

Innothon'24

TITLE PAGE

- **Problem Statement ID – 14**
- **Problem Statement Title- “Real-Time Disaster Information Aggregation Software”**
- **Theme- “Smart Emergency Response via Connectivity”**
- **Team Name (Registered on portal)- “NET-WORKERS”**

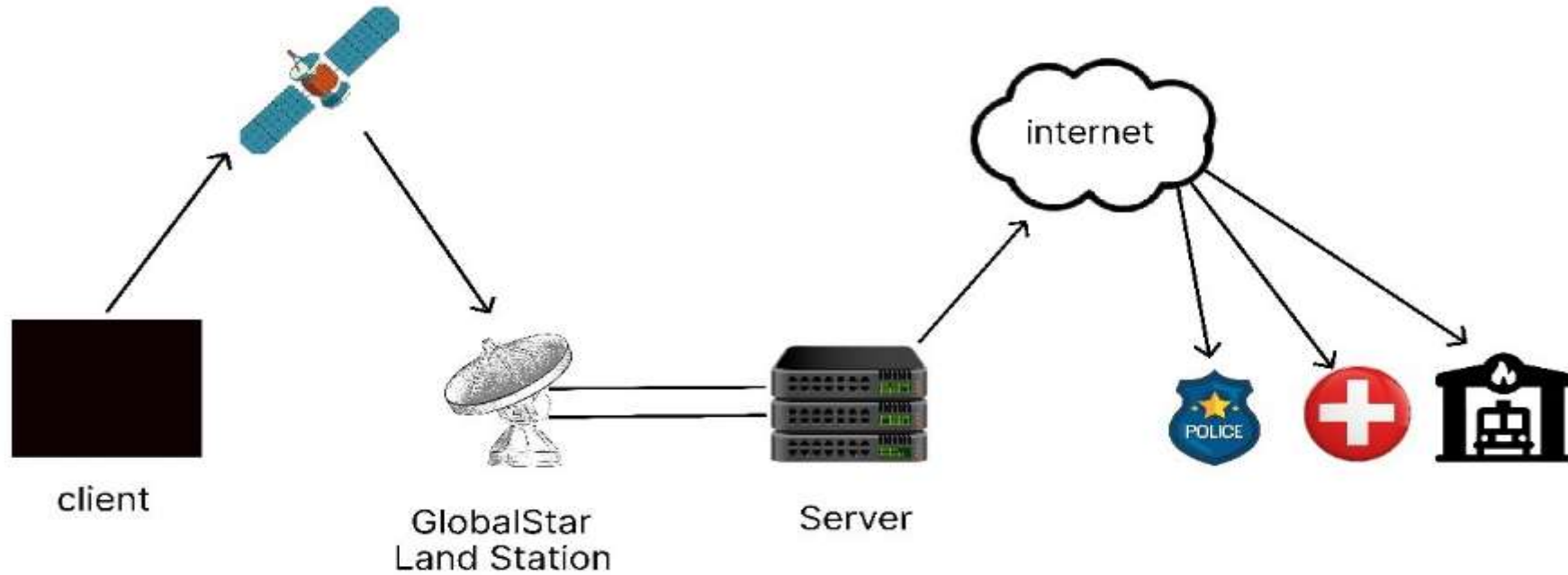
IDEA TITLE

❖ Proposed Solution

- Accident-prone areas with limited or no cellular coverage, timely rescue operations face significant challenges due to the lack of reliable communication infrastructure.
- Approaches include the deployment of mesh networks using satellite communication for remote data transmission, and the use of wireless sensor networks for real-time location tracking of victims and responding with nearby emergency services to rescue them.

TECHNICAL APPROACH

NET-
WORKERS



FEASIBILITY AND VIABILITY

NET-
WORKERS

- Non-satellite systems are feasible in urban areas using cellular, IoT, and V2V technologies. They're cost-effective but less viable in remote regions due to limited network coverage and infrastructure challenges.
- To overcome the limitations of non-satellite emergency systems in remote areas, a hybrid approach can be employed using
 - Mesh Networks
 - Offline Capabilities
 - Dual Network Support

IMPACT AND BENEFITS

NET-
WORKERS

Impact

1. Rapid Incident Detection
2. Real-Time Communication
3. Increased Survival Rates
4. Community Preparedness

Benefits

1. Scalability
2. Interoperability
3. Data Collection and Analysis
4. Support for Remote Areas

RESEARCH AND REFERENCES

NET-
WORKERS

- Global Star Network
- Google Maps Platform – [Google Maps Platform](#)
- Twilio – [Twilio](#)
- Apple emergency SOS
- 112 Emergency service