



# Revenue Forecasting and Cash Flow Management

How Data Can Enhance Your Finance Office

Joe Rulison three+one





## The Marketplace Has Evolved



## Three Views of Cash



How <u>you</u> see your cash - cash flow

How **your bank** sees your cash - liquidity

How **the market** values your cash

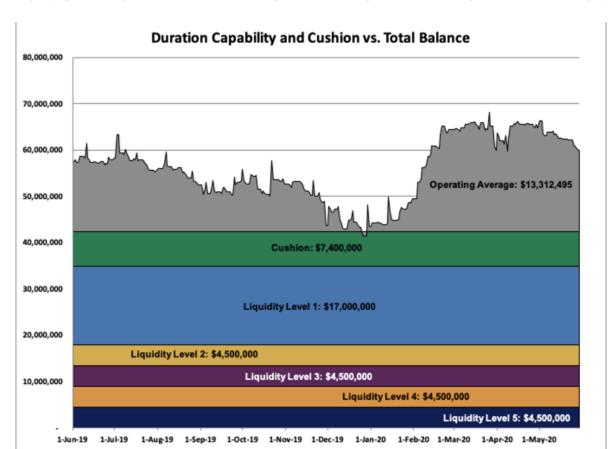
marketplace value

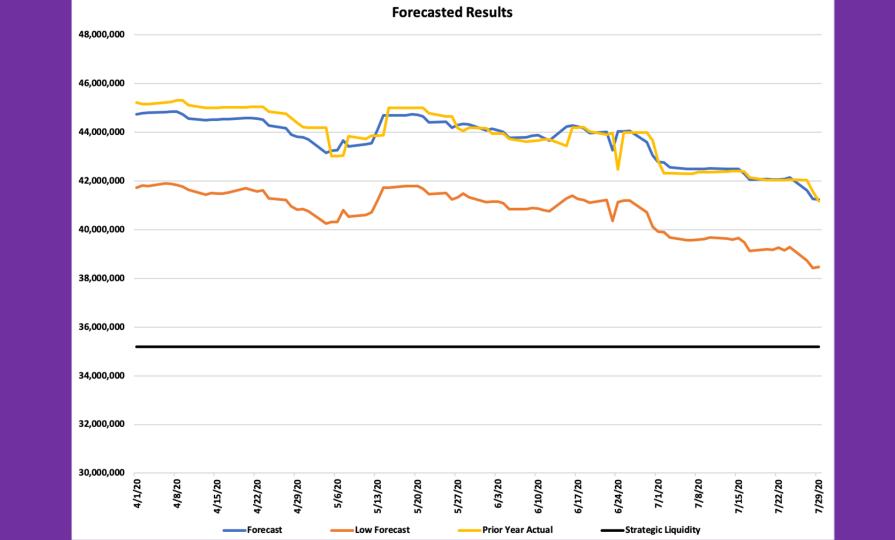
## What is Data?





## What is Time Horizon Data?





## + Benefits of Liquidity Management

- 1. Boost Credit rating for debt refinancing
- 1. Data allows ability to forecast future cash & debt needs
- Ability to identify all cash as a revenue generating asset
- 1. Monitor all bank fees
- 1. Provide "peace of mind" In addressing financial stresses during a natural, medical or human inflicted crisis





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#### Modernized Approach to Revenue Forecasting

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Joe Zilka, Senior Manager, Government Solutions, US Public Sector

Bobby Gutierrez, Senior Analytic Consultant, US Public Sector

Andrew Ball, Director, Public Affairs & Policy, US Public Sector



#### SAS in Government

Analytics-driven Decisions for Smarter Government

Government is our second-largest industry by revenue

SAS supports 700+ Government Departments, Ministries, Offices, and Agencies in 134 countries around the world

100% of U.S. Government Cabinet Departments and Agencies, as well as all 50 states are SAS customers

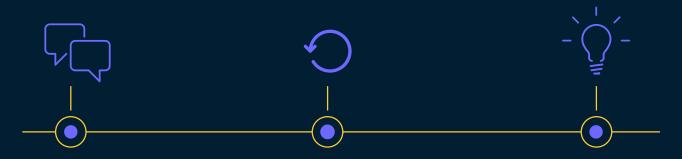


#### **SAS in New York State**

- 20 NYS Agencies and Authorities are currently leveraging SAS software including:
  - Supporting New York State Dept.
     Of Health Epidemiologists
     with COVID-19 Response;
  - Advanced budget and revenue forecasts at New York State Division of the Budget
  - Audit prioritization at New York State Department of Tax and Finance;
  - Leveraging predictive analytics to improve mental health outcomes at Office of Mental Health



#### Phases of Disruption



**01** Respond

Achieving Situational Awareness

Responding and Adjusting

Mitigating Disruptions

02 Recover

Rebuilding Organization to Operate in the New Environment

03 Reimagine

Preparing the Organization for the Future

**Building Resilience** 



#### The Challenge

The global COVID-19 pandemic has a significant impact on governments' ability to generate and forecast revenue.



