

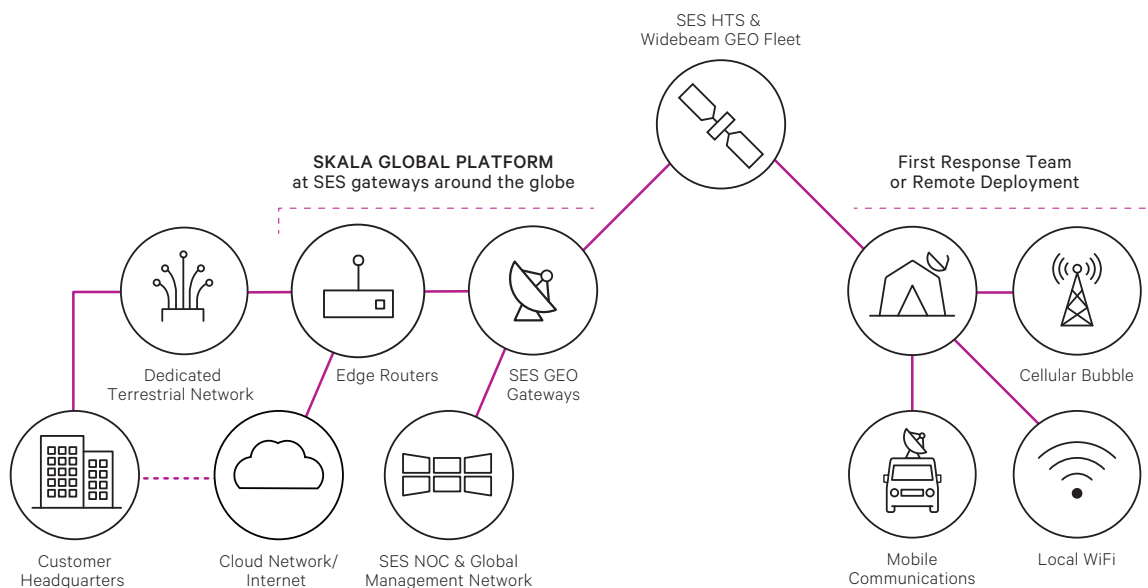
# EMERGENCY RESPONSE FROM SPACE

## CRISIS RECOVERY SOLUTIONS

After the initial response to a crisis, recovery teams depend on access to stable communication networks for days, weeks, or months at a time. Satellite networks provide reliable communication lines so recovery teams and humanitarian workers can immediately begin restoring local operations in disaster-affected communities.

### HIGH THROUGHPUT SATELLITE (HTS)

HTS delivers drastically increased throughputs, better link optimization and performance. The HTS combines frequency reuse with blanket juxtaposition of high-power spot beams over a geographic area allowing the user to transmit and receive more data than a standard ku-band wide beam. The increased performance of the link allows for smaller antennas to be used, which is key for disaster response and recovery.



### DISASTER RESPONSE IN ACTION

SES Government Solutions responded to a quick turn request to provide a high-throughput communication solution to a remote site. The parameters required resilient low-cost hardware that could be deployed on-site in less than 24 hours.

#### Remote Antenna kit:

1.8m with antenna non-penetrating mount, 16-Watt BUC, full range LNB.

#### Teleport:

The SES-15 HTS East Coast gateway, 13.2m antenna, was utilized in this scenario.

#### Throughput:

The link held for two days at 347Mbps (forward) x 50 Mbps (return).\*

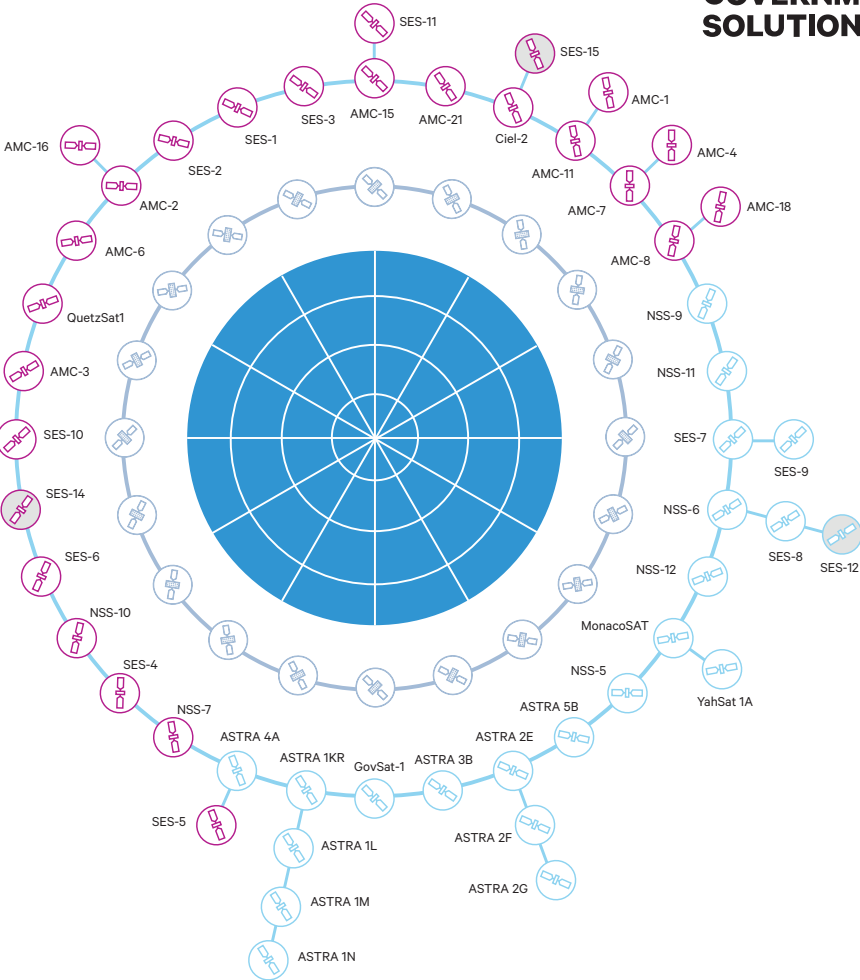
\*The remote modem limited the return throughput, higher return throughputs are easily achievable.

# SES FLEET MAP

Anywhere you go, satellites can offer coverage for communications.



- In Orbit**
- In Orbit GEO HTS Satellite** (High-throughput satellites)
- MEO HTS Satellite** (Low latency, high throughput satellites)
- U.S. Coverage**
- U.S. Coverage GEO HTS Satellite** (High-throughput satellites)
- Geostationary Orbit** (36,000 km from Earth)
- Medium Earth Orbit** (8,000 km from Earth)



## RELIABILITY

Our Humanitarian Assistance & Disaster Response Solutions deliver high-quality, and highly reliable service that supports mission critical communications before, during, and after crises happen. Portable, quick-deploy connectivity enables faster intervention in disaster-prone areas, with managed end-to-end network services tailored to the needs of disaster response users in preparedness, response, and recovery scenarios.

## HTS DATA RATES

MAXIMUM	
FWD	RTN
1	.256
2	.512
4	1
10	2
15	2
20	2
25	2

IP data rate per site in Mbps

## SES – 15 | 129° W | HTS BEAMS

