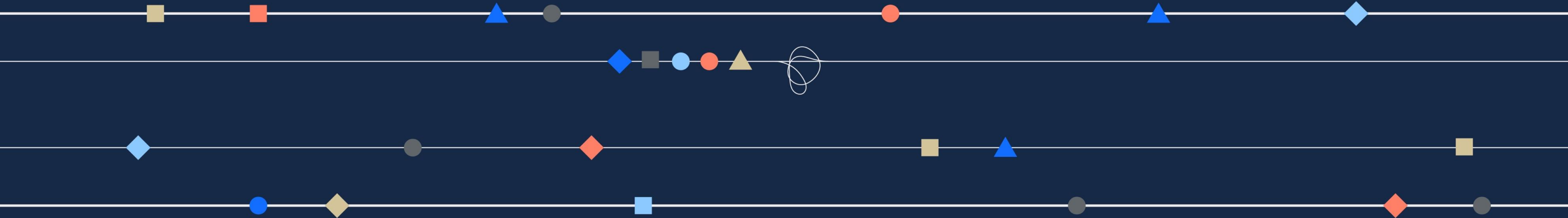




Case Studies

PROJECT CONCEPTION



Project Conception & Execution

ENGAGEMENT CASE STUDY: Schedule Benchmarking & Regulatory Analysis

Overview

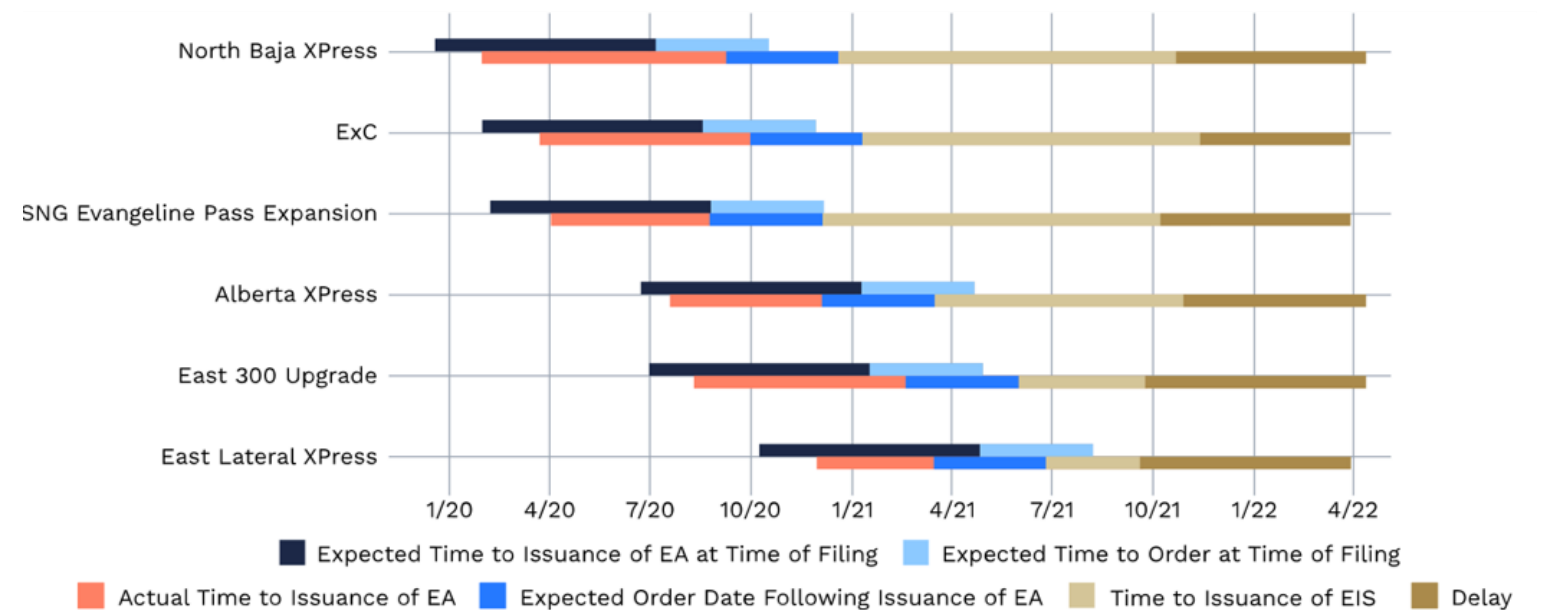
