Public-Private Partneship: Evolving Integrated Geospatial Knowledge Platforms

5th High Level Forum on UN-GGIM

Sanjay Kumar

CEO, Geospatial Media and Communications





PPP Stakeholders and Value





Need for Pioneering Role from Governments

A public-private partnership (PPP, 3P or P3) is a cooperative arrangement between two or more public and private sectors, typically of a long-term nature. Governments have used such a mix of public and private endeavors throughout history.



For governments seeking to expand scalability of infrastructure and services, the **public-private partnership** offers an option that lies somewhere between public procurement and privatization

Ideally, it brings private sector competencies, efficiencies, and capital to improving public assets or services

Market Size and accumulated business value and impact on economy and society are primary parameters determining political attention, scope and charter of public private partnerships

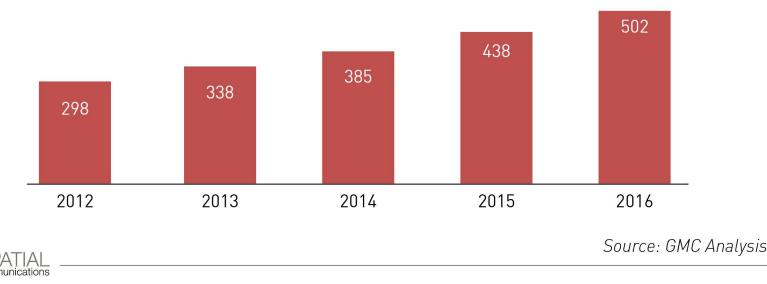
Do we need Public Private Partnerships?

Do we understand geospatial industry?

Geospatial Services Market, Value Impact, Drivers and Policy Imperatives

The Global Geospatial Market

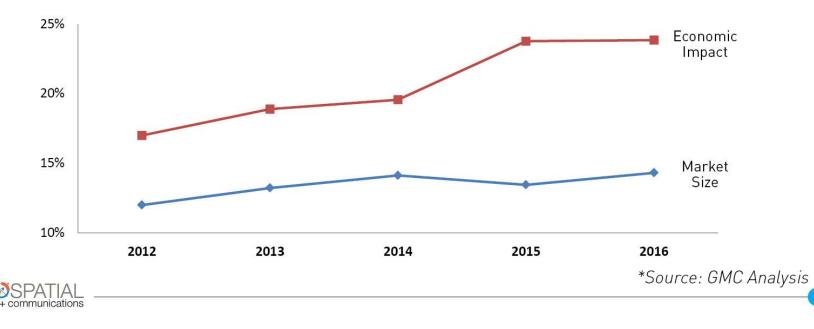
- The geospatial industry is estimated to be worth **USD 502 billion** in 2016
- Between 2012 and 2016, the industry grew at a CAGR of 10.9%
- The rapid growth in the recent years can be attributed to quicker uptake among new user industries
- Developing ecosystem of geospatial technologies and services is likely to result in robust future growth



Market Size of the Geospatial Industry (In billion USDs)

Rising Economic Impact of Geospatial Industry

- Growing adoption and commoditization of geospatial data has increased the economic impact of geospatial services.
- Fom USD 2.98 trillion in 2012, the economic impact of geospatial tecnologies and services is estimated to have reached USD 6.49 trillion by 2016.
- While revenues of geospatial companies grew at a CAGR of 10.9% between 2012 and 2016, the economic impact increased at an estimated 16.9%



