



# Turn Location Data Into Real-Time Risk Intelligence with AI

## About Solution (Insurance Risk Analysis):

Cyient turns fragmented location and risk data into actionable intelligence by combining Microsoft Fabric, Esri GeoAnalytics, and Copilot Agent on a single, governed Azure platform—built for insurance, utilities, logistics, and public safety.

## What we offer

A unified solution that ingests, analyzes, and visualizes location-rich data—built on Microsoft Fabric Lakehouse, Esri GeoAnalytics Engine, and a Copilot Agent for natural-language insight.

Spark notebooks in Fabric ingest data from FEMA, NWS, and Overture Maps into a Lakehouse, where GeoAnalytics runs spatial joins and risk scoring directly on the data—no movement, no duplication.

Results publish as hosted feature layers to ArcGIS Online, powering an interactive web app with national-to-address drill-down, risk-tier filtering, and hazard-focus switching.

The solution is built fully on Azure and Microsoft Fabric, giving customers a governed, scalable foundation that extends easily to new industries and data sources.

## What our partners are saying

“The Fabric and GeoAnalytics solution gave our underwriting team address-level risk visibility we never had before, and the Copilot Agent means analysts get answers in seconds instead of running manual queries.”

– Director of Underwriting Operations, ESRI

# Why Fabric + GeoAnalytics?

## Unified data and geospatial intelligence

Microsoft Fabric brings every data source required for **Insurance Risk Analysis** like FEMA risk indices, weather feeds, Overture Maps—into a single Lakehouse, eliminating silos between IT data and GIS data.

Esri GeoAnalytics runs spatial joins and risk scoring directly on that data, so location intelligence and enterprise analytics finally live on one platform.

## Spatial analysis at scale, without data movement

Spark notebooks handle ingestion at scale, while GeoAnalytics executes point-in-polygon joins and density aggregations directly inside the Lakehouse—no exporting data to a separate GIS server.

Tract-level composite risk scores across thousands of locations refresh on the same cadence as your enterprise data pipeline.

## AI-powered, conversational access to insights

A Copilot Agent, built on Copilot Studio, sits on top of published ArcGIS feature services and answers plain-language questions like “why is flood risk high here?”—no SQL or GIS tools required.

Every response is grounded in live Feature Layer queries, so answers stay accurate as risk data updates—no stale or hallucinated results.

## From analysis to action — powered by ArcGIS Server and Maps SDK

Enriched risk outputs publish as hosted feature services on ArcGIS Server, making every spatial dataset instantly consumable across web, mobile, and enterprise GIS environments without rebuilding data connections.

The ArcGIS Maps SDK then brings those services to life in a purpose-built web application — delivering national-to-address drill-down, risk-tier filtering, and hazard-focus switching

## A reusable architecture across industries

The same Fabric-to-GeoAnalytics-to-Copilot pipeline built for insurance risk scoring extends to utility, logistics, and public-sector use cases—only the datasets and models change.



## CYIENT

Cyient brings over three decades of geospatial engineering experience combined with deep capability across Microsoft Fabric, ArcGIS, and AI platforms — making us uniquely positioned to deliver this solution end to end. Our certified engineers bridge the gap between enterprise data engineering and GIS, designing Lakehouse pipelines, running GeoAnalytics at scale, publishing authoritative feature services, and embedding conversational AI — all as a single integrated engagement. Across insurance, utilities, logistics, and public sector, Cyient turns location data into decisions that matter

Learn more at  
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