

2018 STATE IMPLEMENTATION PLAN FOR THE IMPERIAL COUNTY 12 ug/m^3 PM_{2.5} ANNUAL STANDARD

May 25, 2018



Overview



PM2.5 SIP



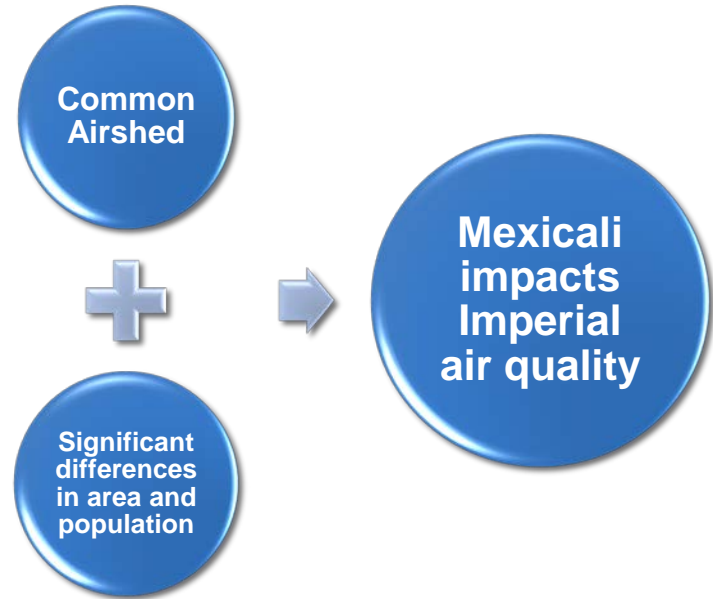
Monitoring
Efforts



Collaboration



Calexico & Mexicali

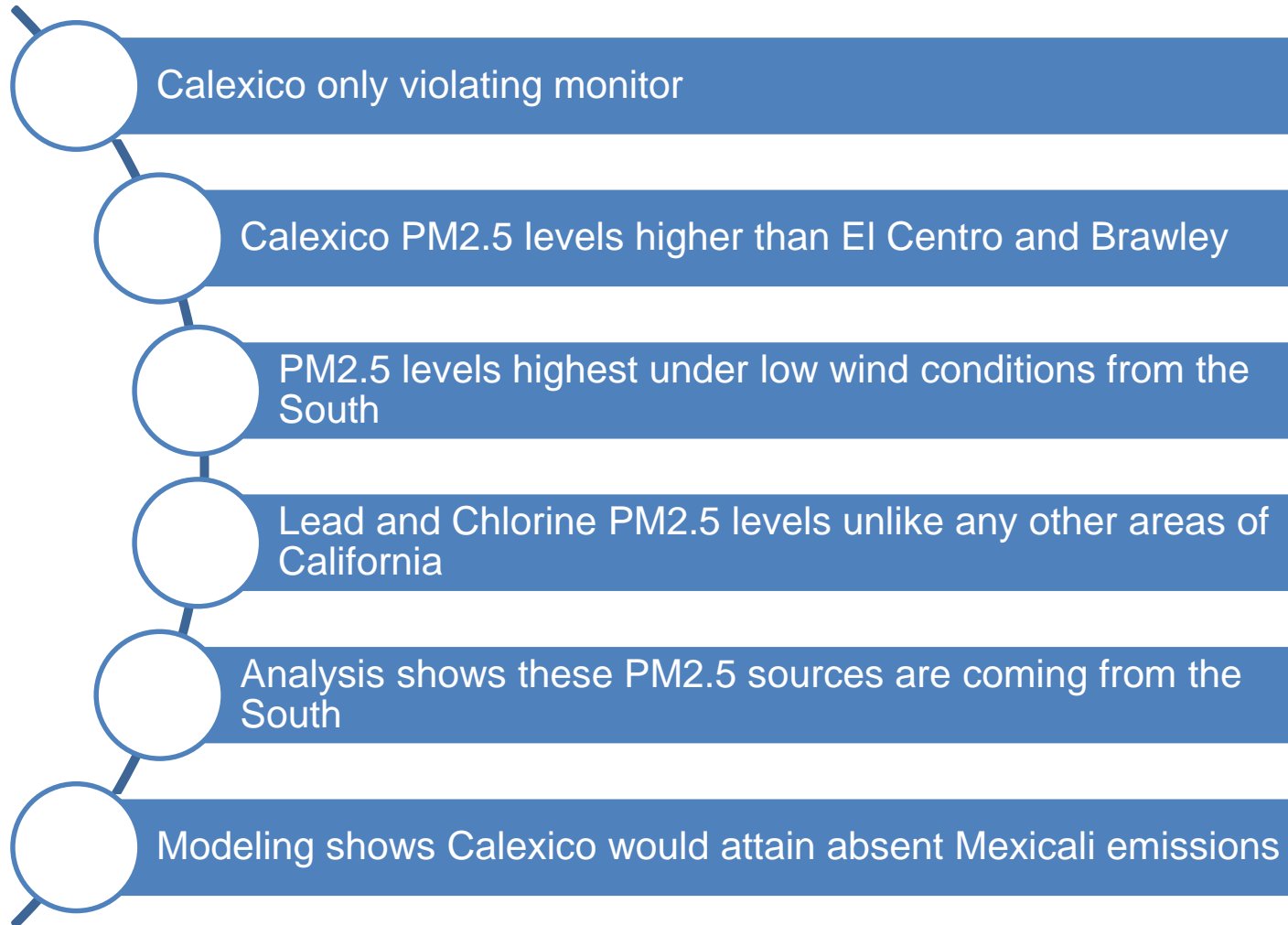


	Calexico	Mexicali
Area (sq. miles)	8.4	44
2010 Population	38,512	689,775

Wintertime Border Air Quality



Pollution Transport Analysis



New District Controls

- **Lower NO_x emission limits** for boilers, steam generators, process heaters, and residential water heaters
