

Navigating Satellite Development Trends: Strategic Opportunities for System Integrators

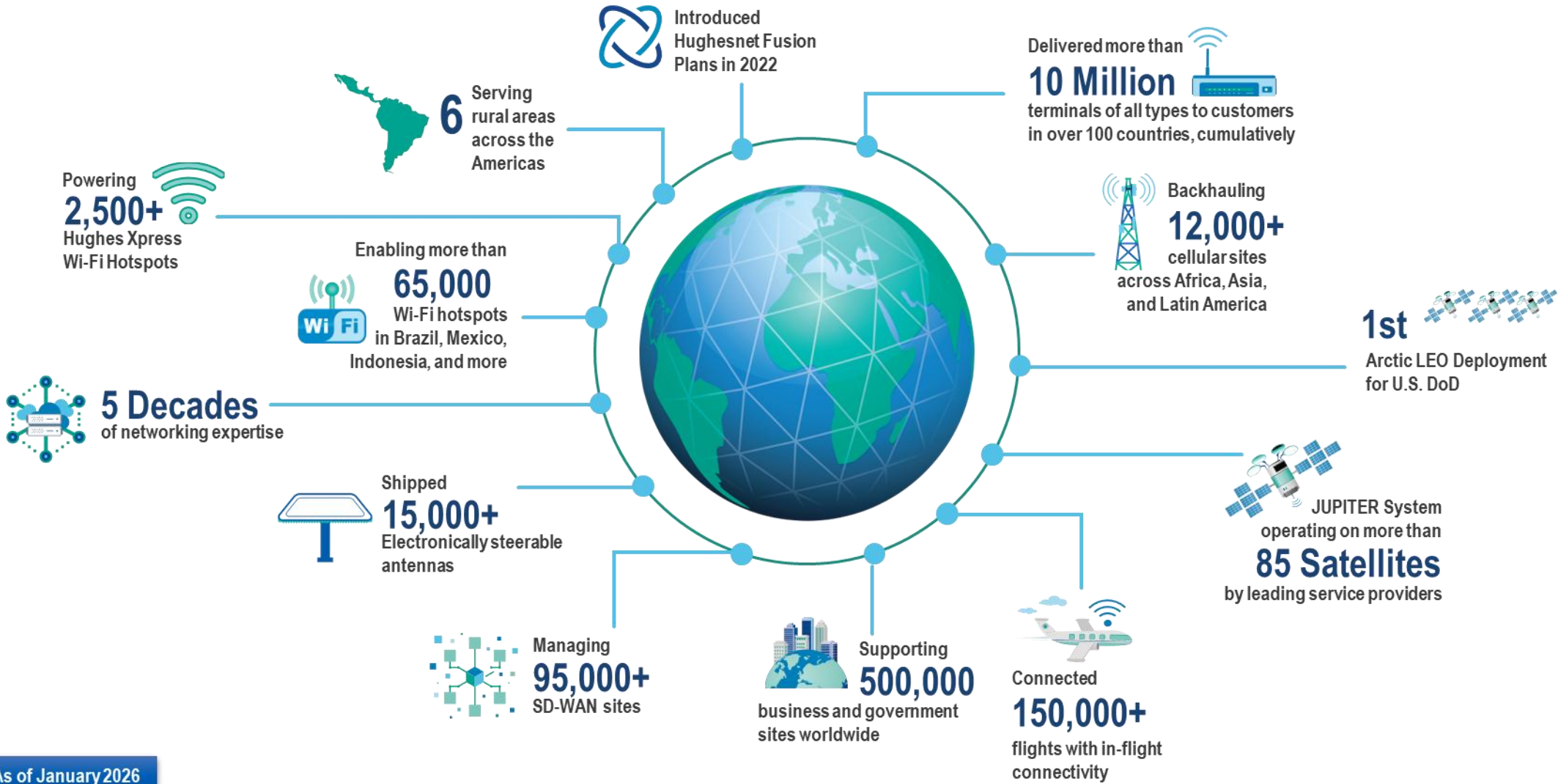
TAIWAN SATCOM FORUM 2026



Himanshu Agarwal

Associate Vice President, APAC | HNS India

State of the Business



As of January 2026

The Next SATCOM Era

The Next Satcom Era is Multi-Orbit, Multi-Domain, and Opportunity-Rich

- GEO Ka-band expansion
- MEO connectivity for MALE UAVs
- LEO for mobility (rail, maritime)
- Government push for unified management

