Bharat 6G alliance

Prelims: Science and technology| Current events of national and international importance

Why in news?

Recently, The Union Minister of Communications, reviewed the progress of Bharat 6G Alliance (B6GA) along with various stakeholders

- The B6GA is a ***collaborative platform*** established to drive India's leadership in 6G technology.
- **Stakeholders** - It is an alliance of public and private enterprises, academic institutions, research organizations, and standardization bodies.
- **Launched in** - July 2023.
- **Launched by**- Ministry of Communications.
- **Objectives -** To enable India to become a leading global supplier of IP, products, and solutions of *affordable 5G* and 6G and other future telecom solutions
- To deploy 6G technologies to act as a powerful force multiplier for India by 2030.
- To support and energise *Indian participation* in standard development organizations.
- To *build coalitions with similar 6G Global Alliances* and other global technology alliances and associations.
- To address India's priorities for contribution to 6G and other *future technology-related global standards*, products, operations, and services.
- To promote the ecosystem for research, design, prototyping, development.
- To study and recommend national requirements and enable their inclusion in Indian and international standardization bodies.
- To develop recommendations for Bharat 6G Vision implementation readiness in India.
- **Operational phases**
  - **Phase 1 (2023-2025)** - Exploratory research, Proof-of-concept testing, and Risky and innovative pathways
  - **Phase 2 (2025-2030)** - Intellectual property (IP) creation and Deployment of testbeds.
- **Reports**
  - Bharat 6G Vision Document
  - Bharat 6G Mission Task Force Reports
  - Working Group Report
  - Whitepapers
- **Working groups**
  - Spectrum

    - Devices, Components, Sensors, and Manufacturing ecosystem
    - Technology
    - Applications
    - Outreach
    - Green and Sustainability
    - 6G Use cases and Revenue Stream
- **Advantages** - Development of Indigenous RAN technology, Intelligent and inclusive networks for rural connectivity, Cross-sectoral 6G applications in domains like agriculture, healthcare, smart and sustainable deployment.
- The Alliance has now expanded to a robust network of *80 member organizations, including over 30 startups,* reflecting the growing national momentum for indigenous 6G innovation.

Reference

PIB| Bharat 6G alliance