#### **Integrate Newly Relevant Data**

- Unprecedented problems need new insights
- Identification of novel data sets and healthcare response information



#### **Understand Duration and Trends**

- Quickly understand "cold spots"
- Industries, regions, and operations impacted



#### **Accurately Forecast Revenue Streams**

- Rapidly changing economic parameters
- Scenario analysis



#### **Simulate Policy**

Quickly understand legislative and policy changes



#### How Analytics Can Help

Provide reliable, timely data and revenue forecasting and planning



**S**.sas

personal/corporate income tax





#### Revenue Impact for Government

Trend Analysis and Scenario Demonstration



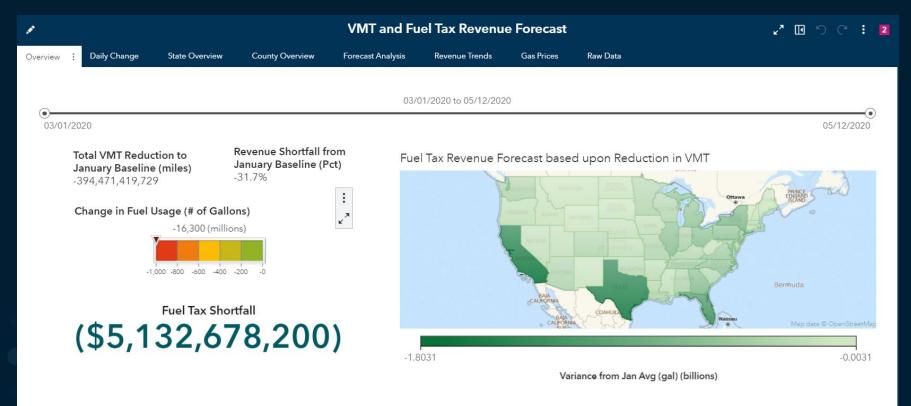
Hypothesis: Revenue from Fuel Tax decrease due to less Vehicle Miles Traveled (or VMT)

#### Key Variables:

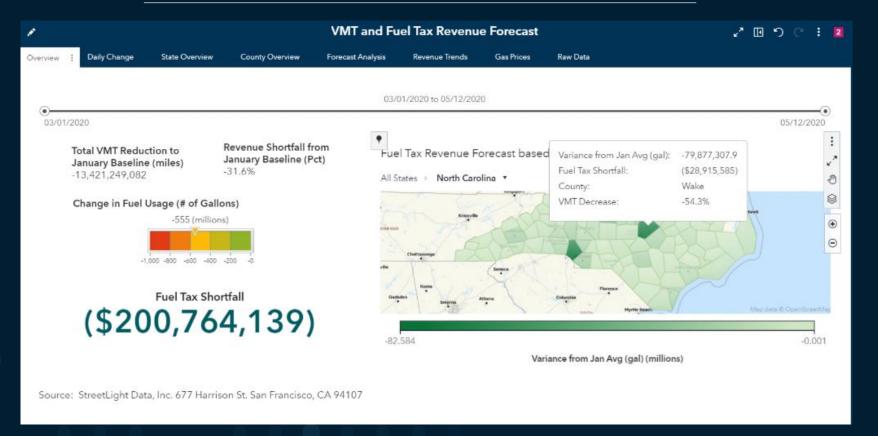
- Data Captured: Average Road Traffic by County
- Cost of Fuel: Average Fuel Cost in State
- Fuel Tax: Cost per Gallon by State
- Miles per Gallon: Average MPG for Vehicle

SAS can begin to estimate the potential loss in Fuel Tax revenue.