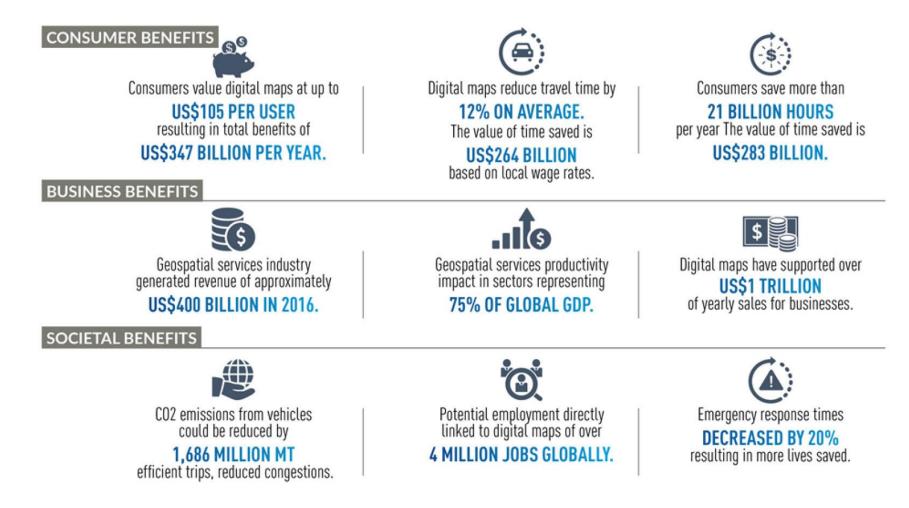
Growth Trends during 2012 and 2016

'Esri annual revenues estimated to be 1.4 billion and its software leverages somewhere between \$16 and \$19 billion in sales of data, hardware and services.'

....Jack Dangermond 2012

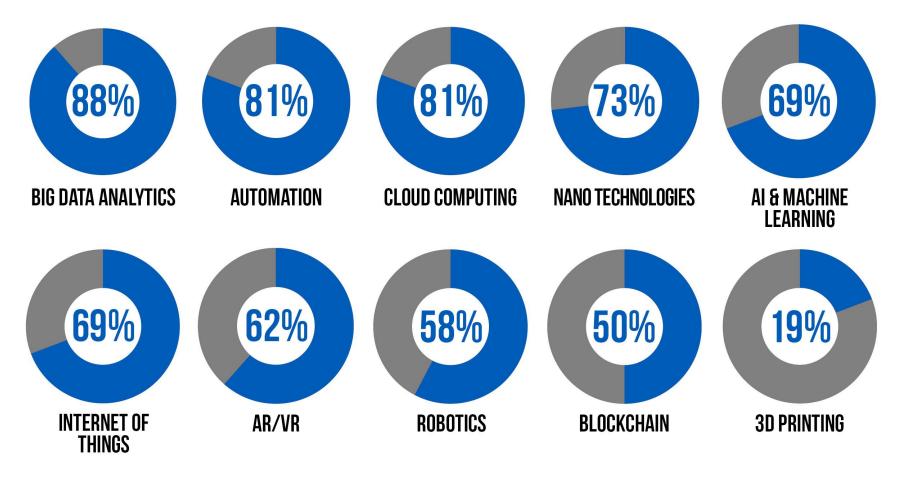
Following the above, on a very conservative estimate, technology companies (20 billion) put together leverage market size closer to the \$100-billion mark

Global Geospatial Market and Impact- By AlphaBeta





Drivers for Geospatial Knowledge and Services





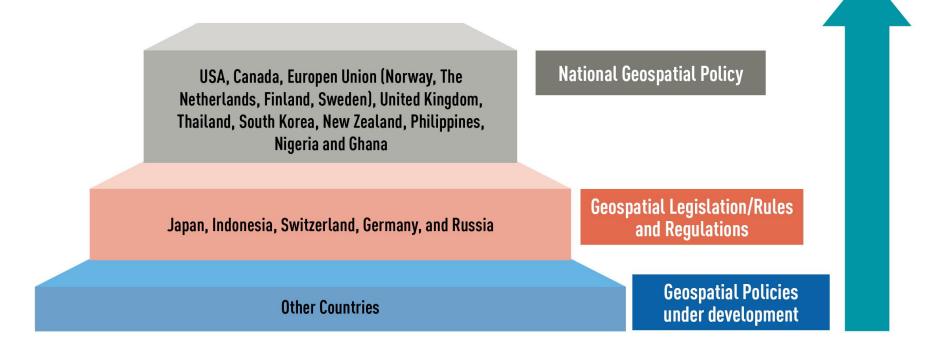
Source: GMC Analysis

User Industries for Future Revenue Growth





Geospatial Policy Environment: Maturity



- Chile's National Geospatial Policy is in Parliament for approval
- United States of America has submitted a National Geospatial Bill in Parliament

