Accelerating C2 & Awareness from Space

Defense in Space 2024

Rory Welch | VP, Global Government

Intelsat's Global Reach

Well positioned as the world's most trusted satellite telecom network

We are one of the largest satellite capacity providers to the U.S. government

We **provide inflight internet to 21** commercial Airline Partners and nearly **3,000** Aircraft

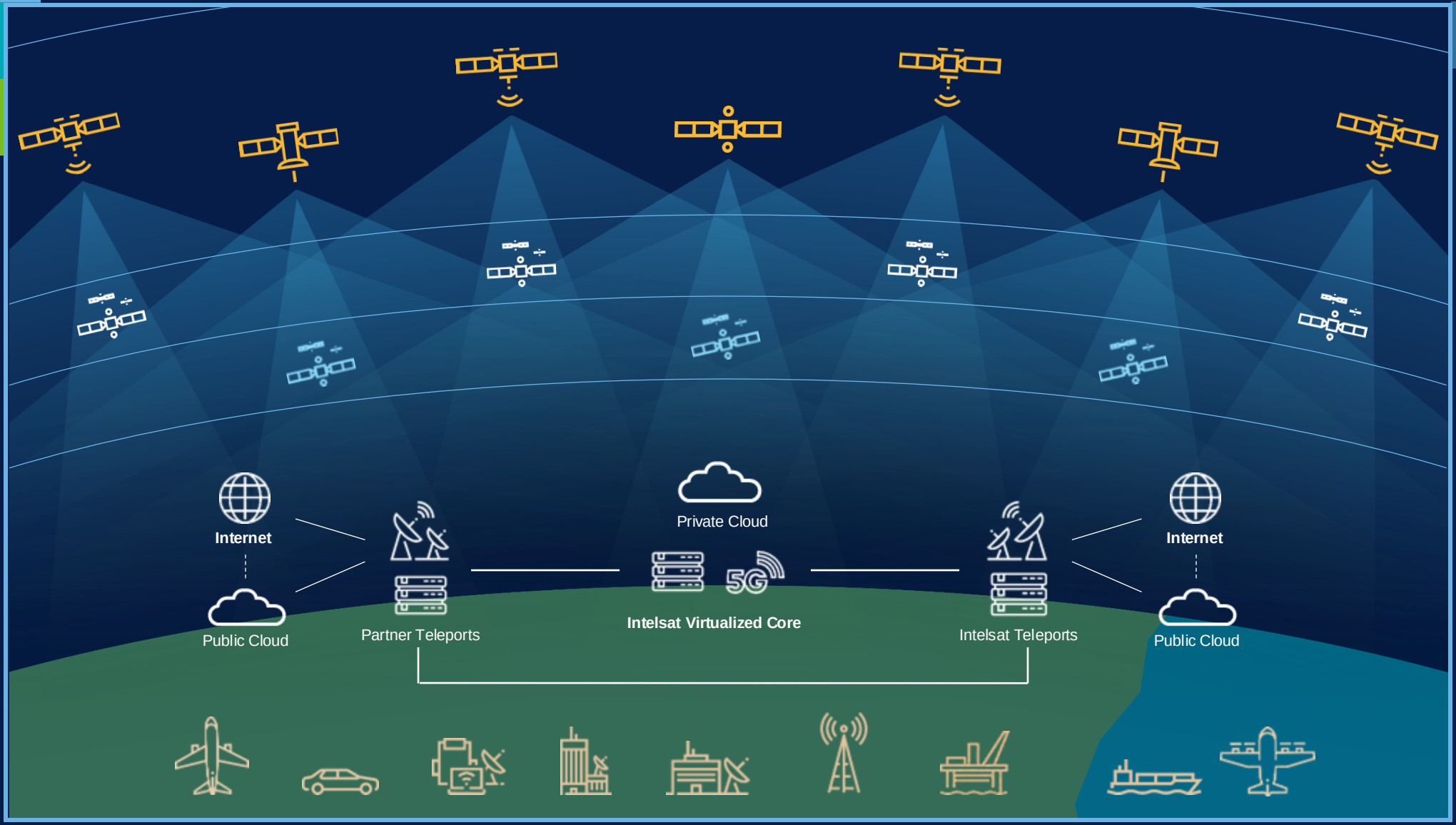
We are a leading provider of satellite bandwidth to the maritime industry

We deliver TV and radio content to **more than two billion people** worldwide

We serve 7 of the world's top 10 Mobile Network Operators

Unified Network Vision

Software-defined, multi-layer, multi-orbit 5G network of networks



Software-Defined Network

GEO
Software-Defined Satellites
Wide Beam Satellites
High-throughput Satellites
Multi-band: C, Ku, Ka, Q, and V

MEO
Under Development

LEO
Partnerships & Agreements

Software-Defined Network
Teleports
Terrestrial Fiber
Virtualized Platforms
5G Core/3GPP
OSS/BSS
Private & Public Cloud
Network & Service Orchestration

Customers
Smart Edge Terminals

Key Ingredients of Next-Gen Network

Multiple components blended to offer an unparalleled connectivity experience

Software-Defined Satellites	Multi-Orbit Connectivity	Software-Defined Network	5G – Standards Based	Smart Edge Terminals
Dynamic Capacity Driven by automated resource management Beam Shape Capacity and Power Coverage Frequencies	**Seamless Integration** Diverse connectivity solutions & resilience GEO HEO MEO LEO Terrestrial Networks	**Virtualized Network** Coud-native functions orchestrated via software Service Chains Teleports & Platforms Terminals Fiber Network OSS/BSS Private/Public Clouds	**End-to-End 5G** Leveraging new NTN standards Core Network Radio Access (NTN) Edge Terminal End-User Devices	**Empowering the Edge** To create new value Flat-panel ESAs Auto-commissioning Virtual Modems Edge Cloud Integrated Customer Apps

