

GE
SMART
ASIA 2018



Locate
#Locate18



WHEN

9 – 11 APRIL 2018

WHERE

ADELAIDE, AUSTRALIA

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GE 
SMART
ASIA 2016

17-19 OCT, 2016

GE 
Intelligence

Asia Pacific Forum

18 OCT, 2016

Theme: Geospatial PPP for Business & Society

BERJAYA TIMES SQUARE HOTEL, KUALA LUMPUR, MALAYSIA

PROGRAMME GUIDE

PRODUCED BY

GEOSPATIAL
media + communications

FARO Laser Scanner Focus^{3D} X Series HDR

The Perfect Instrument for 3D Documentation

NEW!
FARO Laser Scanner Focus^{3D} X Series HDR
 is our latest addition to our 3D Documentation



Focus^{3D} X 130 HDR Laser Scanner for Mid-range Applications

The FARO Focus^{3D} X 130 HDR is a powerful high-speed 3D scanner delivering realistic and true-to-detail scan results.

Focus^{3D} X 330 HDR Laser Scanner for Long-range Applications

The FARO Focus^{3D} X 330 HDR is a high-speed 3D scanner with extra-long range. It can scan objects up to 330 meters away even in direct sunlight, delivering realistic and true-to-detail scan results.

Features:



HDR Photo Overlay



Scanning from
130m - 330m Range



HD Photo Resolution



Easy Positioning
- Integrated GPS Receiver



Outdoor Scanning Capability

GEOSMART ASIA 2016

GeoSmart Asia 2016

Booth: 2

FARO Technology Track

18 October 2016

9.30am - 11.00am

Architecture | Construction & Engineering
 Forensics & Law Enforcement | Petrochemical | Shipbuilding | Surveying

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18 OCTOBER 2016

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19 OCTOBER 2016

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DATE: 17 OCTOBER 2016

TIME: 0800-0930 HRS

HALL: BRONX III

Breakfast Roundtable

Asia Pacific NMA-Industry Exchange Forum

National Mapping Agencies play a central role in achieving the National Developmental Goals, as well as United Nation's Sustainable Development Goals, as the primary agencies responsible for delivering authentic, accurate and updated spatial data to various line ministries, which not only helps them plan their projects and programs, but also keep a close eye for reviewing and assessing its progress as well as maintaining them.

One of the ways for National Mapping Agencies to leverage from the private sector in delivering key benefits for national developmental goals is to form a Public-Private-Partnership ventures. These PPPs may focus on delivering National Geospatial Platform as a Service to the ministries and citizens for a variety of purposes, such as for Content and Technology, Information Services, Capacity Development and Dissemination as well as for Standards, Policies and Legal considerations.

Asia Pacific NMA – Industry Exchange Forum aims to bring together the perspectives of these two important stakeholder of geospatial ecosystem on how collaborations can be forged for ensuring smarter and sustainable delivery of spatial data and information for various national development goals or the SDGs.

MODERATORS



SANJAY KUMAR

CEO, Geospatial Media and Communications, India



GREG SCOTT

Inter-Regional Adviser, United Nations Global Geospatial Information Management

OPENING ADDRESS



MEGHA DATTA

Director, Asia Pacific Public Sector, Geospatial Media and Communications, India

OPENING PROGRAMME



1000 – 1010 HRS

WELCOME ADDRESS

PRASHANT JOSHI

Vice President Asia Pacific, Geospatial Media & Communications, India



1010 – 1025 HRS

INDUSTRY KEYNOTE ADDRESS

BENG CHIEH QUAH

Head of Marketing, Asia-Pacific, FARO, Singapore



1025 – 1040 HRS

GUEST ADDRESS

GREG SCOTT

Inter-Regional Adviser, United Nations Global Geospatial Information Management



1040 – 1045 HRS

SPECIAL ADDRESS

YBHG. DATUK HANAPI BIN SUHADA

Director General, Federal Land Development Authority, Malaysia



1045-1050 HRS

SPECIAL ADDRESS

MARK ROZARIO

Chief Executive Officer, National Innovation Agency, Malaysia

1050 – 1105 HRS

Asia Geospatial Excellence Awards Presentation



1105 – 1125 HRS

INAUGURAL ADDRESS

Y.B. DATUK WIRA DR. ABU BAKAR BIN MOHAMAD DIAH

Deputy Minister of Science, Technology & Innovation, Malaysia



1125 – 1130 HRS

VOTE OF THANKS

SARAH HISHAM

Product Manager Asia Pacific, Geospatial Media & Communications, Malaysia

PLENARY 1

PPP Driving National Geospatial Platform for SDGs

MODERATOR & LEAD TALK



**DATO' DR. NADZRI BIN
YAHAYA**

Deputy Secretary General
Ministry of Natural
Resources &
Environment, Malaysia

SPEAKERS



**DATO' SR HASAN BIN
JAMIL**

Deputy Director General
Department of Survey and
Mapping, Malaysia



ED PARSONS

Geospatial Technologist
Google, United Kingdom



SIMON COSTELLO

Branch Head, National
Location Information
Geoscience Australia

PLENARY 2

Innovation in National Development Projects

MODERATOR AND LEAD TALK



IR. DR KARL NG KAH HOU

Director, Innovation Capital
Malaysia Digital Economy
Corporation, Malaysia

SPEAKERS



RAHUL MATTHAN

Partner, Trilegal, India



JOHN TAYLOR

Senior Director - Reality Modelling
(Asia Pacific), Bentley Systems,
Australia



DATUK IR. ELIAS ISMAIL

General Manager,
Technology Development,
Construction Industry
Development Board,
Malaysia



ASSOC. PROF. DR. ARCH. DO TU LAN

Advisor to the Minister of Construction & Honorary Head of the Department, Ministry of Construction, Vietnam

OCTOBER 18



SMART CITIES

0930-1100 HRS

SMART CITIES: ADOPTING SUSTAINABLE PRACTICES

Moderator

Assoc. Prof. Dr. Arch. Do Tu Lan

Advisor to the Minister of Construction & Honorary Head of the Department, Ministry of Construction, Vietnam

Speakers

Andy Wilson

Director Strategic Business Development, Ordnance Survey, United Kingdom
SMART Government = spatially connected government

Brian Nicholls

Executive Director, AAM, Australia
Geospatial Information is the Building Blocks for Smart Cities

Tuan Ly Minh

Director - ICT Institute, Information and Communications Department, Ho Chi Minh City, Vietnam
Applying GIS as an infrastructure of a smart city in HCMC

