

**moulton niguel** water district

































## California Data Collaborative



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Municipal Water District of Orange County  
June 5, 2017

## California Data Collaborative Overview

- Created Jan. 2016 by water agencies for water agencies
- Goal: Leverage modern data science to ensure water reliability and serve public good
- Powered by 501(c)3 Public Data Infrastructure Non Profit

Founding Members:	Partners:
      	       
New Members:	
     	          

## CaDC Objectives

1. Model and inform statewide conservation policy
2. Integrate data across utilities
3. Data-driven demand management
4. Support revenue stability

## THE FUTURE OF WATER MANAGEMENT

MISSION: PROVIDING TOOLS AND ANALYTICS TO SUPPORT WATER MANAGERS IN MEETING THEIR RELIABILITY OBJECTIVES



## Model & Inform Statewide Water Use Efficiency Policy

- Evaluated Long-Term Water Use Efficiency framework
- Outdoor imagery analysis to evaluate outdoor landscape area estimates
- Collaboration with:



## Model & Inform Statewide Water Use Efficiency Policy



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## Integrate Data Across Utilities

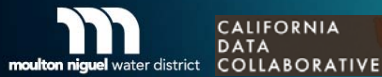
- Developed a secure cloud-based database
  - Data “clean up”
  - Identified and evaluated gaps
- Data can be easily shared with researchers
  - Requires GM’s signed consent
- Partners’ data incorporated into all dashboards and tools
  - Maximize inter-agency collaboration and transparency



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## Data-Driven Demand Management

- Turf-grass rebate program evaluation
  - Analysis of customer participation and cost effectiveness
  - Aerial imagery analysis of spill-over participation



## Support Revenue Stability

- Agencies lost \$700 Million in revenue
  - Evaluate rate study impacts to customers *before* starting the rate study
  - Developed a revenue planning tool
  - Flexible to any rate structure
  - Evaluates impacts at the account level



## Accomplishments Jan 2016-May 2017


- Best Urban Tool in State of CA and White House 2016 Hackathon
- Doubled membership in 12 months
- Hosted CA Water Data Conference at Stanford
- Recognition:
  - Honored in White House March 2016 Water Summit
  - Featured in Harper’s Magazine, Associated Press, and Water Industry News (ACWA, Water Deeply, etc.)
  - Leading example in CA Senate Panel for open and transparent data re: SB272 (Hertzberg)
  - ACC-OC Golden Hub of Innovation Winner, May 2017







## FY 2017-18 CaDC Subscription Costs





# SCUBA

Urban metered water use data integration

<b>\$17.5k</b>	<b>Less than 15,000 connections</b>
<b>\$35k</b>	<b>Between 15,000 and 150,000 connections</b>
<b>\$70k</b>	<b>Greater than 150,000 connections</b>

- Full technical working group access
- Input into statewide efficiency work
- Access to cutting edge data community
- Access to research results
- Receive landscape area data by parcel
- Flagship CaDC Analytics Deployment
- Automate data standardization pipelines
- Option to reshare data with academics

# Contact Us

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