

CREATING A CULTURE OF KNOWLEDGE FOR THE SMART CITY

TIM FAIRCHILD
DIRECTOR, GLOBAL ENERGY PRACTICE



SAS & SMART CITIES

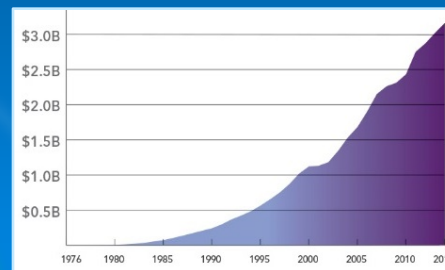
SAS – THE ANALYTICS LEADER



SAS is used at more than 75,000 sites in over 141 countries, including 93 of the top 100 companies on the Fortune Global[®] 500 list.

- World's largest privately held software company
- Founded in 1976 in Cary, North Carolina
- 14,000+ employees in 52 countries
- Clear leader in advanced analytics
- Great Place to Work

Revenue Growth 1976-2016

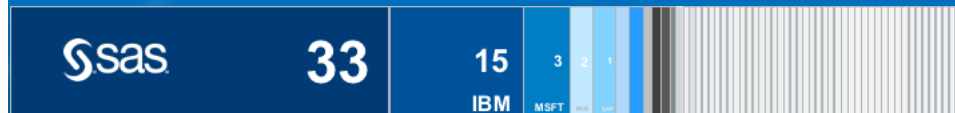


Investment
in R&D
25%



Award Winning Solutions

Sustained Market Leadership



July 2015, IDC published: "Global Data and Analytics Software Market, 2014-2019"



