Third International
Symposium
2016

Partnership for Technology in Peacekeeping

Information and Communications Technology Division
United Nations Department of Field Support

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Seoul City Hall, Seoul, South Korea

Welcome Note

On behalf of the United Nations and the Republic of Korea, thank you for joining us for the 3rd Annual Partnership for Technology in Peacekeeping Symposium.

This year's Symposium — Awareness, Protection, Innovation — addresses the significant challenges facing Peacekeeping today: how to we manage vasts amounts of data available at our fingertips today, and transform it into the critical information needed to protect our troops, civilians and camps?

We have a very full week planned for you, including a keynote address from former High Level Panel on Technology expert A. Walter Dorn; the UN Open GIS Initiative workshops; informative breakout sessions and engaging tech, operational and policy discussions from thought leaders from both the United Nations and some Member States.

Throughout the Symposium, we invite you to delve into the big issues of the day. You'll also have the opportunity to put those ideas and theories into practice during the Working Groups that will result in tangible outcomes.

The Partnership for Technology in Peackeeping Symposium is a great opportunity for you to join the dialogue, learn from another, collaborate with peers, experts and the United Nations staff.

Thank you for joining us. We hope you enjoy the event!

Anthony O'Mullane
Director
Information and Communications Technology Division, United Nations

Focused Content. New Ways of Thinking.

Plan Your Experience

We have three in-depth Topics and the United Nations Open GIS Initiative that will provide you with the opportunity to dive in. We've divided each topic into four Break-out Sessions that cover important areas that you, as technical professionals, will focus on.

Some sections of this agenda focus on the nontechnical aspects of peacekeeping technology such as training, coaching, guidance, leadership development, planning, testing and evaluating. We welcome new ideas that challenge conventional thinking, represent new approaches, and reflect emerging trends and emerging technology. We invite you to participate fully.

Build Your Agenda Based on Your Specific Needs and Areas of Interest

| Focus on the strategic insight that supports the development or implementation of an actionable plan.
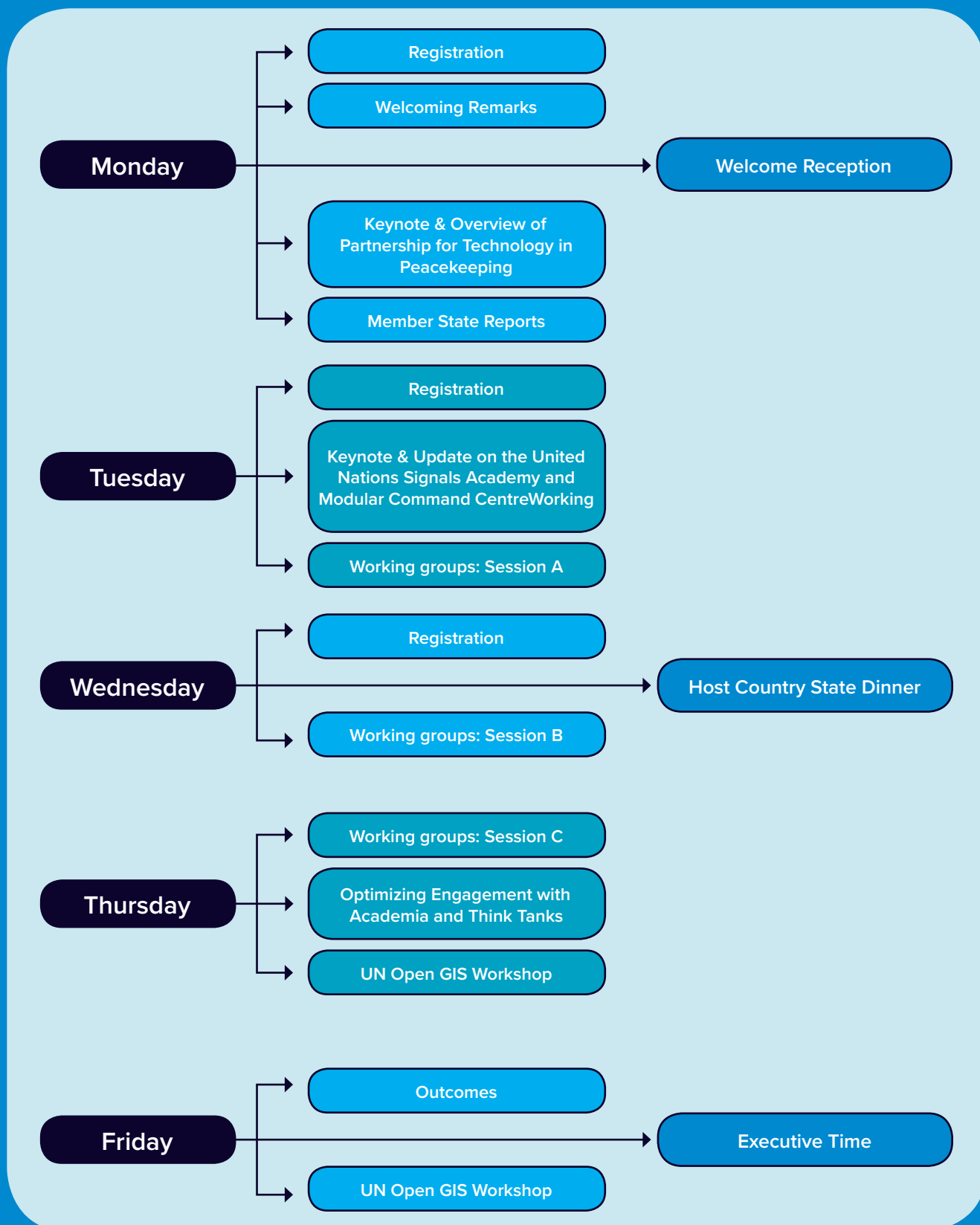
Interact with Colleagues from Other Member States and UN Staff

