STUDY NOTES · BASIC CONCEPT

Private Space Companies of India

International Relations

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Major Indian Private Space Companies

1. Digantara (Bengaluru)

- Domain: Space Situational Awareness (SSA)
- Tracks space debris and satellites in Earth orbit
- Provides collision avoidance and space traffic management services

Importance:

- Protects civilian and military satellites
- Reduces dependence on foreign SSA data
- Strengthens India’s space security and data sovereignty

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2. Skyroot Aerospace (Hyderabad)

- Domain: Launch Vehicles for Small Satellites
- Vikram-S: India’s first privately launched sub-orbital rocket
- Vikram-1: Orbital small satellite launch vehicle (under development)

Importance:

- Low-cost, rapid launch capability
- Positions India in the global small-satellite launch market
- Supports quick deployment of strategic satellites

3. Agnikul Cosmos (Chennai)

- Domain: Orbital Launch Vehicles and Propulsion
- Agnibaan SOrTeD launch vehicle
- Agnilet Engine: 3D-printed semi-cryogenic engine
- First private company to launch from Sriharikota

Importance:

- Indigenous propulsion technology

- Boosts Make in India and Atmanirbhar Bharat
- Reduces reliance on foreign engine technologies

4. Pixxel (Bengaluru)

- Domain: Earth Observation Satellites
- Develops hyperspectral imaging satellites
- Applications in agriculture, climate monitoring, mining, and disaster management

Importance:

- High-resolution environmental data
- Supports climate policy, sustainability, and precision agriculture

5. Bellatrix Aerospace (Bengaluru)

- Domain: Satellite Propulsion Systems
- Electric and green propulsion technologies
- Enhances satellite lifespan and maneuverability

Importance:

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- Critical space hardware manufacturing
- Reduces import dependence

6. Dhruva Space (Hyderabad)

- Domain: Satellite Platforms and Launch Support
- CubeSats and small satellite solutions
- Works closely with ISRO missions