



The Cost of Inconsistent Data —and How Numetric Fixes It

Your Department of Transportation spends millions per year gathering data—so why does so little of that data make it into your department's recommendations and decisions?

THE PROBLEM: YOU AND YOUR DATA HAVE TRUST ISSUES.

Your department overflows with data—asset, safety, maintenance, finance, etc.—data that stubbornly refuses to release its full value. Why? Because:

- Data is locked away in various business systems.
- Formatting and attributes vary by the person, division, or contractor gathering them.
- Efforts to fix the problem lack expertise in structuring data for maximum future benefit.
- More data keeps coming in, bringing more inconsistency to the mix.

The result: Your wins are short-lived, the data falls back into disarray, and you spend incremental resources every year fixing things again. Worst of all, your department relies on anecdotes and opinion, instead of data, to drive decisions on anecdotes and opinion, instead of data, to drive decisions—a frustrating pattern you wish you could change.

THE SOLUTION: DATA PREPARATION, STRUCTURING, AND MANAGEMENT GUIDED BY DOT DATA EXPERTS.

Turn to data experts with a track record of success helping DOTs unleash the full value of their data—and the data management automation tools to make that value last indefinitely. This is how Numetric makes this possible...

1. WE PREPARE YOUR DATA FOR MAXIMUM RELIABILITY

Numetric provides the tools and guidance to make formatting consistent across all your data sources and to ensure that future data sources follow the same rules.

Pulling data into Numetric: Our data preparation tool connects directly to your various business systems—regardless of how many systems you have—and pulls that data into tables.

Diagnosing your data needs: Numetric's data experts diagnose your department's particular data challenges and needs and create a customized plan to address them.

Automating data uniformity: In Numetric's proprietary tool, we create transformations, formulas, and rules to ensure that formatting for data from all of your systems is consistent. Best of all, these automatically take effect on all future data that is brought into Numetric, keeping data consistent into the foreseeable future.

Data Expertise Especially for DOTs

Your ability to unlock the value of your data starts with finding the right guides. Numetric's team of data experts is uniquely qualified to help DOTs not only uniformize data, but structure it to unlock its maximum value both now and for the foreseeable future. Numetric's data teams are armed with automated data management tools and include:

- Data scientists
- Former DOT employees
- Engineering professionals

"Numetric allows data to be distributed to everyone who needs it in an intuitive way so that they can interact with it and use it day to day."

W. SCOTT JONES

Safety Programs Engineer
Utah Department of Transportation



2. WE STRUCTURE YOUR DATA FOR MAXIMUM CONNECTIVITY

Numetric understands that data preparation means nothing if you still have to manually paste reports together. So, we structure your pristine tables together to produce stunning new insights your department can take action on.

Joining tables together: In Numetric, we combine different tables together into datasets.

Creating relationships between datasets: Using Numetric's proprietary Dictionary tool, we define relationships between datasets, preparing the data from different sources to be analyzed together meaningfully.

"Decorating" the data: Here, we join different data types together—combining asset data with crash data, or financial data with maintenance data, for instance—to produce unprecedented insights. We also use logic functions to integrate Highway Safety Manual recommendations into Numetric to automatically produce smart countermeasure recommendations. We call this "decorating" the data, but you might just call it "amazing."

3. WE CONTINUE TO DEVELOP NEW OPPORTUNITIES TO TURN DATA INTO VALUE

Unlike many vendors, Numetric's data experts become your partners for the long term. We continue to seek out new ways for you to extract insights from your data based on upcoming trends and technology.

Maintaining and fine-tuning: As the need arises, our data experts continue to apply new transformations, formulas, and rules to optimize your ability to use and combine your data.

Adapting with your DOT: Numetric is dedicated to communicating with you regularly to assess your changing needs and keep you abreast of upcoming product improvements.

Innovating new features: As a SaaS provider, we are constantly looking for new ways to use your existing data to produce new aha moments or just to make your work faster and easier.

"The Numetric platform is helping us close communication gaps. We are able to see data and streamline the quality control process."

GORO SULJOADIKUSUMO

Planning Survey Engineer
Hawaii Department of Transportation

"Users don't need to use structured query language. They don't have to be a data person at all... [P]eople who access the system can be confident they have retrieved exactly the data they need."

JOSEPH WEISS

Transportation Safety Analyst
Rutgers University Center for Advanced
Infrastructure and Transportation

Let Data Drive Your Decisions

Numetric unlocks the full value of DOTs' data with data preparation, structuring, and management services and tools. If your department is ready to unleash the power of its data, **sign up for a custom demo at numetric.com.**