# New AirNow-Tech Features and Demonstration

Alan Chan, Marcus Hylton, and Michael Haderman

Sonoma Technology, Inc. Petaluma, CA

for

National Air Quality Conference

Austin, TX

January 25, 2018





#### **Outline**

- Background
- Features
- Demonstration
- Next Steps

## Background

#### Growing AirNow user community and amount of data

AirNow Metrics	October 2014	February 2016	December 2017
Number of data records	1 billion	1.4 billion	1.9 billion
Number of Village Green sites	0	6	8
Number of EnviroFlash subscribers	184,000	195,000	200,000
Number of Department of State (DOS) sites	0	16	25
AirNow-Tech/API users	3,113	4,800	7,900
API/app developer requests	31 million	55 million	70 million

# Background

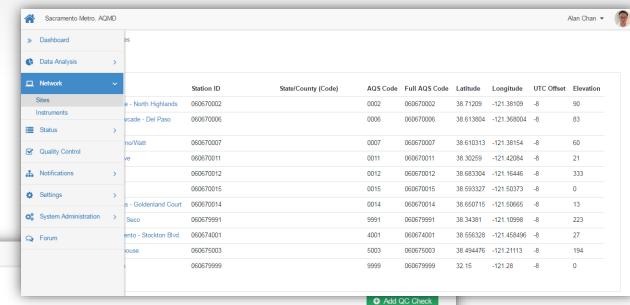
#### AirNow Program Needs

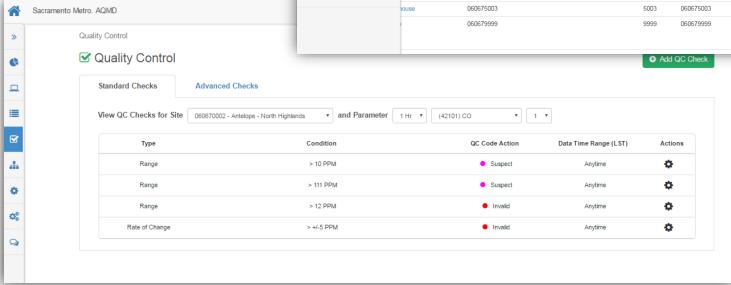
- Big data (e.g., small sensors, sub-hourly data)
- Scalable and robust data system
- Expansion to additional international users
- Ease of data management
- Compatibility with mobile devices
- Improved usability
- New worldwide analysis tool



# Features of New System

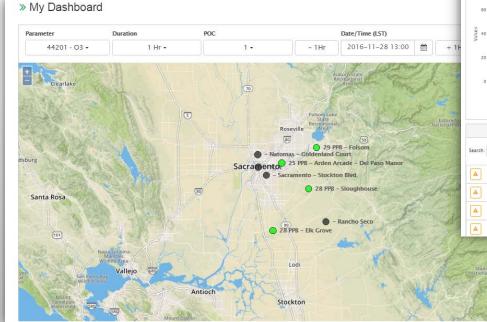
- Site/parameter management
- QC checks and Approval Mode

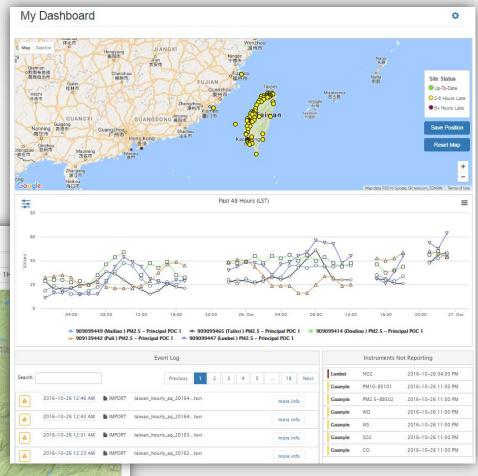




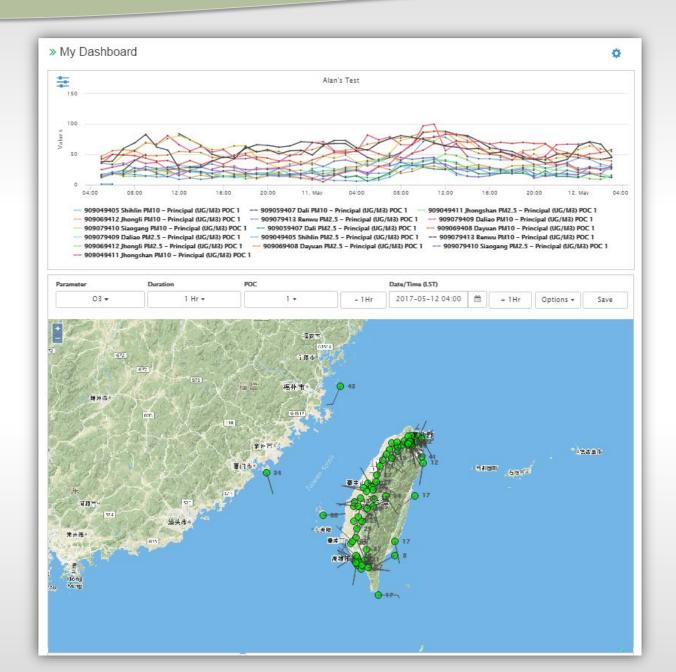
# **Dashboard Widgets**

- New widgets
  - Recent trend
  - Concentration map
- Users can add, remove, and rearrange widgets