System Integrators will make these domains work together



Global Landscape Shift

- **Satellite Connectivity Is Rapidly Transforming**
 - Multi-orbit architectures become default
 - 5G Non-Terrestrial Networks accelerating
 - Virtualized ground systems
 - Customer expectations: seamless, application-aware connectivity

Taiwan is entering this phase now



Taiwan Market Dynamics

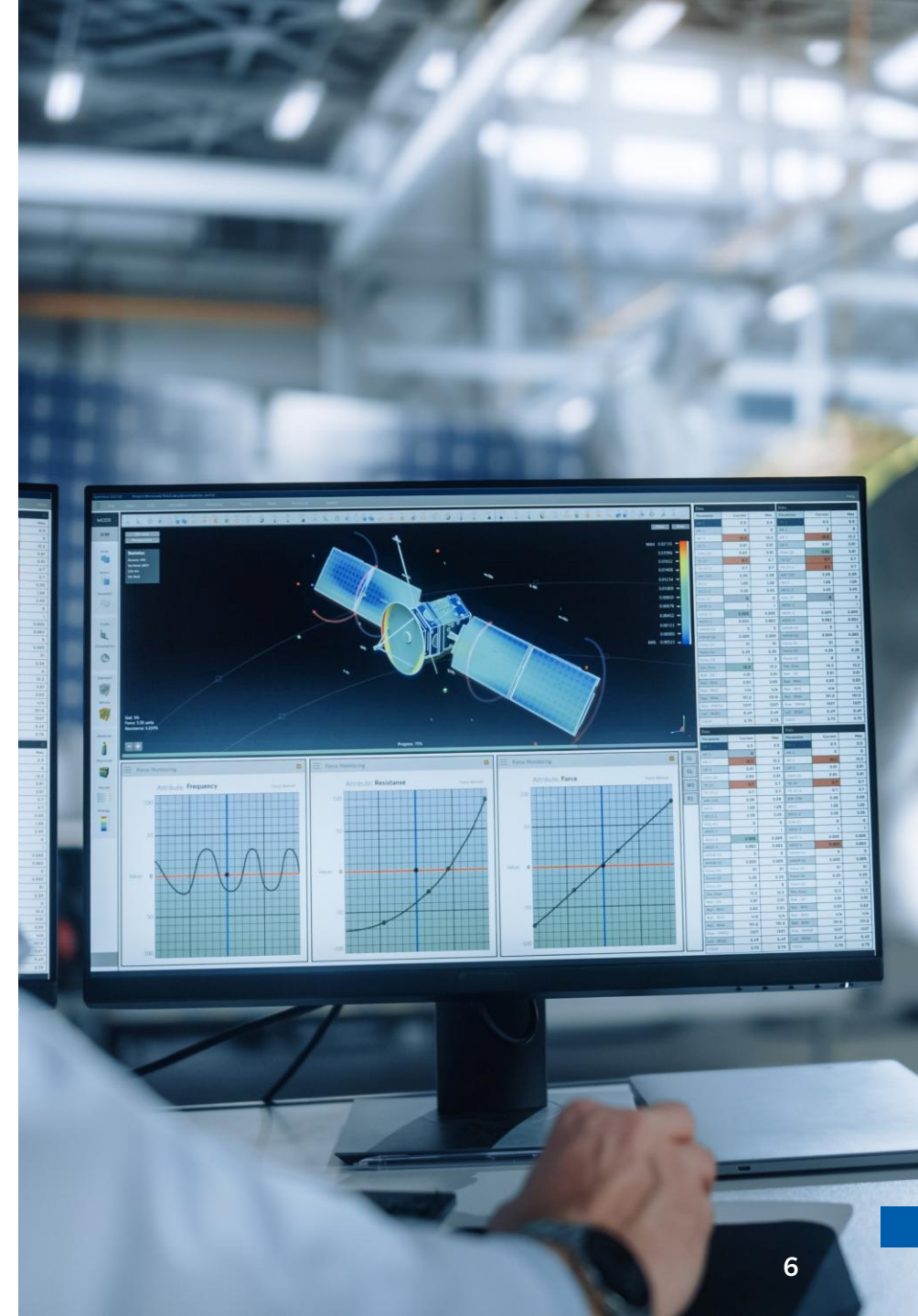
- **Four Forces Shaping Taiwan's Satcom Roadmap**
 - Availability of Capacity drive market opportunity
 - Taiwan has all 3 LEO, MEO and GEO capacities
 - Demand for resilient networks across agencies and enterprises
 - UAV's are critical assets in today's defense architecture
 - Operating them Beyond line of sight requires satellite connections
 - Hughes offers Industry proven solutions across all the 3 orbits offering different advantages
- **Mobility Digitization**
 - Demand for supporting Mobility using satellite networks

