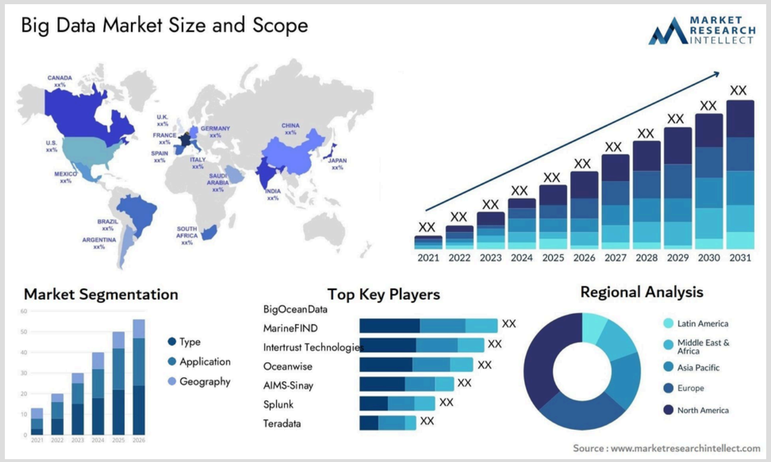
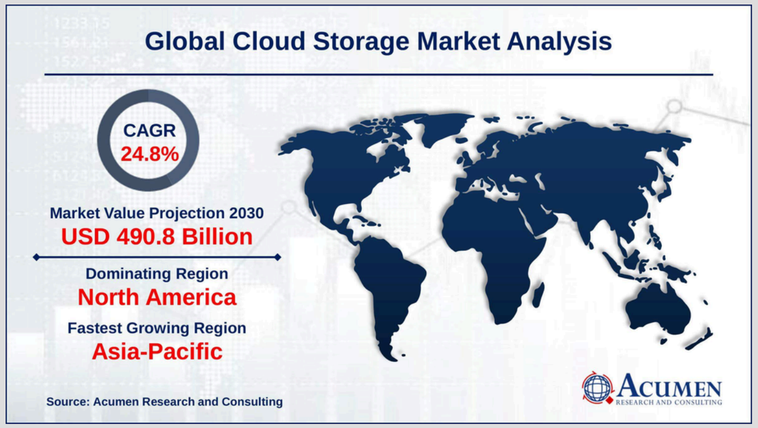
GEOGRAPHICAL DATA STORAGE ISSUE





01 LARGE STORAGE REQUIREMENTS

🔹 ISSUE: MASSIVE GEOSPATIAL DATA LEADS TO HIGH COSTS & INEFFICIENCY.

✅ SOLUTION: CLOUD-BASED GIS STORAGE (GOOGLE EARTH ENGINE, AWS S3) + DATA COMPRESSION (TILING, INDEXING).

Amazon S3

Google Earth Engine

02 DATA ACCURACY & INTEGRITY

🔹 ISSUE: OUTDATED, REDUNDANT, OR INCORRECT MAPS CAUSE ERRORS.

✅ SOLUTION: AI-DRIVEN VALIDATION & AUTOMATED ERROR DETECTION FOR DATA CONSISTENCY.

03 PRIVACY & SECURITY CONCERNS

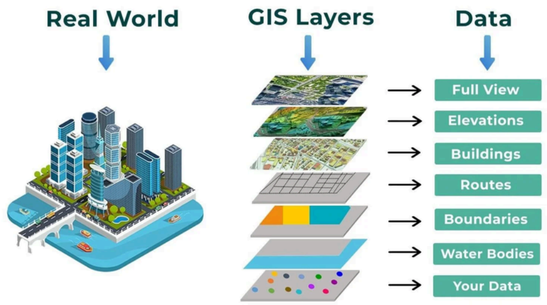
🔹 Issue: Unauthorized access to sensitive geospatial data.

✅ Solution: End-to-end encryption, RBAC, & blockchain-based security.

04 GIS SYSTEM COMPATIBILITY

🔹 Issue: Different GIS platforms use incompatible formats.

✅ Solution: Standardized formats (GeoJSON, KML, Shapefiles) & open-source tools.



05 DATA LOSS FROM DISASTERS

🔹 Issue: Servers storing critical geospatial data can be destroyed.

✅ Solution: Geo-redundant storage (GRS) for multi-location backups.

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