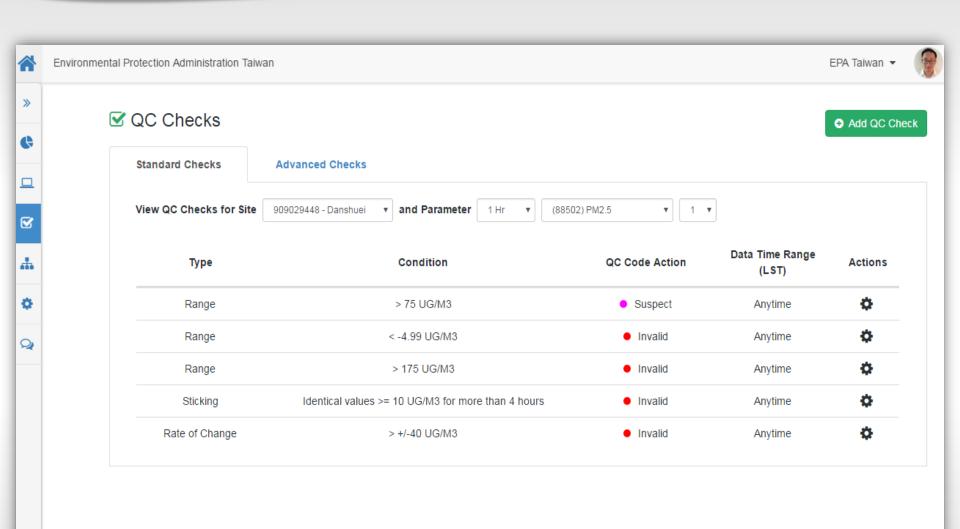


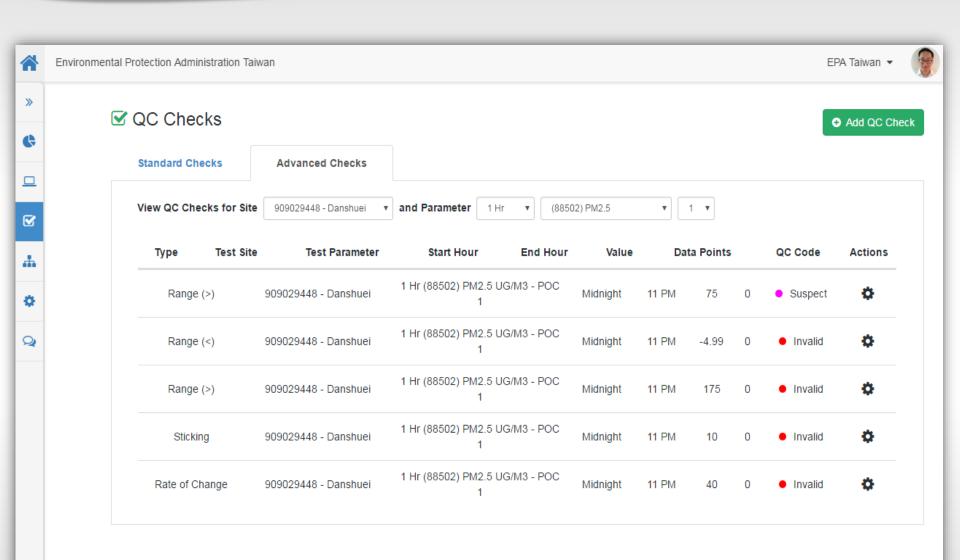


#### **Data Queries**

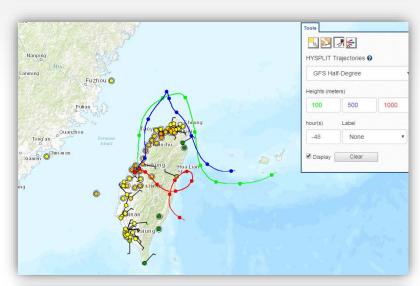
- Interactive data validation and approval
- Data editing
- QC checks