State Auditor of the Commonwealth of Massachusetts



Massachusetts Department of Public Health



NEW ENGLAND FISHERY MANAGEMENT COUNCIL



THRIVING IN THE BIG DATA ERA

DATA SIZE

VOLUME
VARIETY
VELOCITY
VALUE

BIG DATA

INFORMATION OVERLOAD

RELEVANT DATA

TODAY

THE FUTURE



SAS & SMART CITIES

THRIVING IN AN ERA OF ABUNDANCE



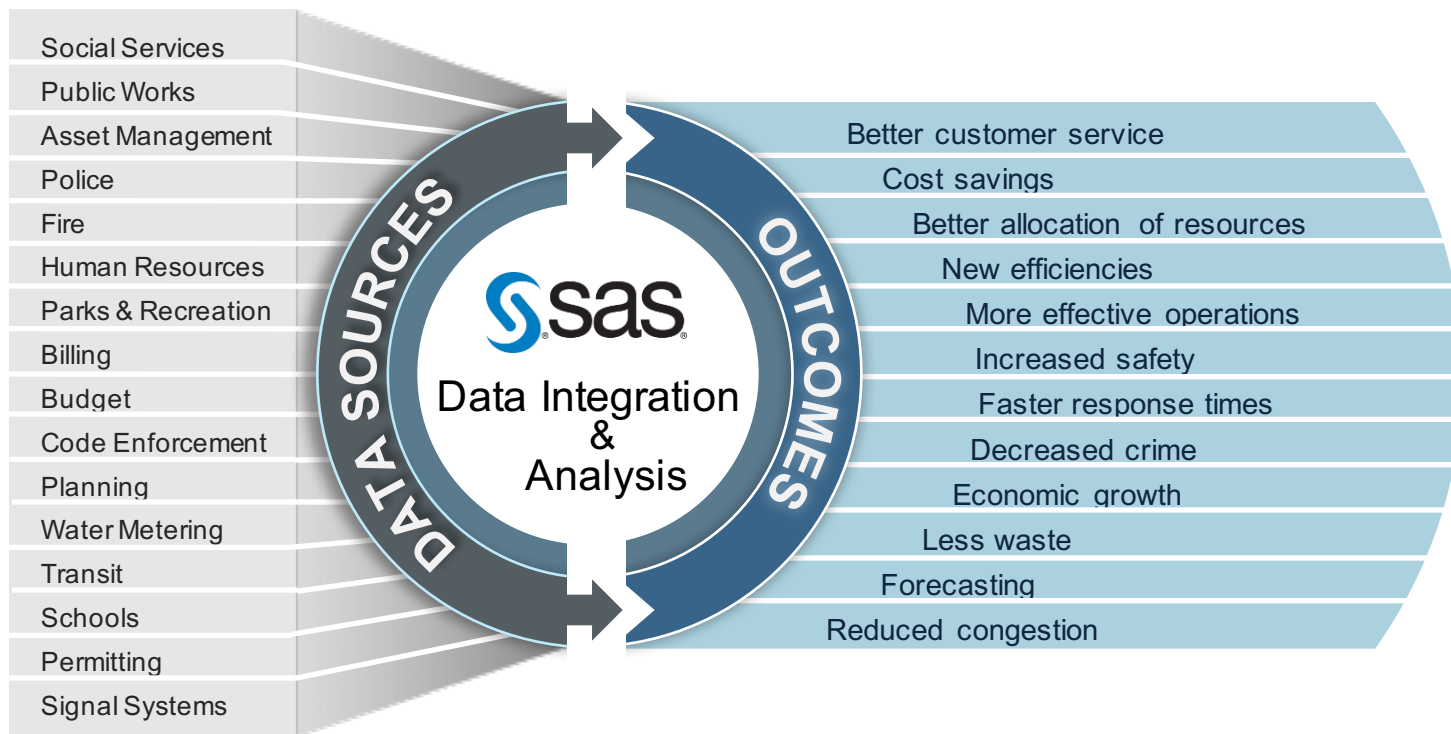
SAS & SMART CITIES

AN OPPORTUNITY-RICH ENVIRONMENT



SAS & SMART CITIES

DELIVERING VALUE THROUGH ANALYTICS



SAS & SMART CITIES

DRIVING INNOVATION THROUGH ANALYTICS

- SAS is using data and analytics to improve education, reduce fraud/waste/abuse, protect children, fight crime, save energy, conserve resources, improve health outcomes, and help states & local governments operate more efficiently
- Proven solutions in the following areas:
 - Energy
 - Fraud/Waste/Abuse across all public assistance programs
 - Public Safety
 - Transportation
 - Education
 - Children and Family services
 - Healthcare – Medicaid and State Employee Health
 - Smart Cities
- Technology platforms to support end-to-end solutions from data management to analytics to data visualization and reporting

SAS & SMART CITIES

SMART WATER

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TOWN of CARY
NORTH CAROLINA

At the Town of Cary we focus every day on enriching the lives of our citizens by creating an exceptional environment and providing exemplary services that enable our community to thrive and prosper

> Home > Departments > Finance > Aquastar

DEPARTMENT OF Finance

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- Utility Accounts ▶
- Utility Rates and Fees ▶
- Taxes and Assessments
- Business Opportunities ▶
- Financial Reports ▶
- Municipal Bond Sales ▶
- Paperless Payroll

Aquastar

Try Aquastar to view your hourly, daily, weekly and monthly water consumption data online. [Learn how to sign into your Aquastar account.](#)


What is Aquastar?

Aquastar is the Town's innovative, advanced meter infrastructure system that replaced monthly manual meter reads with a wireless system that collects multiple remote meter reads per day. The Town replaced about 60,000 residential and commercial water meters (including irrigation meters) in Cary and Morrisville with new, state-of-the-art meters.

Meters

The new water meters contain a transmitter that can communicate usage and data via wireless technology directly to the Town. This improves the effectiveness of the Town's meter reading and customer service operations while enhancing the overall quality of service to utility customers.

Thanks to its advanced technology and backup systems in the field, the new system provides accurate, timely water use data regardless of weather conditions or power outages.



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SMART WATER

Staff Contacts

Benefits of Aquastar include:

1. Allows for better leak detection and faster response
2. Reduces the cost of customer service operations, including special meter reads
3. Reduces customer service call volume, particularly related to meter readings, estimates and high bill concerns
4. Reduces carbon emissions by taking meter readers off the road (in one year, 10 meter readers drove 71,000 miles and used 7,000 gallons of fuel)
5. Reduces the amount of unaccounted water loss due to theft or inaccurate meters
6. Allows us to evaluate Town-wide compliance with irrigation ordinances
7. Increases billable revenues, accurately records consumption, and reduces unaccounted for water loss
8. Provides accurate, useful information for forecasting, facilities planning, rate setting, infiltration and exfiltration management.

Budget

The total budget for the project is \$17.9 million. It is being paid for through the Town's utility fund. Through operational savings and increased revenue, the project is estimated to have a benefit of \$27.5 million over the 17-year project life.