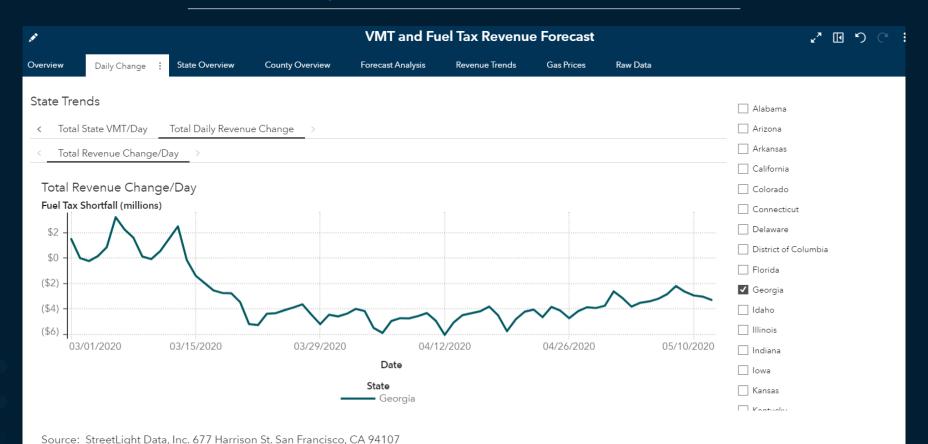


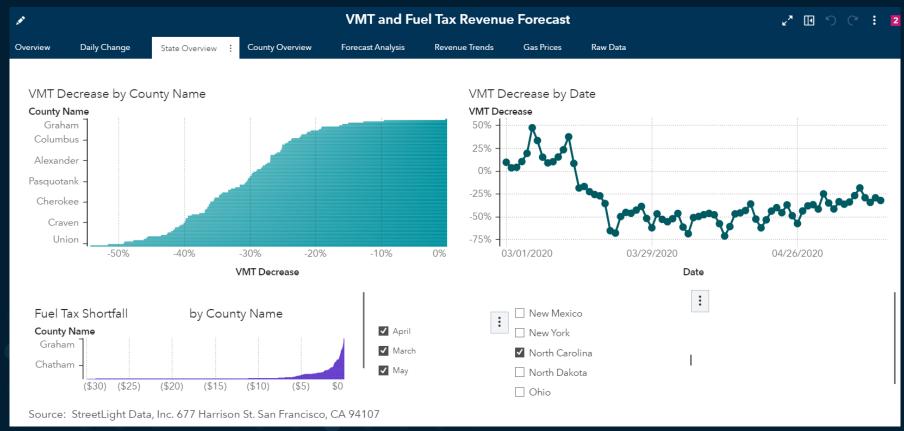


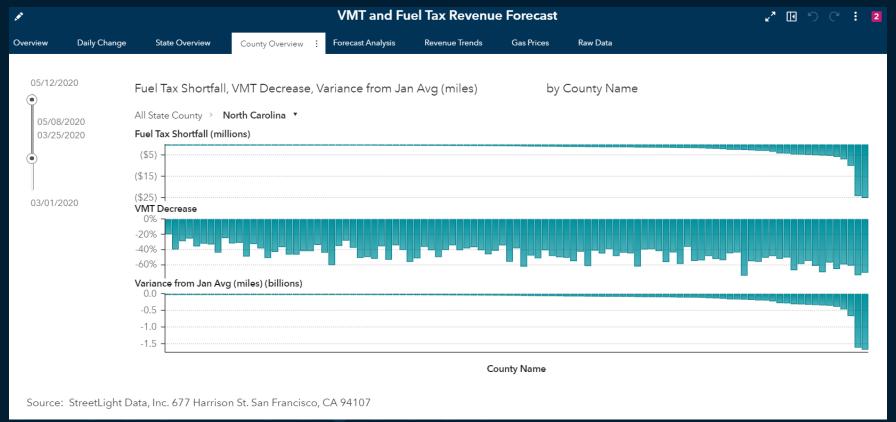
Source: StreetLight Data, Inc. 677 Harrison St. San Francisco, CA 94107

