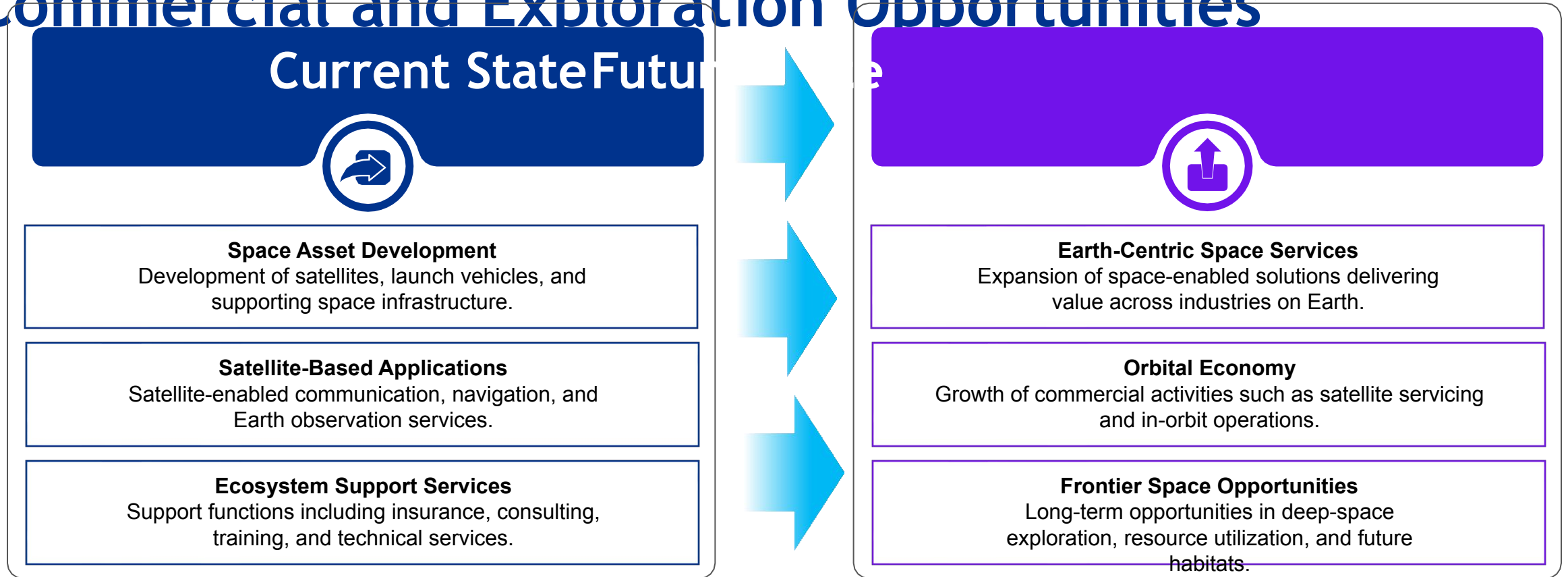


Space Sustainable Principles to Enforce ment

Defining Global Space Economy
July 2025



The Evolving Space Value Chain: Expanding Beyond Traditional Infrastructure Toward New Commercial and Exploration Opportunities



Key Drivers:



Space sustainability governance: Bridging the gap

While current frameworks continue to evolve, there is growing evidence of industry and regulatory efforts to translate sustainability principles into operational practice.

Foundations Already in Place

- Broad international consensus on responsible space behavior

Global Alignment

Clear Sustainability Principles

- Debris mitigation, transparency, and long-term sustainability are well established

Defined State Accountability

- Existing treaties establish responsibility and liability mechanisms

Growing National Adoption

- Countries are increasingly translating global principles into domestic regulations

Signals of Progress

Regulatory Integration

- Sustainability requirements incorporated into licensing and authorization processes

Expanding Operational Capabilities

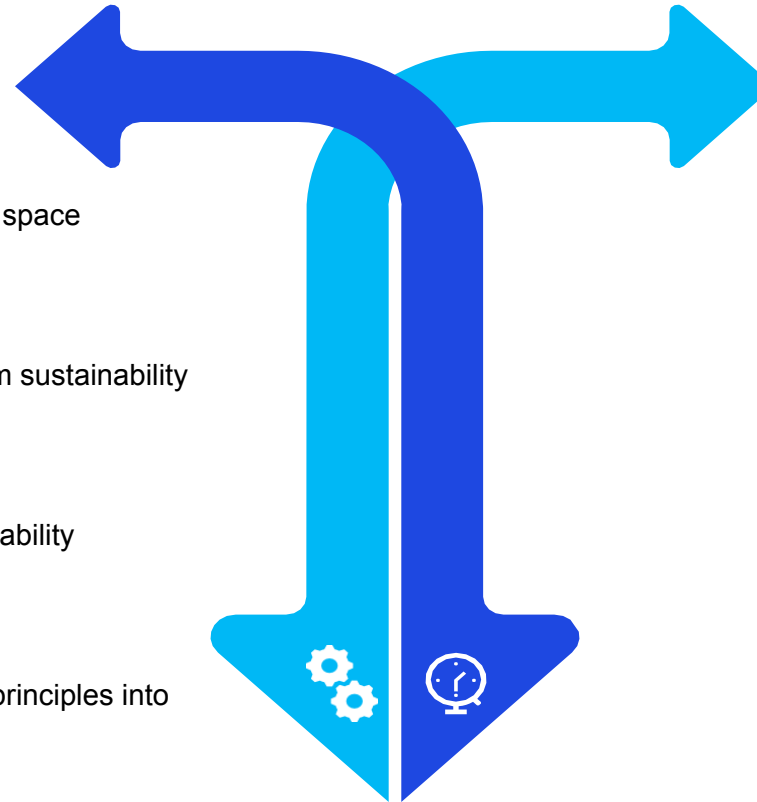
- Growth in SSA, orbital monitoring, and collision avoidance infrastructure

