

## Opening Up the Geo-Spatial Sector

### Why in news?

- The Ministry of Science and Technology has released new guidelines for the Geo-spatial sector in India.
- The guidelines deregulate the existing protocol and liberalise the sector to a more competitive field.

### What is geo-spatial data?

- Geospatial data is data about objects, events, or phenomena that have a location on the surface of the earth.
- The location may be static in the short-term, like the location of a road, an earthquake event, malnutrition among children, etc.
- It could also be dynamic like a moving vehicle or pedestrian, the spread of an infectious disease and the like.
- Geospatial data combines -
  - i. location information
  - ii. attribute information (the characteristics of the object, event, or phenomena concerned), and
  - iii. often also temporal information or the time at which the location and attributes exist
- The past decade has seen an increase in the use of geo-spatial data in daily life with various apps such as for food delivery, e-commerce and even weather apps.

### What is the present policy on geo-spatial data?

- There are strict restrictions on the collection, storage, use, sale, and dissemination of geo-spatial data and mapping under the current regime.
- The policy had not been renewed in decades and has been driven by internal as well as external security concerns.
- The sector so far is dominated by the Indian government as well as government-run agencies such as the Survey of India.
- Private companies need to navigate a system of permissions to be able to collect, create or disseminate geo-spatial data.
- These include permissions from different government departments (depending on the kind of data to be created) as well as the defence and

Home Ministries.

### **What was the need for tight regulations?**

- Geo-spatial data was initially conceptualised as a matter solely concerned with security.
- So, geo-spatial data collection was the prerogative of the defence forces and the government.
- The Kargil war highlighted the dependence on foreign data and the need for indigenous sources of data.
- With this, GIS mapping was also rudimentary, and the government invested heavily in it after the war.

### **Why is the deregulation now?**

- The system of acquiring licenses or permission, and the red tape involved, can take months.
- This delayed the projects, especially those that are in mission mode, for both Indian companies as well as government agencies.
- The deregulation would eliminate the requirement of permissions as well as scrutiny, even for security concerns.
- Indian companies can now self-attest, conforming to government guidelines without actually having to be monitored by a government agency.
- More and more sectors such as agriculture, environment protection, power, water, transportation, communication, health (tracking of diseases, patients, hospitals etc) rely heavily on geo-spatial data.
- But there is a huge lack of data in the country.
  - This impedes planning for infrastructure, development, natural calamities as well as businesses which are data-based.
- Given this, the mapping of the entire country, that too with high accuracy, by the Indian government alone could take decades.
- There is thus a need to incentivise the geo-spatial sector for Indian companies and increased investment from private players in the sector.
- There has also been a global push for open access to geo-spatial sector as it affects the lives of ordinary citizens.
- The new guidelines have thus ensured such an open access, with the exception of sensitive defence or security-related data.
- Large amounts of geo-spatial data are also available on global platforms.
  - This makes the regulation of data that is freely available in other countries, untenable.

### **What impact is deregulation likely to have?**

- By liberalising the system, the government will ensure -
  - more players in the field
  - competitiveness of Indian companies in the global market
  - more accurate data being made available to both the government (to formulate plans and administer) and individual Indians
- Startups and businesses can now also use this data in setting up their concerns.
- This will particularly be of help in e-commerce sector or geo-spatial based apps.
- This, in turn, will increase employment in these sectors.
- Indian companies will be able to develop indigenous apps, for example an Indian version of Google maps.
- There is also likely to be an increase in public-private partnerships with the opening of the sector.
  - Data collection companies could work with the Indian government on various sectoral projects.
- The government also expects an increase in investment in the geo-spatial sector by companies.
- There is also likely to be an increase in export of data to foreign companies and countries, which in turn will boost the economy.

**Source: The Indian Express**