

GE SMART INDIA 2016

1 - 3, MARCH, 2016

FORMERLY INDIA GEOSPATIAL FORUM

GE INTELLIGENCE ASIA 2016

2 - 3, MARCH, 2016

INDIA EXPO CENTRE AND MART, GREATER NOIDA



PRESENTED BY



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 government & Businesses	 Business Development

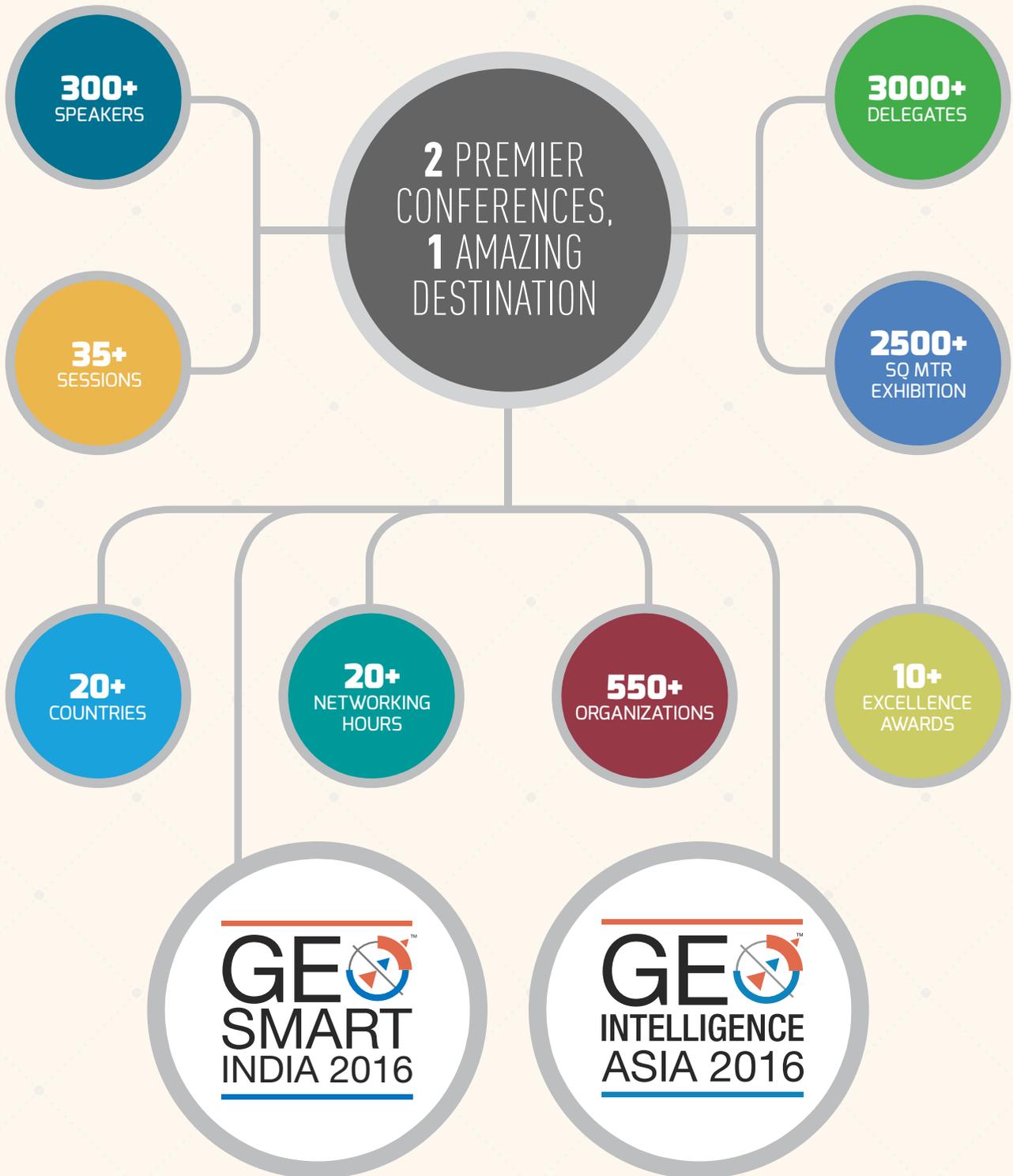
SECTOR-WISE PARTICIPATION

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...



