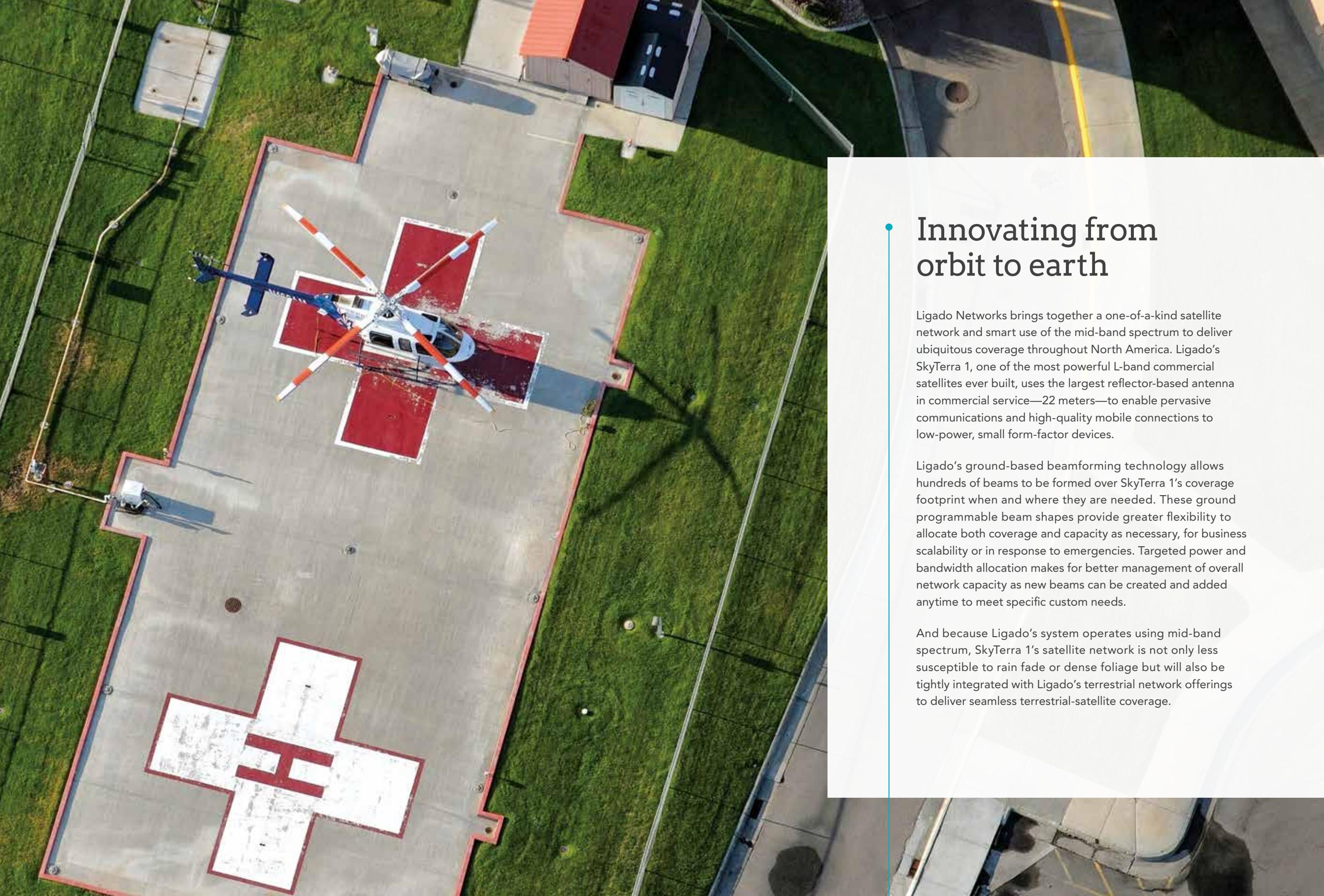




Covering North America

What Ligado's Satellite Network Can Do for You



Innovating from orbit to earth

Ligado Networks brings together a one-of-a-kind satellite network and smart use of the mid-band spectrum to deliver ubiquitous coverage throughout North America. Ligado's SkyTerra 1, one of the most powerful L-band commercial satellites ever built, uses the largest reflector-based antenna in commercial service—22 meters—to enable pervasive communications and high-quality mobile connections to low-power, small form-factor devices.