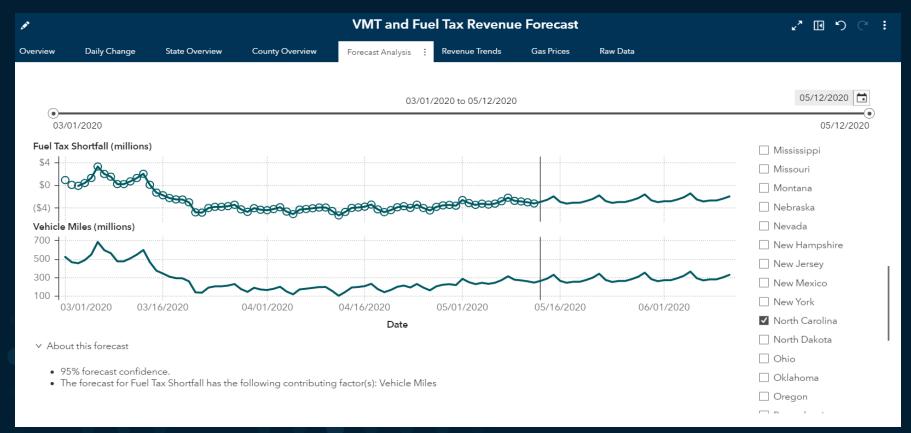




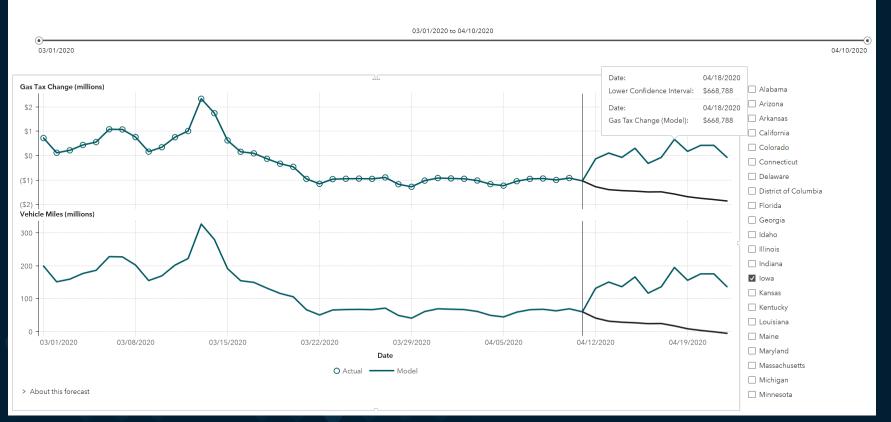


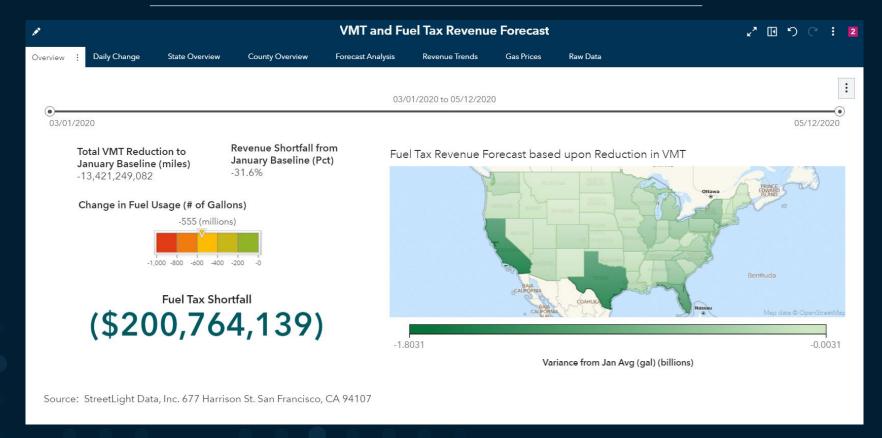














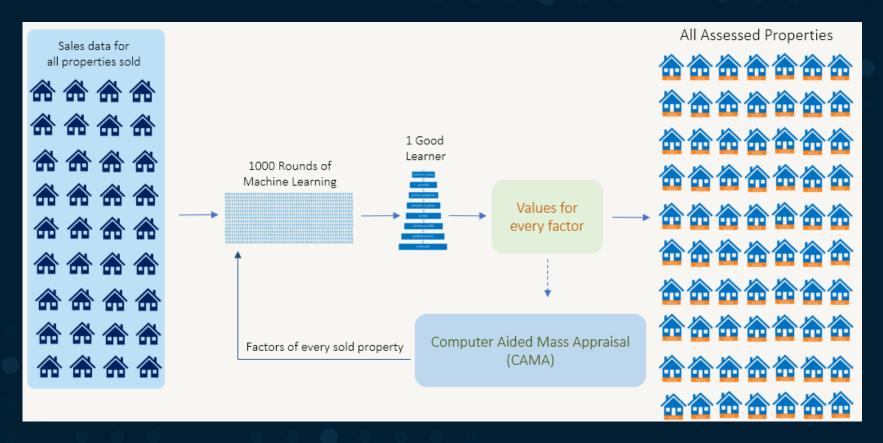


### Revenue Impact for Government

**Property Valuation** 

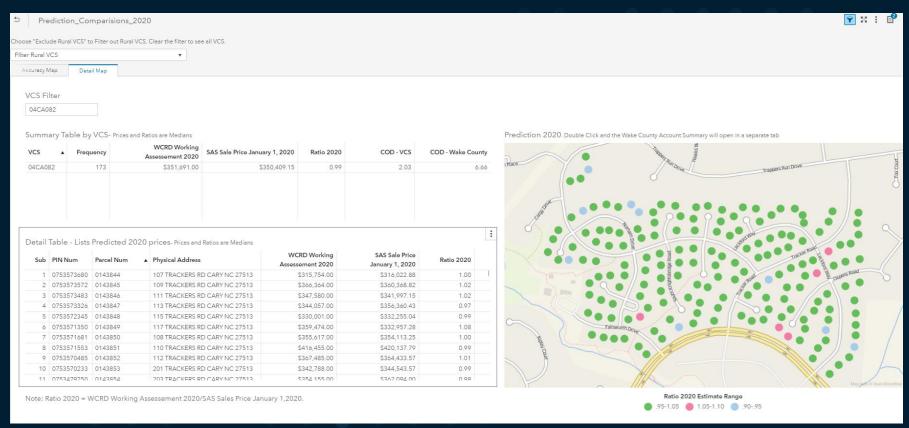