| Moderated discussions are for exchanging ideas and best practices with your peers with a focus on the reality and challenges in peacekeeping today.

| Breakout-Sessions and Power Networking/Coffee breaks offer small scale and interactive opportunities to drill down on specific topics.

Sponsor or Engage in a Project and/or Initiative

| Walk away with actionable ideas for the topics, projects and initiatives that you are most interested in.

Agenda At a Glance

Monday
- Registration
- Welcoming Remarks
- Welcome Reception
- Keynote & Overview of Partnership for Technology in Peacekeeping
- Member State Reports

Tuesday
- Registration
- Keynote & Update on the United Nations Signals Academy and Modular Command CentreWorking
- Working groups: Session A

Wednesday
- Registration
- Host Country State Dinner
- Working groups: Session B

Thursday
- Working groups: Session C
- Optimizing Engagement with Academia and Think Tanks
- UN Open GIS Workshop

Friday
- Outcomes
- Executive Time
- UN Open GIS Workshop

Agenda Topics

Geospatial Information Services and Situational Awareness

Enabling Geospatial Information Services (GIS) with the best available data for modelling and simulation, while setting a framework to control its dissemination to improve situational awareness and understanding of the operational environment, will provide peacekeeping with greater analysis at the service of decision making.

Protection Technologies: Sensors, Security and Reconnaissance

Increasingly, highly sensitive information needs to be collected, classified, correlated and shared in UN peace operations. Policies, procedures and platforms must be developed that protect and manage such information.

Innovation in Information and Communication Technologies

Applying innovative thinking to your challenges as a leader is one step in creating an innovative, organizational response to change and challenge. But developing a culture of innovation, where others throughout the organization apply innovative thinking to solve problems and develop new products and services, requires additional training. When direction, alignment, and commitment are created around innovation, organizations emerge as more productive and more innovative.

Optimizing Engagement with Academic and Research Institutions

Combining existing research and development with academic and UN Peacekeeping expertise to forge a strong partnership is the way to advance next generation technological innovations that serve peacekeeping and sustainable development.