Ken Soh

Principal Consultant - Asia, Bentley Systems, Singapore
Advancing Smart Cities through Bentley Solution

Nik Mastura Diyana Binti Nik Mohamad

Deputy Director, Physical Planning Department, Kuala Lumpur City Hall
Malaysia

1100-1230 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1230-1330 hrs

Networking Lunch

SMART CITIES

1330-1500 HRS

STRATEGIC CITY PLANNING & SMART ELECTRICITY

Moderator and Lead Talk

Prof. Datuk Ismail Ibrahim

Chief Executive Officer, Iskandar Regional Development Authority, Malaysia
Iskandar Malaysia Smart City Blueprint & Realization

Speakers

Abhay Mittal

CEO, SkyMap Global, Singapore

Pongsakorn Yuthagovit

Deputy Director, System Planning Department, Provincial Electricity Authority, Thailand
The First Smart Grid project in Thailand, Pattaya City

Charles Wang

Software Developer - Spatial & Graph Technologies, Oracle, China

Mohd Azan Mat Jusoh

Utility Solutions Business, ICT Division, Tenaga Nasional Berhad, Malaysia
Unmanned Aerial System (UAS) Implementation in Tenaga Nasional Berhad (TNB)

1500-1600 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1600-1730 HRS

SMART WATER UTILITY

Keynote Speaker

Ir Hj Noor Azahari bin Zainal Abidin

Director General, Water Supply Department, Malaysia
Geospatial Applications in Water Supply

Speakers

M. Rajathurai

Sr. Manager Asset Performance, Bentley Systems Asia Pacific, India
Advancements in Technologies in the entire Lifecycle of Water toward a Smart Water Utility

Melanie Abuel

Asset Information Management System, Manila Water, Philippines
GIS Integration with Core Systems of a Water Utility

Mohd Zubaidi Daud

Executive, Planning & Engineering Department, Indah Water Konsortium, Malaysia
Application of Geospatial Technology to Improve Operational Efficiency and Sewerage Asset Management

Trudy R Ganendra

Director, Ground Data Solutions, Malaysia
Utility Mapping and its Challenges in Malaysia using Airborne LiDAR Technology

LOCATION ANALYTICS DRIVING BUSINESS INTELLIGENCE

IN COLLABORATION WITH



Moderator

Sarah Hisham

Product Manager Asia Pacific
Geospatial Media and Communications, Malaysia

0930-1100 HRS

**KEYNOTE SESSION:
BIG DATA ANALYTICS DRIVING NATIONAL
DEVELOPMENT AND BUSINESSES**

Speakers

Mazmalek Mohamad

Personal Data Protection Commissioner, Ministry of Communications
and Multimedia, Malaysia
Bringing Data Analytics to Emergency Services in Malaysia

Eve Kleiman

Director – Spatial & Graph Solutions, Asia /Pacific, Oracle Australia
Trends in Geospatial Big Data and Cloud

Azhar Abu Talib

Director, Network Security Lab, MIMOS, Malaysia
Big Geospatial Data Analytics

Somasundaram Nagappan

Senior Manager, Big Data Analytics, Malaysia Digital Economy Corporation
(MDEC), Malaysia
Malaysia at the forefront of Big Data Analytics: An overview of the National BDA Initiative

1100-1230 hrs Networking Tea/Coffee Break and Visit to Exhibition

1230-1330 hrs Networking Lunch

LOCATION ANALYTICS DRIVING BUSINESS INTELLIGENCE

1330-1500 HRS

AUTOMOTIVE, TELEMATICS & ROAD SAFETY: INTEGRATED EMERGENCY SUPPORT SYSTEM

Speakers

Rabihah Ilyas

Head Corporate and Knowledge Management, Malaysian Institute of Road Safety Research, Malaysia
eCall Initiative in Malaysia: The Concept of Implementation

Mahesh Patel

Chief Innovation Officer and Head of Product Management, Polaris Wireless Solution, USA
Location Intelligence for Public safety and Emergency Management

Oliver Marc Schaeztle

Automotive – Asia-Pacific, Head of Customer & Market Development, HERE, Singapore
Connected Cars: Vehicle-to-Cloud Data Platform

Sharail Affendi Bin Zainal Abidin

Sales Director, Tuxuri, Malaysia
Mapping Business Sense To Profitability

1500-1600 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1600-1730 HRS

INNOVATION IN LOCATION DATA AND ANALYTICS FOR SOCIETY AND BUSINESSES

Speakers

Mohamad Sazali Sha'ari

Executive Director, Malaysian Federation of the Deaf (MFD)
SaveME 999 DEAF: Location app for Hearing Impaired

Nor Hafifi Hj Ismail

Director of Policy Planning and Coordination, Malaysia Civil Defence Forces (MCDF)
The Power of Location Data in Search and Rescue Mission

Wan Razali Matsah

Assistant General Manager, Geomatics Development & Services, Telekom Malaysia
Location Analytics in Targeted Marketing

Norsam Mohd Yusoff

Deputy Director, Malaysian Communications and Multimedia Commission
MyCOMMS: Public Access to Communications and Multimedia Infrastructure and Services in Malaysia

AGRICULTURE & PLANTATION

IN COLLABORATION WITH



0930-1100 HRS

WAY TOWARDS SMARTER AGRICULTURE, PLANTATION & FISHERIES IN ASIA PACIFIC

**Moderator and
Keynote Speaker**

Rosely Kusip

Board of Director, Sime Darby Plantation, Malaysia

Speakers

Deepali Roy

Regional Product Manager Asia Pacific

Geospatial Media and Communications, India

Role of Geospatial Technology in Sustainable Agriculture Development

Khoo Hock Aun

CEO, Cosmo Biofuels Group; Secretary, Malaysian Society for Waste Management and Environment and Assembly Delegate, Roundtable for Sustainable Biomaterials, Malaysia

Applications of UAVs in Plantation Agronomy in South East Asia

Avinash Tyagi

Secretary General, International Commission on Irrigation and Drainage, India

Richard Kottmeyer JD

Vice President – Agriculture and Food, Luxoft, USA

1100-1230 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1230-1330 hrs

Networking Lunch

AGRICULTURE & PLANTATION

1330-1500 HRS

CLIMATE-SMART FARMING: PRODUCTIVITY VS SUSTAINABILITY

Moderator and Lead Talk

Chris de Lavigne

Principal Lead-Agriculture, Global Strategy Group, KPMG, Singapore

Speakers

Sven Cowan

Director, Customer Experience, UrtheCast, Canada

Precision Agriculture Powered by Satellite Imagery

Totok Suswanto

Agronomist / Senior Research Officer, PT. Applied Agricultural Resources, Indonesia

