

## DECISION-DRIVEN ANALYTICS IN ACTION

See how our decision-driven analytics framework, Decision Architecture, goes beyond traditional analytics approaches to make data visual, actionable, and valuable to your business.



# PREDICTIVE APPROACHES TO PREVENT OUTAGES, CONTROL COSTS, AND SERVE CUSTOMERS

## POWER & UTILITIES – VEGETATION MANAGEMENT

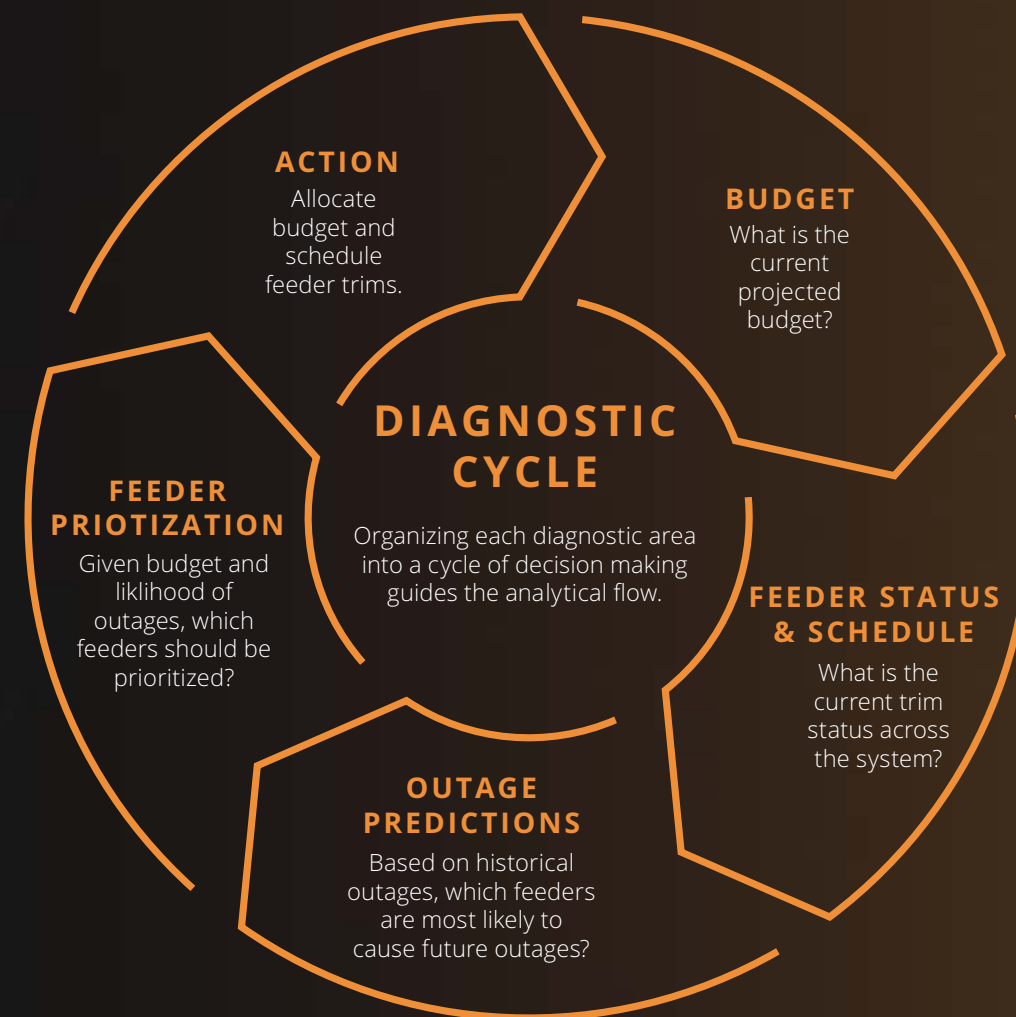
### CHALLENGE: STAY A STEP AHEAD OF MOTHER NATURE

A major cost for electricity suppliers is managing tree growth to keep transmission “feeder” lines clear of overgrowth and prevent outages. A southern electric utility with operations in three states spends up to \$100 million a year on this effort, and wanted to explore ways to both defend this budget in the face of cost-cutting measures and optimize vegetation management. One hypothesis it wanted to test was whether using statistical models to guide where and when to trim vegetation around feeders could increase reliability and reduce costs by avoiding outages.

### SOLUTION: PREDICTIVE SCHEDULES BASED ON CUSTOMERS, NOT CALENDARS

The utility's current rotating schedules for trimming were calendar based and did not account for financial impacts of outages or consider a key metric, “customer minutes interrupted” (CMI). Through the Decision Architecture process, the team developed a statistical model to rank feeders in order of trim priority based on projected CMI savings, not just on a time-based schedule. A series of Microsoft Power BI visualizations, shared across the three operating companies, included integrated predictive models to support business analysis and boost decision-making power.

*Decision Architecture enables you to move up **the analytics maturity curve** to understand not only what happened, but why it happened, what will happen, and how you can influence it.*



## RESULTS: FEWER OUTAGES = \$20+ MILLION IN ANNUAL SAVINGS

By giving the utility the insight to trim the right vegetation at the right time, this predictive solution is estimated to **SAVE \$20 MILLION TO \$30 MILLION A YEAR** in outage-related costs. It also enables higher levels of continuous service to customers by reducing sustained interruptions due to overgrown vegetation.

### READY TO TURN YOUR DATA INTO ACTION?

Contact us to learn more about Decision Architecture and our 90-minute jump start workshops.