United Nations Open GIS Initiative

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Won Soon Park

Mayor
Seoul Metropolitan
Government

Hervé Ladsous

Under Secretary
General
Department of
Peacekeeping
Operations, United
Nations

Atul Khare

Under Secretary
General
Department of
Peacekeeping
Operations, United
Nations

Welcome
Address

**Anthony
O'Mullane**

Director
Information and
Communications
Technology Division,
United Nations

In-Moo Hwang

Vice Minister
Ministry of National
Defense, Republic of
Korea

Dong-Ju Kim

President
Korea Research Institute
for Human Settlements,
Republic of Korea

Walter Dorn is Professor of Defence Studies at the Royal Military College of Canada (RMC) and the Canadian Forces College (CFC). He holds a Ph.D. in Chemistry from the Univ. of Toronto. He addressed parliamentary bodies on several continents and drafted a parliamentary declaration on the ratification and implementation of the treaty that was signed by over a thousand parliamentarians. A former member of the United Nations Expert Panel on Technology and Innovation in UN Peacekeeping, Dr. Dorn has written several books, including Keeping Watch: Monitoring, Technology, and Innovation in UN Peace Operations, and most recently edited the volume, Air Power in UN Operations: Wings for Peace.
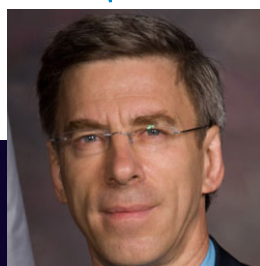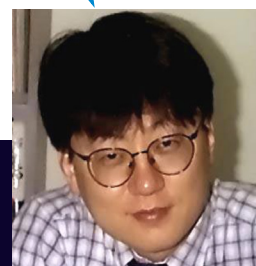
Mr. Raey-Ho Park is the Director General for Information Planning in the Office of Planning and Coordination in the Ministry of National Defense. Within the Ministry, he has served as Commander, Defense Command and Communication Command and Chief of the Information Communication Division, Republic of Korea headquarters.

Ki-Joune Li is a professor of Computer Science and Engineering at Pusan National University, South Korea. He received his Bachelor and Master of Science degrees in computer sciences from Seoul National University, in 1984 and 1986, and PhD in spatial databases from INSA de Lyon, France in 1992. Since then, he has been working on GIS and spatial databases and 2007 launched an ambitious multi-national project called ISA (Indoor Spatial Awareness) for indoor spatial information modeling. Since 2016, he has been leading the UN Open GIS initiative as a co-chair, which aims at developing and providing open source geospatial software to the UN. He is a directive board member of SSTD Endowment.

Walter Dorn
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Raey-Ho Park
Director General
Information Planning, Office of Planning and Coordination, Ministry of National Defense, Republic of Korea

Ki-Joune Li
Professor, OpenGDS and Co-Chair
UN Open GIS Initiative

Keynote Speakers Keynote

Mr. Kyoung-Soo Eom has been serving as Chief of the Geospatial Information Section (formerly UN Cartographic Section) since 2005 in the United Nations. He has over 30 years of technical and management experience in the public and private sectors as well as military service.

Prior to his work with the United Nations, Mr. Eom worked for LG-CNS (formerly LG-EDS Systems, a System Integration Company) in Seoul, Korea as General Manager and Project Manager. He also served in the Korean Army as the Chief of Combined Terrain Analysis Team of Korea-USA Combined Force Command in Seoul.

Mr. Ricardo Arias is a NASA Subject Matter Expert in Security and Defense Operational Requirements and Capabilities. He is also a member of the USAFRICOM Science, Technology & Innovation Office, Strategic Capability Division, Resources & Assessments Directorate (J804). He plans, coordinates and manages execution of S&T activities that seek to fill U.S. forces' capability gaps or enhance Partner Nation capacity.

Mr. Arias coordinates and manages activities funded by the Joint Capability Technology Demonstration (JCTD), Enabling Technology (ET), Rapid Reaction Technology Office (RRTO), and Rapid Innovation Fund (RIF) programs, as well as technical exchanges, joint experimentation and collaboration with both traditional and non-traditional partners in the African theater.

Dr. HaeKyong Kang is Research Fellow for Korea Research Institute for Human Settlements supervised by Prime Minister's office and funded by the republic of Korean government. She is the program manager of OpenGDS Research and Development Group responsible for developing open source GIS software, supervising 80 researchers from 9 organizations. She is a member of UN OpenGIS Initiative which aims to develop open source GIS solutions for UN missions like peacekeeping operation.

Kyoung-Soo Eom
Chief UNGIS and Co-Chair
UN Open GIS Initiative

Ricardo Arias
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HaeKyong Kang PhD.
Research Fellow
Korea Reasearch Institute for Human Settlements, Republic of Korea

Speakers Keynote Speakers
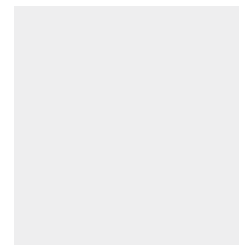
Presenters

Eduardo Artigas

Chief
Field Mission Support Section, Information and Communications Technology Division, United Nations

Athanasios Dimitriou

Military Communications Policy and Equipment Officer
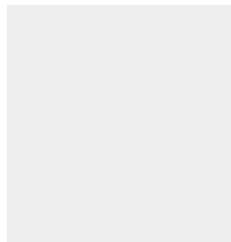Information and Communications Technology Division, United Nations

Juan A. Hurtado

Science and Technology Advisor
US South Command and Co-Chair, UN Open GIS Initiative

David Hemphill

Vice President of Engineering
Boundless Spatial Inc.

