GEO SMART INDIA 2016

1-3, MARCH, 2016

FORMERLY INDIA GEOSPATIAL FORUM

GEO INTELLIGENCE ASIA 2016

2-3, MARCH, 2016

INDIA EXPO CENTRE AND MART, GREATER NOIDA



PRESENTED BY

GEOSPATIAL media + communications

www.geosmartindia.net

www.geointelligenceasia.org

WHY GEOSMART INDIA

As India realises the power of geospatial, Geosmart India aims to strengthen the movement and bring it to people who matter

CONFERENCE OBJECTIVES

- Policy Advocacy
- Demonstrate Tech Benefits across various sectors
- Connecting Communities
- Forging Collaborations
- Knowledge Exchange
- Capacity Building
- Networking
- Sharing of Best Practices and Ideas
- Hands-on Exposure to Latest Technologies
- Deliberations on Geospatial Technology Use
- Value Proposition of GIS for & Businesses
- Business Development

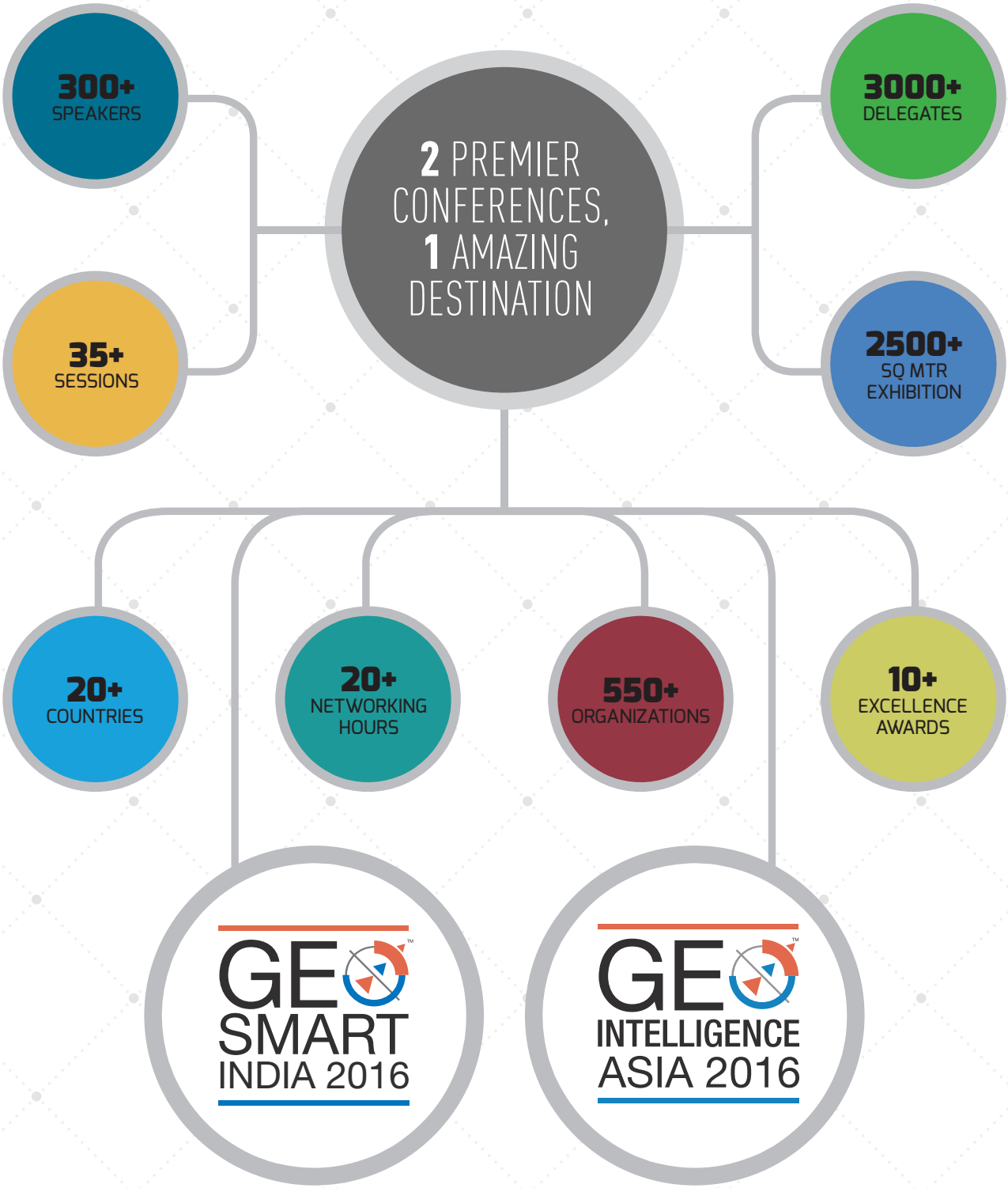
SECTOR-WISE PARTICIPATION

DEFENCE AND INTERNAL SECURITY	GOVERNANCE	INFORMATION TECHNOLOGY	PUBLIC WORKS
AGRICULTURE	INFRASTRUCTURE	MINING	UTILITIES
TRANSPORTATION	ENVIRONMENT	FORESTRY	WATER MANAGEMENT
URBAN PLANNING	HEALTH	LAND & REVENUE	CITIZEN SERVICES

PARTICIPANT PROFILE

Central & State Government Departments | Private Geospatial User Organizations | System Integrators
Remote Sensing Centres | Geospatial Technology Providers | Project Implementing Agencies
Entrepreneurs, Managers, CTOs, CEOs, Strategists | Mapping Agencies | Research Institutes

CONFERENCES AT A GLANCE...