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

<p>The Digital India vision areas has a specific focus on leveraging Geospatial Information Systems for decision support systems & development</p>	<p>The National Mission for clean Ganga deals with extensive spatial data and analysis for the Ganga basin</p>	<p>Geospatial Technologies provide a holistic approach to interlinking of rivers based on existing geoinformatics tools and techniques</p>	<p>Delhi Mumbai Industrial Corridor Project is implementing Remote Sensing, GIS and ITES for perspective planning and nodal planning of the Corridor</p>	<p>National Afforestation Programme clearly mandates use of Remote Sensing & Geographic Information Systems for planning & subsequent project monitoring</p>

VALUE PROPOSITION OF GEOSPATIAL TECHNOLOGIES

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

ENTERPRISE

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

GOVERNANCE

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

WATER

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

ELECTRICITY

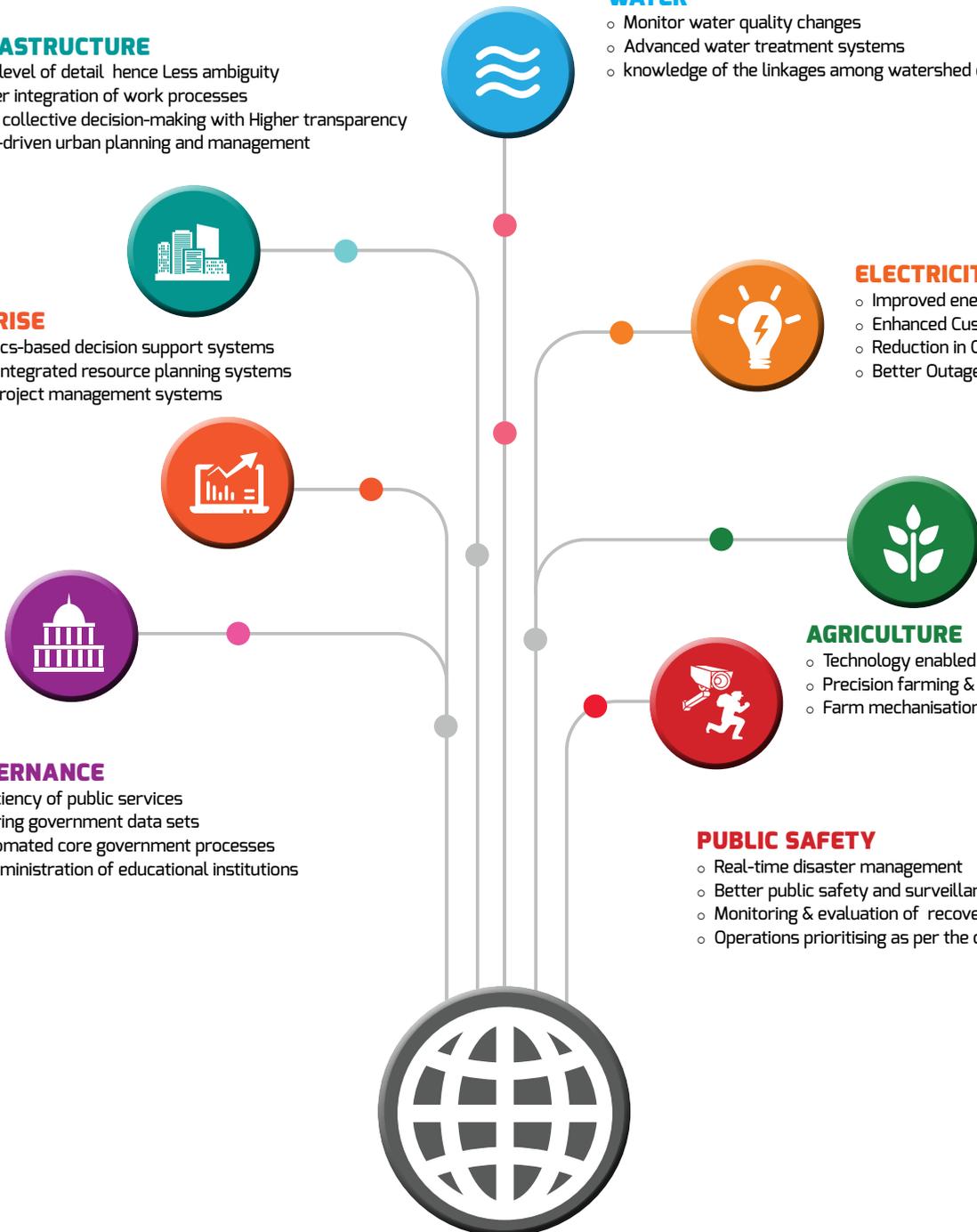
- Improved energy efficiency
- Enhanced Customer experience
- Reduction in Commercial Losses
- Better Outage management