J.Y. Kang

Director
Ministry of Foreign Affairs, Republic of Korea

Stefan Lemm

Head Military Operations Unit
Information and Communications Technology Division, United Nations
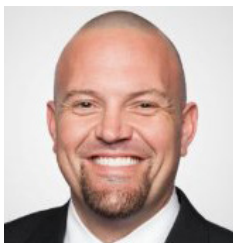
Mr. Brian Monheiser

Director of U.S. Federal Programs
Boundless Spatial Inc

Lt. Colonel Axel Weber

Head Policy and Standardisation Section
German Armed Forces, Federal Republic of Germany

Katrina Miles

Senior Technology Analyst
Military Operations Unit, Information and Communications Technology Division, United Nations

Moderators

Suzanne Shanahan
Acting Deputy Director
Information and Communications Technology Division, United Nations

Dirk Druet
Political Affairs Officer (Policy and Planning)
Department of Policy Evaluation and Training, United Nations

Christina Goodness
Chief of Information Management
Office of the Under Secretary General Department of Field Support and Department of Peacekeeping Operations, United Nations

Widmark Valme
Chief of Communications and Information Technologies
MINUSCA, United Nations

Allan Canonizado
Chief of Communications and Information Technologies
MINUSMA, United Nations

UN Open GIS Initiative

Ricardo Arias
Science and Technology Advisor
US AfricaCom and Interim Deputy Chair, UN Open GIS Initiative

Maria A. Brovelli
Professor
Politecnico di Milano and Chair of UN Open GIS Spiral-II

Dimitri Dello Buono PhD.
Chief of Information Management
Head of geoSDI Laboratory, Italy

Anthony Calamito
Chief Technology Officer
Boundless, USA

Massimiliano Cannata
Professor
OSGeo and Univ. of Applied Sciences & Arts of Southern Switzerland

Gyooshik Choi
ICT Architect
UN GIS

Guillaume Criloux
Chief Geo Analysis
UN GIS

Diego Gonzalez
GIS Officer
UNGSC

Joon-Seok Kim PhD.
Open GDS
Pusan National University, Republic of Korea

Kais Zouabi
Chief GIS
UNIFIL, United Nations

Programme Agenda

Monday 07.11.2016	
09:00 – 12:00	**Registration/Check-in (ongoing)**
09:00 – 12:00	**United Nations Open GIS Workshop Meeting (UN Open GIS participants only)** Kyoung-Soo Eom, Prof. Ki-Joune Li and Mr. Juan A. Hurtado, Moderator
10:00 – 11:00	**Moderators Meeting** (Moderators only)
13:00 – 13:05	**General Welcome** – Won Soon Park , Mayor, Seoul Metropolitan Government, Republic of Korea
13:05 – 13:15	**Welcome/Symposium Opening Remarks** – Anthony O'Mullane, Director, Information and Communications Technology Division, UN
13:15 – 13:20	**Host Country Welcoming Remarks I :** In-Moo Hwang, Vice Minister of National Defense, Republic of Korea
13:20 – 13:25	**Host Country Welcoming Remarks II** : In-Moo Hwang, Vice Minister of National Defense, Republic of Korea
13:25 – 13:30	**Host Country Welcoming Remarks III** –Dong-Ju Kim, President of Korea Research Institute for Human Settlements, Republic of Korea
13:30– 14:00	**Welcoming Remarks Video** – Under Secretary General Hervé Ladsous, United Nations Department of Peacekeeping Operations; and Under Secretary General Atul Khare, United Nations Department of Field Support
14:00 – 14:30	**Group Photo (15 mins) and Networking Coffee Break (15 mins)**
14:30 – 15:00	**Keynote : 'ROK MND ICT Policy'** – Raey-Ho Park, Director General General for Information Planning, Office of Planning & Coordination, Ministry of National Defense, Republic of Korea
15:00 – 15:30	**Overview of Partnership on Technology for Peacekeeping** – Eduardo Artigas, Chief of Field Mission Support Section, Information and Communications Technology Division, United Nations
15:30 – 16:00	**Multi-National Partnership Report: UN Open GIS Initiative** – Kyoung-Soo Eom, Chief of GIS, Information and Communications Technology Division, United Nations
16:00 – 17:30	**Member State Reports: Working Through Partnerships – Project Process, Experience and Lessons Learned with a brief introduction by:** Eduardo Artigas
16:00 – 16:15	**France:** "Protection and Security Technology Services Project"
16:15 – 16:30	**Networking Coffee Break (15 mins)**
16:30 – 16:50	**Israel:** Israel and UN Peacekeeping: Technology for peacekeeping partnership
16:50 – 17:10	**Korea:** MOFA Peace Keeping Operation with UN – J.Y. Kang, Director, Ministry of Foreign Affairs, Republic of Korea
17:30 – 17:50	**United States:** Juan A. Hurtado : Science & Technology Advisor, US South Command and Co-Chair of UN Open GIS
17:50- 18:00	**Logistics I – Program:** Katrina Miles, Senior Technology Analyst, Information Communications and Technology Division, UN **Logistics II – Local Info:** HaeKyong Kang, PhD. Research Fellow, Korea Research Institute for Human Settlements, Republic of Korea
19:00 – 21:00	**Welcome Reception – Hosted by Republic of Korea, President Hotel Mozart Suite**