WHY GEOSMART INDIA

Witness and learn how geospatial technology is making a difference to national development

GEOSPATIAL RESPONSE TO INDIA'S CHALLENGES

PROBLEM	SOLUTION
Urban population-growth 32%- by the year 2030, 590million people expected to live in Indian cities	GST and integrated solutions for smart sustainable cities and integrated townships
Only 105 litres of water supplied per capital per day as against the demand of 140 litres in urban India	Geospatial tech can aid in low cost and affordable water resources management system
India's agricultural yield per hectare- 48% of Asian countries, but 20 mt of grain loss due to bad warehouse facilities	GIS & a complete ecosystem of services for agriculture sector can make a big difference in improving the performance of the sector
India has the 5th largest power generation portfolio worldwide with a power generation capacity of 245 GW.-24% electricity lost in T&D	Geospatial network planning & management key to reduction of this loss
Natural disasters account for total losses of US$13.8 billion reported in the most recent six-year period	Spatial planning for disaster mitigation & management
Projected to be the 3rd largest aviation market by 2020	Geospatial can make value addition to Aviation Industry in big way for making it better & capitalize on its growth prospects

GEOSPATIAL DRIVING KEY PROJECTS

The **Digital India** vision areas has a specific focus on leveraging Geospatial Information Systems for decision support systems & development

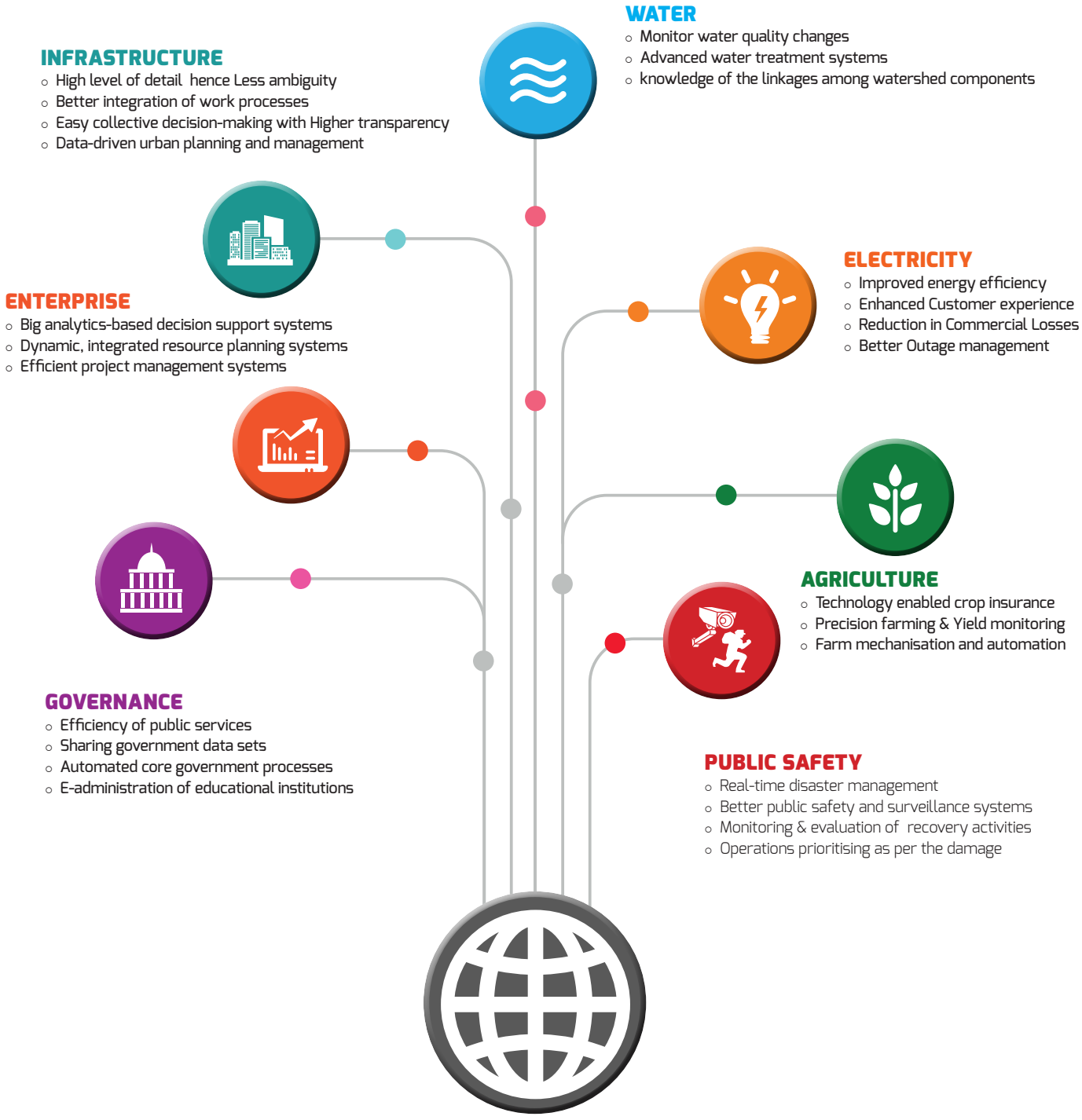
The **National Mission for clean Ganga** deals with extensive spatial data and analysis for the Ganga basin