- **Management practices to limit NH₃** emissions from biosolids, animal manure, and poultry litter composting
- **New residential wood burning devices** required to be clean burning
- **Curtailment of residential wood burning** in Calexico when PM2.5 levels are forecasted over 35 ug/m³



Mexicali Monitoring

Monitoring

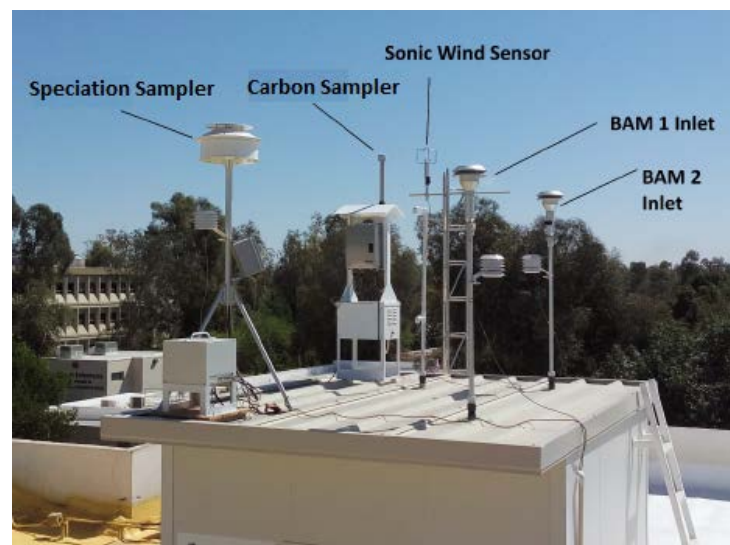
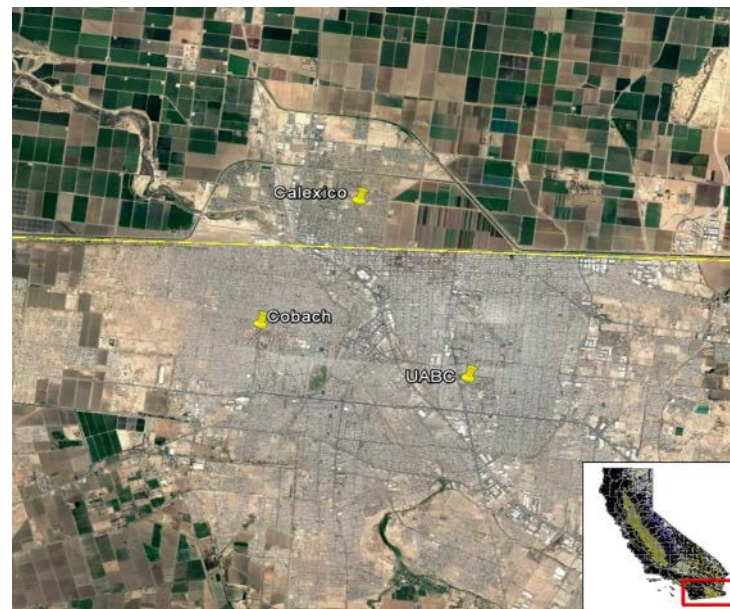
- EPA funded contract
- Data collected April 2016 – April 2018 at two sites in Mexicali

