

meoSphere™: Built for What's Next

A flexible, multi-mission Medium Earth Orbit architecture engineered for the future of global connectivity, security, and in-space operations.

“meoSphere is being designed as a multi-mission network that adapts to customer needs—from aircraft and maritime connectivity to sovereign networking, optical relay, and on-orbit payloads.”

Carmel Ortiz,
SVP, MEO Programs



What Is meoSphere?

meoSphere is SES's next generation Medium Earth Orbit network—a scalable, multi-mission architecture built to deliver resilient connectivity, advanced in-space services, and mission flexibility across air, land, sea, and space.

- Agile, iterative spacecraft and network design
- Supports traditional connectivity + emerging space-based applications
- Built to evolve with mission requirements

Why meoSphere matters

meoSphere expands what's possible in space, going beyond connectivity to unlock new mission capabilities enabled by a modular, multi-mission architecture. meoSphere supports increasingly complex commercial and government missions and advances new use cases including:

- In-space data relay & optical links
- Edge processing and on-orbit data storage
- Hosted payloads for mission-specific applications
- Dedicated sovereign networks
- Space situational awareness (SSA)
- Satellite Ultra-High Frequency



Key meoSphere capabilities

Flexible, high-performance connectivity

meoSphere combines broadband connectivity with the ability to host additional payloads that enable new mission capabilities.

Optical links for rapid, secure data movement

By enabling satellites to communicate directly with each other, optical intersatellite links boost network resilience and deliver fast data relay for applications like Earth observation and direct-to-device services.

Iterative, progressive development

Built using a phased, continuously evolving development model to ensure the network rapidly adapts to changing mission needs and technology advances.

On-orbit compute & storage

On-orbit compute and storage let

satellites process and store data in space, enabling AI-driven analytics, faster insights, and less reliance on ground infrastructure.

Small, cost-effective terminals

Smaller terminals make it easier and more affordable for customers to deploy meoSphere anywhere their missions take them.

Multi-orbit (GEO, MEO, and LEO), 5G and cloud-integrated architecture

Multi-orbit by design and powered by 5G and cloud, delivering orchestrated, high-performance connectivity from core to edge.

Best-in-class managed services

Simplify complex multi-orbit operations through a single trusted partner.

Global virtualized gateways

Software-defined gateways, orchestrated globally for resilience and control.



Learn more about our purpose-built satellite and connectivity solutions at [ses.com](https://www.ses.com)

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Partnering with NewSpace innovators

SES partners with an ecosystem of agile NewSpace innovators—from next-gen launch providers to advanced satellite manufacturers—to

accelerate meoSphere's development, tighten supply chain control, compress build timelines, and expand mission possibilities for customers.