AGRICULTURE

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

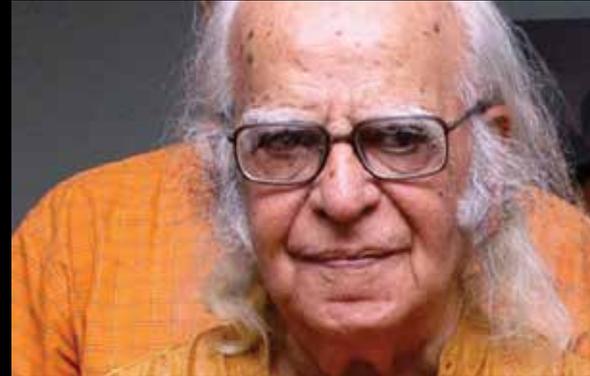
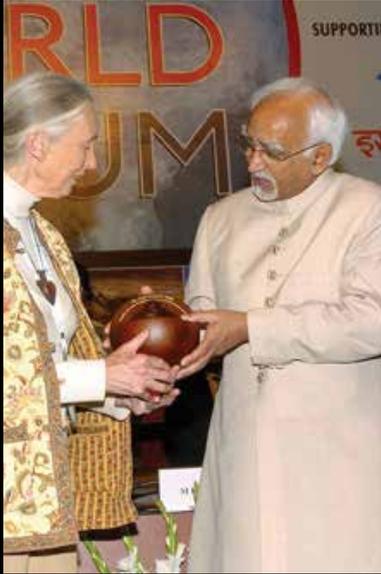
PUBLIC SAFETY

