

Disaster Management

Large scale, distributed sensor networks for disaster warning systems are currently limited by cost constraints and availability of reliable network connectivity in remote regions.

After disaster strikes, critical telecommunications infrastructure is often the first thing to go offline due to power loss or physical damage, making satellite communications the only reliable channel.



Skylo's ubiquitous network takes the guesswork out of disaster preparedness and response

Skylo Technologies has architected a reliable, secure, and cost-effective platform that enables large-scale deployment of remote sensor networks and satellite connectivity to deliver real-time alerts and actionable information for disaster preparedness and response.



An affordable network of environmental sensors that alerts responders before disaster strikes.

A reliable communications fabric for crisis management after disaster strikes.

Example Disaster Sensors



Wildfire Detection

Infrared sensors detect high heat signatures, while air quality sensors detect fine particulate matter, carbon dioxide, carbon monoxide, and ozone.

Real-time alerts when wildfire activity is sensed.



Tsunami Detection

Ocean floor pressure sensors and sea-surface height detectors.

Real-time alerts of tsunami activity and underwater earthquakes.



Earthquake Detection

Remote seismometers detect earth vibrations indicative of an earthquake.

Real-time earthquake alerts in remote areas.



Flood Detection

Float sensors detect rising waters and dangerous levels.

High water warnings to enable evacuation ahead of flooding.



Comms & Location Beacon

Pair a bluetooth-capable smartphone to Skylo hub to enable messaging and emergency location beacon.

Location and messaging services to help address critical disaster recovery needs.

Solution Details

- Cost-effective satellite hub for narrowband remote sensor applications.
- Edge analytics and real-time alerts identify impending disasters and notify emergency services.
- 2-way messaging between local and remote support and recovery teams.
- Ruggedized IP67-compliant hubs support land and water-based applications.
- Flexible connectivity for a wide range of wired and wireless sensors.
- Solar-powered hub and sensor operation paired with battery backup or direct power.
- Multiple layers of security:
 - Link layer 128-bit AES encryption to protect all data.
 - Optional public/private key sharing to support 128/256-bit AES encryption.



HUB



NETWORK



PLATFORM

Ready to connect your business?

If you're interested in being part of the future of connectivity for the Internet of Things, then our team in the USA and India are waiting to hear from you.

Email us at:

info@skylo.tech

Find out more at:

www.skylo.tech