Parameters Measured

- PM_{2.5} mass
- Speciated PM_{2.5} (mass, metals, ions, carbon)

Analysis of Data Collected

- CARB to analyze sources impacting the Mexicali sites and Calexico



Monitoring Improvement – Next Steps

Local Conditions

- Improve understanding at the local neighborhood level
- Benefit disadvantaged communities in Imperial

Technologies

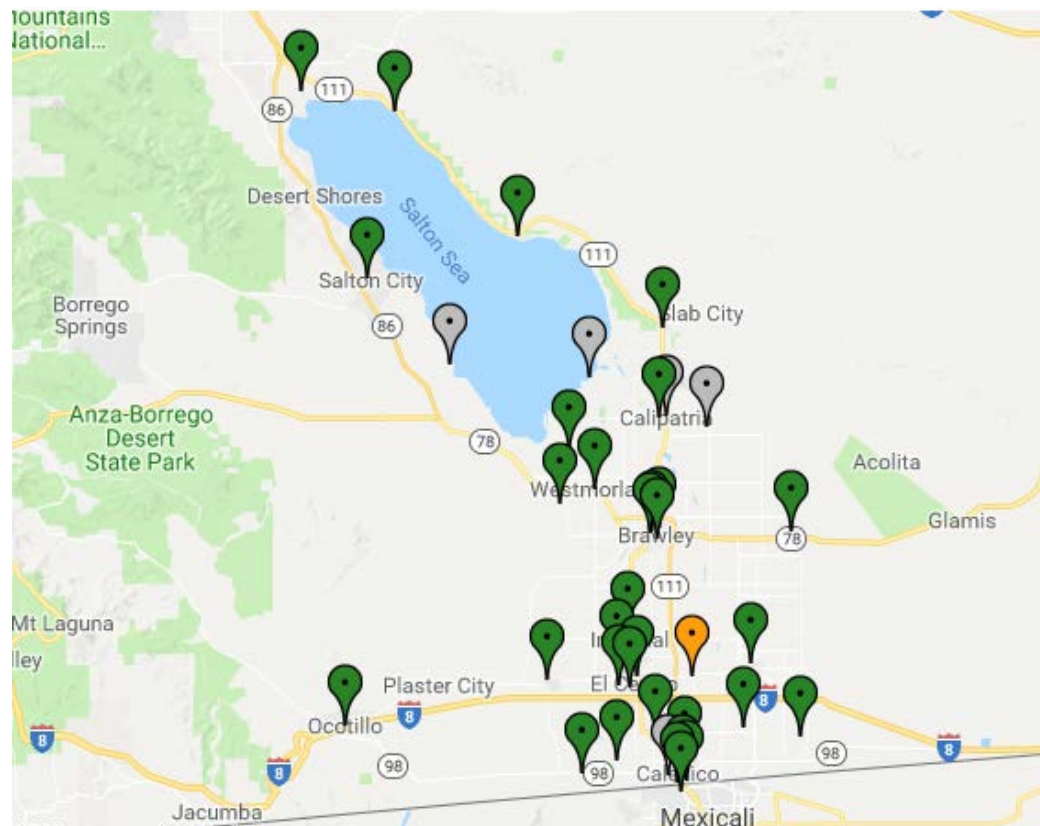
Deploy low-cost sensors

- Utilize the best monitoring technologies
- Learn more about the placement, operation, and maintenance of new air monitoring technology

Community Monitoring of PM10 and PM2.5

Comite Civico del Valle Monitoring Network

- IVAN (Identifying Violations Affecting Neighborhoods)
- 40 monitors
- Measures PM10 and PM2.5