Contact

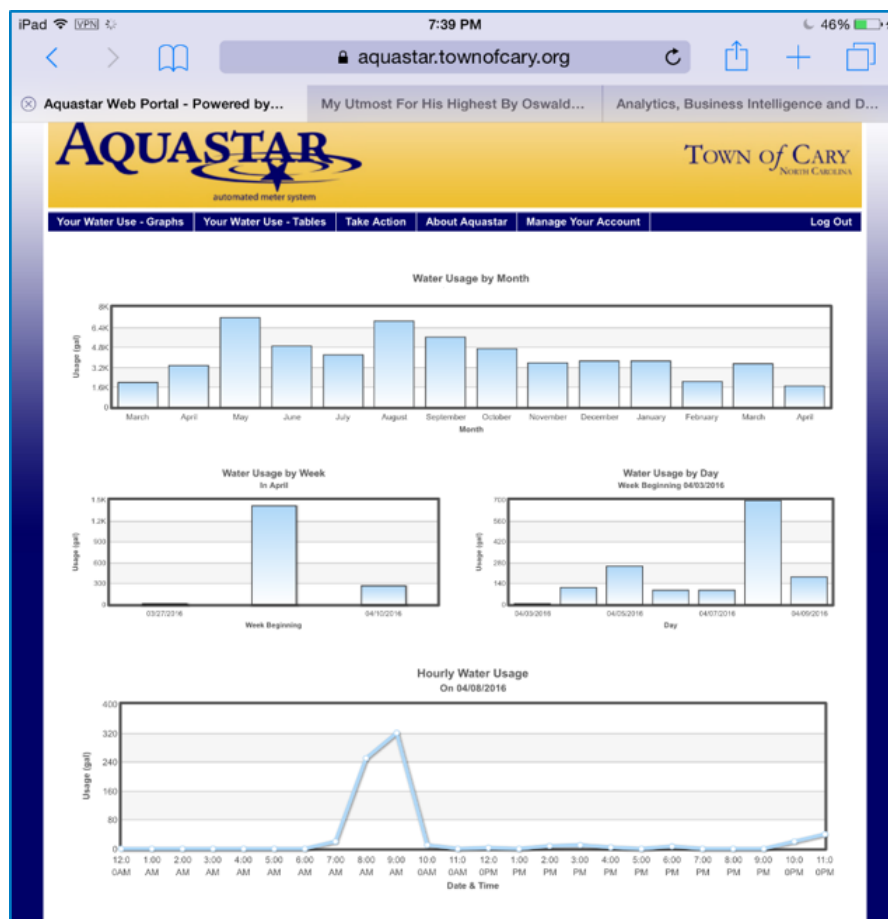
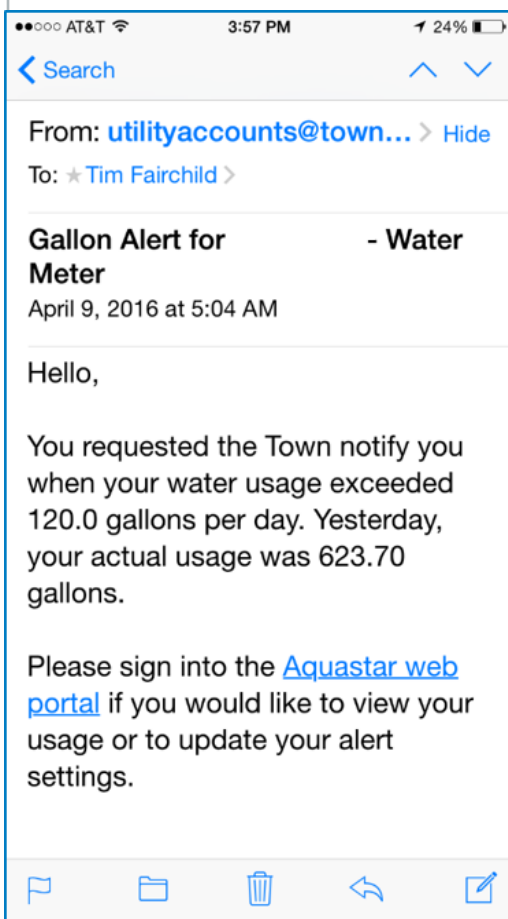
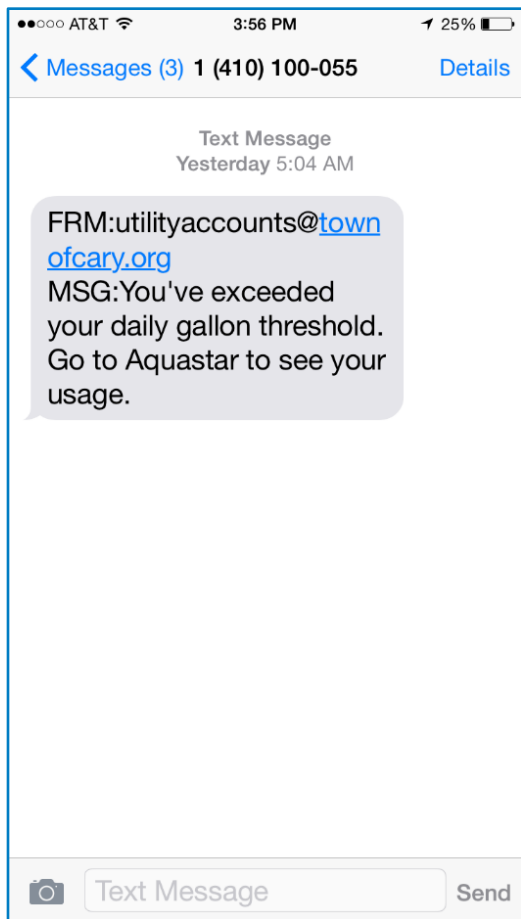
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Smart cities.
Brilliant analytics.

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THANK YOU



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