Geospatial Application For Drainage Improvement Project: Case Study In Berau, Indonesia

Susandi Kusuma

GIS Specialist, Indonesia

1500-1600 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1600-1730 HRS

PRECISION FARMING: BRINGING AUTOMATION TO THE FIELDS

Moderator and Lead Talk

Dr. Siva Balasundram

Associate Professor (Precision Agriculture), Universiti Putra Malaysia

Precision Nutrient Management

Speakers

Mark Yong

CEO/Co-Founder, Garuda Robotics, Singapore

Towards RSPO: Applying Drone Technology for Management and Compliance

Sumaiya Nour

Manager (Program), Bangladesh Institute of ICT in Development (BIID), Bangladesh

Irrigation Scheduling and Advisory App

Raghavan Sampathkumar

Director, SMARTAgBiz, Singapore

Geospatial Technology Applications for Augmenting Regional and Global Food Security

Jagdev Singh Dulku

Regional Manager-APAC, GeoTraceability, Malaysia

SURVEYORS' WORKSHOP

0930-1100 HRS

EVOLVING USER NEEDS

Moderator

Datuk Sr Dr. Abdul Kadir Bin Taib

Founder, Platinum Survey Consultant, Malaysia

Speakers

Carsten Roensdorf

Practice Lead for Future Cities, Open Standards, Data Sharing and 3D, Ordnance Survey, UAE

Future Technologies Complementing Surveying and Modelling Practice

Sr Mohamad Kamali Bin Adimin

Director, Department of Survey and Mapping State of Selangor, Malaysia
The Role and Readiness of Land Surveyors toward the Implementation of BIM in Malaysia

Daniel Kruimel

Business Development Manager – SE Asia, AAM, Australia
Adapting Survey Techniques for Smart City Requirements

1100-1230 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1230-1330 hrs

Networking Lunch

1330-1500 HRS

MODERN SURVEY TOOLS

Speakers

Jackson Cham

Technical Sales Manager, Bandwork GPS Solutions, Malaysia
Spatial Data 3D Documentation & Analysis with FARO's 3D Laser Scanning Technologies

Sr. Hj. Johari Wahab

Licensed Land Surveyor, AJ Surveyors, Malaysia
Multi-Functionality of Ground Penetrating Radar in Diverse Industries

Simone Placidi

Business Development Manager, Metasensing, The Netherlands
Advanced High-Resolution Ground-Based and Airborne Radar Sensors for Geosurveying

Ahmad Tarmizi bin Ahmad Shanusi

Chief Technology and Information Officer, Aerodyne Geospatial, Malaysia
Rapid Reality Capture with Autonomous UAV and Integration with Cloud Processing and Solution

GEOINTELLIGENCE ASIA PACIFIC

Moderator and Opening Remark

Lt Gen AKS Chandele, PVSM, AVSM (RETD)

President – Defence Internal Security & Public Safety
Geospatial Media & Communications

0930-1100 HRS

KEYNOTE

Speakers

Laksamana Maritim Dato' Sri Hj Ahmad Puzi Bin Hj Ab Kahar

Director General, Malaysian Maritime Enforcement Agency

John Cartwright

Vice President, International Defense and Intelligence Programs, DigitalGlobe, USA
Mission Assurance in the WorldView Era

Brig. General Sr Dr. Mohd. Zambri bin Mohamad Rabab,

Divisional Director, Defence Geospatial Division, JUPEM, Malaysia
Development of Web GIS for MH17 Incident

John Taylor

Senior Director - Reality Modelling (Asia Pacific), Bentley Systems, Australia, Australia
Reality Modelling for Geoint Capability Improvement

1100-1230 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1230-1330 hrs

Networking Lunch

1330-1500 HRS

BORDER SECURITY

Speakers

Sr Dr Azhari Bin Mohamed

Director of Survey, Boundary Affairs Division, Department of Survey and Mapping Malaysia
Laying Malaysia's Territorial Claim in the South China Sea

Lee Kok Wai

Country Business Manager, Large Format Print, HP, Malaysia
HP Larger Format Innovation

Captain Martin A. Sebastian RMN (R)

Fellow and Centre Head of the Centre for Maritime Security and Diplomacy, Maritime Institute of Malaysia
Geospatial Intelligence for Maritime Security

GEOINTELLIGENCE ASIA PACIFIC

Alfred Law

VP Asia Pacific, UrtheCast, Canada

Advanced ISR Capabilities Powered by UrtheCast's Satellite Constellations

Alex Tan

Regional Sales Manager S.E.A., DigitalGlobe, Singapore

Intelligence, Surveillance, Reconnaissance (ISR) – Case Studies on Situational Awareness

1500-1600 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1600-1730 HRS

INNOVATIONS IN PUBLIC SAFETY

Speakers

Dato' Prof. Dr. Shattri Mansor

Director, Geospatial Information Science Research Centre, Universiti Putra Malaysia

LTA-UAV: The Future of Disaster Response and Surveillance

Lt. Kol. (PA) Noor Azam Bin Johari

Assistant Director, Disaster Management and Operation Division, Malaysia Civil Defence Forces (MCDF), Malaysia

GIS in Disaster Management

Dr Dinesh Satyamoorthy

Senior Research Officer, Science & Technology Research Institute for Defence, Malaysia

Evaluating the Effect of Global Positioning System (GPS) Antenna Orientation on GPS Performance

TECHNOLOGY TRACK

HOSTED BY

**FARO**

0930-1100 HRS

EMPOWERING USER WITH FARO 3D LASER SCANNING TECHNOLOGIES

Speakers**Ryan Almonte**

Sales Engineer, FARO, Singapore

*Overview of 3D Documentation and How Reality is documented with FARO's Technologies***Beow Kwan Chew**

Product Marketing Associate Manager FARO Asia Pacific, Singapore

*Latest Products and Solutions by FARO***Jackson Cham**

Technical Sales Director, Bandwork GPS Solutions, Malaysia

*FARO Terrestrial Laser Scanning Technology – Success Stories***Swy Cha**

Channel Manager, 3D Systems, South Korea

Introduction to Geomagic Software Suite

INNOVATIONS IN SPACE TECHNOLOGIES

IN COLLABORATION WITH



Moderator and
Lead Talk

Dr Noordin bin Ahmad

Director General, National Space Agency (ANGKASA), Malaysia
Shaping the Nation's Space Agenda