#### Artificial Intelligence Property Valuation

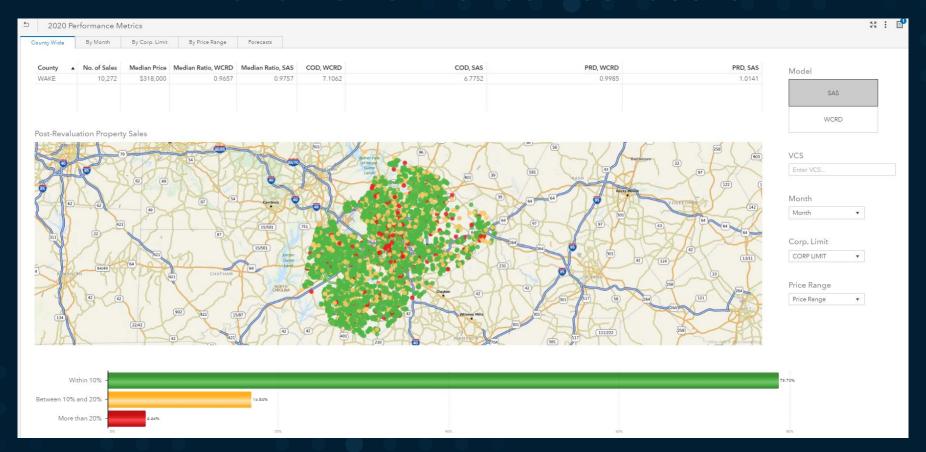




#### 2020 Reassessment Dashboard

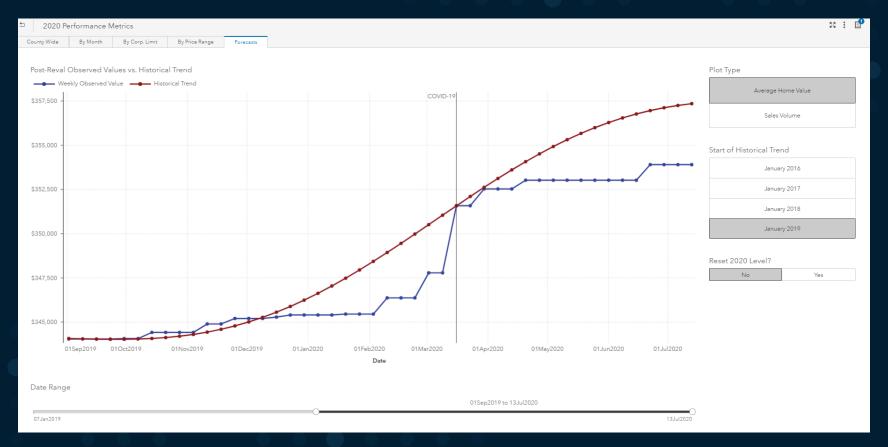


#### 2020 Performance Dashboard





#### 2020 Forecast Dashboard









## Let's Work Together!

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# NYSAC

NEW YORK STATE ASSOCIATION OF COUNTIES

Q&A