Tuesday 08.11.2016	
07:00 – 08:00	**Registration/Check-in (ongoing)**
08:00 - 09:00	**Keynote/Q&A – "United Nations Peacekeeping: Toward Smart Tech Operations"** — A. Walter Dorn, PhD. Professor of Defense Studies at the Royal Military College of Canada and the Canadian Forces College, Government of Canada.
09:00 – 09:45	**Update on the United Nations Signals Academy and Modular Command Centre/ Q&A** — Athanasios Dimitriou, Information and Communications Technology Division, United Nations, and Lt. Colonel Axel Weber, Head Policy and Standardisation Section, German Armed Forces
09:45 – 10:00	**Networking Coffee Break (15 mins)**
10:00 – 10:30	**Methodologies and Mechanisms of the Engagement Process: Trust Funds, Letters of Assist and In-Kind Support** – Eduardo Artigas, and Kyoung-Soo Eom
11:15 – 11:30	**Reality and Current Challenges for Technology in Peacekeeping: Introduction to Working Groups/** — Stefan Lemm, Head Military Operations Unit, Information Communications and Technology Division, United Nations
11:30 – 14:00	**Lunch Break (150 mins) and Short Tour**
14:00 – 17:00	**Working Groups** **Session A:** **(I) Geospatial Information and Situational Awareness** – Kyoung-Soo Eom and Suzanne Shanahan, Acting Deputy Director, Information and Communications Technology Division, United Nations, Moderators **(II) Protection Technologies: Sensors, Surveillance, and Reconnaissance** – Dirk Druet, Political Affairs Officer (Policy Planning), Department of Policy Evaluation and Training, United Nations, Moderators A. Walter Dorn, Subject Matter Expert **(III) Innovation in Information and Communications Technologies** – Gyooshik Choi, ICT Architect, Information and Communications Technology Division, United Nations; Christina Goodness, Chief of Information Management, Office of the Under Secretary General, United Nations and Eduardo Artigas, Moderators LtCol Axel Weber, Subject Matter Expert
15:00 – 15:30	**Networking Coffee Break (15 mins)**

Wednesday 09.11.2016

08:30 – 10:45	**Working Groups** **Session B:** **(I) Geospatial Information and Situational Awareness** – Kyoung-Soo Eom and Suzanne Shanahan, Moderators **(II) Protection Technologies: Sensors, Surveillance, and Reconnaissance** – Dirk Druet and Widmark Valme, Chief of Communications and Information Technologies, MINUSCA, United Nations, Moderators A. Walter Dorn, Subject Matter Expert **(III) Innovation in Information and Communications Technologies** – Gyooshik Choi, Christina Goodness and Allan Canonizado, Chief of Communications and Information Technologies, MINUSMA, United Nations, Moderators LtCol Axel Weber, Subject Matter Expert
10:45 – 11:00	Networking Coffee Break (15 mins)
11:00 – 12:00	**Working Groups Summary Session (Plenary Room)**
12:00 – 14:00	Lunch Break (60 mins)
	End of UN Events for the Day
14:00 – 17:00	Korea National Activities: Technology Fair
18:00 – 20:00	Host Country State Dinner - Sam Chung Gak International Conference Centre (Business Formal)
20:00	Return to Hotels