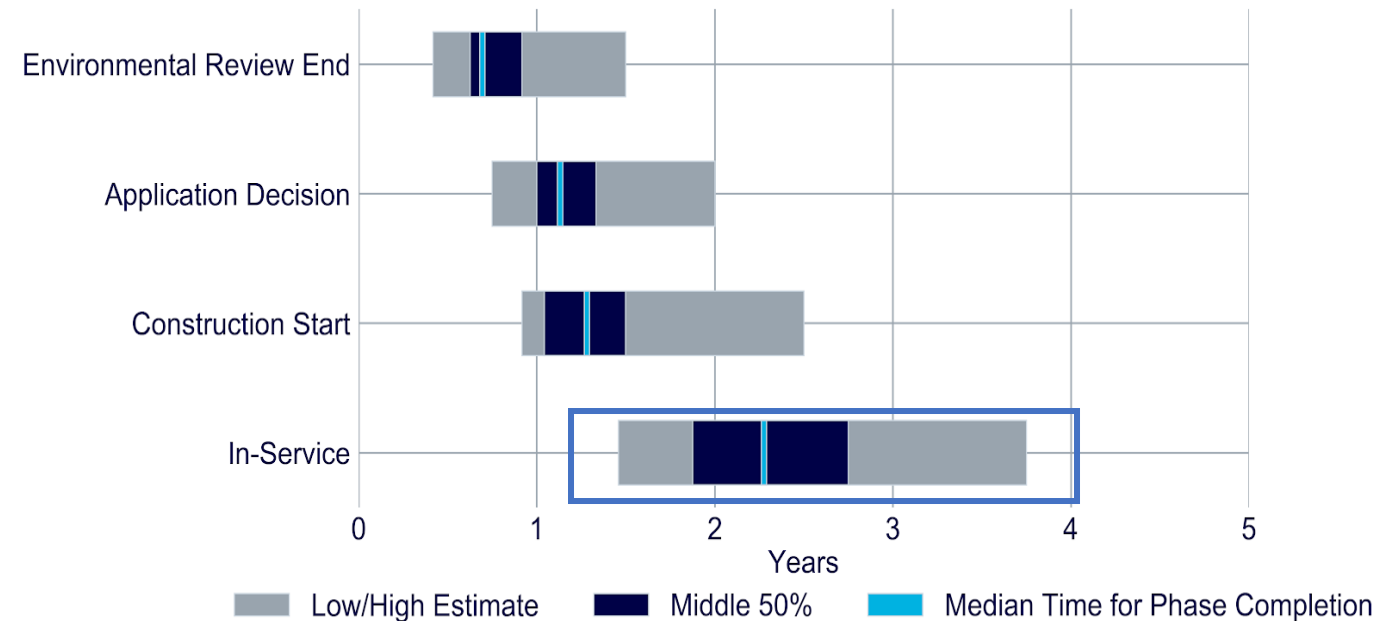
Support with schedule and phase quantification & impacts for inter/intrastate projects

Support Needed

- Regulatory and legal data acquisition, structuring & analysis
- Data visualization & benchmarking

