

Creating a Reliable Fuel Metric



Raw Measurement



Business Rules



Statistical Imputation



Model Combination

Wi-Tronix



Event Recorder (Notch)



- Identification of “bad” records for each measurement type
- Statistical outlier detection
- Rules for combining data

Formal statistical methods to replace “bad” records with data- and model-based estimates

- Final estimate based on “jury of opinion” of the models.
- Rigorous methods, such as *Bayesian Model Averaging* (data-determined weighting)

Features and Benefits | Fuel Metric



Consistency and reliability



Highly automated



Includes both human expertise and statistical modeling and algorithms



Reduces variation allowing for the ability to tease out fuel technology savings in the 2% range



Incorporates into existing data warehouse, dashboards and Tableau reports



Enables “what-if” scenarios such as testing technology X on Subdivision Y to calculate length of test and provide a realistic % savings rate