Elevated PM10 Levels

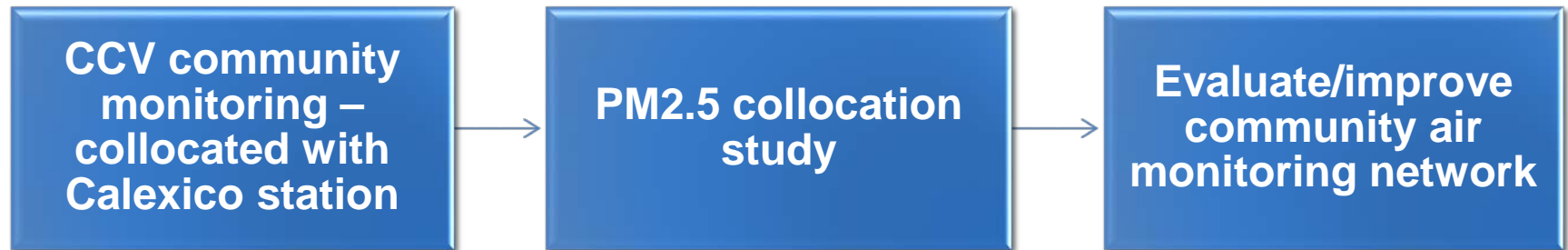
- Community monitors identified hourly PM10 values over 995 ug/m3
- Regulatory monitors set at a maximum value of 995 ug/m3
- CARB plans to increase the monitor threshold to capture these high hours
- CARB investigating source of high PM10 concentrations



Community Concerns



Collaborative Efforts with the Community



CARB and Air District Efforts



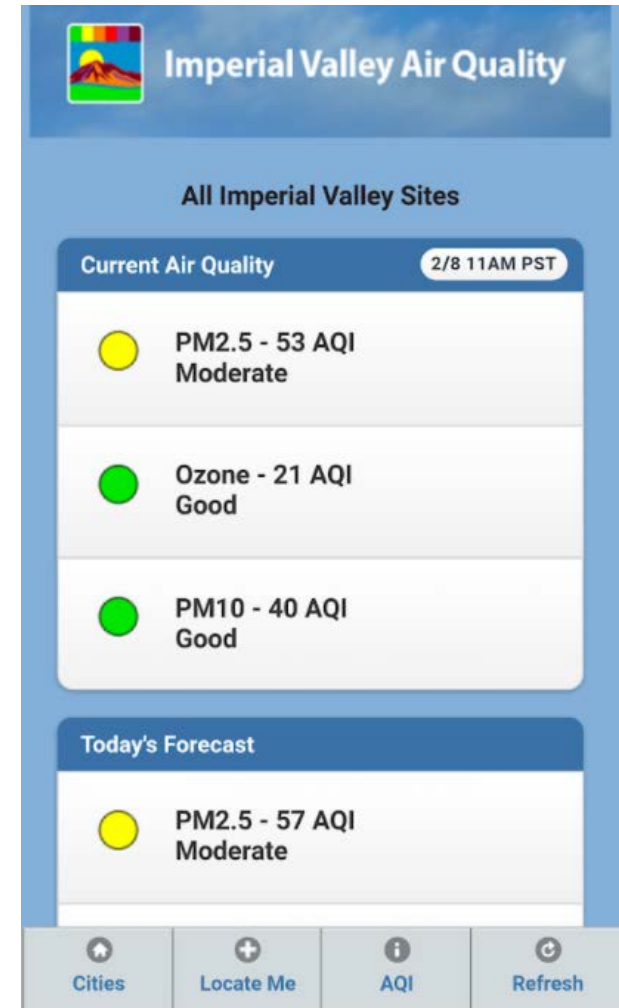
Air quality and health website and mobile application



