

New Network & Services Ecosystems for 6G

Services Aspects

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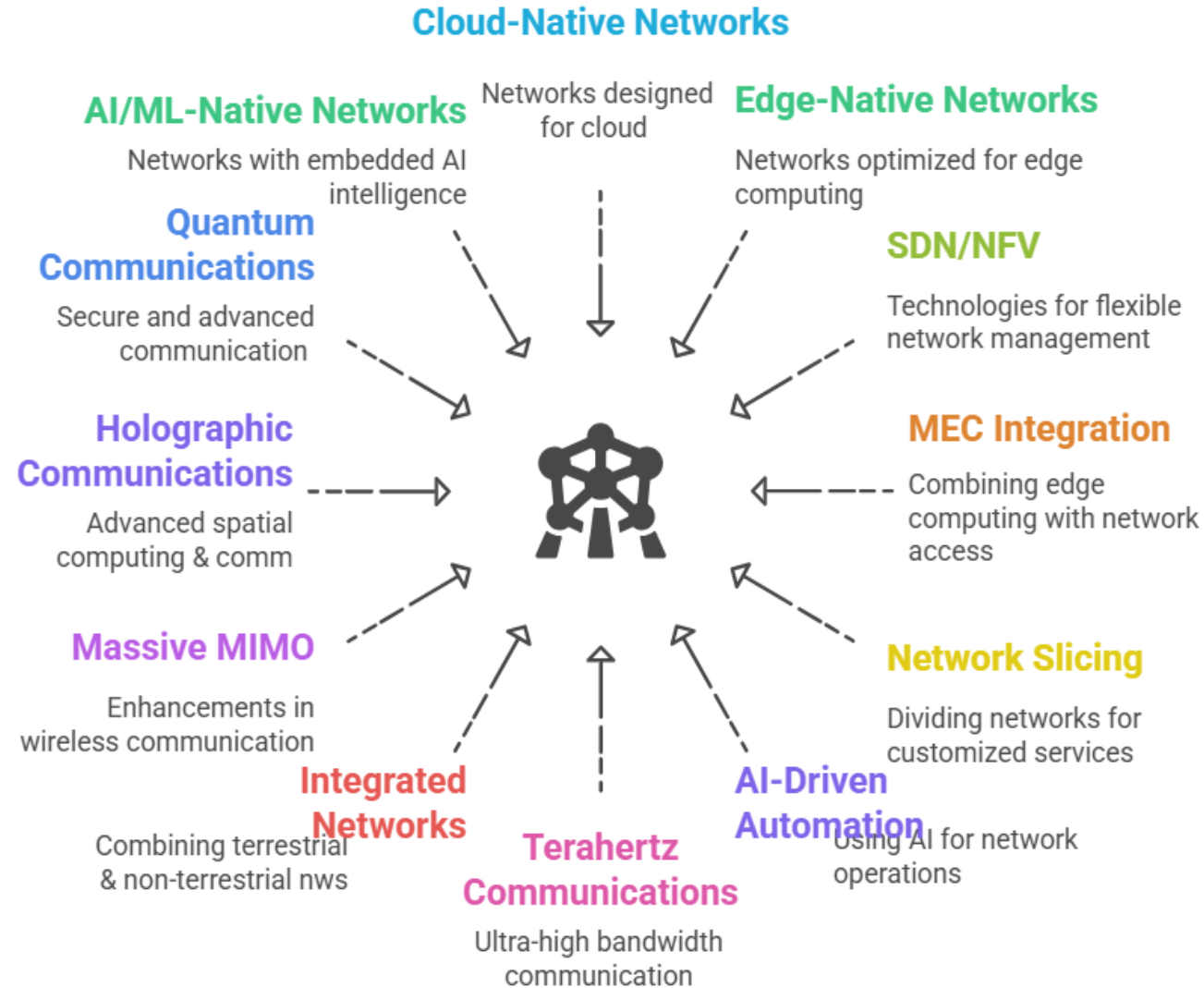
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6G: Network, Technology Capabilities, Services, and Ecosystem

Service Ecosystems & Applications

- ❖ Extended Reality (XR) - AR/VR/MR applications
- ❖ Digital twins and real-time simulation environments
- ❖ Pervasive AI & AI-as-a-Service (AlaaS)
- ❖ Haptic communications and tactile internet
- ❖ Brain-computer interfaces and neural networks
- ❖ Autonomous systems coordination (vehicles, drones, robots)
- ❖ Smart city and IoT integration at massive scale