Growing Industry Adoption

- Increased adoption of debris mitigation and responsible mission practices

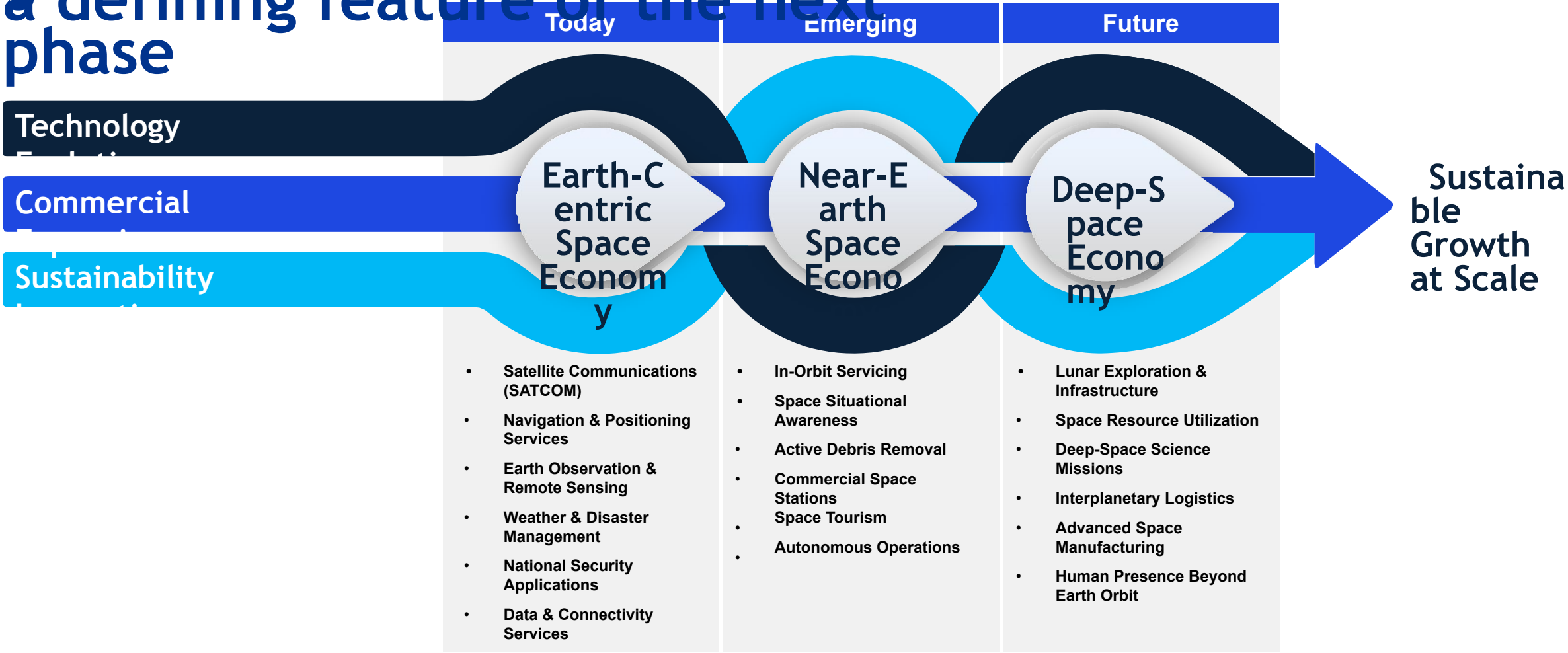
Sustainability-by-Design Adoption

- Integration of sustainability considerations across mission planning, orbital operations & end-of-life disposal strategies



The momentum is increasingly shifting from defining sustainability principles to **operationalizing them through regulation, technology, and industry adoption.**

The future space economy: Sustainable scaling as a defining feature of the next phase



As the space economy evolves beyond Earth-centric applications, **the ability to scale operations sustainably will become a key differentiator** for investment, innovation, and long-term value creation.

Defining next growth phase: Commercial growth, investment and sustainability must scale together



Commercialization at Scale

Private capital is accelerating activity across launch, **EO, SSA, SatCom** and downstream services.



Sustainability Moves Upstream

Sustainability is increasingly becoming a design, **licensing and investment consideration**, rather than a post-launch obligation.



Governance as a Growth Enabler

Predictable authorization, spectrum coordination and **orbital-risk management** can support long-term sector growth.



SSA as Critical Infrastructure

Space Situational Awareness is evolving from a **monitoring function** to a **foundational capability** for safe and scalable operations.



Investment Brings Accountability

As missions move from prototypes to operations, expectations around compliance, **transparency** and **post-mission disposal** will increase.



Next Phase of Growth

India's opportunity lies in scaling commercial activity while **embedding sustainability** into the operating model of the ecosystem.



As investment and commercial activity accelerate, **sustainability is becoming an increasingly important enabler of long-term growth**, operational resilience and investor confidence.