PARIMAN Portal

For Prelims: PARIMAN, Remote Sensing Technology, Geographic Information System

For Mains: Challenges to Urban Planning in India, Government's Initiatives, Use of Science and technology for effective Urban Planning

Why in News?

Geo-Portal for NCR known as 'PARIMAN', launched in August 2021 by the **National Capital Region Planning Board (NCRPB)** and Union Minister for Housing & Urban Affairs has been made open to the public of NCR.

What do we know about PARIMAN?

- **About:**
  - Portal for Analytical Regional Information and Mapping of NCR.
  - Developed through **National Informatics Centre (NIC),** initially for use by NCR Participating states and the Office of NCRPB.
  - It's a robust system to **facilitate better sub-regional and local planning.** This contains various layers collected from authentic sources.
  - The portal has many Base Maps, Satellite Image services and Night Light Data of different time spans.
    - Terrain map provides the Elevation Profile of a route.
    - Administrative units like State Boundaries to Village Boundaries, various Headquarters to Habitations, Parliamentary and Assembly Constituency Boundaries are integrated in this portal.
    - Layers like Road, Rail and Metro Networks, Points of Interest like Education, Health, Banking, Post Office, Power and Telecom, Industries, Tourism, River and Canal Networks and many more.
      - Area of Interest function facilitates a comprehensive view for any information of a particular State or District or Tehsil.
- **Significance:**
  - This Geo-Portal will help to **improve decentralized planning and management** in the NCR region.
  - This Geo-portal is an important platform to **know where and what exists in the National Capital Region (NCR)** that enables better planning.
  - It will help in effective utilization of Remote Sensing and GIS technology.

What do we mean by Geospatial Technology?

- Geospatial technology uses tools like **GIS (Geographic Information System)**, **GPS (Global Positioning System)** and **Remote Sensing** for geographic mapping and analysis.
- These tools capture spatial information about objects, events and phenomena (indexed to their geographical location on earth, geotag). The location data may be Static or Dynamic.

- Static location data include position of a road, an **earthquake** event or **malnutrition** among children in a particular region while dynamic location data include data related to a moving vehicle or pedestrian, the spread of an infectious disease etc.
  - The technology may be used to create intelligent maps to help identify spatial patterns in large volumes of data.
  - The technology facilitates decision making based on the importance and priority of scarce resources.

What are Government's Initiatives for Urban Planning and Development?

- **Smart Cities:**
  - It promotes cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and **sustainable** environment and application of Smart Solutions.
- **AMRUT Mission:**
  - It ensures that every household has access to a tap with the assured supply of water and a sewerage connection.
- **Swachh Bharat Mission-Urban:**
  - It aims at making urban India free from open defecation and achieving 100% scientific management of municipal solid waste in 4,041 statutory towns in the country.
- **HRIDAY:**
  - **The National Heritage City Development and Augmentation Yojana (HRIDAY),** aims to bring together **urban planning,** economic growth and **heritage conservation** in an inclusive manner & with the objective of preserving the heritage character of the city.
- **Pradhan Mantri Awas Yojana-Urban:**
  - It addresses Urban housing shortage among the Urban Poor including the Slum Dwellers by ensuring a pucca house to eligible urban poor.

Source: PIB

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