6G Network & Technology Capabilities



Ecosystem Components

- ❖ Multi-stakeholder collaboration between telecom operators, cloud providers, device manufacturers
- ❖ Open APIs and interoperability standards
- ❖ New business models and revenue streams
- ❖ Regulatory frameworks and spectrum management
- ❖ Sustainability and green networking initiatives

Use Cases and 6G Capabilities

Characteristics

Use Cases

Remote robotic surgery

Smart city sensor networks

8K/16K holographic streaming

Autonomous drone delivery

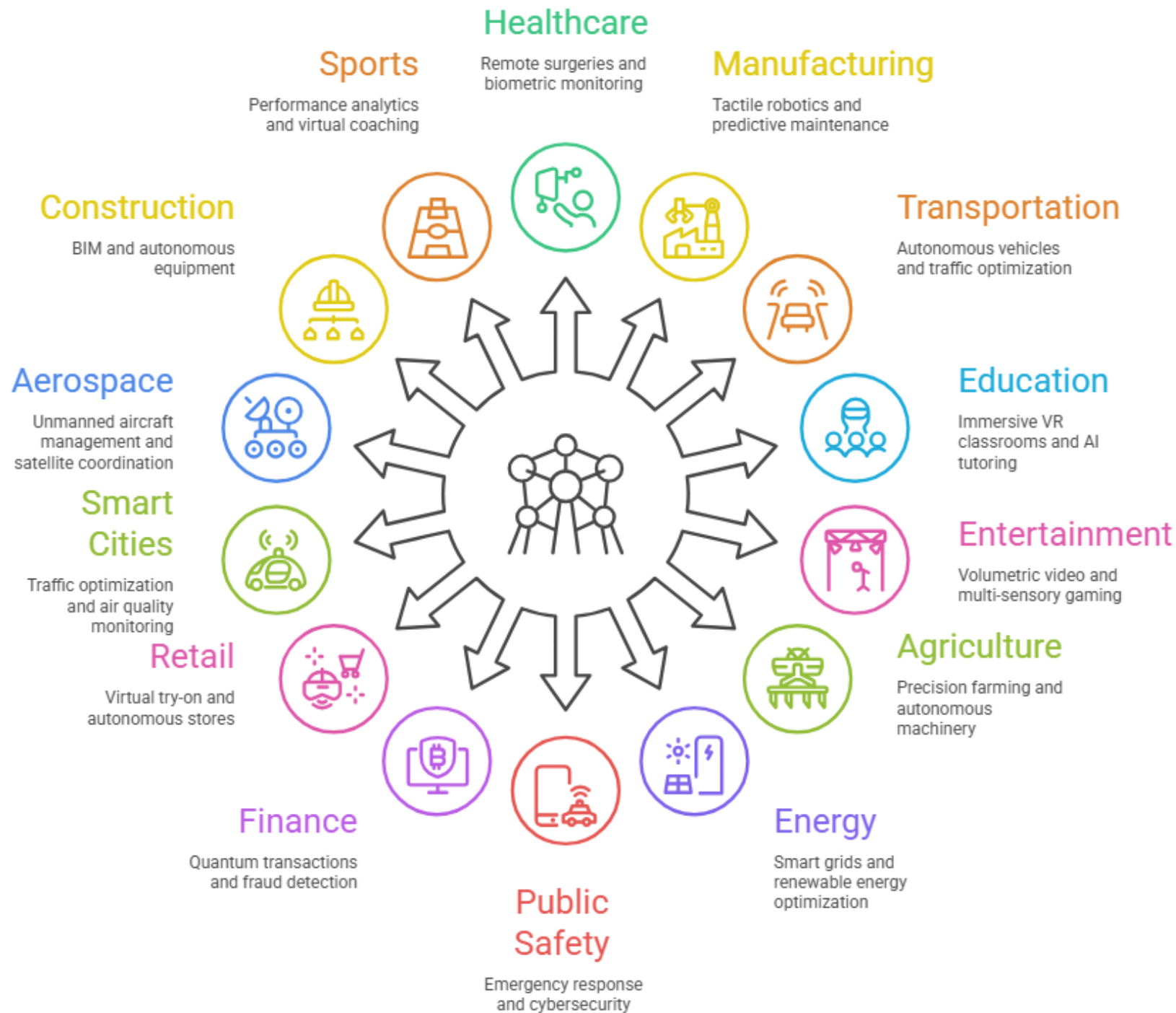
Predictive network optimization

Gesture recognition interfaces

Characteristics

Use Cases

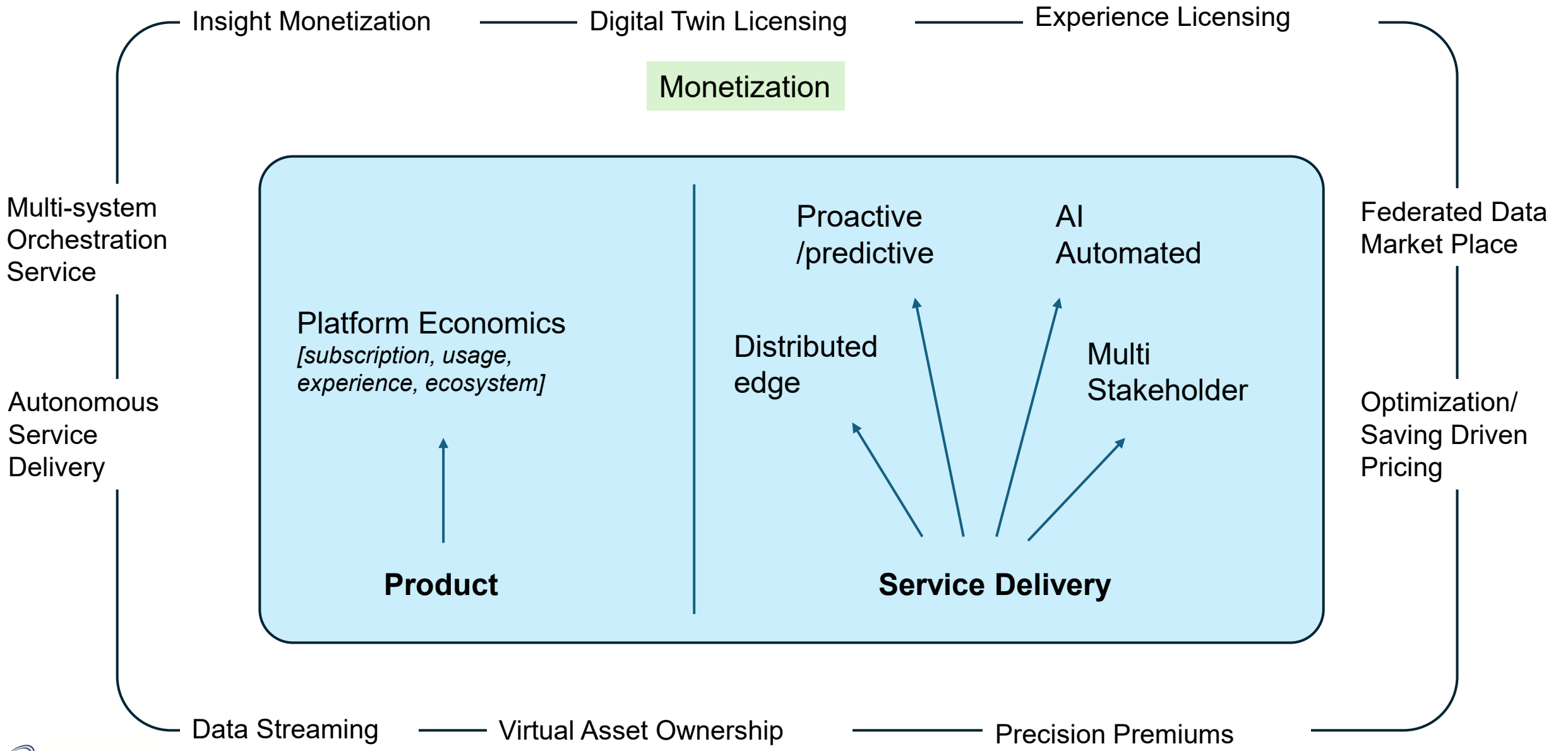
6G: Sectoral Possibilities



Instantaneous
Hyper-responsive
Ultra-reliable
Massive-scale
Precision-grade
Always-on
Seamless
Self-optimizing
Intent-driven
Gesture-controlled
Multi-modal
Ambient
Immersive
Distance-agnostic
Volumetric
Synchronized
Mesh-enabled
Satellite-integrated
Heterogeneous

A **nasscom** Initiative

Monetization



6G and Cyber Security