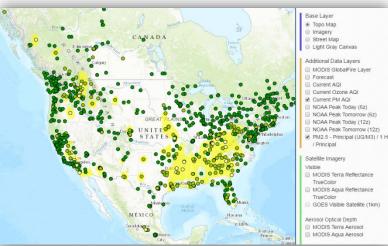




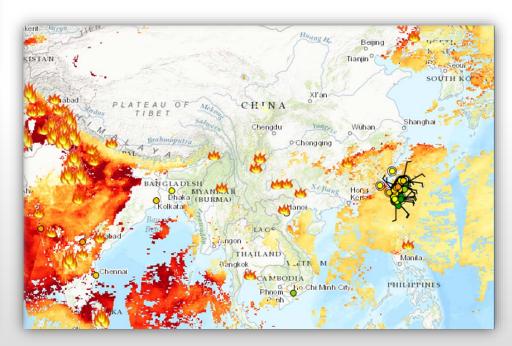


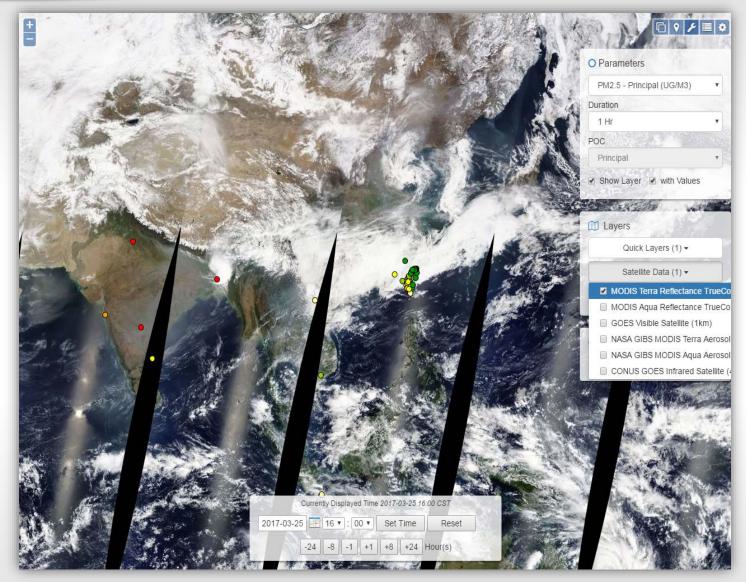
### **Navigator Enhancements**



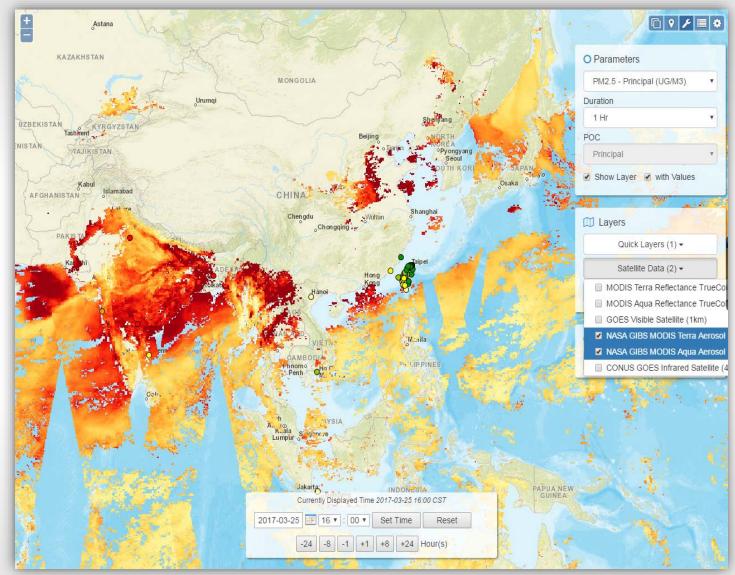


- Global point-and-click HYSPLIT trajectories
- Global fire layer

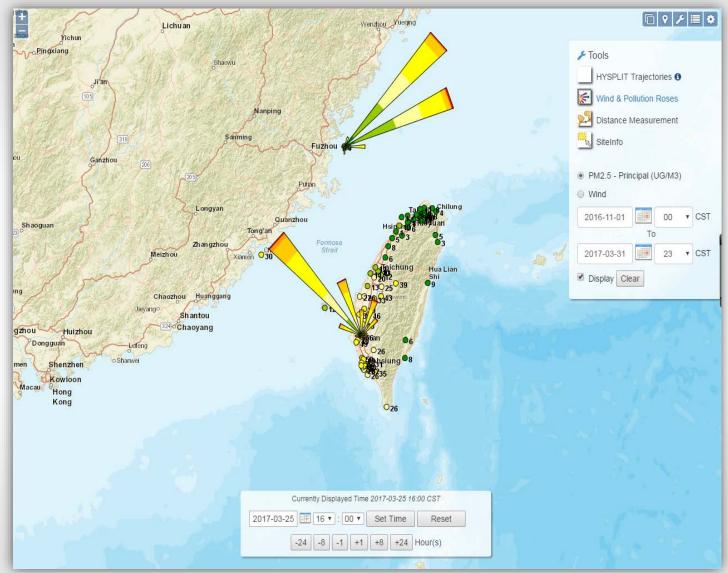














#### **Next Steps**

- Complete development and quality assurance
- User testing (let us know if you are interested)
- Feedback and fixes
- Phased roll-out
- Deployment to all users
- Webinars and tutorials

#### Contact



Alan C. Chan

Manager, AirNow and International Programs <u>alan@sonomatech.com</u> 707.665.9900