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

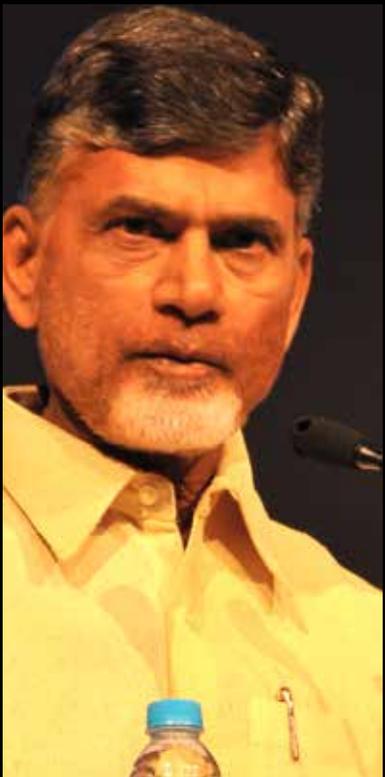
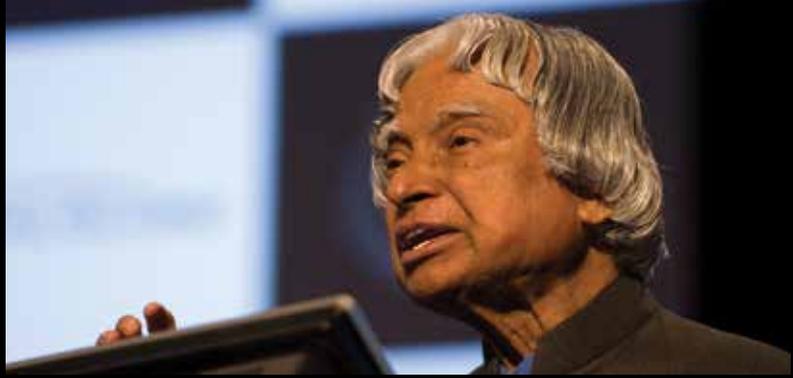




THOUGHT LEADERS SHAPING GEOSPATIAL TECHNOLOGY UPTAKE OVER THE YEARS



THOUGHT LEADERS SHAPING GEOSPATIAL TECHNOLOGY UPTAKE OVER THE YEARS



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 ENTERPRISES

Enterprises are the backbone of the country's economy and industrial development. As such, it becomes pertinent that the enterprises, both private and government, evolve new work methods to enhance their processes, workflows and efficiencies and productivity. This plenary session shall witness geospatial platforms for enterprises across varied functions.

GEOSPATIAL IN PRACTICE

■ SMART CITIES & INFRASTRUCTURE

— 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; Build; 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.

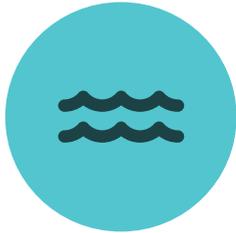
— Geospatial technology in programmes like National Forest Mapping; National Afforestation Programme; Community forest management; Bio-diversity conservation; CAMPA; Computerisation of forest departments; Usage of forest land for non-forestry purposes; forest inventory; assessment of tree cover; mitigating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

Strategic Sponsor Symposium Sponsor



PROGRAMME

GEOSPATIAL IN PRACTICE



■ 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 Rejuvenation; 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

■ Climate Change

Focus areas:

- Weather monitoring, analysis and planning
- Crowdsourcing-based weather alert applications
- Geospatial for atmospheric data modelling, biodiversity data modelling, carbon footprint data modelling, marine data modelling
- Use of geospatial technology in climate change missions

Government Partner



Ministry of Earth Sciences
Government of India



■ 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.

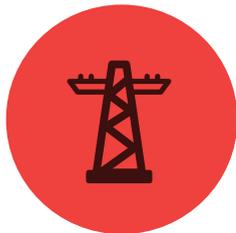
— The seminar will demonstrate the critical role of geospatial as it provides content and context for Digital India, as well the requisites for establishing a sturdy geospatial infrastructure for successfully implementing the Digital India programme.

Government Partner



Department of Electronics &
Information Technology
Government of India

PROGRAMME



GEOSPATIAL IN PRACTICE

■ 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
- 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

- Geospatial technologies & solutions for electric utilities; solutions for visualization
- Solutions for data creation, inspection etc.
- 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.

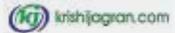
LAND MANAGEMENT

- Highlight role of ICT and geospatial technologies for achieving DI-LRMP objectives
- Help connect DI-LRMP programme objectives with initiatives including Make in India and Digital India
- Identify avenues of improvement for digitally enhancing land administration
- Identify solutions for digitalization of land records and connecting them to registration with modern ICT and g-tech

Symposium Sponsor



Media Partners



Knowledge partners



Knowledge partner



Government Partner

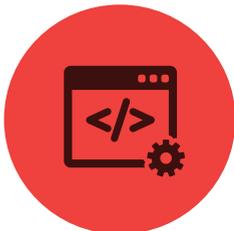


Department of Land Resources
Government of India



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 stakeholders.
- 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.