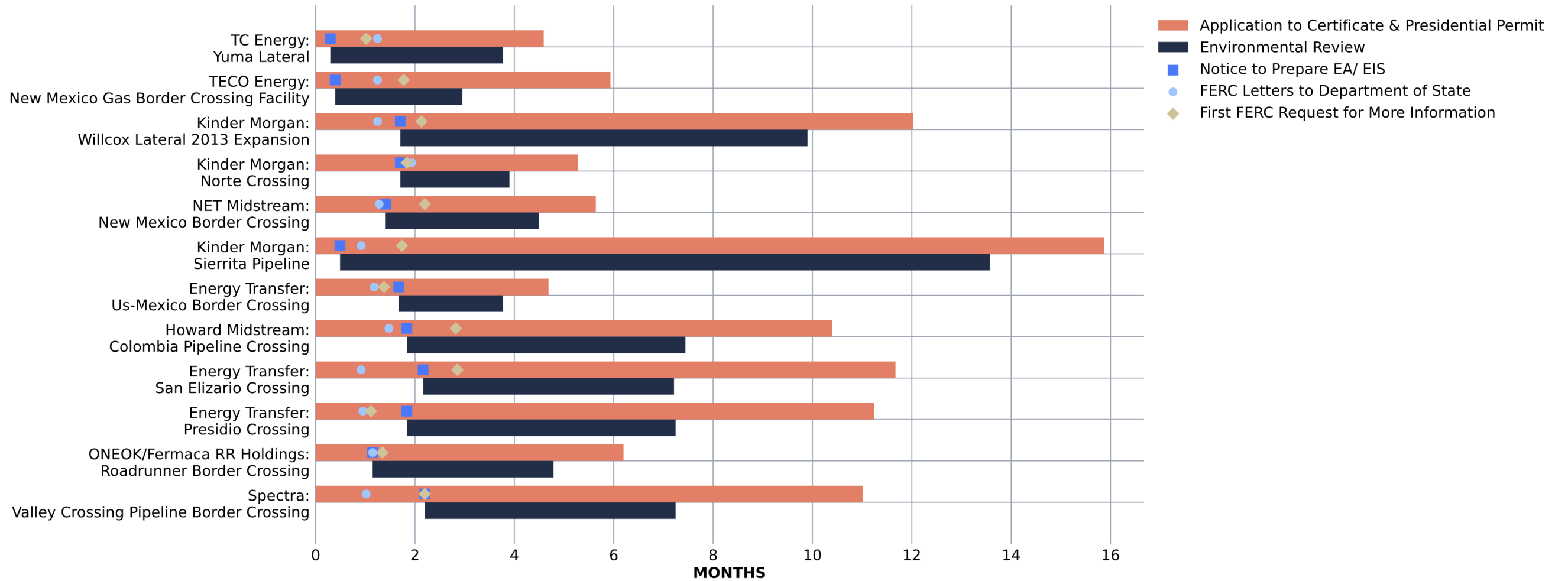
Ultimate Value Delivered

- Consolidated infrastructure and regulatory data
- Quantitative forecasting and modeling of cost & schedules for historical, hypothetical, planned, and in-progress projects



Project Conception & Execution

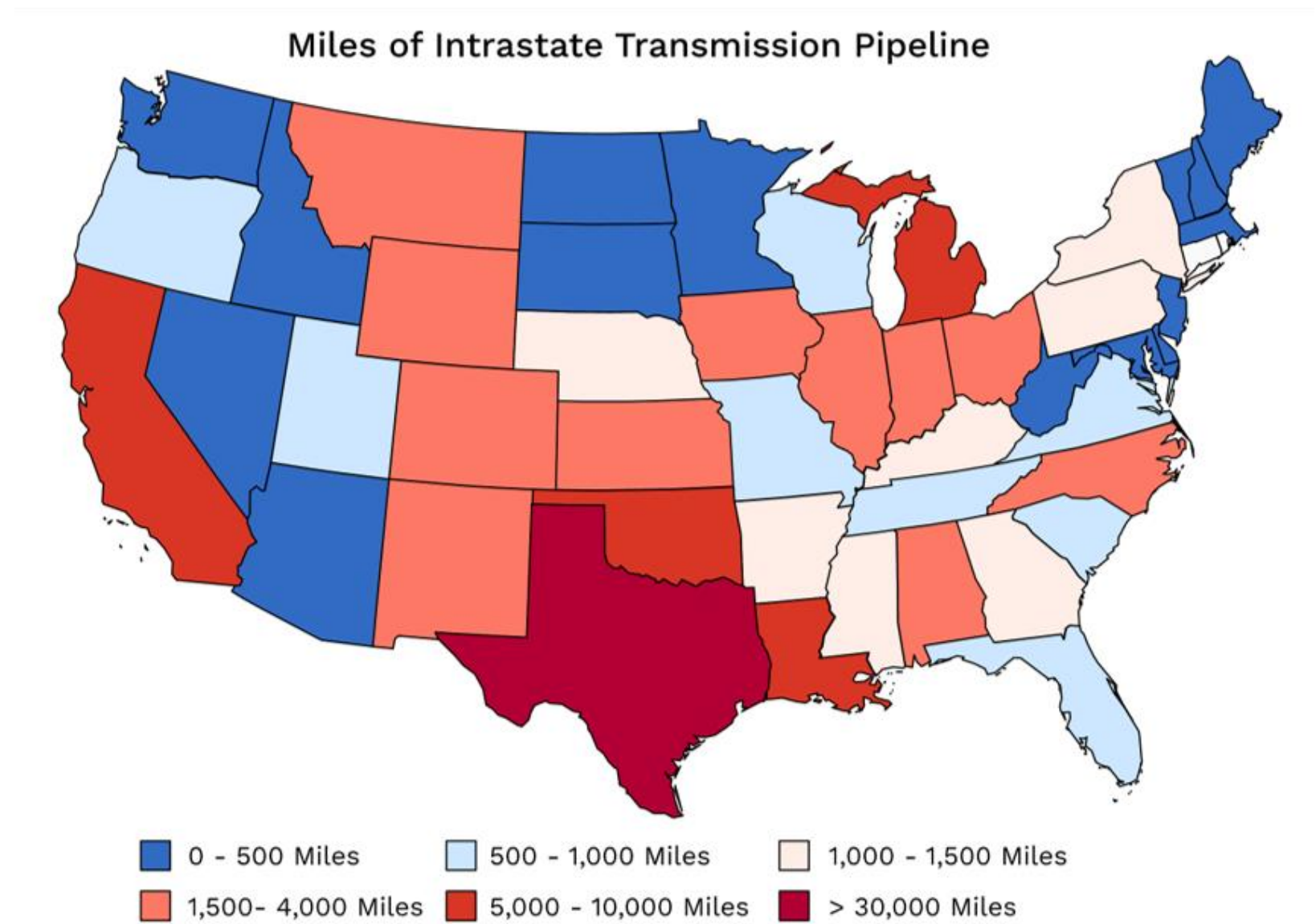
ENGAGEMENT CASE STUDY: Intra/Interstate Project Timelines: Presidential Permitting



