

Attending this event  
is worth  
**8 CPD points**

# Geospatial Intelligence Summit

29<sup>th</sup>-30<sup>th</sup> September 2010, Vienna InterContinental, Vienna, Austria

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

**Richard Smith, British Transport Police**  
Force Information Manager

**Professor Mike Jackson, Centre for Geospatial Intelligence, University of Nottingham**  
Board Member, OGC, Director

**Ric Diaz, NATO Intelligence Fusion Centre, UK**  
GEOINT Team Leader

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

**Colonel John Kedar, Joint Aeronautical and Geospatial Organisation, UK**  
Commander

**Mark Sorensen, GPC GIS, Khalidiyah, UAE**  
Managing Director

**Brian Rutledge, EU Satellite Centre**  
Head of Operations Support

**Jeff Bird, Defence Geographic Centre, UK**  
Geographic Support Air SO3

**Kim Rossmo, PhD, Centre for Geospatial Intelligence and Investigation, Texas State University**  
Research Professor

**Patric J Tyrell, OBE, Defence Intelligence and Security School, and Deputy Chief Executive, Defence Communication Services Agency, MoD, UK**  
Former Commandant

**Lt Col (GS) Helmut Nasler, Response Forces Operations Command, German Armed Forces**  
Head of Geoinformation Branch and Chief Geo Officer

**Lt Col Neil Marks, Council of the European Union**  
Military Staff

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

**Ian Readhead, Association of Chief Police Officers**  
Director of Information

**Giuseppe Nobile, NATO HQ**

**Gordon Campbell, European Space Agency**  
EO Applications Engineer

**Robert Burkhardt, US Army Geospatial Centre**  
SES Director

**Dr Raffaele De Amicis, Graphitech**  
Director

**Senior representative from Digital Globe**

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

**Senior representative from INSPIRE**

**Senior representative from the NGA**

**Ralph Diment, EMEA, Intergraph**  
Government & Transportation Marketing Lead

**William Ball, NASA**

## 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, arms treaty monitoring and global climate change. 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

This event is supported by:



## WHO WILL ATTEND

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



## Day 1, September 29<sup>th</sup> 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
- 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 Tba

- Tba
- Q&A

Senior representative from **DigitalGlobe**

#### 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

**Ian Readhead**, Association of Chief Police Officers  
Director of Information

#### 12.00 Tbc

**Richard Smith**, British Transport Police  
Force Information Manager

#### 12.30 Tbc

**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 **Situational awareness**

- Full in theatre and strategic interoperability
- Promoting the role of GIS in defence and civilian operations
- Q&A

*Invitation to:*

Senior representative from the **Abu Dhabi Systems and Information Centre**

#### 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 **UAE**

- Tba
- Q&A

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

### 15.30 Afternoon tea and networking

#### 16.00 **New improvements and major changes in Hungary**

- Ensuring full interoperability within nations
- Developing strategy and capabilities
- Goals and challenges
- Q&A

**Dr Mihaly Szabolcs**, FOMI, Hungary (tbc)

#### 16.30 Tbc

- Tbc
- Tbc

**Ric Diaz**, NATO Intelligence Fusion Centre  
GEOINT Team Leader

#### 17.00 ▶ 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

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



**Day 2, September 30<sup>th</sup> 2010**

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**8.30 Registration and Coffee**

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**9.00 Opening remarks from the chair**

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**▶ Building a Geospatial Intelligence knowledge environment**

**9.10 ▶ CASE STUDY Utalising 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 geoscientific 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 Tba**

**Ralph Diment, Intergraph**  
Government & Transportation Marketing Lead, EMEA  
Senior representative from a **Client**

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**10.30 Morning Coffee and Networking**

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**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 Tbc**

**Lt Col Neil Marks, Council of the European Union**

**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

**Robert Burkhardt, US Army Geospatial Centre**  
SES Director

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**13.00 Luncheon**

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**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

**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

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

**15.00 Tbc**

**William Ball, NASA**

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**15.30 Coffee break**

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**16.00 Tbc**

**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

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**17.30 Closing remarks from the chair**

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**17.40 Farewell Coffee and Networking**

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