Ligado's ground-based beamforming technology allows hundreds of beams to be formed over SkyTerra 1's coverage footprint when and where they are needed. These ground programmable beam shapes provide greater flexibility to allocate both coverage and capacity as necessary, for business scalability or in response to emergencies. Targeted power and bandwidth allocation makes for better management of overall network capacity as new beams can be created and added anytime to meet specific custom needs.

And because Ligado's system operates using mid-band spectrum, SkyTerra 1's satellite network is not only less susceptible to rain fade or dense foliage but will also be tightly integrated with Ligado's terrestrial network offerings to deliver seamless terrestrial-satellite coverage.



Ligado Offers a Flexible and Robust Range of Traditional and Emerging Mobile Satellite Services

KEEP AN OPEN LIFELINE WITH VOICE SOLUTIONS

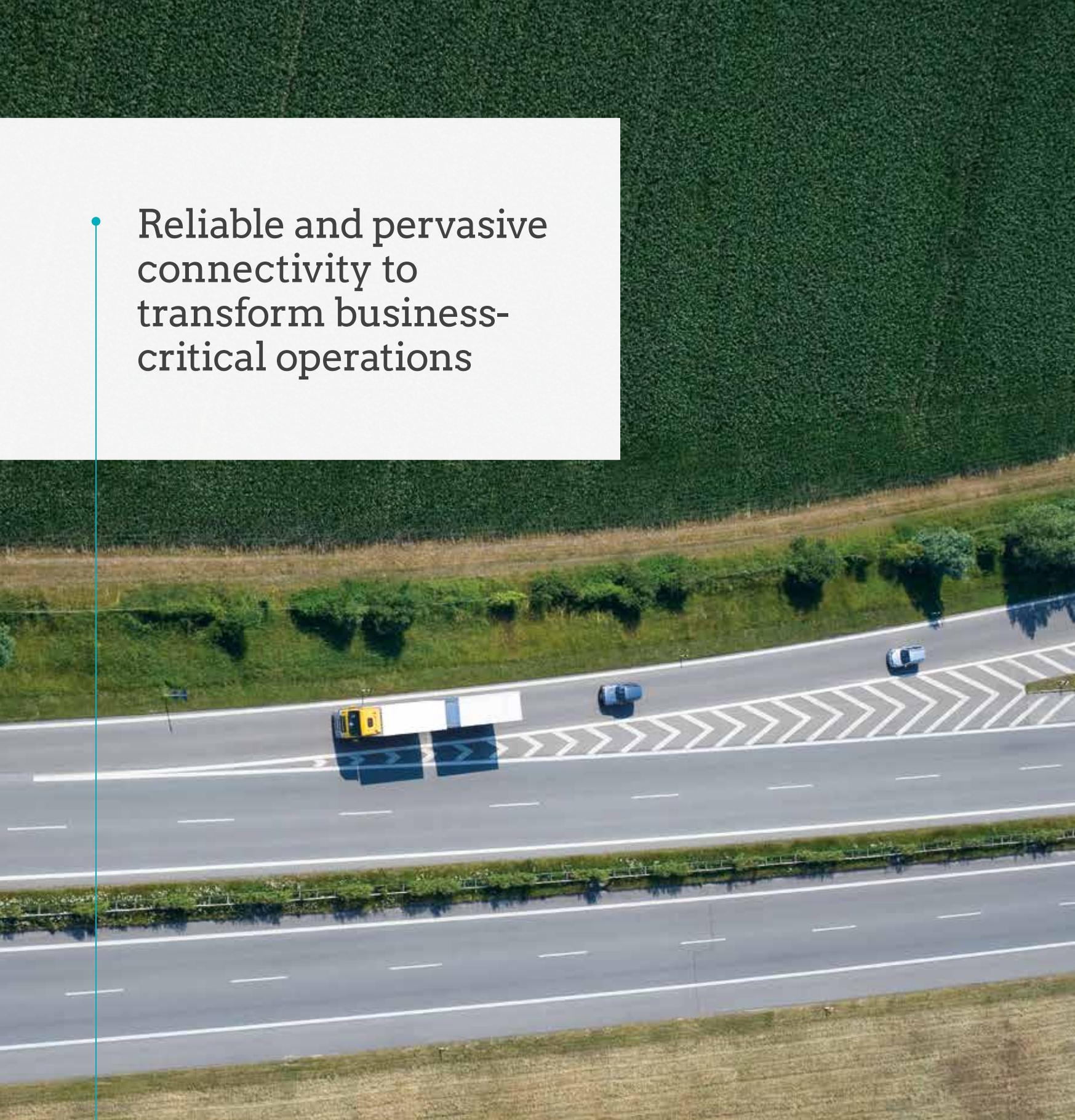
Secure, interoperable Mission Critical Push-to-Talk and Telephony Voice services can help protect lives, with solutions for:

- Emergency First Responders and Law Enforcement Agencies during emergencies and in disaster recovery situations
- Public Safety officials from various departments and agencies across the United States via access to national and regional SMART Talk Groups
- Mobile workers who require voice connectivity outside terrestrial network coverage for safety purposes and efficiency of operation
- Fixed and rotary wing aircraft pilots and ground-based personnel to improve safety and coordination

MANAGE ALL THE MOVING PARTS WITH DATA SOLUTIONS

Data solutions enable real-time location-based services and remote monitoring and management of fixed and mobile assets, providing visibility into critical areas of an organization's operation. Low-latency, secure data communications include:

- Mobile asset tracking
- Fleet management and telematics
- Supervisory Control and Data Acquisition (SCADA)
- Oil, gas, and water pipeline flow monitoring
- Power distribution and transmission monitoring



Reliable and pervasive connectivity to transform business-critical operations

UBIQUITOUS AND COST-EFFECTIVE HIGH PRECISION LOCATION

With its technology partners, Ligado Networks is developing a carrier-grade High-Precision Location service that will tightly integrate satellite connectivity with a North American correction data system to enable high-precision, next generation Industrial IoT applications at lower costs.

UNMANNED AND UNDER CONTROL

SkyTerra 1 satellite's ability to connect to small, low-power mobile terminals can enable greater use of unmanned systems. SkyTerra 1's L-band connectivity allows for reliable Command Non-Payload Communications (CNPC) for safe Beyond Visual Line of Sight (BVLOS) operations. This long-range command and control enhances:

- Track inspection for rail carriers
- Pipeline and infrastructure monitoring
- Hazmat and rescue operations for first responders
- Surveying for agriculture

EXTEND RELIABILITY TO REMOTE AREAS

Ligado's mobile satellite services can extend the reach and improve the reliability of connected device ecosystems, known as the Internet of Things. Ubiquitous mobile IP-based connectivity and end-to-end security provide reliable and resilient communication.

Ligado's upcoming suite of services, called Custom Private Networks, will offer network solutions designed around specific use cases and physical requirements. This unique approach will optimize network performance while customers retain flexibility and control.

Coverage over North America on one of the most powerful L-band commercial satellites ever built



SKYTERRA 1 FEATURES

- State-of-the-art capabilities, including ground-based beamforming and targeted bandwidth resource allocations enabling greater flexibility in network capacity management
- Ideal for pervasive connectivity to small, fixed and mobile devices
- Unicast, multicast and broadcast capabilities
- Serving mission critical industries with voice, PTT and IoT applications

Ligado's satellite network can accelerate top-line and bottom-line performance

AVIATION

Enabling more precise routes and reliable communications for both fixed-wing and rotary aircraft through enhanced telemetry and mission-critical voice services

COMMERCIAL TRANSPORTATION

Supporting asset tracking, real-time location needs, enhanced safety and operational efficiency, even in 'dark' territories, for trucking companies and rail carriers

UTILITIES

Extending digital connectivity across service areas for safe, efficient coordination of key personnel and services. Safer and faster inspection of power lines and pipelines thanks to Unmanned Aircraft Systems operating beyond visual line of sight is also on the horizon

PUBLIC SAFETY

Simplifying operations and coordinating across agencies and missions through resilient and robust voice communications and enhanced situational awareness

