

INDIA GEOSPATIAL LEADERSHIP SUMMIT

December 6, 2018 | Dehradun, Uttarakhand

Role and Requisites of National Geospatial Infrastructure for New India 2022

INTRODUCTION

India has embarked itself on development path. To accelerate and refocus on universal access to basic essentials the Government of India has adopted the mantra of “Development as a Mass Movement” keeping a timeline of 2017-2022 towards achieving a “Swachh, Swastha, Shikshit, Sampann, Saksham and Surakshit” Bharat (Clean, Healthy, Educated, Complete, Able and Secure India) by 2022. The government has laid out integrated or umbrella programs for Digital empowerment and economy, Smart Cities i.e. urban development, Rail-Road-Water and Air transport infrastructure, Water and Irrigation, Health and sanitation, Skill Development, Security and Safety management etc. aiming to create a sustainable base for continuing this development into the next decade.

Effective planning for integration of technology solutions is now critical while devising policy frameworks, intervention strategies, governing structures and implementation programs. Comparatively, technology integration and adoption management is crucial to maintain and enhance socio-economic leadership of a country, which is equally important than the technology innovation capability of industry, innovators and research & development.

As we usher in a digital revolution, the relevance of geospatial information and technology continues to build on its growth momentum. With the ‘where’ dimension becoming fundamental to all decision-making, geospatial has emerged as enabler of the entire digital space and an efficient national geospatial information infrastructure could serve as foundational knowledge platform and contribute significantly in this national momentum. Geospatial technology and information has great potential to be a public commodity and enabler to the larger challenges facing global economic and social well-being. However, this requires the right policy framework, such as the promotion of other technologies, including telecommunication, broadband and the Internet, to unlock its true potential.

The multifaceted geospatial industry is changing and expanding dynamically, dramatically, aligning itself with mainstream digital environment, and subsequently been posing new set of requirements in terms of fundamental geospatial data infrastructure and policy frameworks.

Recognising the need of broader consultation between senior executives of primary stakeholders of geospatial technology including industry, end user organisation, policy makers, academia and national mapping agency, India Geospatial Leadership Summit is being organised by Survey of India, World Geospatial Industry Council, Association of Geospatial Industries and Geospatial Media &



Communications, in Dehradun on 6th December.

AGENDA

Inaugural Session

The Inaugural Session will set the agenda for the Summit, introducing the theme and context of the Leadership Summit. It will put forth an overview of the geospatial leverage for national development plans of India, the current geospatial ecosystem, and the way forward for enabling most efficient technology adoption in India.

- Rajan Aiyer, President, Association of Geospatial Industries
- Video Address by Jack Dangermond, President, Esri Inc
- Sanjay Kumar, Chief Executive Officer, Geospatial Media & Communications
- Lt Gen Girish Kumar, VSM, Surveyor General of India
- Shambhu Singh, Additional Secretary, Ministry of Road Transport & Highways

Panel: Value of geospatial information in national development

Geospatial information plays a vital role in every walk of life ranging from citizen empowerment, local governance, delivery of utility services, social media, public safety and national security. Rapid technology advancements have also made geospatial information crucial for planning, monitoring, management, analysis, decision making and improving overall productivity and efficiency of businesses for several industry verticals. Various published studies have found geospatial technologies making substantial contribution to major economies, and estimations that the value derived for the global economy through geospatial is well over \$500 billion. This panel will dwell on the value of geospatial information in the Indian context, potential for national development and contribution to economy, through discussions with key user organisations involved in national development and industry experts.

Moderator: Dr Manosi Lahiri, Founder & CEO, ML Infomap

Panelists: BP Awasthi, ED (Track), Indian Railways
AK Srivastava, CGM –IT, National Highways Authority of India
SV Satish, Executive Director (IT, GNSS, AVS), Airports Authority of India
PK Parchure, Member, Central Ground Water Board
Agendra Kumar, President, Esri India
Abhay Kimmatkar, Joint Managing Director, Ceinsys
Anusuya Datta, Executive Editor, Geospatial Media

Panel: Geospatial Information Infrastructure for New India

An efficient geospatial data infrastructure facilitates access, distribution and use of geospatial information in a country. Geospatial information infrastructure will be key enabling platform facilitating socio-economic development for India in digital age and realizing the vision of New India. This panel will focus on addressing the establishment of few core geospatial information infrastructure components including:



- Holistic frameworks for geospatial information management and planning;
- Fundamental topography maps or base maps at required scales;
- Appropriate methodologies to build intended data systems for effective project deliveries;
- Modern nationwide geodetic infrastructure;
- Modern geodetic references

Moderator: Nikhil Kumar, Trimble Geospatial

Panelists: Lt Gen Girish Kumar, VSM, Surveyor General, Survey of India
 Dr KJ Ramesh, Director General, Indian Meteorological Dept
 Vishnu Chandra, DDG & Group Head –RS & GIS, National Informatics Centre
 Pramod Kaushik, President & Managing Director – India Region, Hexagon
 Srinibas Patnaik, Senior Director – South Asia, DigitalGlobe

Panel: Certification and Capacity Development

It has been well established that geospatial data is a critical component for effective and efficient delivery of national development projects. However its utility can only be realized when the data is accurate. Inaccurate data, incomplete data can not only result in humongous financial losses but delays in development projects and the resultant benefits to citizens. At times projects built on inaccurate data can result in hazardous consequences. Error, inaccuracy, and imprecision can "make or break" many projects developed on geospatial data. National development projects are also indicators for a nation's health and its position in world economy. The industry's growth is also largely stagnated due to the lack of availability of skilled workforce. This is mainly due to a lack of integrated approach in geospatial domain education. Such high stakes riding on geospatial capacities for national development, and its contribution to employment, mandate the need for quality check of data being produced, and need for requisite manpower for such quality check. A commission to oversee certification leading to licensing will go a long way in order to meet certified manpower for mission critical projects.

Moderator: GV Sreeraman, Secretary General, Association of Geospatial Industries

Panelists: *Rajesh Agarwal, IAS, Director General, Directorate General of Training, Ministry of Skill Development & Entrepreneurship*
 Dr Rajkumar Khatri, IAS, Principal Secretary – Revenue, Govt of Karnataka
 Dr A Senthil Kumar, Director, CSSTEAP
 Kunal Satyarthi, IFS, Member Secretary (EC), Aryabhata Geo-informatics & Space Application Centre, Himachal Pradesh
 Shishir Verma, Sr. Vice President, CE Infosystems

Panel: Towards an enabling policy framework

The geospatial vision of the country should be the one to galvanize the designated agencies and institutional setup in fostering a participatory, innovation and entrepreneur friendly ecosystem. Such a vision is essential for if it has to achieve the Digital India vision. A cultural shift is required for the national geospatial agencies to move away from the legacy of functioning as the 'only source' to produce and geospatial information to the new role of being an enabler of national geospatial sector competitiveness in collaboration with industry and institutional stakeholders.



Framing a conducive policy environment to support wider democratization of geospatial data for enhanced commercialization with value-added services and applications development at the downstream, and proactive mechanisms for innovation and entrepreneurship promotion can lead to increased value addition as well as shift towards innovative product/service segment in the market. There is a pressing need to comprehensively assess and address the composition, regulation, development and delivery related issues that are hindering the growth of the industry.

Moderator:

Panelists: Tanvi Sundriyal, IAS, CEO, MapIT, and MD, Madhya Pradesh State Data Centre
 Sarvesh Singhal, IFS, Chief Executive Officer, Jharkhand Agency for Promotion of Information Technology
 Secretary – IT, Govt of Uttarakhand
 Atanu Sinha, Vice President & Director South Asia

SCHEDULE

<i>Time (hrs)</i>	<i>Agenda</i>
0930-1100	Inaugural Session
0930-0945	Welcome Address & Overview of AGI: Rajan Aiyer, President, AGI
0945-0955	Video Message: Jack Dangermond, President, Esri Inc
0955-1010	Sanjay Kumar, Chief Executive Officer, Geospatial Media & Communications
1010-1025	Guest Address: Lt. Gen Girish Kumar, VSM, Surveyor General of India
1025-1040	Guest Address: Shambhu Singh, Additional Secretary, MoRTH
1040-1045	Vote of Thanks : GV Sreeramam, Secretary General, AGI
1045-1130	Networking & Tea break
1130-1300	Panel 1: Value of geospatial information in national development
1300-1400	Lunch
1400-1410	Presentation BY Rajasthan Government
1410-1430	Guest Address: Dr KP Krishnan, Secretary, Ministry of Skill Development and Entrepreneurship
1430-1530	Panel 2: India Geospatial Information Infrastructure
1530-1600	Tea break
1600-1700	Panel 3: Certification and capacity development
1700-1800	Panel 4: Towards an enabling policy framework
1900 onwards	Dinner Reception at Survey House