Geospatial Technologies provide a holistic approach to **interlinking of rivers** based on existing geoinformatics tools and techniques

Delhi Mumbai Industrial Corridor Project is implementing Remote Sensing, GIS and ITES for perspective planning and nodal planning of the Corridor

National Afforestation Programme clearly mandates use of Remote Sensing & Geographic Information Systems for planning & subsequent project monitoring

VALUE PROPOSITION OF GEOSPATIAL TECHNOLOGIES



WATER
- Monitor water quality changes
- Advanced water treatment systems
- knowledge of the linkages among watershed components

INFRASTRUCTURE
- High level of detail hence Less ambiguity
- Better integration of work processes
- Easy collective decision-making with Higher transparency
- Data-driven urban planning and management

ELECTRICITY
- Improved energy efficiency
- Enhanced Customer experience
- Reduction in Commercial Losses
- Better Outage management

ENTERPRISE
- Big analytics-based decision support systems
- Dynamic, integrated resource planning systems
- Efficient project management systems

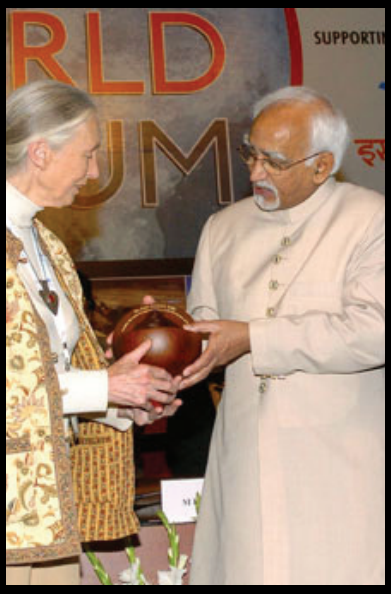
AGRICULTURE
- Technology enabled crop insurance
- Precision farming & Yield monitoring
- Farm mechanisation and automation

GOVERNANCE
- Efficiency of public services
- Sharing government data sets
- Automated core government processes
- E-administration of educational institutions

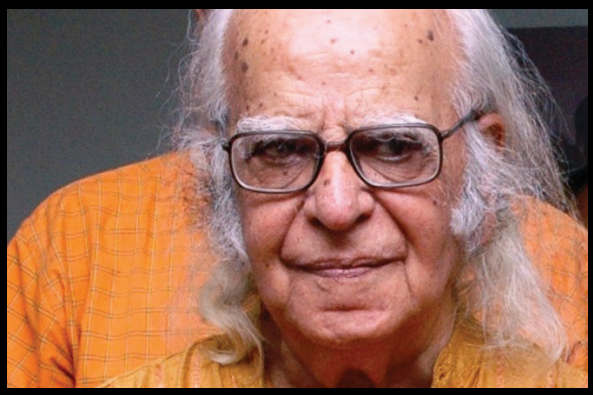
PUBLIC SAFETY
- Real-time disaster management
- Better public safety and surveillance systems
- Monitoring & evaluation of recovery activities
- Operations prioritising as per the damage