Integration & orchestration become critical



Multi-Orbit Networks

- **Multi-Orbit Hybrid Connectivity**
 - GEO + MEO + LEO convergence
 - Intelligent traffic steering & application routing
 - Mission-critical for mobility, national coverage & defense
- **Strategic Opportunity — Multi-Orbit Orchestration**
 - Integrate GEO/MEO/LEO seamlessly
 - SD-WAN/SD-SAT for application-aware routing
 - Ongoing optimization as a managed service



Software-Defined Ground

- **Software-Defined Ground & Virtualization**
 - Virtual hubs & cloud-based network functions
 - Flexible, scalable service deployment
 - Cloud management reduces OPEX
- **Strategic Opportunity — HTS Ground System Upgrades**
 - Ka-band HTS gateways needed nationwide
 - Integration of JUPITER modems, hubs & monitoring
 - Space for SIs to provide O&M and lifecycle services

Taiwan's Ka-band procurement = major System Integrator opportunity



5G NTN: Future Directions

■ Satellite as Part of 5G

- 5G NTN standards maturing
- Critical for IoT, backhaul & mobility
- Seamless integration with terrestrial ecosystems
- As Telco's look towards Autonomous Networks, satellite solutions are looking to cash in on the trend

■ Strategic Opportunity

- Rail and mobility operators exploring
- LEO for passenger connectivity
- Defense modernization increasingly reliant on UAV ISR data links
- Ka-band HTS GEO systems expanding national capacity
- Government agencies preparing for resilient 5G + satellite architectures
- Strong push for cross-domain unified network management (NMS)

Delivering fully integrated NTN architectures for rail, enterprise, defense, and public safety



Verticalized Solutions

- **Customers Want Solutions, Not Bandwidth**
 - Sector-specific architectures
 - Connectivity + analytics + cloud + security
 - Unification of multiple satellite domains
- **Strategic Opportunity**
 - Unified NMS for Government to manage GEO, LEO, MEO, and diverse ground systems

Unified NMS for all government satellite assets



What Should System Integrators Do Next?

- **Look at the strengths of the different services and look to provide solutions**
- **Develop multi-orbit (GEO/MEO/LEO) integration stacks**
- **Build vertical packages (rail, maritime, defense)**
- **Engage early on Government Unified NMS planning**



An aerial night view of a city skyline, likely New York City, with a blue overlay. The overlay features a wavy line graphic and a grid pattern. The text is centered in the upper half of the image.

Integration is the New Center of Gravity in a Multi-Orbit Satellite Future



Thank You