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Geospatial Intelligence Summit

29th-30th September 2010, Vienna InterContinental, Vienna, Austria

a.m. workshop: Future GIS technologies, 28th September 2010
p.m. workshop: Developing a national GIS technology on a budget, 28th September 2010

OUR EXPERT ADVISORS

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Space Technology Consultant

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Senior representative from
INSPIRE

Senior representative from the
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Professor Bhupendra Jasani,
Department of War Studies, King's
College
Visiting Professor

Dr. Gabor Remetey-Fülöpp HUNAGI
Secretary General

Sarah El-Khazin, United Nations
Independent Consultant

TOPIC INTRODUCTION

The event will bring together heads of Geospatial Intelligence, GIS, Remote Sensing, Operations, Imagery and Analysis. The event will provide a unique forum to discuss and debate the development of GIS capabilities across the globe. Addressing the use of geospatial information in scenarios such as international conflicts, humanitarian disasters, crime, security, border control and global climate change. The event will showcase how GIS has changed fundamentally with the introduction of Google Earth, new applications and pressure from users. A fundamental objective of the conference is to help organisations understand how they can best take full advantage of GIS capabilities in strategy and decision-making.

CONFERENCE FOCUS

- ▶ Develop an effective GIS strategy
- ▶ Maximize co-operation across defence and security GIS organizations
- ▶ Create a national spatial data infrastructure
- ▶ Move from geo-information to geo-intelligence
- ▶ Develop an open enterprise architecture
- ▶ Achieve true interoperability on a national and international level
- ▶ Meet the needs of multiple stakeholders
- ▶ Learn about the evolving relationship between military, intelligence and civilian agencies

WHO WILL ATTEND

Who will attend: Heads of Geospatial Intelligence, GIS, Remote Sensing, Operations, and Imagery and Analysis, Software companies

YOUR PRESTIGIOUS SPEAKER PANEL

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Day 1, September 29th 2010

8.30 Registration and Coffee

9.00 Welcoming note from the JFG

9.05 Opening remarks from the chair
Professor Mike Jackson, Centre for Geospatial Science, University of Nottingham, Board Member, OGC, Director

Providing effective military support – moving from geo-information to geo-intelligence

9.10 KEYNOTE Developing imagery and map-based intelligence solutions for U.S. national defense, homeland security and safety of navigation

- Providing timely, relevant and accurate geoint in support of national security objectives
- Producing imagery, imagery intelligence and geospatial (e.g., mapping, charting and geodesy) information
- Offering customers ready access to geospatial intelligence
- Contributing to the state of readiness of U.S. military forces
- Q&A

Senior representative from the **National Geospatial Intelligence Agency, US (tbc)**

9.30 Operational examples of Geospatial Intelligence

- Delivering and supporting a complex range of Imagery & Geospatial System capabilities
- Outline of the European INSPIRE directive
- Q&A

Senior representative from **INSPIRE, European Commission (tbc)**

10.00 Security and Intelligence: The emerging trends and challenges

- Security threat environment in the 21st century
- The changing nature of intelligence
- Intelligence in a networked world
- The concept of 'Smart Intelligence'
- Challenges to intelligence operation in a changed world
- The way forward
- Q&A

Maj. Gen. Muniruzzaman, Bangladesh Institute of Peace and Security Studies, Bangladesh
 President

10.30 Morning Coffee and Networking

11.00 Common geospatial tool set
Open standards – the gateway to interoperability?

- Lessons from the CGTS experience
- Standards are essential but not sufficient
- Enable and enhance existing capability
- Interoperability via open web services is achievable
- Tailor the geospatial capability to meet the needs of the user- one size does not fit all
- Q&A

John Tate, Lockheed Martin UK Integrated Systems and Solutions

Geospatial Intelligence Consultant

11.30 Using police information in the mobile environment

- The strategic direction of the United Kingdom police service re: information management
- The political agenda for mobility in the UK
- Managing implementation of £75m for mobile functionality
- The business benefits of mobile information including geospatial capability
- Delivering results which positively enhance the capability of frontline police officers
- Future exploitation of mobile information and sharing with partner agencies
- Q&A

Ian Readhead, Association of Chief Police Officers
 Director of Information

12.00 PANEL DISCUSSION - The realities of geospatial intelligence

John Fitzgerald, GBR AR, Senior Staff Officer Intelligence Policy (Geospatial/Imagery/JISR), International Military Staff, HQ NATO
 Colonel