GEO SMART INDIA 2016

THOUGHT LEADERS SHAPING GEOSPATIAL TECHNOLOGY UPTAKE OVER THE YEARS





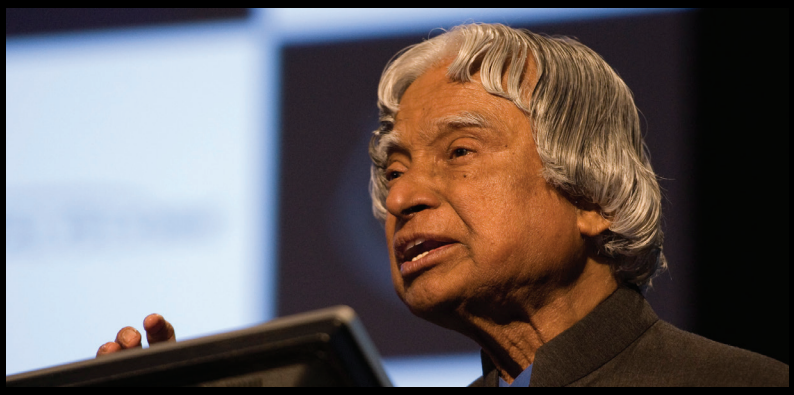







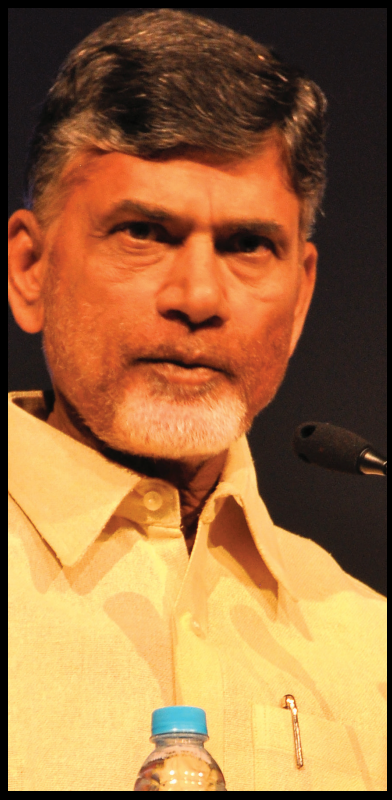
THOUGHT LEADERS SHAPING GEOSPATIAL TECHNOLOGY UPTAKE OVER THE YEARS

GEO SMART INDIA 2016










PROGRAMME







PLENARY SESSIONS

GEOSMART INFRASTRUCTURE

The fast growing and resilient Indian economy, with increasing urbanisation and population, is necessitating the need for sturdy physical infrastructure to sustain the growth and unlock India's growth potential. Recognising this, the government has put a firm priority on propelling this sector with significant investments across airports, roadways, waterways, railways, industrial corridors, ports etc. In addition to the political will and investments, it is necessary that enabling technologies are adopted to ensure that the infrastructure is planned and built accurately, on time and within budget. Geospatial technology including 3D laser scanning, building information modelling, mobile mapping, GPS reference stations and small UAVs can potentially play a stellar role in ensuring the same. The plenary session Geosmart Infrastructure will explore the advancements in geospatial technologies facilitating efficiencies across the entire lifecycle of infrastructure project management contributing to national development.

GEOSMART BUSINESS ENTERPRISES

Business enterprises are the backbone of the country's economy and industrial development, contributing to increased production opportunities, employment and improving social life. As such, it becomes pertinent that the business enterprises, both private and government, evolve to new work methods to enhance their processes, workflows, efficiencies and services. This plenary session shall witness case studies on successful implementation of geospatial technologies in business enterprises across varied domains. The session will also have industry presentation on the latest technology applicable for business enterprises.

BEST PRACTICES IN APPLICATIONS

SMART CITIES & INFRASTRUCTURE

Strategic Sponsor

ROLTA

— With the theme – "GeoSmart Infrastructure: 'Tech-Empowering' India's Smart Cities Dream", this programme will trace the importance of various aspects of infrastructure that needs to be planned, designed, built and operated in order to provide the 'Smart' attribute to a city development.

— The session will feature the designated heads of municipalities, urban/city planning, research/academic institutes, builders, engineers/consultants, energy and utility experts, mobility and transportation experts, technology providers, and many more.

— The session will facilitate brainstorming on the opportunities, challenges and scope for developing a truly smart city infrastructure, encompassing the current situations pertaining to policy guidelines, regulatory norms, implementation challenges, etc., highlighting the importance of integrating ICT and Geospatial Technologies to support the Smart Cities mission in India.

— Focus areas: Smart Construction - Planning and Design; Smart Construction – Build; Smart Construction – Operation and Maintenance; Smart - Energy, Water and Waste Management; Smart Transport; Smart Technologies for Smarter Cities.

FORESTRY

Focus areas:

— Role and potential of geospatial technology (GIS, remote sensing, and GPS) in forest resources assessment, monitoring and management in cost effective and efficient way.

— Geospatial technology in programmes like National Forest Mapping; National Afforestation Programme; Community forest management; Bio-diversity conservation; CAMPA; Computerisation of forest departments; Usage of forest land for non-forestry purposes; forest inventory; assessment of tree cover; mitigating climate change impacts.

PROGRAMME

BEST PRACTICES IN APPLICATIONS

Water resources

— Geoinformation on parameters such as rainfall, availability of surface water resources, groundwater resources, landuse-land cover maps, elevations, slopes, land surface temperatures, evapo-transpiration, Biomass etc.

— Geospatial in research, modelling, simulation, and engineering of projects such as National Water Policy; River Linking Project; National Mission for Clean Ganga / Ganga Rejuvanation; Ground water modelling; Hydrological data management; state water projects

Mining

— Geospatial technology for maximising productivity and minimising losses in mining

— Focus on geospatial in Mines and Minerals Development & Regulation (Amendment) Act 2015

GEOSPATIAL FOR:

— Reconnaissance operations / prospecting operations

— E-auctions

— Improvement in procedure for grant of mineral concessions and to ensure co-ordination among agencies entrusted with according statutory clearances

— Maintenance of internet-based databases including development and operation of a mining tenement system;

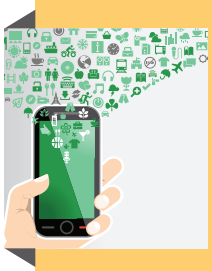
— Minimising and mitigating adverse environmental impacts

— Promoting restoration and reclamation activities

Transportation

— Focus on use of technologies such as GIS, data sensors, GPS, surveying, RFID, satellite imagery, location data can fortify the various means of transportation with benefits such as:

— Improved, sufficient and convenient transport services
— Asset management
— Fleet management
— Geospatial for building, planning, operation, maintenance of transport infrastructure
— Assuring safe movement of resources
— Addressing safety concerns
— Addressing environmental concerns
— Higher levels of workforce productivity
— Proactive maintenance of transport networks.
— Geospatial for navigation
— Traffic information collection and management for reliable and efficient transport
— Focus areas: Road transport, railways, aviation, inland waterways, logistics & fleet management



GEO-INFORMATICS FOR DIGITAL INDIA

— Geomatics plays a key role in providing technology for planning and GIS based decision making and is an integral part of Digital India programme. Geospatial technology will continue to be central in facilitating development and enabling change; it will be essential that all geospatial and GIS applications are integrated and offered on a single platform.

— The seminar will demonstrate the critical role of geospatial as it provides content and context for Digital India, as well the requisites for establishing a sturdy geospatial infrastructure for successfully implementing the Digital India programme.

