



Distribution Integrity Management of Pipelines for major gas distribution utility in USA

CLIENT

Major Gas Distribution Utility in USA

INDUSTRY

Energy & Utilities

COUNTRY USA

THE BUSINESS PROBLEM

When the United States Department of Transportation (DOT) released a regulatory change for Integrity Management of Gas Distribution Pipelines, it required all gas distribution providers to identify the characteristics of the pipeline's design, operations and the environmental factors that are necessary to assess the applicable threats and risks involved. The complexity of assessing the disparate datasets required to define risk for each category presented a problem that required a geographic information system (GIS)

SOLUTION

In order to ensure complete compliance with the United States regulations, a 'Distributed Integrity Management of Pipelines' (DIMP) was developed. It was ensured to identify risks like Corrosion, material, weld & joint failures, Excavations, Incorrect operations, Natural and outside forces.

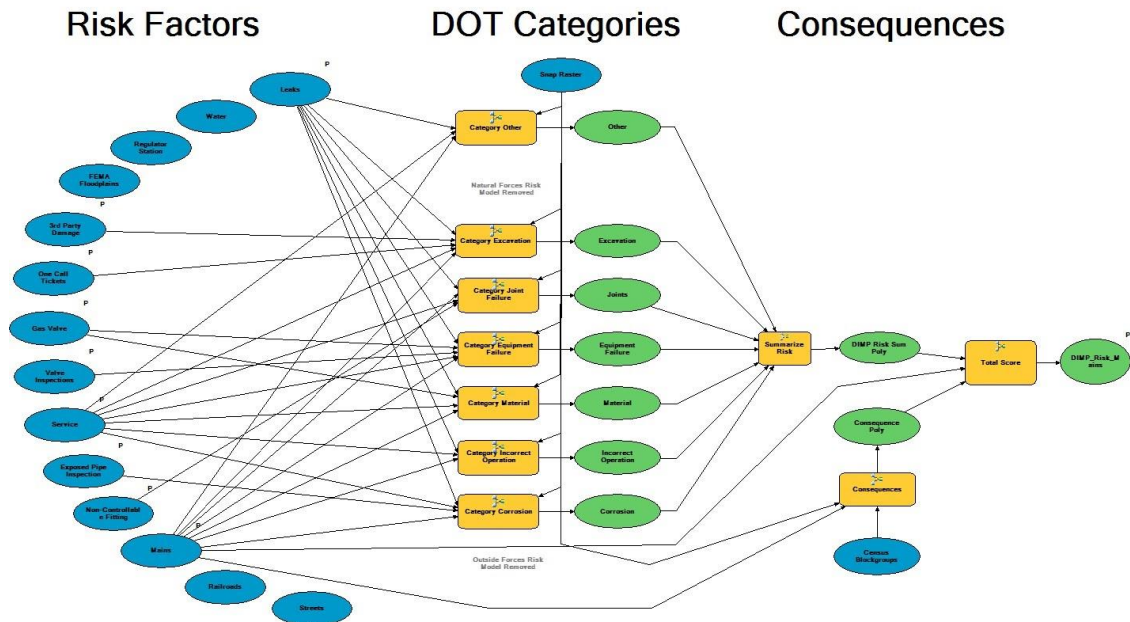
This process ensured a comprehensive risk assessment with a DIMP risk calculation matrix, which also then summarizes the risk and takes it through a 'Consequence Analysis' and then finally assigns it a 'Total Risk Score'.



A multi layered geospatial map included the following layers:

Mains	Service Lines	Leaks	Gas Valves
Consequences	One call tickets	3rd Party Damage	Valve Inspections
Exposed Pipe Inspections	Census Block Groups with population	Non-controllable Fittings	DIMP Risk Summary

DIMP RISK CALCULATION



THE RESULTS

20%

REDUCTION OF FIELD SERVICES COSTS VIA FOCUSED ASSET INSPECTIONS BASED ON RISK SCORE

ACHIEVED COMPLETE COMPLIANCE WITH US REGULATIONS



25%

REDUCTION IN INSURANCE LIABILITIES



INCREASED LIFETIME OF ASSETS BASED ON PROACTIVE MAINTANANCE



We're Your Partner in Building Sustainable Software Solutions. We provide management and engineering talent with a passion for your product. Our teams listen, plan with you, and develop solutions to help you succeed.



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