

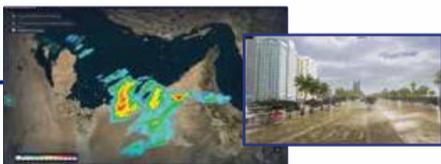


Gold Data Analytics
Gold Data Platform
Gold Cloud Platform
Gold Application Integration

GIQ establishes a unified global gateway for disaster management

During the 2024 UAE rainstorms, glQ played a critical role in providing end-to-end geospatial intelligence for preparation, real-time response, and recovery. Leveraging data sources such as SAR and optical satellite

imagery, CCTV cameras, etc., glQ utilized advanced AI capabilities and weather simulations to predict, monitor, and assess the event effectively.



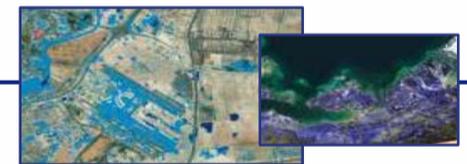
Before the event

Anticipate and mitigate risks



During the event

Coordinate response efforts



After the event

Allocate resources and monitor recovery progress

Stakeholders



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GIQ application for Abu Dhabi Emergencies, Crises and Disasters Management Center

Customer challenges

- Limited Early Warning Systems: Lack of accurate simulations for predicting weather patterns and identifying areas at risk
- Delayed Response During Disasters: Difficulty detecting floods in real time, leading to slower emergency responses
- Post-Event Assessment and Prioritization: Manual assessment processes delayed the identification of affected areas
- Data Integration Gaps: The need to combine various data sources into a unified platform for effective decision-making

Partner solution

- Pre-event preparation: Predicted rainstorms using GIQ's forecasts and modeled impacts with digital twin simulation
- Real-time response: Detected floods using CCTV and satellite imagery to enhance emergency responses
- Post-event recovery: Updated satellite mapping every 6-8 hours and utilized AI analytics for recovery planning

Customer benefits

- Enhanced preparedness: Advanced simulations and digital twin modeling for early insights
- Real-time flood monitoring: AI and satellite imagery enabled immediate flood detection
- Faster post-event assessments: Quick satellite updates and AI analytics expedited damage evaluation
- Integrated decision-making: Unified data from CCTV, IoT, and reports enabled cohesive, data-driven management

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