■ INTERACTIVE 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;
- Discussion on the merits of aligning geospatial at the enterprise level for informed decision making and substantial cost saving.

Programme Partner



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

Knowledge Partner



■ 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 INNOVATIONS



ADVANCED MAPS FOR INSTANTLY SMARTER INDIA

- This seminar will highlight how Advanced Maps are a ready-to-use asset for governments and enterprises, enabling them to go 'Smart' instantly, rather than wait indefinitely and re-building already available infrastructure from scratch. With Advanced Maps, cities, governments and enterprises can benefit from detailed building level maps, with rich set of accurate and comprehensive layers of geospatial information which can power a whole host of smart city applications.
- The seminar will also feature the RealView panoramic technology platform, which proves photo-realistic clarity about each and every part of the Smart City sitting anywhere. Decision makers will come away from the seminar well-informed on ready-to-use assets including comprehensive map data, map APIs, tracking systems, navigation systems, RealView as well as a whole host of Smart City applications enabling them to meet and deliver on the promise of Smart Cities.

Programme Co-organiser

MapmyIndia



BIG DATA

- 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



ENTERPRISE & WEB 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



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

SPEAKERS

OPENING SESSION



SURESH PRABHU

Union Minister of
Railways



AS KIRAN KUMAR

Chairman
Indian Space
Research
Organisation



KK SINGH

Founder Chairman
& CEO
Rolta India



**DR BVR MOHAN
REDDY**

Chairman
NASSCOM; Founder
& Managing Director
Cyient

PLENARY SESSION 1: GEOSMART INFRASTRUCTURE



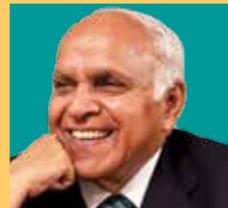
ADIL ZAINUL BHAI

Board Member
L&T and Reliance



STEVE BERGLUND

Chief Executive
Officer
Trimble
USA



PREM JAIN

Chairman
AECOM India



GREG BENTLEY

Chief Executive
Officer
Bentley Systems
USA

PLENARY SESSION 2: GEOSMART ENTERPRISES



MLADEN STOJIC

President
Hexagon Geospatial
USA



HYUNE HAND

Senior Vice President
DigitalGlobe
USA



DR AJAY KUMAR

Additional Secretary
& DG – NIC, Depart-
ment of Electronics
and Information
Technology



BENG CHIEH QUAH

Director
FARO Asia Pacific
Singapore

MEET THE SPEAKERS

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

INTERACTIVE PANEL: THEME: GEOSPATIAL & YOU



**MANISH
CHOUDHARY**

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



SAJID MALIK

CEO
Genesys International



ED PARSONS

Geospatial Technologist
Google Inc
USA



MILIND DESHPANDE

GIS & Network Engineer
Reliance Jio Infocomm
Ltd.*



SUNIL KUMAR

Co-Founder
xAd, Inc
USA



ROHAN VERMA

Director
MapMyIndia



BARBARA RYAN

Secretariat Director
Group on Earth
Observations
Switzerland



MARK REICHARDT

President and CEO
Open Geospatial
Consortium Inc.