Thursday 10.11.2016

08:00 – 11:00	**Working Groups** **Session C:** **(I) Geospatial Information and Situational Awareness** – Kyoung-Soo Eom and Suzanne Shanahan, Moderators **(II) Protection Technologies: Sensors, Surveillance, and Reconnaissance** – Dirk Druet and Allan Canonizado, Moderators A. Walter Dorn, Subject Matter Expert **(III) Innovation in Information and Communications Technologies** – Gyooshik Choi and Widmarlk Valme, Moderators LtCol Axel Weber, Subject Matter Expert
9:45 – 10:00	Networking Coffee Break (15 mins)
11:00 – 12:00	Power Networking Coffe Break (60 mins)
12:00 – 13:30	Lunch Break (90 mins)
13:30 – 16:00	**Working Groups:** **Session D:** **(II) Protection Technologies: Sensors, Surveillance, and Reconnaissance** – Dirk Druet and Widmark Valme, Moderators A. Walter Dorn, Subject Matter Expert **(III) Innovation in Information and Communications Technologies** – Gyooshik Choi and Eduardo Artigas, Moderators Lt Col Axel Weber, Subject Matter Expert **(IV) Optimizing Engagement with Academia anf Think Tanks** – Suzanne Shanahan, Moderator **UN Open GIS Workshop –** Kyoung-Soo Eom, Prof. Ki-Joune Li and Ricardo Arias, Moderator

Friday 11.11.2016

08:00 – 9:00	**Working Groups Summary Session (Plenary Room)**
09:00 - 09:30	**Symposium Recap and Goals** – Stefan Lemm
9:30 - 11:00	**Outcomes: Possible Projects/Area of Cooperation** – Dr. Hae-Kyong Kang
11:00 - 11:30	Networking Coffee Break (15 mins)
11:30-12:00	**Next Steps for Partnership Engagements** – Eduardo Artigas, and Kyoung-Soo Eom
12:30- 12:50	**Farewell Speech** – J.Y. Kang, Director, Ministry of Foreign Affairs, Republic of Korea
12:50- 13:00	**Closing Remarks** – Anthony O'Mullane, Director, Information and Communications Technology Division, United Nations
13:00 – 17:00	**UN Open GIS Workshop –** Kyoung-Soo Eom, Prof. Ki-Joune Li and Juan A. Hurtado, Moderators
13:00 - 17:00	Executive Time
14:00-17:00	War Memorial Museum of Korea and Performance, Hosted by Republic of Korea
14:00 - 14:30	Bus from Seoul City Hall to War Memorial of Korea
14:30 – 16:30	Watching Performance at Peace Plaza (1h), War Memorial Museum United Nations Exhibit (Exhibition Room 3F)
16:30 – 17:00	Back to Seoul City Hall
17:00	End of Symposium

UN Open GIS Initiative: Workshop Agenda

Monday 07.11.2016	
09:00 – 09:30	**Arrival of Participants and Registration**
09:30 – 10:00	**SESSION *OG-1: OPENING AND WELCOMING**
	Moderator: Mr. Kyoung-Soo Eom, Chief UNGIS and Co-Chair UN Open GIS
	Welcome Remarks: Mr. Anthony O'Mullane, Director of Information and Communications Technology Division, United Nations and Dr. Dong-Ju Kim, President, Korea Research Institute for Human Settlements (KRIHS)
10:00 – 10:15	**Networking Coffee Break (15 mins)**
10:15 - 12:00	**SESSION OG-2: UN OPEN GIS VISION AND ROADMAP**
	Moderator: Mr. Kyoung-Soo Eom, Chief UNGIS and Co-Chair UN Open GIS
	Keynote Presentation: Prof. Ki-Joune Li, OpenGDS and Co-Chair UN Open GIS, Mr. Juan A. Hurtado, Science & Technology Advisor, US Southern Command, Co-Chair UN Open GIS and Mr. Ricardo Arias, Science & Technology Advisor, US Africa Command, Interim Deputy Chair UN Open GIS
	Panel Discussion: Prof. Maria A. Brovelli, Politecnico di Milano and Chair of UN Open GIS Spiral-II, Dr. Dimitri Dello Buono, Head of geoSDI Laboratory, Italy, Prof. Massimiliano Cannata, OSGeo and Univ. of Applied Sciences & Arts of Southern Switzerland, Mr. Bong-Yeon Cho, Director, Geospatial Information Division, Seoul Metropolitan Government, Ms. Andrea Leong, Senior Policy Officer, Singapore, Mr. David Memphill, Vice President, Boundless, Dr. Seok-Joon Kim, Vice President, KT, Mr. Kais Zouabi, Chief GIS, UNIFIL and Mr. Guillaume Criloux, Chief Geo Analysis, UNGIS