Project Conception & Execution

ENGAGEMENT CASE STUDY: Intra/Interstate Transmission Analysis

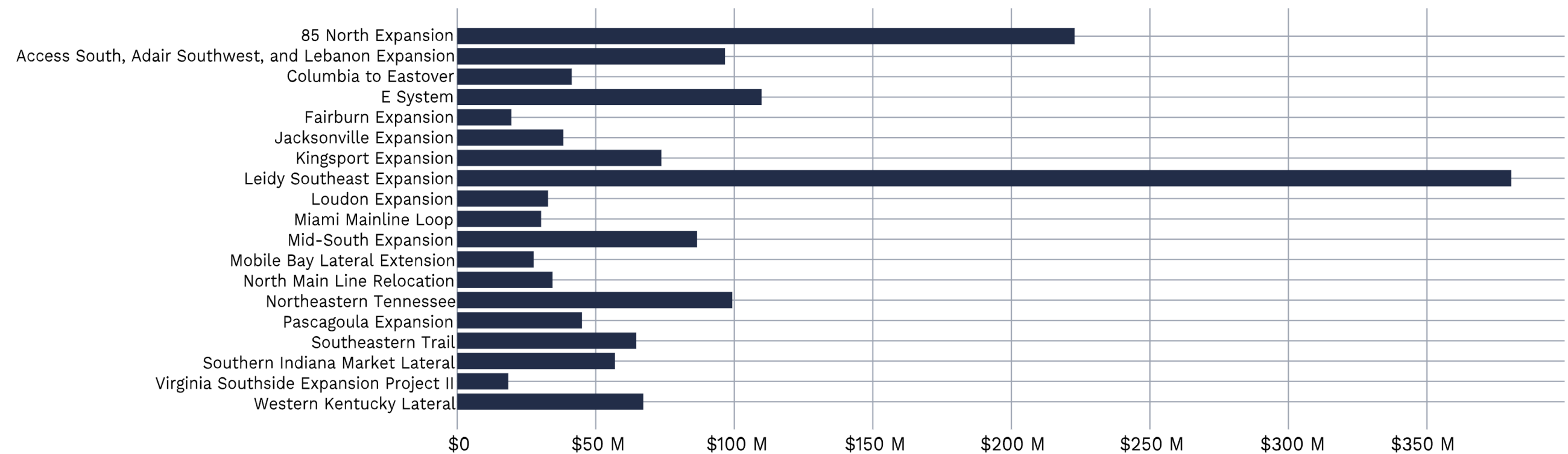
FERC certification of projects have come to a slow crawl, with concern that even blanket projects will come under intense scrutiny.



