

# SUFFOLK

## CUSTOMER SPOTLIGHT

# Transforming safety management at Suffolk with predictive analytics

### SUMMARY:

Suffolk transitioned from fragmented, manual data processes to an enterprise-grade AI and analytics platform using Posit Team and Databricks.



### ABOUT:

Suffolk is one of the 25 largest general contractors in the United States. They manage some of the most complex, sophisticated projects, serving clients in every major industry sector, including healthcare, life sciences, education, gaming, transportation/aviation, federal government and public work, mission critical and commercial.

### INDUSTRY:

Construction

### SIZE:

3,000

### TECHNOLOGY USED:

Posit Workbench,  
Posit Connect, Databricks

### DATA CLOUD PARTNER INTEGRATION:

Databricks

# The Challenge:

## High stakes and fragmented data

With over 150,000 construction site injuries occurring annually in the US, Suffolk needed to move from reactive safety measures to proactive risk mitigation.

- **MANUAL BOTTLENECKS:** The team relied heavily on local Alteryx scripts and manicured Excel files stored in SharePoint.
- **LACK OF REPRODUCIBILITY:** Data lineage was unclear, making it difficult to replicate results or scale models.
- **EXTERNAL DEPENDENCY:** Relying on third-party models created stability risks for core safety operations.



# The Solution:

## An in-house safety model

Suffolk brought their safety modeling in-house, utilizing Posit Workbench and Posit Connect to build a transparent, reproducible pipeline. Since introducing this project, they've seen a 72% decrease in Total Recordable Incidents across project sites.

- **INTEGRATED DATA STREAMS:** The model pulls from staffing, trade partner history, incident logs, and project schedules to assess risk.
- **DIVERSIFIED DELIVERY:** Insights delivered via safety dashboards for deep dives into high-risk project trends. Plus weekly risk emails, automated via Posit Connect to highlight concise lists of high-risk projects and the factors driving those scores.
- **ROBUST GOVERNANCE:** Using Databricks integration, they implemented row-level permissions, ensuring stakeholders only see data relevant to their specific credentials within a single app.

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