Software-Defined Satellites

Dynamic functionality with increased efficiency and performance

Software-defined satellites fundamentally change the game, delivering services when and where they are most needed

Dynamic Coverage

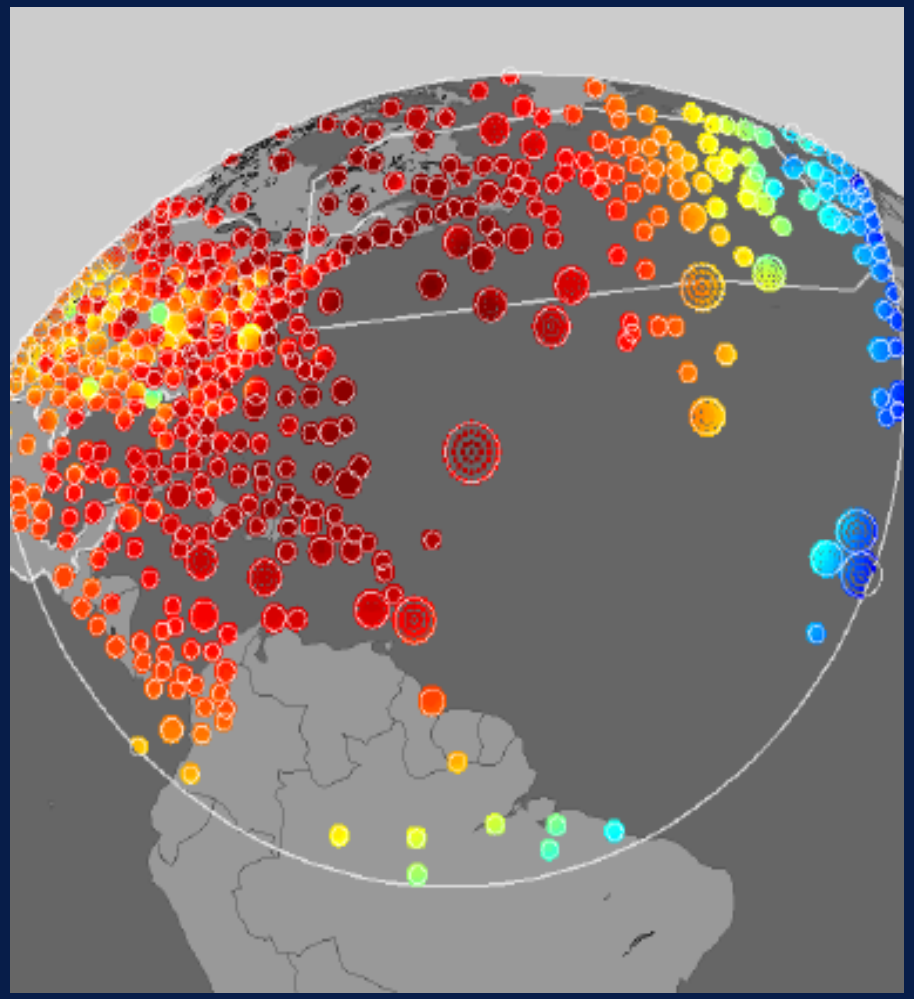
- Predictive design allocates resources where demand is likely to go
- Adapt coverage to mitigate interference & jamming
- Follow-me beams react to signals from user terminals – continuous connectivity for ships, planes, vehicles, and troops on the go

Efficiency and Performance

- Concentrates resources where usage high – smarter than allocation across regions
- Eliminates waste and improves economics

Complimentary Connectivity to Other Networks

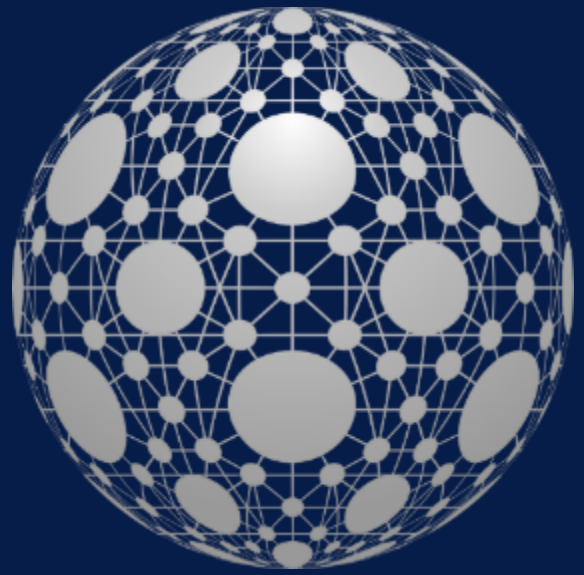
- Seamless orchestration & roaming across satellite & ground networks for optimal access



Unified Global Ecosystem

Will optimize performance, maximize value, and accelerate connectivity

- **Best performance** – capacity, coverage and cost – everywhere
- **Continuous improvement of the network** through deployment of new technologies
- Integration of GEO / MEO / LEO for the **best mix of capacity, cost, latency, and diversity**
- **Matching bandwidth density to predicted demand** while ensuring redundancy and resiliency
- **Cross-network user roaming** and integration with partners via 5G
- Unified ecosystem aligned together in service of enabling **seamless access to broadband services and content**



https://www.intelsat.com/