WATER RESOURCES



PRADIP JENA

Principal Secretary
Water Resources Dept
Odisha



PROF AK GOSAIN

Department of Civil
Engineering,
Indian Institute of
Technology Delhi



JOGINDER SINGH

Advisor
National Water Mission



SK SINHA

Scientist-D
Central Ground Water
Board



DP MATHURIA

Director
Central Water
Commission



AIDAN MERCER

Sr. Industry Marketing
Manager, Government &
Water Utilities
Bentley Systems
UK

GEOSMART INFRASTRUCTURE & CITIES



RK SRIVASTAVA

Chairman, Airports Authority of India



CHRIS GIBSON

Vice President, Trimble



PRATAP PADODE

Founder & Director, Smart Cities Council India



JUGAL MAKWANA

BIM Director, Asia Pacific AECOM



RAJESH KALRA

Managing Director – India Atkins



FUMIO NOHARA

President, Nikken Sekkei Research Institute, Japan



AJAY PRADHAN

Director, CH2M



ATANU PATNAIK

Vice President Bentley Systems India



ABHAY KIMMATKAR

Jt Managing Director ADCC Infocad



WILLY GOVENDER

CEO, Dataworld South Africa



ROB VAN DE VELDE

Director, Geonovum The Netherlands



MARK FREEBURN

Chief Executive Officer AAM Pty Ltd Australia



MANISH BHATT

CIO, Orange County Property Appraisers' Office, USA



PROF. AMITABH KUNDU

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



ABHAY KANSAK

Director Urban Planning CRISIL



DR SHYAMALA MANI

Professor, National Institute of Urban Affairs



PROF. CSRK PRASAD

Dean International Relations and Alumni Affairs (IRAA) & Head, Transportation Division Department of Civil Engineering, NIT Warangal



PUNIT AHUJA

Managing Director Intec Infra-Technologies Pvt. Ltd.



GORA MBOUP

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



VIKRAM JASROTIA

Business Development Manager Elcome Technologies



KAI LEHTINEN

General Manager Energy & Public Administration, Trimble USA

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GEOINFORMATICS FOR DIGITAL INDIA



VK DHADWAL

Director
National Remote Sensing
Centre



VISHNU CHANDRA

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



**DR A SENTHIL
KUMAR**

Director – Indian Institute
of Remote Sensing



**MAJ GEN (DR) R SIVA
KUMAR**

President, Geospatial
Solutions
IIC Technologies



TP SINGH

Project Leader – National
Centre for
Geoinformatics, DeITY

SOUTH ASIA GEOSPATIAL FORUM



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 & Head
Survey of Bangladesh



**BRIGADIER
GENERAL MD SYEED
ANWARUL ISLAM**

Chief Engineer, Dhaka
North City Corporation



**BIRENDRA
BAJRACHARYA**

Acting Regional
Programme Manager -
Mountain Environment
Regional Information
System, ICIMOD
Nepal



ASHISH ARORA

Hexagon Geospatial



**DR. ZAFFAR SADIQ
MOHAMED-GHOUSE**

Manager - Business,
Research & International
Relations, CRC for Spatial
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Australia



H. HEMANTH KUMAR

Principal Investigator
Karnataka State Spatial
Data Infrastructure
Programme

AGRICULTURE



SURESH KUMAR
Additional Chief Secretary
(Development)
Govt. of Punjab



DR. H P SINGH
Chairman, Confederation
of Horticulture
Association of India



**DR. VIRENDER SINGH
ARYA**
Chief Soil Survey Officer
Soil & Land Use Survey of
India, Ministry of
Agriculture, Govt. of India



ER AVINASH C TYAGI
Secretary General
International
Commission On
Irrigation and
Drainage (ICID)



HIMANSHU VERMA
National ICT Advisor
(CCKN-IA), GIZ



SURENDER MAKHIYA
VP, Jain Irrigation
Systems Ltd



PRASAD BABU
Co-Founder & CEO, Geo
Climate Risk Solutions
Pvt. Ltd



RAMESH S. HOODA
Chief Scientist, Haryana
Space Applications Centre



MANOJ RAWAT
Head-Agribusiness
RBL Bank Ltd.