GESSPATIAL media + communications Source: GMC Analysis for 36 countries

Policy Formulation Crucial for Development

PRIVATESECTOR PUBLICSECTOR Draft Geospatial Bill in Parliament (2018)

USA

United Kingdom

Geospatial Data Commission announced (2017)

India

ISRO's draft Space Activities Bill' 2017; Draft Geospatial Information Regulation Bill 2016

The Netherlands

Nation. Nation. NALERNATION Spatial Planning and Environmental Protection Act

Malaysia

ALBDOS IND National Geospatial Master Plan (2018)

.....and many more

NEW POLICIES

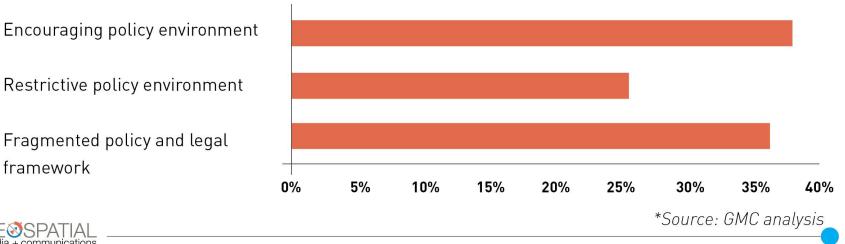
- Facilitate the impact of SDGs
- Scale up the operations of the SDGs communities
- Drive consumercentric applications
- Expand the business value chains



Need for a Progressive Policy Environment for PPP

In a global scenario*

- **26%** of countries of the world foresee a need for holistic policy/regulations for Public Private Partnership
- > 38% countries have a fragmented policy/regulation environment, thus, restricting Public Private Partnership
- In conclusion, **64%** (approx.) of the countries largely are in need of policies > which promote Public Private Partnership for enhancing commercial adoption of geospatial information and technology for economic growth