Project Conception & Execution

ENGAGEMENT CASE STUDY: Cost Benchmarking Total Project Final Costs

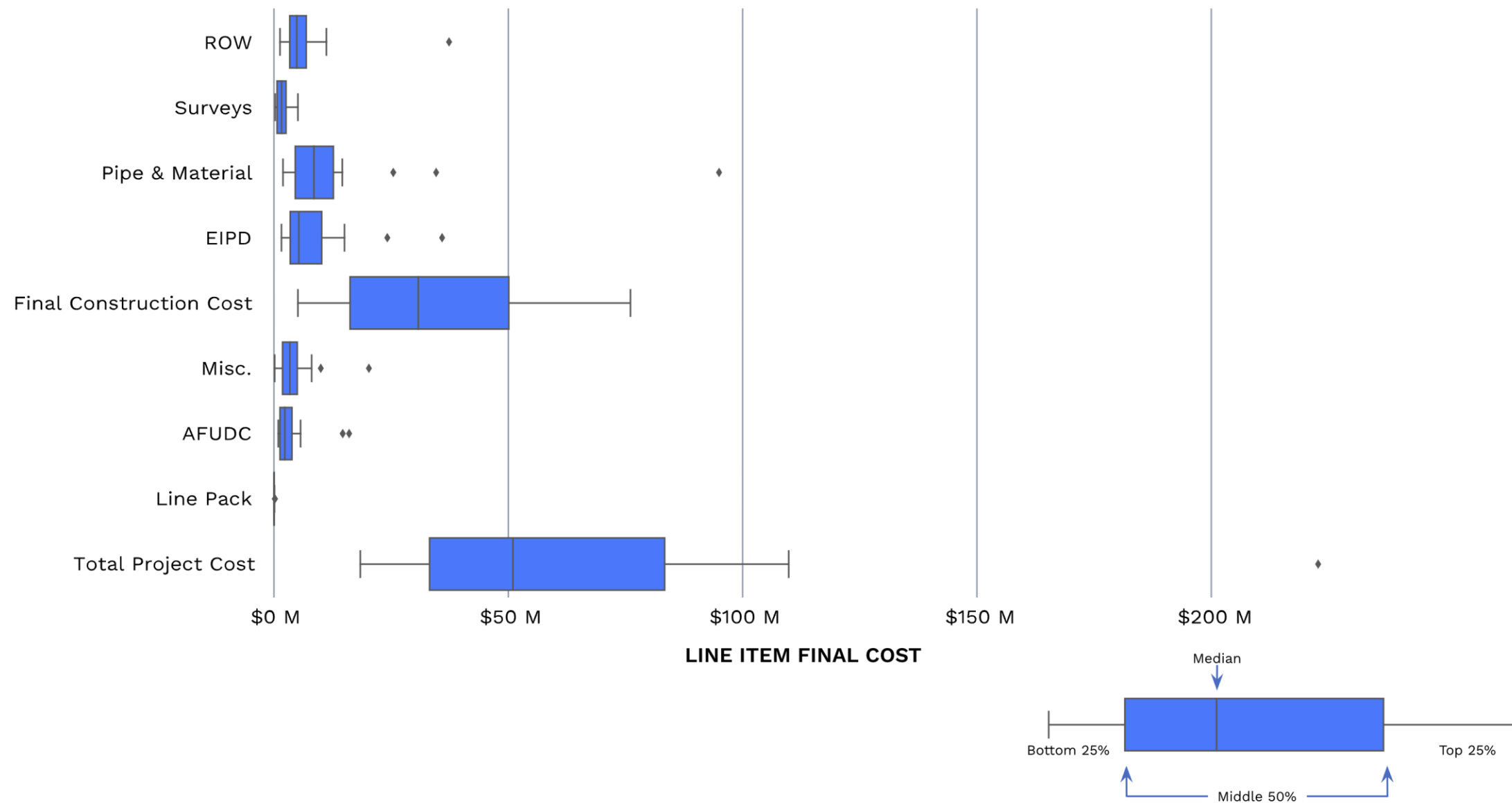
Total Project Costs (using Proprietary External Cost Breakdown Guide)