1330 - 1500 HRS

SESSION 1

Speakers

Prof Takahashi Yukihiro

Director, Space Mission Center, University of Hokkaido, Japan
High-Quality, Cost Effective Imaging with Advances in Sensor Technology

Masanobu Tsuji

Director - Bangkok office, JAXA , and Executive Secretary, Asia Pacific
Regional Space Agency Forum, Japan
JAXA's Earth Observation Program and Mapping Applications

1500 - 1600 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1600 - 1730 HRS

SESSION 2

Speakers

Mark Lütznert

Acting Project Manager, GNSS.asia, Germany
GNSS.asia – A European initiative for International cooperation across continents in GNSS

Dr Rashid Shariff

Faculty of Engineering, Universiti Putra Malaysia & President, Institution of
Geospatial and Remote Sensing Malaysia
User Needs for Space Data in Optimising Agriculture Yield

Rogel Mari Sese

Program Leader, National SPACE Development Program, Dept of Science &
Technology, Philippines

Aziz Yusoff

Senior Vice President, Special Projects, Astronautics Technology Sdn Bhd,
Malaysia
A Multitier and Multilateral Social Innovation Approach for Space Technology Development

SPACE APPLICATIONS IN SMART CITIES - A SESSION WITH ANGKASA

ABOUT THE SESSION

This session will showcase ANGKASA's Spatial Smart City Service Delivery Engine (Smart City) project, which utilizes and integrates space technology applications, geospatial technology and information and communication technology, ICT. Modules include:

- Smart License Management (SmL)
- Smart Waste Management (SmW)
- Smart Facility Management (SmF)
- Smart Complaint Management (SmC)

This session also intends to highlight:

- Benefits of space technology applications in smart cities
- Features and relevant information about ANGKASA's Smart City application

Participants will have a valuable opportunity to directly give feedbacks and comments to ANGKASA's Director General during the session.

Lead Speaker

Dr. Noordin Ahmad

Director General, National Space Agency (ANGKASA), Malaysia

SMART CONSTRUCTION – GEOBIM

IN COLLABORATION WITH



Moderator

Dr John Rogers

Executive Director, buildingSMART Malaysia

1330-1500 HRS

SMART BUILDING & INFRASTRUCTURE DESIGN

Speakers

Mohd Harris Ismail

Deputy Chairman, buildingSMART Malaysia

BIM Implementation for Mega Projects in Malaysia

Ronan Collins

Executive Director, AECOM, Malaysia

BIM For Railway Construction – What’s more important? Models or Information?

Christopher Pynn

Associate Principal, Arup, Australia

Getting a Benefit from BIM – The Secret to Success

Dr. Hazman Hazumi

Director/Registered Conservator, Global Heritage Consultancy, Malaysia

Application of 3D Laser Scanning and Digital Tools in Preparing Conservation Management

Plan (CMP) Report for the Masjid Negara of Kuala Lumpur

Engr. Erlyn T. Caguioa

Lead Geospatial Information Administration Officer & Chief, Data

Administration Section, Information Management Service,

Dept of Public Works & Highways, Philippines

GIS Apps for Smart Infrastructure

1500-1600 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1600-1730 HRS

SUSTAINABLE CONSTRUCTION

Speakers

Ir Sharifah Azlina Raja Kamal Pasmah

Chief Operating Officer, HSS Engineering, Malaysia

At the Forefront of the Construction Industry with Building Information Modeling (BIM):

The Challenges

Kamarul A Muhamed

Founder and CEO, Aerodyne Geospatial, Malaysia

Integrating UAS for Effective Construction Management and Reporting

Li Juan

Principal GeoSpatial Consultant, Singapore Land Authority

A Collaborative Geospatial Platform to Facilitate the UAS Flight for Construction Site Inspection

Rohaizad Mat Nawi

Director, Business Development, Arecatech (ARECA), Malaysia

Overcoming Brownfield Project Execution Challenges with Laser Scanning & Integrated Solutions

INNOVATIVE GOVERNANCE FOR SOCIAL CHANGE

Moderator

Sr. Razali Ahmad FRISM, MRICS

Custodian, Geomatics Department, Exploration PETRONAS, Malaysia

0930-1100 HRS

SESSION 1

Speakers

Sr Dr. Zainal bin A. Majeed

Director of Survey, Mapping Policy Section, Department of Survey and Mapping, Malaysia

Names in Mapping and GIS

Ir. Rozinah Anas

Project Director MERS 999, Telekom Malaysia Berhad

TM initiatives for Person with Disability (PwD)

Katherine Chong Wee Tyng

Principal Geospatial Consultant, Singapore Land Authority

One Historical Map-Locating the Past of Present

Ooi Wei Han

Senior Research Officer, National Space Agency, Malaysia

Design and Implementation Tracking System for Children with Autism

1100-1230 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1230-1330 hrs

Networking Lunch

1330-1500 HRS

SESSION 2

Speakers

Wu Hsun-Wen

Deputy Director, Department of Statistics, Ministry of the Interior, Taiwan (R.O.C)

Developing Nationwide Statistical Map APIs for Effective Governance

Dr. Mohd Khairil Mohd Razi

Administrative Officer, Federal Land Development Authority, Malaysia

FELDA Geographical Land Index: Advances in Techniques and Contributions to FELDA Land Governance

Nasrin Nadirah Binti Mohd Sah

Head of Physical Development Unit, Melaka Tengah District and Land Office, Malaysia

IMapping for Enhanced Decision Making in Governance

Commander Kamaruddin Yusoff RMN

Head - Metoc Section, National Hydrographic Centre, Malaysia

Marine SDI supporting MyGDI (Malaysia Geospatial Data Infrastructure)

Dr. Ir Muhammad Marizwan bin Abdul Manan

Research Officer, Malaysian Institute of Road Safety Research, Malaysia

Road Surface Condition and Monitoring Application, Utilizing Motorcycle Motion

YOUTH FORUM

IN COLLABORATION WITH



MODERATOR

Dr Shahnawaz

Director (S & SE Asia), UNIGIS International University of Salzburg Austria

0930-1100 HRS

INDUSTRY TRENDS & DIRECTIONS

PANELLISTS:

Saiful Nizam Mustafa

Manager - Geomatics Dept., Technical Services Division, PETRONAS Carigali, Malaysia

Dr Zaffar Sadiq Mohamed-Ghouse

Director - NSW Business Development, Research & International Relations CRC for Spatial Information, Australia

Dr Lam Kuok Choy

Senior lecturer of Geography, Faculty of Social Sciences & Humanities National University of Malaysia

Kavitha Seras

Business Consultant, AAM, Malaysia

1100-1230 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1230-1330 hrs

Networking Lunch

YOUTH FORUM

1330-1500 HRS

STUDENTS INNOVATIVE RESEARCH

Speakers

Nurul Aini Syazanna Binti Yazid

Universiti Kebangsaan Malaysia

Analysis of Temperature and Rainfall Variability towards Palm Oil Phenology using MODIS Vegetation Index

Zakri Tarmidi

Universiti Putra Malaysia

A conceptual collaboration framework in enabling marine spatial data sharing in Malaysia

Abubakar Magaji Jibrillah

Universiti Kebangsaan Malaysia

Climate Change Manifestation in Sokoto Close-settled Zone, Northwestern Nigeria: Evidences from Meteorological and Remote Sensing Data

Najihah bt Ngaimin

International Islamic University of Malaysia

Analysing the Environmental Condition for Forestry Area using GIS-AHP Approach in Forest Research Institute Malaysia Campus, Selangor

Sadiq Mukhtar

Universiti Kebangsaan Malaysia

Application of GIS in the study of sociopolitical factors behind forced internal migration in Nigeria

Mary Julienne Joy Bongcac

Geodetic Engineering, University of the Philippines – Diliman, Philippines

Spatial analysis of water quality using unmanned aerial system (UAS): A study of Lake Palakpakin, San Pablo, Laguna

1500-1600 hrs

Networking Tea/Coffee Break and Visit to Exhibition

DISASTER MANAGEMENT

Moderator and Lead Talk

Michael Petterson

Director, Applied Geoscience and Technology Division, Secretariat of the Pacific Community, Fiji Island

Using Geo-information analysis to improve Pacific Disaster Resilience

0930-1100 HRS

KEYNOTE

Speakers

Ir. Mohd Zaki bin Mat Amin

Director, Water Resources Center, National Hydraulic Research Institute, Malaysia

Big data analytics to diagnose hydro-meteorological disasters due to climate change

Alex Tan

Regional Sales Manager S.E.A., DigitalGlobe, Singapore

Role of DigitalGlobe Imagery in Humanitarian Assistance and Disaster Relief

Dr Pan Chi-Kin

Acting Senior Scientific Officer, Hong Kong Observatory

Smart Use of GIS Platform for Delivering Weather Information and Nowcasting Services

1100-1230 hrs

Networking Tea/Coffee Break and Visit to Exhibition

1230-1330 hrs

Networking Lunch

1330-1500 HRS

GI FOR DISASTER PREPAREDNESS AND RISK REDUCTION

Speakers

Kelvin Art T. Ofrecio

Officer-in-Charge, Communications, Electronics and Information Systems Division, Office of Civil Defense, Philippines

National Information and Communications Technology Architectures for Disaster Management in Philippines

Gordon Staples

Senior Analyst & Project Manager - Geospatial Services, MDA, Canada

The Role of RADARSAT-2 for Disaster Management

Priyono

Dean, Geography Faculty, Universitas Muhammadiyah Surakarta, Indonesia

GIS and Speleology Survey for Estimating Underground River System in Karst Region

Simone Placidi

Business Development Manager, MetaSensing, The Netherlands

Geospatial Applications of High-Resolution Radar Sensors in Disaster Management

1500-1600 hrs

Networking Tea/Coffee Break and Visit to Exhibition

DISASTER MANAGEMENT

1600-1730 HRS

GI FOR DISASTER PREPAREDNESS AND RISK REDUCTION

Speakers

Trudy R Ganendra

Director, Ground Data Solutions, Malaysia
Airborne LiDAR technology for Disaster Management

Lim Choun-Sian

Senior Research Officer, Centre for Southeast Asia Disaster Prevention
Research, Universiti Kebangsaan Malaysia
Integrated and Multi-Hazard Disaster Management

Prof. Koo Voon Chet

Faculty of Engineering and Technology, Multimedia University, Malaysia
Ground-based Imaging Radar for Landslide Monitoring

Sandip Banerjee

Product Manager, SkyMap Global, Singapore

NATIONAL GEOSPATIAL DEVELOPMENT MASTER PLAN PROJECT: INDUSTRY CONSULTATION WORKSHOP

About Workshop

Industry Consultation, your voice matters!!! The NRE is pleased to invite you to a consultation workshop as part of the National Geospatial Development Master Plan project coordinated by Dr Nik and Associates. The workshop facilitator, Dr Zaffar Sadiq Mohamed-Ghouse, International Adviser to NGDMP project will gather inputs from Malaysian Geospatial Industry players. The workshop will focus on current and future state of Geospatial needs from Industry perspective.

Workshop Facilitator

Dr Zaffar Sadiq Mohamed-Ghouse

Director - NSW Business Development, Research & International Relations,
CRC for Spatial Information, Australia

SPONSORS & EXHIBITORS PROFILE





AAM is a global geo-solutions company. We capture and analyse the full range of geospatial information, including aerial imagery, high density LiDAR, MLS, TLS, building information models and reality city models. Rapid and easy access to these data and tools, through our GEOCIRRUS cloud-based platform, improve productivity by enabling faster and more accurate location decisions.

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Aerodyne geospatial is Malaysia's leading end-to-end unmanned managed service provider. A recipient of the Forst and Sullivan company of the year 2016 (UAV), the company provides a UAV based integrated total solution designed to enhance clients' operational capabilities and performance. The specialisation ranges from project management, monitoring and reporting system to cloud-based industrial inspection, geospatial intelligence to full-scale GIS development. The company has grown to over 100 Specialised crew and subject matter experts in three short years and attributed it's phenomenal growth to strong in-house capabilities; focus on innovation and delivery-centric work culture.

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The National Space Agency, Malaysia (ANGKASA) is an agency under the Ministry of Science, Technology and Innovation Malaysia. It is mandated to develop the country's potential in the space sector to support the development of the new economy, generate knowledge and strengthen the national security infrastructure. It envisions to harness space as a platform for knowledge generation, wealth creation and societal well-being. Towards this vision, ANGKASA has actively involved in various projects locally and internationally, namely, in space technology, space applications and space sciences.