AQI advertisement – billboards and media



Vehicle idling emissions study – Calexico East and West POE

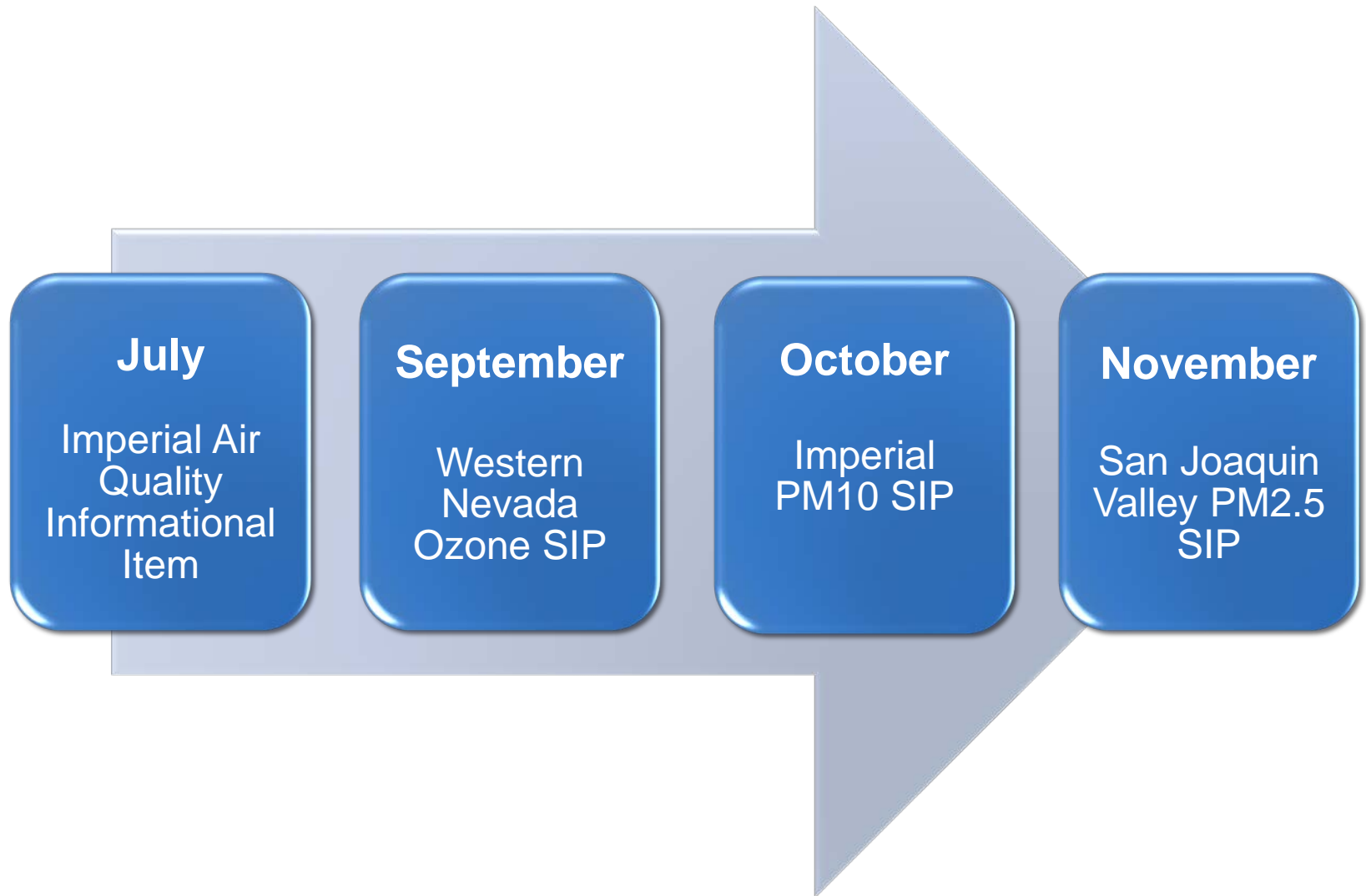


Collaborative Efforts with Mexico

- Border 2020
- Mexicali - Imperial County Educational Media Campaign
- Mexicali Monitoring (2016-2018)
- California-Mexico Memorandum of Understanding
- Program to Improve Air Quality in Mexicali 2011-2020 (ProAire)



2018 SIP Items



Staff Recommendation

- Imperial County PM2.5 Plan meets applicable requirements of the Clean Air Act
- The District commits to adopt five new rules to control local sources
- Approve Imperial County PM2.5 Plan as a revision to the California SIP
- Continue collaborative efforts with the community, District, EPA and Mexico