Senior representative from the National Geospatial Intelligence Agency, US (tbc)

Maj. Gen. Muniruzzaman, Bangladesh Institute of Peace and Security Studies, Bangladesh
 President

12.30 NATO Intelligence Capabilities co-ordination

- Providing GEOINT to NATO
- Intelligence management
- Support to the operational and tactical levels
- Imagery challenges
- Alliance ground surveillance
- Q&A

John Fitzgerald, Colonel, GBR AR
 Senior Staff Officer Intelligence Policy, (Geospatial/Imagery/JISR)
 International Military Staff, HQ NATO

13.00 Luncheon

Geospatial Intelligence strategy integration in the Middle East and CEE

14.00 CASE STUDY Abu Dhabi SDI – an enabler of strategy and decision making

- SDI - as a strategic partner for environmental sustainability
- as a support framework for public safety, security and emergency management
- SDI and spatially enabled executive dashboards to support decision makers
- SDI - as an enabler for planning and capacity building
- as a strategic tool for business transformation and performance management

Abdul Karim Al Raeisi, Spatial Data Centre, Abu Dhabi Systems and Information Centre (ADSIC)
 Executive Manager

14.30 Bridging the divide between civil and security SDI
Balancing benefits and risks

- Civil SDI has a proved track record of benefits over the past decade
- In the post 9/11 period, security risks regarding access to data may constrain achievement of benefits in any context, and this risk is more acute in some post-conflict and other economies in transition that need it most
- Managing information security risks requires close collaboration between civil and security organizations
- Building a two-way street for mutual benefit is both desirable and critical to achieving and optimizing development, while managing security risk
- Q&A

Mark Sorensen, GPC-GIS, Khalidiyah, UAE
 President

15.00 CASE STUDY Developing a regional space agency to develop intelligence capabilities

- How could a joint regional space agency maximise intelligence capabilities?
- Benefits to counter piracy operations
- Harmonising the collection and dissemination of data
- Issues in information technology and assurance
- Q&A

Dr Omar Al Emam, Arab Science and Technology Foundation
 Space Technology Consultant

15.30 Afternoon tea and networking

16.00 COMMERCIAL OBSERVATION SATELLITES AS EARLY WARNING DEVICES

Contribution to Middle East Security enhancement

- What is meant by security?
- Types of satellites involved
- Observation of oil fires using meteorological satellites in the GEO
- Detection of oil fires and leaks from pipelines using satellites in LEO
- As data from such satellites are commercially available, participation by international community now becomes a reality
- A possibility of a Middle East Satellite Agency to enhance the regional security is explored
- Q&A

Professor Bhupendra Jasani, Department of War Studies, King's College,
 Visiting Professor

16.30 GIS challenges in emergency management and co-ordination in the Arab World

Sarah El-Khazin, United Nations
 Independent Consultant

17.00 ROLE AND POTENTIALS OF THE CIVIL SOCIETY

- Networking of the Geospatial Data Interest Communities – the case of HUNAGI
- Introduction of the 16 year evolution of the Hungarian GI Association
- Role of the NGIA in the interoperable geospatial infrastructure development
- Synergy by interdisciplinary horizontal networking
- HUNAGI at the European and global geospatial scenes
- Achievements, lessons learned and hot topics
- Conclusions
- Q&A

Dr. Gabor Remetey-Fülöpp, HUNAGI
 Secretary General

17.30 CASE STUDY Geospatial solutions in the Czech Republic

- Geographic and meteorological factors in theatre
- Allowing the sharing of geographical information between countries
- New projects in the Czech Republic
- Goals and challenges
- Q&A

Colonel Vaclav Talhofer, Military Geography and Meteorology, University of Defence, Czech Republic
 Head of Department

18.00 Speed Networking

18.30 Cocktail Reception and Networking



Day 2, September 30th 2010

8.30 Registration and Coffee

9.00 Opening remarks from the chair

▶ Building a Geospatial Intelligence knowledge environment

9.10 ▶ CASE STUDY Utilising collaborative geospatial intelligence to support operations

- Utilising effective collaboration and co-operation to develop capability
- The importance of information transparency
- Case studies
- Q&A

Brian Routledge, European Satellite Centre

Head of Operations Support Division

9.30 GIS in military networks

- GIS to integrate, process and analyse the full range of geo-scientific information
- GIS to provide the REP layer for Common Recognised Operational Picture (CROP)
- GIS to facilitate a joint military situation display
- GIS to act as a network knowledge base, supporting knowledge development processes
- Q&A