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Bentley is the global leader dedicated to providing architects, engineers, geospatial professionals, constructors, and owner-operators with comprehensive software solutions for sustaining infrastructure. Bentley Systems applies information mobility to improve asset performance by leveraging information modeling through integrated projects for intelligent infrastructure. Its solutions encompass the MicroStation platform for infrastructure design and modeling, the ProjectWise platform for infrastructure project team collaboration and work sharing, and the AssetWise platform for infrastructure asset operations – all supporting a broad portfolio of interoperable applications and complemented by worldwide professional

services. Bentley's government solution optimizes workflows by providing the necessary tools for workflows supporting GIS, mapping, BIM, campus/ installation information management, and infrastructure engineering. This solution also delivers powerful tools for Web publishing, printing, and plotting, as well as for the registration and maintenance of parcels and parcel-related data for government and non-government organizations.

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DigitalGlobe is the industry-leading provider of Earth imagery and information about our changing planet, and a trusted partner to both governments and commercial customers. The company operates with a clear Purpose—Seeing a Better World™—which drives the business and galvanizes its employees around the world. DigitalGlobe's unclassified and shareable imagery now serves hundreds of thousands of end-users across the U.S. government and its allies charged with the safety and security of nations, and enables the maps and geospatial applications relied on by billions of consumers. With best-in-class imagery, a global ground infrastructure, and accessible Geospatial Big Data platform on which hundreds of applications can be run against a 15-plus year time-lapse library of imagery, DigitalGlobe makes the unseen, seeable. The company's wealth of imagery and data makes it possible for customers to see the Earth in new ways, extract unique insights, and implement new solutions for the world's most pressing challenges.

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Motiwalla was founded in 1886 and now celebrating 130 years of service. We are in the field of Geomatics & Reprographic Systems and aim to provide complete support to architects, engineers, surveyors, contractors, GIS professionals and foresters. Although E.J Motiwalla is over one hundred years old, innovation has always been the company's essential characteristics, and this explains its staying power over the years. We are currently making special efforts to focus on new opportunities that information technologies and the knowledge-based society of today have created. Digital technologies are rapidly changing the face of traditional Surveying & Reprography and many of our clients require an expanded range of solutions. Our services will include user requirement studies to make sure what our clients' need are, proposing options, and then working with customers to identify and implement the best possible solution. In this process, expert in the relevant fields are consulted so that the most current and best solutions will always be offered to customers.

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FARO is the world's most trusted source for 3D measurement technology. The Company develops and markets computer-aided measurement and imaging devices and software. Technology from FARO permits high-precision 3D measurement, imaging and comparison of parts and compound structures within production and quality assurance processes. The devices are used for inspecting components and assemblies, production planning, documenting large volume spaces or structures in 3D, surveying and construction, as well as for investigation and reconstruction of accident sites or crime scenes. Worldwide, approximately 15,000 customers are operating more than 30,000 installations of FARO's systems. The Company's global headquarters is located in Lake Mary, Fla., its European head office in Stuttgart, Germany and its Asia/Pacific head office in Singapore. FARO has branches in Brazil, Mexico, Germany, United Kingdom, France, Spain, Italy, Poland, Netherlands, India, China, Singapore, Malaysia, Vietnam, Thailand and Japan.

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Authority FELDA was established on July 1, 1956 with the objective of poverty eradication through the cultivation of oil palm and rubber. The FELDA function is to carry out projects of land development and agricultural activities, industrial and commercial social economy. Today, Felda plays major role by providing modern facilities on the schemes, ensuring the next generation of settlers educated to enhance the socio-economic and quality of life. FELDA focus is to be the 'Economic Powerhouse' in generating economic activities in 2020 through its structural program with a wide range of human capital potential.

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Forest Department Sarawak is committed to total quality as the foundation of its very existence. To achieve total quality, Forest Department Sarawak dedicates itself towards continuous improvement in the field of human resources through:

- Leadership by example
- Quality workforce
 - Healthy work ethic
 - Customer-driven initiative
 - Entrepreneurial performance
 - Continuous learning

Recognizing the forces of change as the key elements in influencing organizational excellence, the Forest Department Sarawak is in constant search for new ideas in scientific innovation in its daily administrative and managerial undertaking.

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Ground Data Solutions R&D Sdn Bhd (GDS) is an airborne LiDAR and digital imagery survey service provider, providing fast, accurate and cost effective topographical mapping solutions since 1989. Our clients include professionals from Water Catchment, Flood and Slope Management, Dam, Road, Transmission Line, Pipeline, Railway, Mining, Telecommunication and Urban Planning, Forestry and Agricultural industries throughout SEA . GDS can now provide the highest resolution LiDAR and imagery data in Malaysia with its new Riegl Q780-400kHz waveform laser scanner and Phase-One 80MP metric camera and also offer software solutions for online LiDAR data management.

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HP creates new possibilities for technology to have a meaningful impact on people, businesses, governments and society. With the broadest technology portfolio spanning printing, personal systems, software, services and IT infrastructure, HP delivers solutions for customers' most complex challenges in every region of the world. In Large-Format Printing, HP has been #1 in the 24" to 60" aqueous-based Large Format Printer Market in terms of units shipped from 2007-2015 in Australia, India, Indonesia, Korea, Malaysia, PRC , Taiwan, Thailand and RoAP [Source: IDC WW Quarterly Large Format Printer Tracker Q2 2015].

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IGRSM 's overall objective is to support and facilitate the development of geospatial and remote sensing technologies in the country. To this end, it has embarked in several activities aimed towards further promoting the use of the technology, strengthening government-private sector interaction, encouraging more publications of R&D results, and keeping members duly informed of geospatial and remote sensing activities within and outside the country.

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IMAO is a company exclusively specialised in aerial data acquisition. IMAO has a 15 years experience in photo, Lidar and 3D projects all over the world. From the full coverage of a country to the careful exploration of a restricted area, IMAO adapt acquisition tools on demand and constantly innovate to meet the market challenges.

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KQ GEO Technologies Co., Ltd was established in May 2001 in the Beijing, which is a high-tech private enterprise focusing on the development of core technologies and products in geospatial field. KQ GEO has possessed a lot of core technologies, and self-developed software and hardware such as KQGIS Desktop, KQGIS Server, KQGIS Mobile, Multisource RS Data Integrated Processing System, High-accuracy RTK devices, Arial Photogrammetry GNSS Receiver, etc. With rich experiences accumulated from thousands of GIS projects, we also provide and customize solutions in industries like land and real estate management, forestry management, water resources management, government informatization, etc.