Policy Environment for PPP



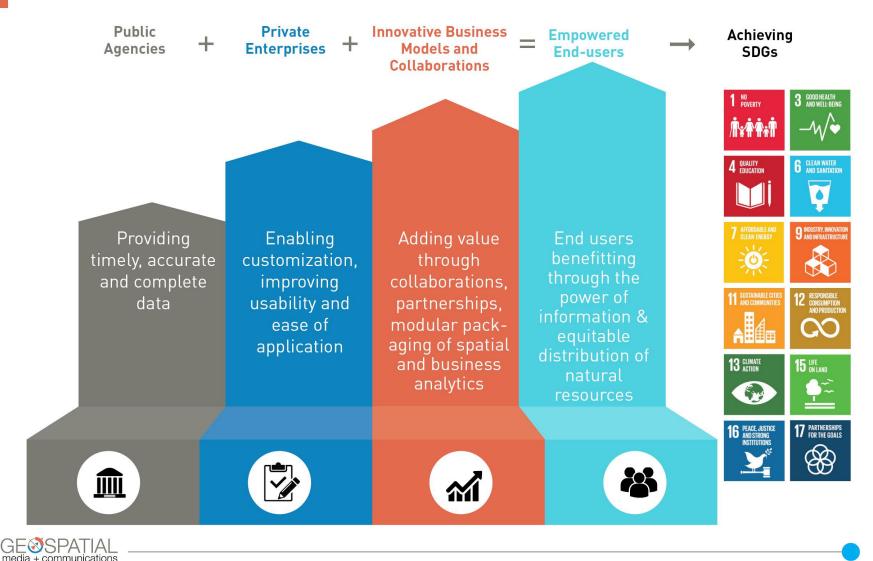
framework

PPP Stakeholders and Value





Public Private Partnership – Societal Benefits



Geospatial Knowledge in Public and Private Portals

Particulars	Public Portals	Private Portals
Volume of Content	\bigcirc	0
Data Authentication	\bigcirc	0
Ease of Navigation	0	\bigcirc
Interoperability	0	\bigcirc
Ease of Downloading Data	_	
Tools for Data Visualization	0	0
Tools for Spatial Analytics		\bigcirc
Degree of Customization	0	\bigcirc
Ease of Integration for VAS-based Apps	0	\bigcirc
A coming-together of public and private portals can offer the best of both worlds		
GEOSPATIAL	9	Good 😑 Average 🤝 Poor

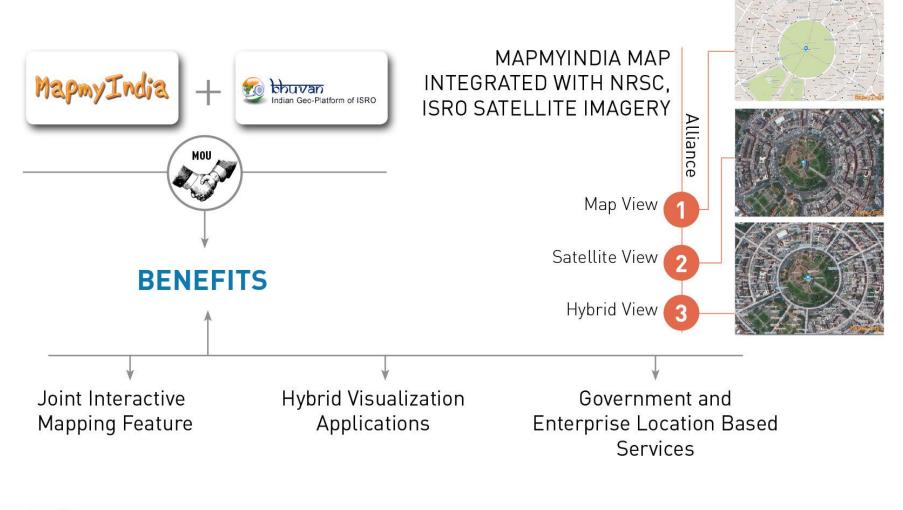
Case Study: Convergence of Public and Private Portals



GEOSS seeks to address 9 societal benefit areas for Earth observations to address: disasters, health, energy, climate, agriculture, ecosystems, biodiversity, water, and weather. As governments and their partners continue to monitor the face of the Earth, the collection, storage, analysis, and sharing of these observations remain fragmented, incomplete, or redundant. Major observational gaps also remain (particularly as we seek to look beneath the surface of the land and the water). As such, GEO's credo is that "decision makers need a global, coordinated, comprehensive, and sustained system of observing systems."



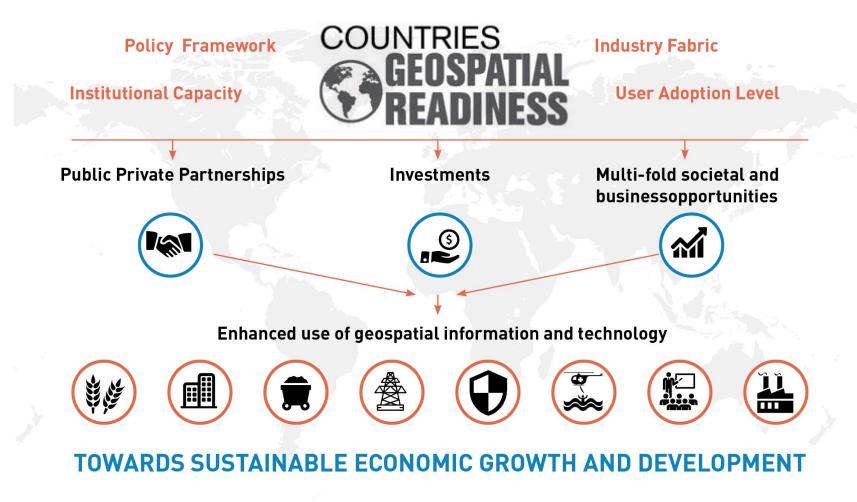
Case Study: Convergence of Public and Private Portals





