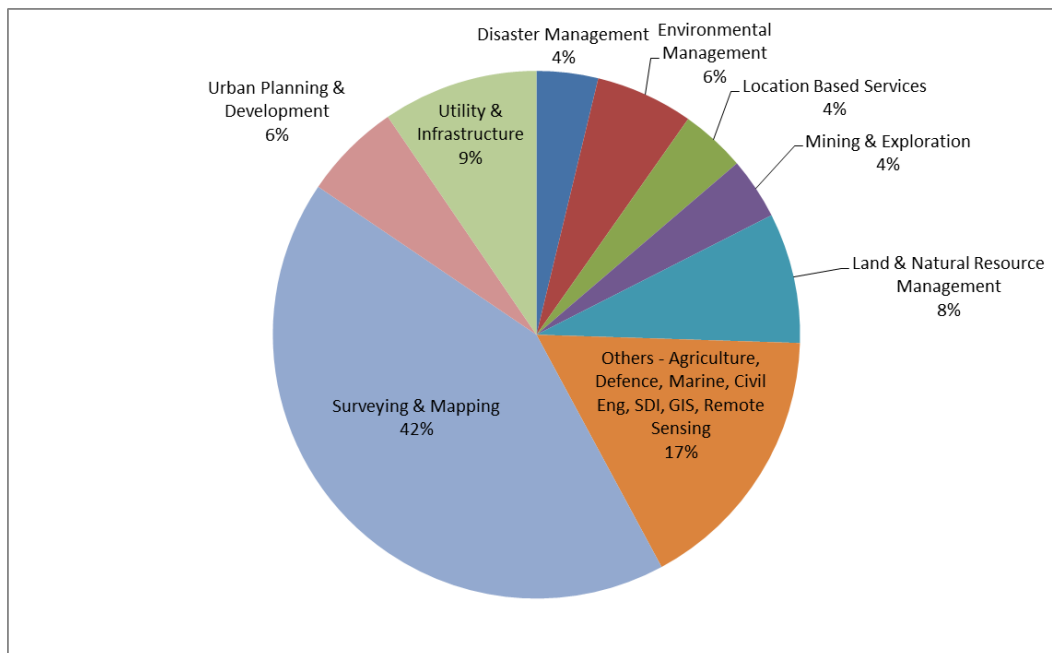
Participants Profile

Delegate breakdown:

By sectors:



By specialization:



Exhibition and Networking

Asia Geospatial Forum exhibition spread across over 700 sqm area, hosting 40 exhibitors from across the globe. The exhibitors' profiles ranged from solution providers, product vendors, government users and academic institutions. The exhibition hall also served as a networking platform and interaction for the various stakeholders of geospatial industry while getting updates on the latest technologies and products in the region.



Three exhibitors were given the Best Exhibitor Award:

- BAKOSURTANAL
- Trimble
- Hewlett-Packard





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