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MDA is a global communications and information company, and a leading provider of geospatial information solutions to customers with operational needs for essential decision making. MDA delivers advanced geospatial information solutions derived from the high-resolution RADARSAT-2 satellite, commercial optical satellites and aerial systems. Leveraging over 20 years of experience in processing and delivering Earth observation data, MDA is a recognized leader in the provision of satellite-based information, data products, and services to customers in a diverse range of markets that include Oil and Gas, Defence and Security, Disaster Management, Natural Resources, Mining, Aviation and Agriculture.

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MetaSensing B.V. is a high-tech radar company located in the Netherlands. It was founded within the European Space Agency (ESA) Business Incubation Centre in 2008. It is one of the few companies in the world which offer complete radar solutions for commercial, governmental and academic clients. MetaSensing provides advanced airborne and ground-based radar sensors and services for mapping, imaging, monitoring and surveillance applications in various areas

including agriculture, hydrology, glaciology, climate, land, ocean, geomatics, forestry, infrastructure, security and defense. Currently, MetaSensing has also started the development of space-graded Synthetic Aperture Radar (SAR) payload for small satellites in order to increase its portfolio of solutions for the customers. In Q3 2016, MetaSensing opened MetaSensing AP in Singapore to promote its radar activities and to give close support to current and future customers in the Asia Pacific region.

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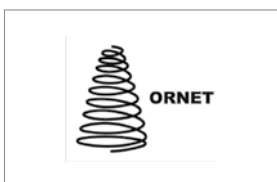


Oracle is the world's most complete, open, and integrated business software and hardware systems company. With more than 400,000 customers—including 100 of the Fortune 100—in more than 145 countries around the globe, Oracle is the only vendor able to offer a complete technology stack in which every layer is engineered to work together as a single system. Oracle's industry-leading products give customers unmatched benefits including unbreakable security, high availability, scalability, energy efficiency, powerful performance, and low total cost of ownership. For geospatial solutions Oracle offers a wide range of 2D and 3D Spatial capabilities based on OGC and ISO standards in database, middleware, big data, and cloud platforms. These technologies are used by numerous 3rd party tools, components and solutions as well as by Oracle's enterprise applications for on-premise and cloud deployment.

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ORNET is a Malaysian incorporated company, dedicated to marketing and providing solution for Hyperspectral Imager and Spectroscopy related fields. Its products range from Test & Measurement Instruments, Lab & research instruments as well as analytical instruments. ORNET have almost one decade of experience in developing customerdefined measurement configurations. With a long history of consulting clients across diverse industries and applications, ORNET have well-known partner, equipped to guide customers who want a custom-made solution to their application and research needs. ORNET have expertise in remote sensing with experience of flying UAV. Actively marketing Hyperspectral Imager using UAV, also providing hyperspectral Mapping Services.

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SkyMap Global is Asia's leading provider of Imagery and geospatial information. These data sources are being targeted towards geospatial applications for Infrastructure, Mining, Energy, Water Resources, Insurance, Agriculture, Plantation and Environment. SkyMap Global has a global presence through partners and consultants at National and International levels to leverage business solutions and benefits.

Our Vision is as below:

- To bring satellite imagery to the doorstep of every user empowering them with a better decision making to help sustainability of our resources
- To create an ecosystem of consultants & local partners enabling them with right set of technology and Go-To-Market strategy
- To provide next generation of data products and services for our customers by co-creating solutions with our global technology partners

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Telekom Malaysia Berhad (TM), Malaysia's Convergence Champion and No. 1 Converged Communications Services Provider, offers a comprehensive range of communication services and solutions in broadband, data and fixed-line. As a market leader, TM is driven by stakeholder value creation in a highly competitive environment. The Group places emphasis on delivering an enhanced customer experience via continuous customer service quality improvements and innovations, whilst focusing on increased operational efficiency and productivity.

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As the largest electricity utility in Malaysia, Tenaga Nasional Berhad (TNB) continues to lead the way in building a more sustainable energy platform by exploring alternative energy, in line with the government's green agenda. As we move towards reducing our reliance on fossil fuels, other renewable energy such as solar power, biomass and hydroelectricity continues to open up new possibilities for the future of green energy. This also spurs interest and development in energy storage technologies and control systems to ensure stable and efficient electricity delivery using renewable resources.

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Tuxuri is a Company Signatory of the Corporate Integrity Pledge for Anti-Corruption since 7th of July 2015. Honored to get the MSC status on May 2016. Listed and become a member of the Open Geospatial Consortium Member (Full Member), Open Source Geospatial Foundation (OSGeo), Registered Service Provider, Google For Work Partner (Geo), Nokia HERE Enterprise Partner (Content & Platform) and also TM Geomatics Technology Partner (TM SmartMap API). Currently doing a project and had an experienced to do a project with Tenaga Nasional Berhad, LHDN, Maxis Berhad, Telekom Malaysia Berhad and others.

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UrtheCast™ is an international company that democratizes access to Earth imagery data from its growing satellite system — two cameras aboard the International Space Station, the Deimos-1 and Deimos-2 satellites, the proposed UrtheDaily™ Constellation of eight small sats designed to image Earth every day at 10:30 am, and the proposed OptiSAR™ Constellation of 16 satellites designed to image through atmospheric barriers like cloud and smoke. Along with 13 satellites in the Pangeo Alliance, UrtheCast provides space-based data, products and services for geospatial analysis, monitoring and management of agriculture, resources, the environment, and more. The unprecedented, cloud-based UrthePlatform allows for rapid access to imagery data from three of UrtheCast's sensors and a growing external data offering that currently includes NASA's Landsat 8 satellite. Visit urthecast.com for details.

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Vexcel Imaging, based in Austria, taps into more than two decades of photogrammetry expertise offering state-of-the-art digital aerial and terrestrial sensor systems based on the latest and most-advanced technology. The system family is complemented by the fully integrated processing software UltraMap delivering exceptional quality point clouds, DSMs and ortho imagery. Imagemaps Pte Ltd is an official Vexcel Imaging Partner with extensive experience in aerial sensing technology and geospatial solutions. The airborne sensor solutions include digital mapping cameras, inertial measurement and positioning systems, digital photogrammetry and imaging processing including project and workflow management. Imagemaps is a division of Credent Technology Asia, based in Singapore.