DR. VK SEHGAL
Principal Scientist
Dept of Agri Physics
Head-CREAMS, IARI



HEMENDRA MATHUR
Managing Director, SEAF
India Investment Advisors



DR. G.P. OBI REDDY
Principal Scientist-Division
of Remote Sensing Appli-
cations, National Bureau
of Soil Survey and Land
Use Planning



**DR. HANISH KUMAR
SINHA**
AVP & Head- R & D
National Bulk Handling
Corporation Ltd.



PROF. DR. M. MONI
Professor Emeritus &
Chairman, Centre for
Agricultural Informatics
and e-Governance Research
Studies, Shobhit University
& Former Director General
National Informatics Centre



**DR. BHAGWAN SINGH
CHAUDHARY**
Registrar, Ch. Bansilal
University, Bhiwani



**DR. G. DILEEP
KUMAR**
Global Program Leader
Iowa State University
USA



**AMLAN ROY
CHOUDHURY**
Technologist (Fruits &
Vegetables), Kay Bee
Exports



PRADNYA MATHUR
Consultant-GIS



DR. HEMA YADAV
Dy Director, National
Institute of Agriculture
Marketing

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ELECTRICITY



ANAND KUMAR S V

Assistant Vice President
– IT, Reliance Energy
Limited



VIVEK SHANDILYA

Assistant Manager
Assistant Manager (Auto-
mation) – NOIDA Power
Company Limited



**PRAMOD KUMAR
PARIDA**

Scientist, Odisha Space
Applications Centre



TARUN BATRA

AGM – GIS, Tata Power
Delhi Distribution Limited



RALPH DSOUZA

Industry Sales Manager
Power
Bentley Systems India

FORESTRY



DR ANMOL KUMAR

Director General, Forest
Survey of India



**ANURAG
SRIVASTAVA**

APCCF-IT, MP Forest



PK SHARMA

PCCF, Telangana Forest



DR SANTANU BASU

Senior Manager
Forestry & GIS
Iora Ecological Solutions



MANOJ KUMAR*

Indian Council of Forestry
Research & Education

MINING



RR MISHRA

Chairman- cum
Managing Director
Western Coalfields Ltd



FRANCOIS ROBIDA

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



**DR SANDEEP
TRIPATHI**

Chief Executive Officer
Orissa Remote Sensing
Centre



**GAUTAM
BANDOPADHYAY**

Director, MeaTech
Solutions LLP



DU VYAS

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



NARENDRA KAVDIA

Consultant & Ex Associate
Vice President -
Exploration, Hindustan
Zinc Limited

TRANSPORTATION



**PROF. MANORANJAN
PARIDA**

MoRTH Chair professor
& Dean SRIC, IIT Roorkee



SS MATHUR

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



UMA SHAMA

Professor of Mathemat-
ics, & Computer Science,
Co-Director of GeoGraph-
ics, Laboratory Bridgewa-
ter State University, USA



ADESH DHAR

Product Manager
Elcome Technologies



**DR. B. KANAGA
DURAI**

Chief Scientist & Head
PME Division, CSIR-Central
Road Research Institute



G.P. SINGH

STD & Additional SIO
NIC UP State Unit



SONIA ARORA

Urban Transport Expert
Institute of Urban
Transport, India



KASTURI SRINIVAS

Industry Sales Director
Transportation
Bentley Systems India



RAJEEV SHARMA

Principal Consultant
IBU - TITL CTO | I5 Labs
Tech Mahindra

WHY GEOSMART INDIA

Thought-Leaders, Trend-Setters,
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TECHNOLOGY SESSIONS



DR N APARNA

Group Head - NDC
National Remote Sensing
Centre



DR PLN RAJU

Director, NE Space
Applications Centre



PROF PK VERMA

Director General
MP Council of Science &
Technology



DEBAJIT MISHRA

Scientist, Orissa Space
Applications Centre



NEERAJ JAIN

Sr. Advisory Software
Engineer
Pitney Bowes Software



**RANJAN KUMAR
SINGH**

Manager, Rolta India
Limited



MICHAEL MEYER

Assistant Director
International Sales, Riegl
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Systems GmbH