PROGRAMME

BEST PRACTICES IN APPLICATIONS

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Knowledge partner

We till Concept till Harvest

AGRICULTURE

— The benefits from Traditional Farming to Knowledge based Agriculture: The linkages with sustainability, food security and climate change impacts.

— Weather information representation, analysis and application for agriculture/Climate

— Smart Agriculture

— Innovative tools for irrigation management at farm level

— Leveraging Institutional Innovations for Agricultural Development

— Use of ICT- Web-based Agro advisories for Rural Development

— Automated systems and robotics for crop production in precision agriculture

— Public-Private Partnerships in the area of ICT and automation in agriculture

— Way forward in space technology for Sustainable Agriculture

— GIS for Agriculture Marketing Infrastructure/Multilayer GIS Approach for Agriculture Markets

— Agricultural Policy in the Context of New Economic Policy in India

ELECTRICITY

Knowledge partner

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— Geospatial technologies & solutions for electric utilities

— Solutions for visualization

— Solutions for data creation, inspection etc.

— Smart grids and the contribution of geospatial technologies

— Overview of smart grid programmes/ project implementations around the world, key learnings and experiences

— Latest developments, technologies and solutions for loss reduction & efficiency improvements

— Different aspects of smart grids including Advanced/ Smart metering, IT & Communication, Analytics, Network Automation, Demand Response, Peak Load/ Power Quality Management, Distributed generation/ Integration etc.

— Role of geospatial technologies in smart grids.



PROGRAMME







COLLABORATIVE PLATFORMS

SOUTH ASIA GEOSPATIAL FORUM

— Leveraging Geospatial Technology for sustainable development of South Asia region bringing together NMO heads, geospatial users, technology providers and other key stake-holders.

— Deliberating reform of spatial policies& action plan to empower the region.

— Harnessing geospatial technology for infrastructure development by optimal sharing of available resources and enhanced cooperation in technology transfer, standardization and capacity development.

BREAKFAST PANEL: GEOSPATIAL & YOU

— The panel will delve into the various innovative and integrative systems supported by geospatial technologies enabling better, efficient and informed decisions.

— The panellist will share their thoughts on the broad understanding of larger geospatial industry eco-system, technology directions and its applicability.

CIO FORUM

— A platform for dialogue and exchanges between enterprise-level geospatial technology adapter companies comprising of both the private as well as the public sector;

— Highlight the integration of geospatial with information technology initiatives that could help decision making, planning, implementation and execution of sustainable growth for organizations;

— Creating geospatial awareness and future collaboration opportunities among the tech-nology users segment within the region;

— Discussion on the merits of aligning geospatial at the enterprise level for informed decision making and substantial cost saving.

Education & Professional Development

YOUTH FORUM

— Opportunities to young minds comprising of young and budding geospatial professionals, researchers and entrepreneurs to showcase their abilities through their research papers, product/ application development etc.

— To witness the paper, product presentations and various latest geo-enabled applications demon-stration from enthusiastic youth

— 'UNIGIS Award for Best Presentation at Geospatial Youth Forum 2016' carries cash prize of INR 10000/- and a Certificate.

DEVELOPERS' FORUM

— Opportunity for developers (geospatial and non-geospatial) to learn more about technologies to create location-based applications

— Platform for developers to showcase their location-based innovative apps and interact with technology experts and like-minded developers

— Discussion on opportunities and challenges

PROGRAMME

TECHNOLOGY TRENDS

BIGDATA

— Management of big data: the need for effective organization and distribution

— Big data analytics

— User case studies: How organisations are using Big Data to solve various challenges

MOBILE & CLOUD

— Geospatial data management including real-time reporting in a mobile environment

— Integrating mobile and analytics into the cloud for geospatial data management

— Demonstration of the benefits of mobile and cloud geospatial computing by organisations

WEB GIS

— The criteria for successful Web GIS implementation

— Its implementation by government in delivering services a

— Emerging technology trends in Web GIS.

ENTERPRISE GIS

— Increasing overall operating efficiency of an organisation using GIS

— Establishing an enabling framework for enterprise GIS implementation

— More timely access to better information through enterprise GIS

— Improving capabilities of other enterprise systems by leveraging the value of geographic information

3D MODELLING

— Innovations in 3D visualisation

— Emerging applications for 3D modelling

— Convergence with other technologies

SENSORS

— Technological advancements in sensors

— Exploring the growing importance and applications of sensors in monitoring and management of various industries

— Expert views and case studies on sensors and its related challenges

UAV

— Technological advances in UAVs

— UAV benefits

— Geospatial solutions made possible with UAVS

— Emerging applications with UAVs

LIDAR

— Technology advancements in geospatial data collection with LiDAR

— Applications of LiDAR in various sectors

— Experts views and case studies

INTERNET OF THINGS

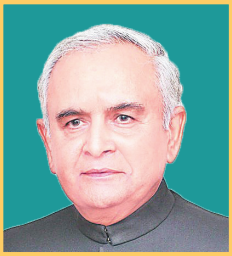
— Role of location in tracking and controlling the network of physical objects sensed and controlled remotely across existing network infrastructure

— Business opportunities

— The convergence of geospatial information with other information

— The benefits and applications

EMINENT SPEAKERS



LT GEN NIRBHAY SHARMA PVSM, UYSM, AVSM, VSM
Hon'ble Governor of Mizoram



SURESH PRABHU
Union Minister of Railways



GENERAL VK SINGH
PVSM, AVSM, YSM,ADC
MoS of External Affairs & MoS (independent charge) for North East Region