Tuesday 08.11.2016	
14:00 - 16:30	**SESSION *JO-1: WORKING GROUP - GEOSPATIAL INFORMATION AND SITUATIONAL AWARENESS**
	Operational requirements and challenges for UN peacekeeping operations, and review and progress update as well as lessons learned for the activities in 2016
	Moderator: Ms. Suzanne Shanahan, Deputy Director of ICTD/DFS/UN and Mr. Kyoung-Soo Eom, Chief UNGIS and Co-Chair UN Open GIS
	Keynote Presentation: Mr. Guillaume Criloux, Chief Geo Analysis, UNGIS
	Panel Discussion: Mr. Juan A. Hurtado, Science & Technology Advisor, US Southern Command, Co-Chair UN Open GIS, Brigadier General, Syed Mazhar Hussain, Ministry of Defense, Pakistan, Prof. Ki-Joune Li, OpenGDS and Co-Chair UN Open GIS, Dr. Dimitri Dello Buono, Head of geoSDI Laboratory, Italy, Prof. Maria A. Brovelli, Politecnico di Milano and Chair of UN Open GIS Spiral-II, Dr. HaeKyong Kang, OpenGDS and UN Open GIS Secretariat, Mr. Ricardo Arias, Science & Technology Advisor, US Africa Command, Interim Deputy Chair UN Open GIS, Mr. Kais Zouabi, Chief GIS, UNIFIL and Mr. Timur Obukhov, GIS Officer, UNGIS
16:00 – 16:30	**Networking Coffee Break (30 mins)**
16:30 - 18:00	**[CONTINUE] SESSION *JO-1: WORKING GROUP - GEOSPATIAL INFORMATION AND SITUATIONAL AWARENESS**
	Operational requirements and challenges for UN peacekeeping operations, and review and progress update as well as lessons learned for the activities in 2016
OG Session: UN Open GIS Initiative Session, JO Session: Joint Session within the UN Symposium Programme	

Wednesday 09.11.2016	
08:30 – 10:45	**SESSION JO-2: WORKING GROUP - GEOSPATIAL INFORMATION AND SITUATIONAL AWARENESS** *Identify areas of interest as new initiative to improve situational awareness and geospatial information services (operational & geospatial data collection, mobile data collection/ validation, web application, Internet of Things (IoT), open GIS solutions, etc.)* **Moderator:** Ms. Suzanne Shanahan, Deputy Director of ICTD/DFS/UN and Mr. Kyoung-Soo Eom, Chief UNGIS and Co-Chair UN Open GIS **Keynote Presentation:** Dr. Dimitri Dello Buono, Head of geoSDI Laboratory, Italy and Mr. David Memphill, Vice President, Boundless **Panel Discussion:** Mr. Younghoon Choi, Director-General for IT, Seoul Metropolitan Government, Ms. Andrea Leong, Senior Policy Officer, Singapore, Mr. Ricardo Arias, Science & Technology Advisor, US Africa Command, Interim Deputy Chair UN Open GIS, Prof. Maria A. Brovelli, Politecnico di Milano and Chair of UN Open GIS Spiral-II, Prof. Youngok Kang, OpenGDS and Ewha Womens University and Lt. Commander. Jean-Antoine Pompei, Ministry of Defense, France
10:45 – 11:00	**Networking Coffee Break (15 mins)**
11:00 - 12:00	**Working Group Summary Session (Plenary Room)**