The Relevance of Geospatial Readiness

Geospatial Data Infrastructure







EXPANDING HORIZONS

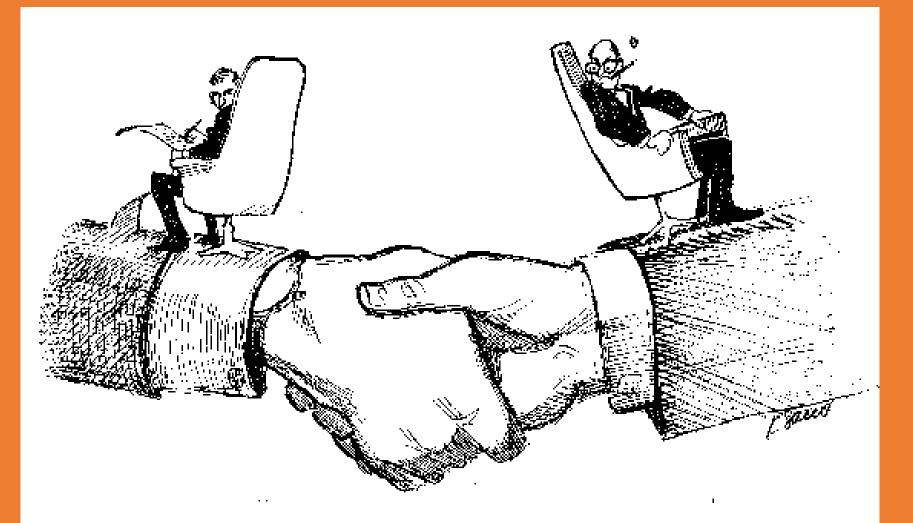
FINDING MAINSTREAM

BUILDING MUTUAL TRUST

THINKING COLLECTIVELY

WORKING TOGETHER

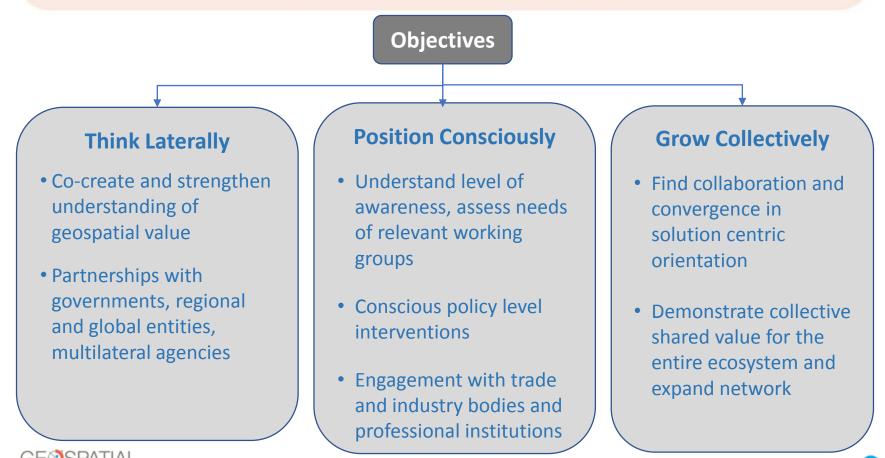
COMMON GOAL AND COMMON GOOD



Public-private partnerships take a lot of work.

A Primer: World Geospatial Industry Council







THANK YOU!



GEOSPATIAL MEDIA AND COMMUNICATIONS PVT. LTD.,

A - 145, Sector 63, Noida, India Tel: +91-120-4612500 Email: info@geospatialmedia.net