RAJESH ALLA

Chairman and
Managing Director
IIC Technologies



VISHNU BOORLA

Hexagon Geospatial



MAHESH REDDY

Hexagon Geospatial



N.KALYAN

Senior Scientist, National
Geophysical Research
Institute



**BIKASH
RANJAN PARIDA**

Assistant Professor
Shiv Nadar University

YOUTH FORUM



DR. SHAHNAWAZ

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



PROF. MILAP PUNIA

Professor, Social
Sciences, JawaharLal
Nehru University
New Delhi

**Confirmation awaited*

And many more...

CONCURRENT CONFERENCE

GE 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

GE 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 perspective.



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
Governor of Mizoram

CHIEF GUEST



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



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



Dr Satheesh Reddy
Scientific Advisor
to Raksha Mantri



Maj Gen VP Srivastava
ADG Military
Survey, GSGS



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



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



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



Dr S Pal
Vice Chancellor -
Defence Institute of
Armament
Technology



RS Pawar*
Chairman
NIIT Technologies



Greg Bentley
Chief Executive
Officer
Bentley Systems
USA



Mladen Stojic
President, Hexagon
Geospatial
USA



Lt Gen GS Chandel
YSM
Director General
Rashtriya Rifles
Indian Army



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



Lt Gen NC Marwah PVSM AVSM (Retd)
Member
NDMA



Marcus Traino
Director - Operations/
Sales, Asia Pacific
Geospatial eXploitation
Products Group BAE
Systems



Maj Gen Girish Kumar
Commandant
CAMS



Vipin Tyagi
Executive Director
CDOT



Maj Gen L B Chand
VSM
ADG Sigs

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.

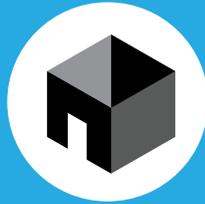


GEOSPATIAL POLICY IMPLEMENTATION AWARDS

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



EXHIBITION



This year, the two premier conferences together shall bring an unprecedented scale of exhibition of geospatial technology in the region, bringing innovations in geospatial technologies and applications. Our experience is your guarantee of top quality and a powerful, cost effective platform to meet your prospective clients face to face. No other promotional medium can deliver thousands of networking and business opportunities under one umbrella. Avail this extremely cost effective platform to showcase your geospatial capabilities and make inroads into untapped opportunities.

EXHIBITION FEE

INDIAN EXHIBITORS

INR 16,500 per sqm

OVERSEAS EXHIBITORS

USD 400 per sqm

For Exhibition queries, please contact **Wasim Akhtar**, exhibition@geosmartindia.net

EXHIBITOR'S BENEFITS



Boost your business

Raise the profile of your company amongst Indian and global participants



Visibility & Branding

Showcase your products and solutions; explain your offerings in detail



Access the appropriate measures

Reach out to larger number of clients both government departments and business enterprises, make new contacts



Support and Advice

Understand the finer needs of your stakeholders; ensure that your business is suited to the requirements of the market

REGISTRATION FEE

FOR GEOSMART INDIA

Category	Indian Delegates (in INR)	SAARC Countries Delegates (in USD)	Overseas Delegates (in USD)
Government	5000	100	200
Private	8000	150	300
Academia / Researchers	3000	75	150
Student	2000	50	150

FOR GEOINTELLIGENCE ASIA

Category	Indian Delegates (in INR)	SAARC Countries Delegates (in USD)	Overseas Delegates (in USD)
Government	5000	100	200
Private	8000	150	300
Academia / Researchers	3000	75	150

FOR GEOINTELLIGENCE ASIA + GEOSMART INDIA

Category	Indian Delegates (in INR)	SAARC Countries Delegates (in USD)	Overseas Delegates (in USD)
Government	5000	100	200
Private	12000	200	300
Academia / Researchers	4000	100	150
Student	3000	75	100

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