KK SINGH
Founder Chairman & CEO
Rolta India



STEVE BERGLUND
Chief Executive Officer
Trimble, USA



RS SHARMA
Chairman, Telecom Regulatory Authority of India*



MLADEN STOJIC
President, Hexagon Geospatial, USA



DR BVR MOHAN REDDY
Founder & Managing Director
Cyient & Chairman NASSCOM



GREG BENTLEY
Chief Executive Officer
Bentley Systems USA



ADIL ZAINUL BHAI
Independent Director - Larsen & Toubro and Reliance



DR PREM C JAIN
Chairman, AECOM India



HYUNE HAND
Executive Vice President
DigitalGlobe

WHY GEOSMART INDIA

Thought-Leaders, Trend-Setters, Insight-Creators, Game-Changers and Industry- Influencers. These are the people you need to meet.

BREAKFAST PANEL: THEME: GEOSPATIAL & YOU



MARK REICHARDT

President and CEO
Open Geospatial Consortium, Inc. (OGC)



BARBARA RYAN

Secretariat
Director Group on Earth Observations
Switzerland



SANDEEP SINGHAL



MANISH CHOUDHARY

Managing Director, Pitney Bowes Software (India) and Vice President Product Development for Pitney Bowes World Wide Engineering



KUMAR NAVULUR

Director, Next Generation Products, DigitalGlobe



ED PARSONS

Geospatial Technologist
Google Inc, USA



MILIND DESHPANDE

GIS & Network Engineer Reliance Jio Infocomm Ltd.*



SUNIL KUMAR

Co-Founder, xAd, Inc



ROHAN VERMA

Director, MapMyIndia

DATA PROVIDERS: DATA PRODUCTS AND SERVICES



R M TRIPATHI

Surveyor General
Survey of India



MADHU SUDAN ADHIKARI

Director General
Survey Dept of Nepal



DASHO PEMA CHEWANG

Secretary, National Land Commission
Royal Government of Bhutan



BRIGADIER GENERAL MD ABUL KHAIR

Surveyor General and Head - Survey of Bangladesh



DR ANMOL KUMAR

Director General
Forest Survey of India



DR BHOOP SINGH

Advisor – Department of Science & Technology and Director - NATMO



DR N APARNA

Group Head - NDC
National Remote Sensing Centre



ROB VAN DE VELDE

Director, Geonovum
The Netherlands



SRINIBAS PATNAIK

Senior Director - Business Development, SAARC Region, DigitalGlobe



DR. G.P. OBI REDDY

Principal Scientist-Division of Remote Sensing Applications, National Bureau of Soil Survey and Land Use Planning



DR VS ARYA

Chief Soil Survey Officer, Soil and Land Use Survey of India



FRANCOIS ROBIDA

Deputy head of division information systems & technologies division, bureau de recherches géologiques et minières, france

SERVICES & CUSTOMIZATION



VISHNU CHANDRA

Deputy Director General & Group Head – Remote Sensing & GIS
National Informatics Centre



PROF PK VERMA

Director, MP Council of Science & Technology



DR B PATERIYA

Director
Punjab Remote Sensing Centre



DR RS HOODA

Chief Scientist, Haryana Remote Sensing Centre



DR SANDEEP TRIPATHI

Chief Executive Officer
Orissa Remote Sensing Centre



DR PLN RAJU

Director, NE Space Applications Centre



MAJ GEN (DR) R SIVA KUMAR

President
Geospatial Solutions
IIC Technologies



MARK FREEBURN

Chief Executive Officer
AAM Pty Ltd



DR. ANIRUDH ROY

Sr. Vice President & CTO
Genesys International

WHY GEOSMART INDIA

Thought-Leaders, Trend-Setters, Insight-Creators, Game-Changers and Industry- Influencers. These are the people you need to meet.

HARDWARE AND SOLUTIONS PROVIDERS



CHRIS GIBSON
Vice President
Trimble, USA



ATANU PATNAIK
Managing Director
South Asia, Bentley Systems



RAJESH KALRA
Managing Director
India, Atkins



RAJAN AIYER
Managing Director
Trimble Navigation India



BENG CHIEH QUAH
Director, Faro Asia Pacific



RAJESH ALLA
Chairman and
Managing Director
IIC Technologies



ATANU SINHA
Director, India & SAARC
Hexagon Geospatial



ABHAY KHIMATKAR
Director
ADCC Infocad Limited



WILLY GOVENDER
Group CEO
Dataworld, South Africa



AJAY PRADHAN
Director
CH2M



POH FATT MAK
Business Line Manager
Faro Singapore Pte Ltd



PRASAD BABU
Co-Founder & CEO
Geo Climate Risk Solutions



RAGHU GANESHAN
President, Avineon India



GAUTAM BANDOPADHYAY
Director
MeaTech Solutions LLP

TECHNOLOGY CONSUMERS



DU VYAS
General Manager
(Geo & Tech.) Gujarat
Mineral Development
Corporation Ltd



SS MATHUR
GM - Corporate
Coordination, Centre for
Railway Information
Systems, Indian Railways



MANISH BHATT
CIO, Orange County
property Appraisers
Office, USA



DR. HANISH KUMAR SINHA
National Bulk Handling
Corporation Ltd



NARENDRA KAVDIA
Consultant and
Ex Associate
Vice President -
Exploration
Hindustan Zinc Limited



PRADEEP JENA
Principal Secretary
Water Resources Dept
Odisha*



SK SINHA
Technical Advisor, Central
Ground Water Board



BRIGADIER GENERAL MD SYEED ANWARUL ISLAM
Chief Engineer, Dhaka
North City Corporation



JUGAL. MAKWANA
BIM Director
Asia Pacific, AECOM



BIRENDRA BAJRACHARYA
GIS Specialist
ICIMOD, Nepal



PRADNYA MATHUR
Consultant



KUSHAL KUMAR
Commissioner
Biharsharif Municipal
Corporation



GORA MBOUP
President & CEO,
Global Observatory
linking Research to Action
(GORA)



DR. C.G. BETSURMATH
Commissioner
Mysore City Corporation*



MANOJ RAWAT
Head-Agribusiness
RBL Bank Ltd.