Lt Col (GS) Helmut Nasler, German Armed Forces

Head of Geoinformation Branch and Chief Geo Officer, Response Forces Operations Command

10.00 Towards a future EU geospatial intelligence strategy

The provision of geospatial support within the EU External Action Service

- Current strategic EU GEOINT approach
- Future of GEOINT in the EU External Action Service
- Internal integration, linkages and co-operation
- External member state relations
- Operational examples from military and civilian missions
- Q&A

Lt Col Neil Marks, EU Military Staff, Intelligence Directorate
Chief Geospatial Officer

10.30 Morning Coffee and Networking

11.00 Use of European satellite capabilities for security and intelligence

- Example case studies initiated
- Integration and fusion with non-satellite data
- New civil satellite capabilities under investigation
- Q&A

Gordon Campbell, European Space Agency

EO Applications Manager

11.30 ▶ CASE STUDY

- The realities of GIS support on military operations
- International co-operation
- Promoting the role of GIS in defence and civilian operations
- Q&A

Colonel John Kedar, Joint Aeronautical and Geospatial Organisation, UK

Commander

12.00 PANEL DISCUSSION - GIS and the citizen

Gordon Campbell, European Space Agency

EO Applications Manager

Dr Kim Rossmo, Centre for Geospatial Intelligence and Investigation, Department of Criminal Justice, Texas State University

University Chair and Director

Dr. Gabor Remetey-Fülöpp, HUNAGI

Secretary General

12.30 Geospatially integrating the battlefield

- GIS available to organizing warfighting functional area data
- Synchronisation of databases requires governance, standards and procedures
- Army network strategy of incremental modernization
- Operational examples given
- Q&A

Robert Burkhardt, US Army Geospatial Centre

SES Director

13.00 Luncheon

14.00 Challenges of time aware extension of data models for GeoSpatial visual Analytics

- Geospatial visual analytics
- 3D spinning globe: the challenge of accessing multidimensional environmental information
- Effective ways to extract key pieces of knowledge from very large and heterogenous sets of geospatial information
- Time aware extension of data models
- Value added services for spatio-temporal data management, authoring, processing, analysis and interactive visualisation
- Q&A

Raffaele De Amicis, Graphitech

General Director

14.30 The geospatial structure of terrorist cells

- Counter-terrorism efforts suffering from information overload
- The difficulty in identifying significant patterns
- Geographic prioritization models – used to help manage information in such situations
- Spatial data on terrorism attacks and groups collected from Turkish police files
- Mapping terrorist incident and cell locations and the measurement of inter-site distances
- The resulting probability distributions used for developing intel geospatial models
- Q&A

Dr Kim Rossmo, Centre for Geospatial Intelligence and Investigation, Department of Criminal Justice, Texas State University

University Chair and Director

15.00 The role of Geospatial Information—from relief to development

The experience of UNOSAT

- The UNOSAT challenge
- The role of geospatial information in relief and co-ordination
- Going beyond acute emergency: from early recovery to reconstruction
- Geo-information on human security and human rights in emergency situations
- Current challenges: capacity development and technical assistance
- Conclusions: models, requirements and future needs

Francesco Pisano, UNOSAT

Operational Satellite Applications Programme, UNITAR

15.30 Coffee break

16.00 Getting the complete picture from collection to actionable GEOINT

- How can you get from collection of imagery and source materials to actionable GEOINT?
- How do you manage the process or supply chain?
- Q&A

Brian Loggins, Northrop Grumman

Director

16.30 Providing actionable situational awareness

- Building up the intelligence picture
- Provenance of data: measure twice-then cut, data Est, Inept!
- Thinking like your opponent
- Data fusion-use your brain
- Recognise the temporal and spatial elements of data
- Q&A

Pat Tyrrell, OBE, Defence Intelligence and Security School, and Deputy Chief Executive, Defence Communication Services Agency, MoD, UK

Former Commandant

17.00 Riding the Elephant: utilizing Geoint Web services in defence

- Understanding user community diversity
- Exploiting intelligence information layers
- Recognising intelligence provenance
- Leveraging information transparency
- Case study – Delivering Geoint web services
- Q&A

Jeff Bird, Defence Geographic Centre, UK MoD

Geospatial Requirements Manager

17.30 Closing remarks from the chair

17.40 Farewell Coffee and Networking