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TechnoVentures Holding is a provider of best of breed ICT software product and multi-support service which focuses on value creation, onsite operational services and customer satisfaction. Our expertise is in the areas of ICT consultancy, software design and system integration, project management, IT training, data conversion, system upgrade, support and maintenance management.

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- ✓ Bathymetry
- ✓ Big Data
- ✓ Business Geographics/Analytics
- ✓ Cadastral Mapping
- ✓ Cartography
- ✓ Climate Change
- ✓ Computing in the Cloud
- ✓ Crime Mapping/Modelling
- ✓ Data Capture/Collection
- ✓ DEM- Digital Elevation Model
- ✓ DGPS - Differential GPS
- ✓ Digital City Models
- ✓ Digital Mapping
- ✓ Digital Rights Management
- ✓ Disaster Management/Monitoring
- ✓ DSM - Digital Surface Model
- ✓ DTM - Digital Terrain Model
- ✓ Dynamic Mapping
- ✓ Earth Observation
- ✓ Emergency Services
- ✓ ENC - Electronic Navigation Chart
- ✓ Environmental Monitoring
- ✓ Galileo
- ✓ Geo-ICT
- ✓ Geodesy
- ✓ Georeferencing
- ✓ Geosciences
- ✓ Geospatial Image Processing
- ✓ GIS
- ✓ GIS in Agriculture & Forestry
- ✓ GLONASS
- ✓ GMES
- ✓ GNSS
- ✓ GPS
- ✓ GSDI
- ✓ Hardware
- ✓ Hydrography
- ✓ Hyperspectral Imaging
- ✓ Image Analysis
- ✓ INSPIRE
- ✓ Integration
- ✓ Interoperability & Open Standards
- ✓ Land Information Systems
- ✓ Laser Scanning
- ✓ LBS
- ✓ LIDAR
- ✓ Mapping Software
- ✓ Marine Tracking & Navigation
- ✓ Mobile GIS/Mapping
- ✓ Municipal GIS
- ✓ Navigation
- ✓ Network Topology
- ✓ NSDI
- ✓ Open GIS
- ✓ Photogrammetric
- ✓ Photogrammetry
- ✓ Point Clouds
- ✓ Property Information Systems
- ✓ Radio Navigation
- ✓ Remote Sensing
- ✓ Risk Management
- ✓ RTK (Real Time Kinematic) Surveying
- ✓ Satellite Imagery/Navigation
- ✓ Scanning Technology
- ✓ SDI - Spatial Data Infrastructures
- ✓ Smart Grids
- ✓ Software
- ✓ Surveying Instrumentation
- ✓ Surveying Technology Sensor
- ✓ Telematics
- ✓ Topographic Mapping
- ✓ Total Station
- ✓ Tracking & Route Planning
- ✓ Transport
- ✓ Utilities GIS
- ✓ Vehicle Tracking & Navigation
- ✓ VRS - Virtual Reference Station
- ✓ Web Mapping

Sectors covered:

- ✓ Aerospace
- ✓ Agriculture
- ✓ Archaeology & Heritage
- ✓ Architecture
- ✓ Biosecurity
- ✓ Business Security/Service
- ✓ Central/Local/Regional Government
- ✓ Construction
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PROGRAMME SCHEDULE

MONDAY, 17 OCTOBER 2016

0800 - 0930 hrs	Breakfast Roundtable: APAC NMA s-Industry Exchange Forum <i>(By Invitation Only)</i>
Time (Hrs)	Manhattan I
0930 - 1000 hrs	Welcome Tea
1000 - 1130 hrs	Inaugural Session
1130 - 1200 hrs	Networking Tea/Coffee Break
1200 - 1330 hrs	Plenary: PPP Driving National Geospatial Platform for SDGs
1330 - 1430 hrs	Networking Lunch
1430 - 1600 hrs	Plenary: Innovation in National Development Projects
1600 - 1730 hrs	Exhibition Inauguration and Networking Tea/Coffee (Manhattan II & III)

TUESDAY, 18 OCTOBER 2016

Time (Hrs)	Bronx III	Manhattan VI + VII	Bronx V	Manhattan VIII	Manhattan V	Bronx VI
0930 - 1100 hrs	Smart Cities Adopting Sustainable Practices	Location Analytics Driving Business Intelligence Big data analytics for businesses	Agriculture & Plantation Keynote Session	Surveyors' Workshop Evolving User Needs	GeoIntelligence Asia Pacific Keynote Session	FARO Technology Track
1100 - 1230 hrs	Networking Tea/Coffee Break and Visit to Exhibition					
1230 - 1330 hrs	Networking Lunch					
1330 - 1500 hrs	Smart Cities Strategic City Planning & Smart Electricity	Location Analytics Driving Business Intelligence Integrated Emergency Support System: Automotive, telematics & road safety	Agriculture & Plantation Bringing Automation to the Field	Surveyors' Workshop Modern Survey Tools	GeoIntelligence Asia Pacific Border Security	Innovations in Space Technologies
1500 - 1600 hrs	Networking Tea/Coffee Break and Visit to Exhibition					
1600 - 1730 hrs	Smart Cities Smart Water Utility	Location Analytics Driving Business Intelligence Innovation in location data and analytics for society	Agriculture & Plantation Climate-Smart Farming		GeoIntelligence Asia Pacific Innovations in Disaster Response and Civil Defence	Innovations in Space Technologies

WEDNESDAY, 19 OCTOBER 2016

Time	Bronx III	Bronx V	Manhattan VIII	Bronx VI
0930 - 1100 hrs	Workshop on Space Applications in Smart Cities by ANGKASA	Innovative Governance for Social Change	Youth Forum Industry Trends & Directions	Disaster Management Keynote
1100 - 1230 hrs	Networking Tea/Coffee Break and Visit to Exhibition			
1230 - 1330 hrs	Networking Lunch			
1330 - 1500 hrs	Smart Construction – GeoBIM Smart Building & Infrastructure Design	Innovative Governance for Social Change	Youth Forum Students' Innovative Research	Disaster Management GI for Disaster Preparedness and Risk Reduction
1500 - 1600 hrs	Networking Tea/Coffee Break and Visit to Exhibition			
1600 - 1730 hrs	Smart Construction – GeoBIM Smart Construction		1500 - 1700 hrs National Geospatial Master Plan Industry Consultation <i>(By Invitation Only)</i>	Disaster Management GI for Disaster Preparedness and Risk Reduction