HARISINGH RATHORE
Commissioner, Jodhpur
Municipal Corporation

JANARDHAN SHARMA
Commisioner
Municipal Council Pali



ANAND KUMAR S V
Assistant Vice
President - IT
Reliance Energy Limited



DR. B. KANAGA DURAI
Chief Scientist & Head,
PME Division, CSIR-Central
Road Research Institute



ABDUL RAHMAN ILYAS
Agribusiness &
Development Expert

ANURAG SRIVASTAVA
APCCF-IT, MP Forest

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ACADEMIA AND RESEARCH



DR A SENTHIL KUMAR

Director – Indian Institute of Remote Sensing



UMA SHAMA

Professor of Mathematics & Computer Science
Co-Director of GeoGraphics Laboratory Bridgewater State University, USA



PROF. MANORANJAN PARIDA

MoRTH Chair professor and Dean SRIC, IIT Roorkee



PROF AK GOSAIN

Dept of Civil Engineering, IIT Delhi



DR. G. DILEEP KUMAR

Global Program Leader
Iowa State University, USA



DR. SHAHNAWAZ

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



PROF. DR. M.MONI

Chairman
Centre for Agricultural Informatics & e-Governance Research Studies



PROF AMITABH KUNDU

Senior Fellow
Delhi Policy Group
& Visiting Professor
Institute for Human Development India



DR. BHAGWAN SINGH CHAUDHARY

Registrar, Ch. Bansilal University



DR. HEMA YADAV

Dy Director
National Institute of Agricultural Marketing

BIKASH RANJAN PARIDA

Assistant Professor
Shiv Nadar University



PROF. MILAP PUNIA

Professor, Social Sciences, JawaharLal Nehru University
New Delhi

CONCURRENT CONFERENCE



GEO INTELLIGENCE ASIA 2016




This year the conference will be held concurrent with India's biggest geospatial event GeoSmart India 2016 and will share common facilities such as exhibition, which will offer adequate opportunity for information sharing, networking and understanding the importance of geoint in various other domains along with ample time for networking.

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CONCURRENT CONFERENCE





GEO INTELLIGENCE ASIA 2016

INTRODUCTION

Asia accounts for 30 percent of the earth's landmass and is home to nearly 60 percent of the world's population, with China and India being the two most populous countries of the world, accounting for 37 percent. The continent is the fastest growing economic region and the largest continental economy by GDP PPP. A prerequisite for economic sustainability is comprehensive security, to include food, water, energy and the ability to defend its sea, air and land assets. Geointelligence is an extremely potent tool for defence and internal security. GeoIntelligence Asia 2016 will be dedicated to the highest level of geospatial knowledge exchange and networking within the Asian defence and security sector. It will focus on the perspectives and requirements of the decision makers who directly influence national security policy and procedures. The conference aims to bring together some of the most influential speakers and delegates in the geospatial technology domain from the Asian and international defence and security establishment and industry. The aim is not only to provide a platform which will benefit defence agencies but also informal exchange of dialogue and cooperation in this region to maximise uptake of geospatial information and technology for enhanced security.

THEME: GEOSPATIAL FOR MODERN WARFARE

Modern battlefield, apart from land, sea and air, includes space and cyberspace. This battlespace is characterised by integrated information management. The battlefield and the mission are constantly changing and therefore it is crucial that warfighters have relevant geospatial data that can be rapidly configured to meet the ever-changing information needs. There is probably no greater weapon than accurate information in the form of GeoIntelligence. Rapid advancements in geospatial data collection, processing and analysis make geointelligence a prerequisite in modern warfare. Apart from defence and combat operations, it has wider applications in crime mitigation, internal, border, maritime security and emergency response.

PLENARY SESSION 1: SPACE & CYBERSPACE: THE FINAL FRONTIERS



Space and cyberspace, are the two new dimensions of modern warfare. As the new frontier after land, water and air, space has its own set of security concerns. This requires developing and deploying assets in space for providing early warning, communications, command and control, position navigation and timing and monitoring remote sensing, and national technical means; and aimed at enhancing military command, control and communications, strategic and battlefield surveillance and weapons targeting. As the all-pervasive virtual terrain, cyberspace presents its own set of opportunities and challenges. Computerised and networked defence systems make the battlefield digital in nature and entail the need to protect the associated cyberspace. The session will explore the dynamics of geointelligence in context of both the 'spaces'.

PLENARY 2: GIS-ENABLED DIGITAL BATTLEFIELD



The ability to strike first, strike deep and strike effectively is of paramount importance for gaining success in operations of war. The manifestation of this ability in a battlefield requires not only firepower in terms of lethal and long-range weapon system but also an effective command and control system, which is essential for accurate and timely application of firepower. The ability of GIS to present data in a graphic form, which is a convenient and effective means of communicating complex information, makes it the critical component of decision support system in modern battlefield. This plenary session will explore the GIS advancements and benefits for the digital battlefield.

