

**18– 01 – 2024**

**News: PRITHvi VIgyan (PRITHVI) Scheme**

- The **Union Cabinet** recently approved the comprehensive scheme "PRITHvi VIgyan (PRITHVI)" by the Ministry of Earth Sciences.

**PRITHvi VIgyan (PRITHVI) Scheme**

- PRITHvi VIgyan (PRITHVI) Scheme is an **overarching scheme of the Ministry of Earth Sciences (MoES) for the period from 2021 to 2026.**

It encompasses five ongoing sub-schemes, namely:

- **ACROSS:** Atmosphere and Climate Research-Modelling Observing Systems & Services.
- **O-SMART:** Ocean Services, Modelling Application, Resources and Technology.
- **PACER:** Polar Science and Cryosphere Research.
- **SAGE:** Seismology and Geosciences
- The **scheme includes six activities, including seismological monitoring and microzonation.** SAGE aims to **strengthen earthquake monitoring and research on the Earth's solid components.**

- **REACHOUT**: Research, Education, Training and Outreach.
- PRITHVI scheme comprehensively addresses the five components of Earth System Sciences: atmosphere, hydrosphere, geosphere, cryosphere, and biosphere.
- This holistic approach aims to enhance understanding and deliver reliable services for the country.

## **Objectives**

- To augment and sustain long-term observations of the atmosphere, ocean, geosphere, cryosphere and solid earth to record the vital signs of the Earth System and change.
- Development of modelling systems for understanding and predicting weather, ocean and climate hazards and understanding the science of climate change.
- Exploration of polar and high seas regions of the Earth towards discovery of new phenomena and resources;
- Development of technology for exploration and sustainable harnessing of oceanic resources for societal applications.
- Translation of knowledge and insights from Earth systems science into services for societal, environmental and economic benefit.

## Benefits for India

- PRITHVI provides advanced warning services for natural disasters like cyclones, floods, heatwaves, and earthquakes, facilitating prompt and effective disaster management.
- Additionally, the scheme ensures precise weather forecasts for land and oceans, enhancing safety and minimizing property damages in adverse weather conditions.
- PRITHVI extends its reach to explore the three poles of the Earth; Arctic, Antarctic, and Himalayas facilitating valuable insights and knowledge about these regions.
- The scheme encourages the development of technology for exploration and sustainable harnessing of oceanic resources, aligning with modern advancements in Earth Science.