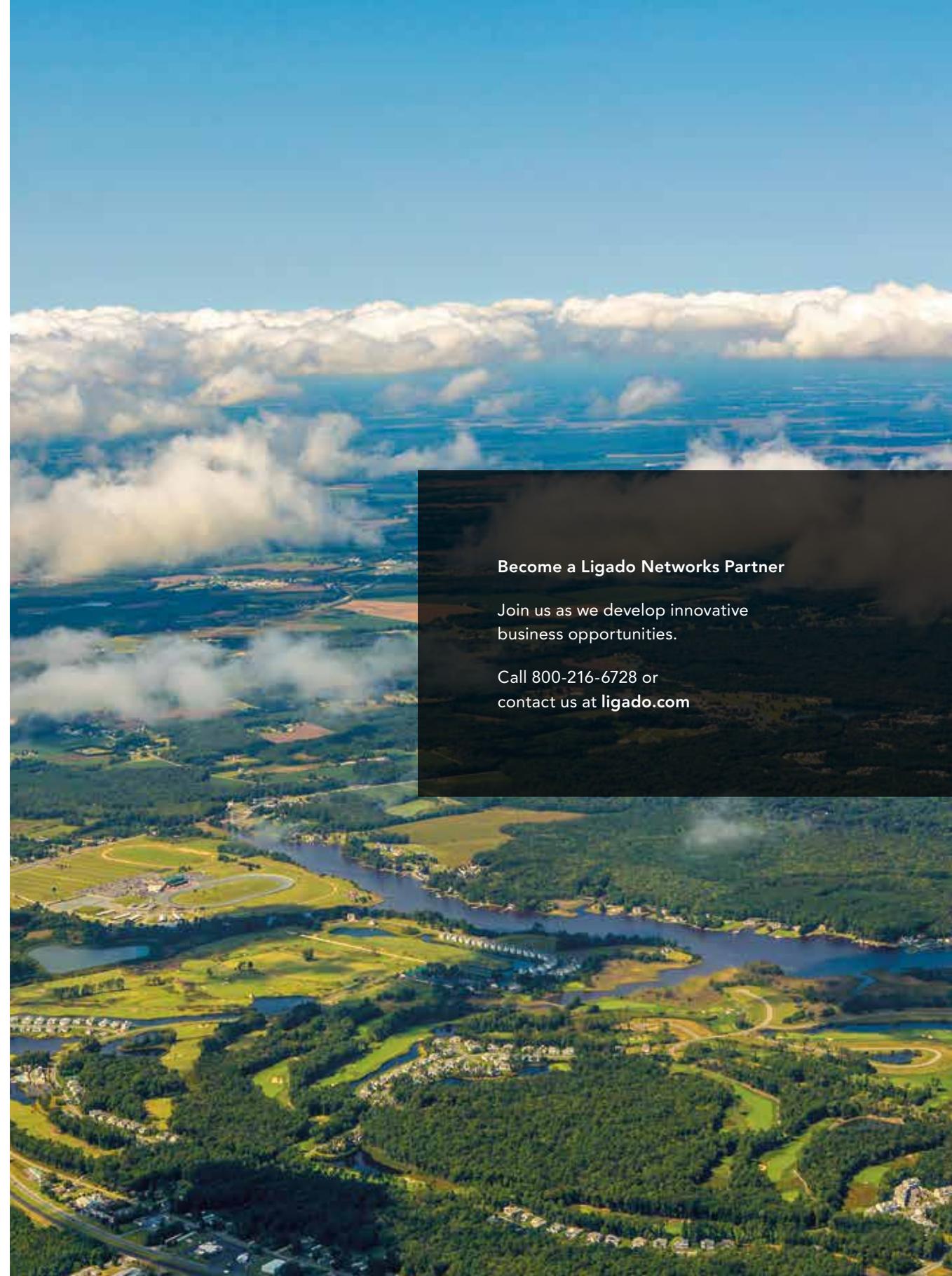
NATURAL RESOURCES AND AGRICULTURE

Guaranteed coverage and high precision, pinpoint-location accuracy in remote areas such as expansive croplands, large mines oil fields for unmanned inspection and monitoring, and automated equipment

Become a Ligado Networks Partner

Join us as we develop innovative business opportunities.

Call 800-216-6728 or contact us at ligado.com





ligado.com