TECHNICAL SESSIONS



MARITIME AND COASTAL SECURITY:

The task of ensuring maritime & coastal Security in India and Asia has undergone a significant change over the last decade or so. Economy is dependent to a large extent. Regional maritime cooperation and understanding the need for maritime & coastal security enhanced with GeoIntelligence capacities and inventorial assets is of pivotal importance. The session will focus on the geointelligence perspect.



INTERNAL SECURITY AND EMERGENCY RESPONSE

Ensuring safety of its citizens, tackling naxalism and protecting critical infrastructure like airports, railways, roads etc are some of the major challenges before security agencies in the country. Strengthening response systems in face of disasters both natural and manmade is another area of attention. This session will look at various national modernisation programmes to strengthen internal security machinery as well as the development of emergency response systems based on location information.



GEOINTELLIGENCE ENABLERS / EMERGING TECHNOLOGIES

Geospatial technology is finding applications in practically every field of human activity, in areas like robotics, unmanned systems, 3D printing, big data analytics, human terrain analysis, etc. A plethora of hi-tech sensors are making online, on-demand information a reality. Maps are being developed as applications to ensure mobile availability of geospatial information to soldiers. The session will see experts discuss emerging geospatial technology trends and solutions.

SPEAKERS

FIELD MARSHALL MANEKSHAW MEMORIAL LECTURE



Lt Gen Nirbhay Sharma PVSM, UYSM, AVSM, VSM
Hon'ble Governor of Mizoram

CHIEF GUEST



Lt Gen MMS Rai AVSM,VSM
Vice Chief of Army Staff

Program Chair



Lt Gen A K S Chandele, PVSM, AVSM
President – Defence, Internal Security & Public Safety



Dr Satheesh Reddy
Scientific Advisor to Raksha Mantri



Dr S Pal
Vice Chancellor - Defence Institute of Armament Technology



Lt Gen Nitin Kohli AVSM, VSM
Signal Officer-in-Chief
Indian Army



Lt Gen J S Matharu VSM
Director General of Information System
Indian Army



Lt Gen Sanjiv Talwar AVSM
Engineer-in-Chief,
Indian Army



Lt Gen GS Chandel YSM
Director General
Rashtriya Rifles
Indian Army



Kshemendra Paul
Program Manager Information Sharing Environment (PM-ISE), USA*



Lt Gen NC Marwah PVSM AVSM (Retd)
Member
NDMA



VAdm AG Thapliyal
AVSM*
Ex-DG Coast Guard



Maj Gen Girish Kumar
Commandant
CAMS



Lt Gen Rajesh Pant PVSM, AVSM, VSM (Retd)



Mr. Vipin Tyagi
Executive Director
CDOT



Air Vice Marshal PK Srivastava
Larsen & Toubro



Maj Gen L B Chand VSM
ADG Sigs



RAdm S Kulshrestha (Retd)

GEOSMART INDIA AWARDS

The geospatial industry has been evolving and maturing as one of the mainstream business having its own identity in world economy. Undoubtedly, this has been possible only by innovations and excellence brought forward by geospatial technology developers, professionals, end users and policy makers. In order to recognize and encourage such efforts, Geospatial Media and Communications has been conferring awards and recognitions for exemplary innovations and practices in the geospatial industry. India Geosmart Awards will be conferred on the occasion of GeoSmart India 2016.

GUEST OF HONOUR



GENERAL VK SINGH
PVSM, AVSM, YSM,ADC

MoS of External Affairs & MoS
(independent charge) for North East Region

Awards will be given in the following categories

GEOSPATIAL APPLICATION EXCELLENCE AWARDS

For exemplary usage of geospatial tools in various fields (Governance, Infrastructure, Public safety, Emergency response, Utilities, Design and Engineering, Environment, Agriculture, Mineral Exploration, Transportation, Business Intelligence, Insurance, Disaster Management, Smart Cities, Land information, Forestry, Water resource management.)

GEOSPATIAL TECHNOLOGY INNOVATION AWARDS

For innovations and developments in geospatial technology e.g. Remote Sensing, Photogrammetry, LiDAR, 3D Modelling, Cartography, Web GIS, Mobile mapping, Enterprise GIS, Topographic surveying instruments, GIS ready imagery, laser scanning, etc.

GEOSPATIAL POLICY IMPLEMENTATION AWARDS

Policy makers and implementers whose work directly impacts in development of geospatial science, technology and business may submit their nominations for this category.



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ISG

ORGANISER

GEOSPATIAL media + communications

CONTACT

GENERAL INFORMATION
Amit Roshan
+91-9650670707
info@indiageospatialforum.org

PAPERS AND AWARDS
Deepali Roy
+91 9811360397
papers@geosmartindia.net

REGISTRATION
Mohit Saxena
+91-9711724717
registration@geosmartindia.net

EXHIBITION & SPONSORSHIP
Wasim Akhtar
+91-9711887797
exhibition@geosmartindia.net

Geosmart India 2016 Secretariat, Geospatial Media and Communications (Pvt) Ltd
A-145, Sector - 63, Noida (U.P.) - 201301, India, Tel: +91-120-4612500 / Fax: +91-120-4612555 / +91-120-4612666