

CASE STUDY

Making Scenario Planning 20x Faster: How a US Federal Agency Manages a \$15 Billion, 34-Year Capital Portfolio

A US Federal Agency oversees one of the most complex capital programs in the federal government: 660+ projects, \$15 billion in total value, and a 34-year lifecycle spanning environmental remediation, demolition, facility decontamination, plant modernization, utility reconfiguration, and waste management. This is the program that built Invizion. When our team was brought in to support it, no software on the market could handle the complexity. So we built what was needed. That capability — rapid scenario analysis, unified portfolio data, and defensible decision-making — is what Invizion delivers to every client today.

\$2B

COST AVOIDANCE IDENTIFIED

By identifying and eliminating overhead costs

20x

FASTER SCENARIO PLANNING

What-if analysis that once took weeks done in hours

97%

REDUCTION IN ANALYSIS TIME

From resource-intensive manual process to rapid model runs

12%

LIFECYCLE COST REDUCTION

Through optimized capital allocation and sequencing

CLIENT A US Federal Agency

CHALLENGE

Details

The Federal Agency's team oversees a portfolio of over 660 projects totaling \$15 billion across a 34-year lifecycle. Project schedules carry 15,000 activities — each budget and resource loaded — and are sequenced with 16,000 logic ties specifically designed to meet risk, efficiency, regulatory, and cost objectives. No two projects operate in isolation. Every decision has downstream consequences.

Change management in a program of this scale is a continuous, resource-intensive challenge. When cost overruns, delays, or regulatory changes arise — and in a program this size, they always do — the team needs to model multiple budget scenarios quickly, with accurate numbers, and on short notice. Requests for updated scenario analysis could come at any time, from federal oversight bodies or agency leadership, and had to be defensible.

The conventional answer was to pull data manually from disconnected finance, supply chain, asset, and project management systems — rebuild the model — and run the analysis by hand. It was slow, error-prone, and scaled poorly with program complexity. Multiple budget requests in a single year placed enormous pressure on a small, specialized team.

APPROACH

The Solution

They needed a platform that could hold the full program in a single model, maintain all 16,000 logic ties, and allow planners to run 'what-if' scenarios rapidly – without rebuilding from scratch each time. Data had to be pulled from multiple enterprise systems simultaneously, costs recalculated automatically, and milestone impacts visible immediately.

Invizion gave the agency team exactly that. For the first time, the team could confidently and quickly analyze multiple scenarios against the established baseline, see the impact of proposed changes on milestones and costs in the timeframe needed, and communicate those findings clearly to federal oversight bodies.

The result: analysis that previously required weeks of manual effort could be completed in hours. Scenario requests that once consumed significant team resources became routine. And every output was traceable, defensible, and ready for external review.

“Invizion provides the return-on-investment and milestone compliance for each scenario.”

ASSISTANT SECRETARY, A FEDERAL AGENCY

About Invizion

Invizion is a strategic advisory and technology firm that helps federal agencies and large organizations achieve clarity in complex, data-intensive environments. We combine advanced analytics, program management expertise, and purpose-built platforms to help clients make faster, better-informed decisions.



Guy Barlow

President, Invizion

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See how Invizion performs with real world data, challenging constraints, and tough trade-offs. We'll walk you through a live environment.

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