

How CoEnterprise Modernized Analytics at Scale for NC DOT

Smarter analytics, better outcomes, and improved decision-making

Since 2021, CoEnterprise has partnered with the North Carolina Department of Transportation (NC DOT) to modernize its analytics platform and facilitate the transition from Tableau to Microsoft technologies. The transformation has delivered measurable results including reduced cost and improved scalability, while enabling advanced data engineering across multiple departments.



North Carolina Department of Transportation

Formed: 1915 (originally as State Highway Commission); 1979 (modern-day department)

Customer story

NC DOT manages highways, rail, aviation, ferries, and public transit in North Carolina and is overseen by the Secretary of Transportation.

Headquarters: Raleigh, NC

Employees: 11,000

Key challenges







NC DOT faced rising costs and scalability limitations with its Tableau environment, along with fragmented data pipelines and manual processes that slowed reporting. Additionally, limited visibility and inconsistent data workflows made it difficult to support enterprise-wide analytics, all while they needed to align with a Microsoft-first technology strategy.

How we solved it

CoEnterprise led a strategic migration to Power BI supported by Databricks. The approach focused on building scalable pipelines, enabling trusted reporting, and aligning analytics with NC DOT's long-term vision:

- ✓ Migration from Tableau to Power BI
- ✓ Migration of SSIS and Tableau Prep workflows
- ✓ Databricks pipeline design and modernization
- ✓ Automated ingestion, validation, and processing
- ✓ Development of semantic models, dataflows, and dashboards
- ✓ Elimination of manual Excel-based workflows


Benefits

-  Reduced costs through platform consolidation
-  Supported/accelerated nearly \$1M/yr in license savings
-  Improved scalability for enterprise analytics
-  Faster insights across ferry, HR, DMV, and highway operations
-  Enhanced data quality and reliability
-  Alignment with Microsoft strategy



Results & impact

NC DOT now operates on a modern, scalable analytics platform. Power BI dashboards support executive decision-making across key functions, while Databricks pipelines improve efficiency and eliminate manual processes. The organization is positioned to scale analytics and support future AI initiatives.

 **"We always had access to the data—it was the time savings that changed everything."**
- IT Staff

Why CoEnterprise

With deep public sector expertise and a proven track record, CoEnterprise delivered a scalable, low-risk modernization. Strong collaboration and institutional knowledge accelerated outcomes to ensure long-term success and sustainability.



Get in touch

Learn more at coenterprise.com or contact analytics@coenterprise.com.