Thursday 10.11. 2016	
08:00 – 11:00	**SESSION JO-3: WORKING GROUP - GEOSPATIAL INFORMATION AND SITUATIONAL AWARENESS** *Operational requirements and challenges for UN peacekeeping operations, and review and progress update as well as lessons learned for the activities in 2016* **Moderator:** Ms. Suzanne Shanahan, Deputy Director of ICTD/DFS/UN and Mr. Kyoung-Soo Eom, Chief UNGIS and Co-Chair UN Open GIS **Keynote Presentation:** Prof. Ki-Joune Li, OpenGDS and Co-Chair UN Open GIS **Panel Discussion:** Brigadier General, Syed Mazhar Hussain, Ministry of Defense, Pakistan, Mr. Juan A. Hurtado, Science & Technology Advisor, US Southern Command, Co-Chair UN Open GIS, Dr. Dimitri Dello Buono, Head of geoSDI Laboratory, Italy, Lt. Commander. Jean-Antoine Pompei, Ministry of Defense, France, Ms. Andrea Leong, Senior Policy Officer, Singapore, Mr. Ricardo Arias, Science & Technology Advisor, US Africa Command, Interim Deputy Chair UN Open GIS, Prof. Maria A. Brovelli, Politecnico di Milano and Chair of UN Open GIS Spiral-II, Dr. HaeKyong Kang, OpenGDS and UN Open GIS Secretariat, Mr. Seok-Joon Kim, Vice President, KT, Mr. David Memphill, Vice President, Boundless, Mr. Guillaume Criloux, Chief Geo Analysis, UNGIS and Mr. Timur Obukhov, GIS Officer, UNGIS
11:00 - 12:00	**Power Networking Coffee Break (60 mins)**
12:00 – 13:30	**Lunch Break (90 mins)**
16:00 - 18:00	**SESSION OG-3: UN OPEN GIS SPIRAL REPORT** **Moderator:** Mr. Juan A. Hurtado, Science & Technology Advisor, US SouthCom and Co-Chair UN Open GIS **Spiral-1 (GeoPortal):** Mr. Ricardo Arias, Science & Technology Advisor, US Africa Command, Interim Deputy Chair UN Open GIS and Mr. David Memphill, Vice President, Boundless **Spiral-2 (CB/Training):** Prof. Maria A. Brovelli, Politecnico di Milano and Chair of UN Open GIS Spiral-II and Mr. Diego Gonzalez, GIS Officer, UNGSC **Spiral-3 (Applications):** Dr. Hae-Kyong Kang, OpenGDS and UN Open GIS Secretariat **Spiral-4 (New initiative):** Prof. Ki-Joune Li, OpenGDS and UN Open GIS Co-Chair **UN Open GIS Architecture:** Dr. Joon-Seok Kim, OpenGDS, Pusan National University, Korea

Friday 11.11.2016	
08:00 - 09:00	**Working Group Summary Session (Plenary Room)**
13:00 – 15:30	**SESSION OG-4: DISCUSSION ON UN OPEN GIS ARCHITECTURE AND SPIRALS** **Moderator:** Prof. Ki-Joune Li, OpenGDS and Co-Chair UN Open GIS **Panel Discussion:** Mr. David Memphill, Vice President, Boundless, Prof. Ki-Joune Li, OpenGDS and Co-Chair UN Open GIS, Dr. Dimitri Dello Buono, Head of geoSDI Laboratory, Italy, Dr. Seok-Joon Kim, Vice President, KT, Mr. Sanghee Shin, CEO Gaia3D, Mr. Kais Zouabi, Chief GIS, UNIFIL, Mr. Guillaume Criloux, Chief Geo Analysis, UNGIS and Dr. Joon-Seok Kim, OpenGDS, Pusan National University, Korea
15:30 – 16:00	**Networking Coffee Break (30 mins)**
16:00 - 17:30	**SESSION OG-4: FUTURE PLAN, REVIEW AND CLOSING** **Moderator:** Mr. Kyoung-Soo Eom, Chief UNGIS and Co-Chair UN Open GIS **Summary Presentation:** Prof. Ki-Joune Li, OpenGDS and Co-Chair UN Open GIS **Panel Discussion:** Mr. Juan A. Hurtado, Science & Technology Advisor, US Southern Command, Co-Chair UN Open GIS, Dr. Dimitri Dello Buono, Head of geoSDI Laboratory, Italy, Brigadier General, Syed Mazhar Hussain, Ministry of Defense, Pakistan, Mr. Ricardo Arias, Science & Technology Advisor, US Africa Command, Interim Deputy Chair UN Open GIS, Prof. Maria A. Brovelli, Politecnico di Milano and Chair of UN Open GIS Spiral-II, Ms. Andrea Leong, Senior Policy Officer, Singapore, Dr. Seok-Joon Kim, Vice President, KT, Mr. David Memphill, Vice President, Boundless, Lt. Commander. Jean-Antoine Pompei, Ministry of Defense, France, Dr. HaeKyong Kang, OpenGDS and UN Open GIS Secretariat, Mr. Kais Zouabi, Chief GIS, UNIFIL, Mr. Guillaume Criloux, Chief Geo Analysis, UNGIS and Mr. Timur Obukhov, GIS Officer, UNGIS

Third United Nations Symposium on Partnership for Technology in Peacekeeping