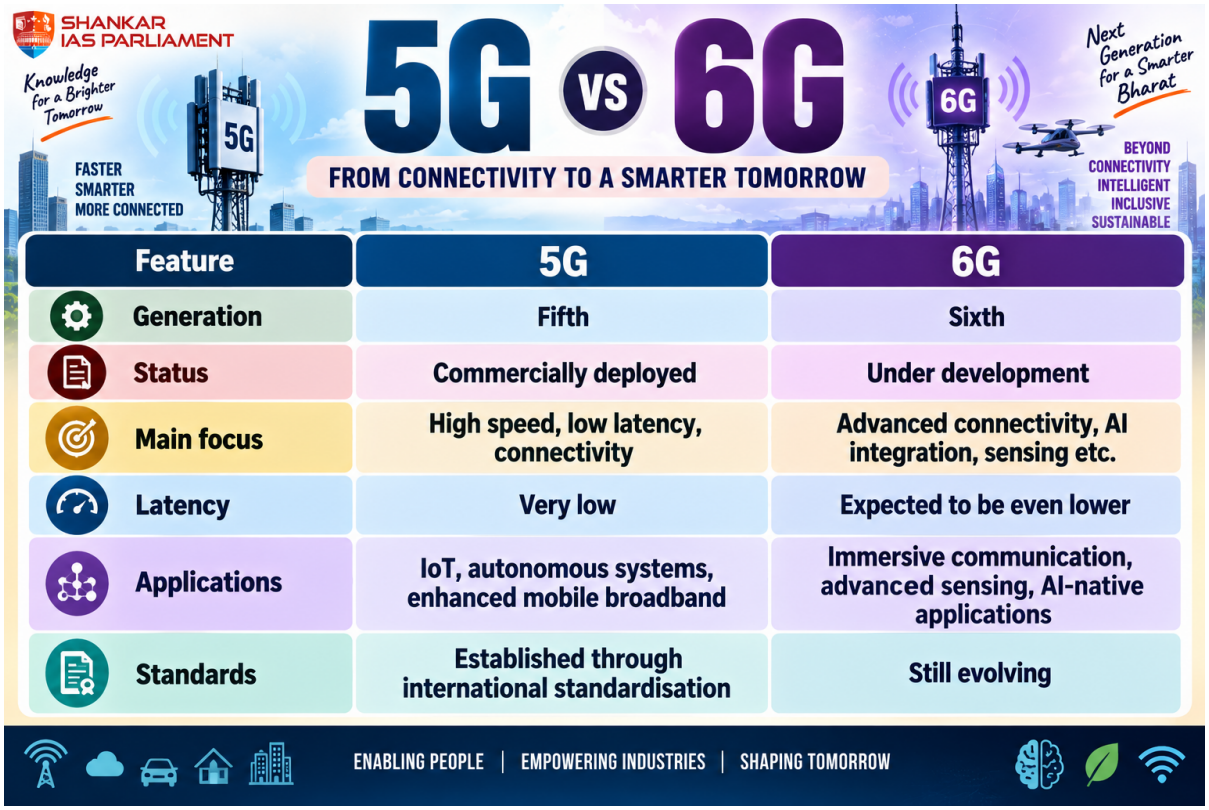
India Joins International 6G Initiative

Prelims: *Current events of national and international importance | Science & Technology*

Why in News?

Recently, India joined the United States and 24 other countries in an international initiative to shape the development of 6G networks, following the G20 Innovation Ministerial Meeting.

- **International 6G Initiative –** The initiative aims to ensure that future telecommunications networks will:
  - Reflect collective **security interests**
  - Enhance **technological competitiveness**
  - Foster **innovation**
- This development occurs in the context of increasing **India–US cooperation** in the following areas:
  - **Sixth-generation (6G) wireless technology**
  - Semiconductor technology
  - Artificial Intelligence (AI)
  - Data center infrastructure
  - Emerging technologies



- **Advantages**
  - Improved access to global technology ecosystems
  - Active participation in international standard-setting processes
  - Enhanced collaboration in research and development initiatives
  - Strengthening the security of telecommunications networks
  - Development of a robust semiconductor ecosystem
  - Expanded opportunities for Indian technology enterprises
  - Reduced reliance on individual foreign technology suppliers

G20 Innovation Ministerial Meeting
• **Representatives from –** G20 member countries to discuss innovation and the advancement of emerging technologies. • **Took place in –** Chapel Hill, North Carolina, United States. • **Concluded with –** The adoption of the **G20 Innovation Ministerial Statement**. • The statement emphasised the following key areas: - Emerging technologies - Prosperity - Productivity - Innovation - Economic opportunities - Quality of life

Reference

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