Project Conception & Execution

ENGAGEMENT CASE STUDY: Cost Benchmarking: Line Item Final Cost Distribution

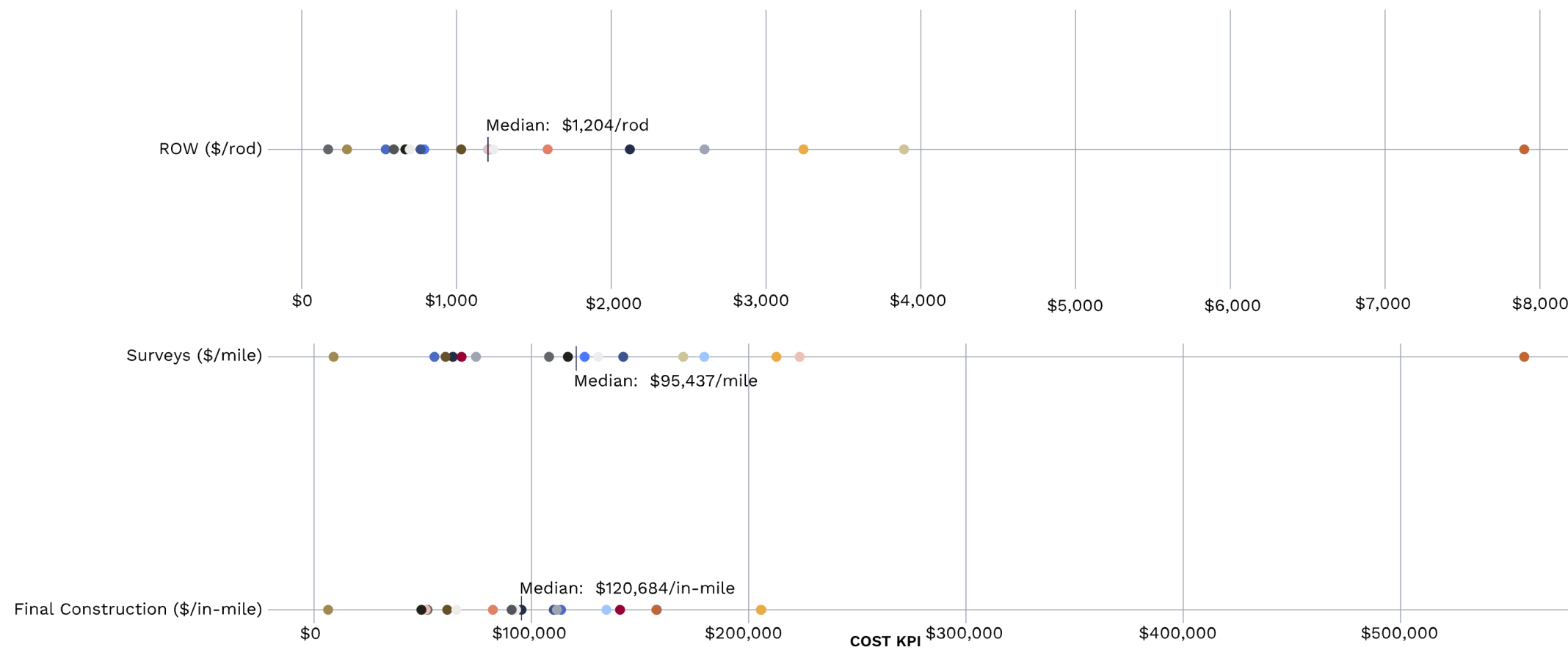
Distribution by line item shows large variability in construction cost



Project Conception & Execution

ENGAGEMENT CASE STUDY: Project Cost Key Performance Indicators (1/2)

KPI with cost associated, largely distributed in all line-item categories



- 85 North Expansion
- E System
- Kingsport Expansion
- Miami Mainline Loop
- North Main Line Relocation
- Southeastern Trail
- Western Kentucky Lateral
- Access South, Adair Southwest, and Lebanon Extension
- Fairburn Expansion
- Leidy Southeast Expansion
- Mid-South Expansion
- Northeastern Tennessee
- Southern Indiana Market Lateral
- KPI Median
- Columbia to Eastover
- Jacksonville Expansion
- Loudon Expansion
- Mobile Bay Lateral Extension
- Pascagoula Expansion
- Virginia Southside Expansion Project II