

Community Air Monitoring Data Portal

MENA SHAH

SEPTEMBER 2018



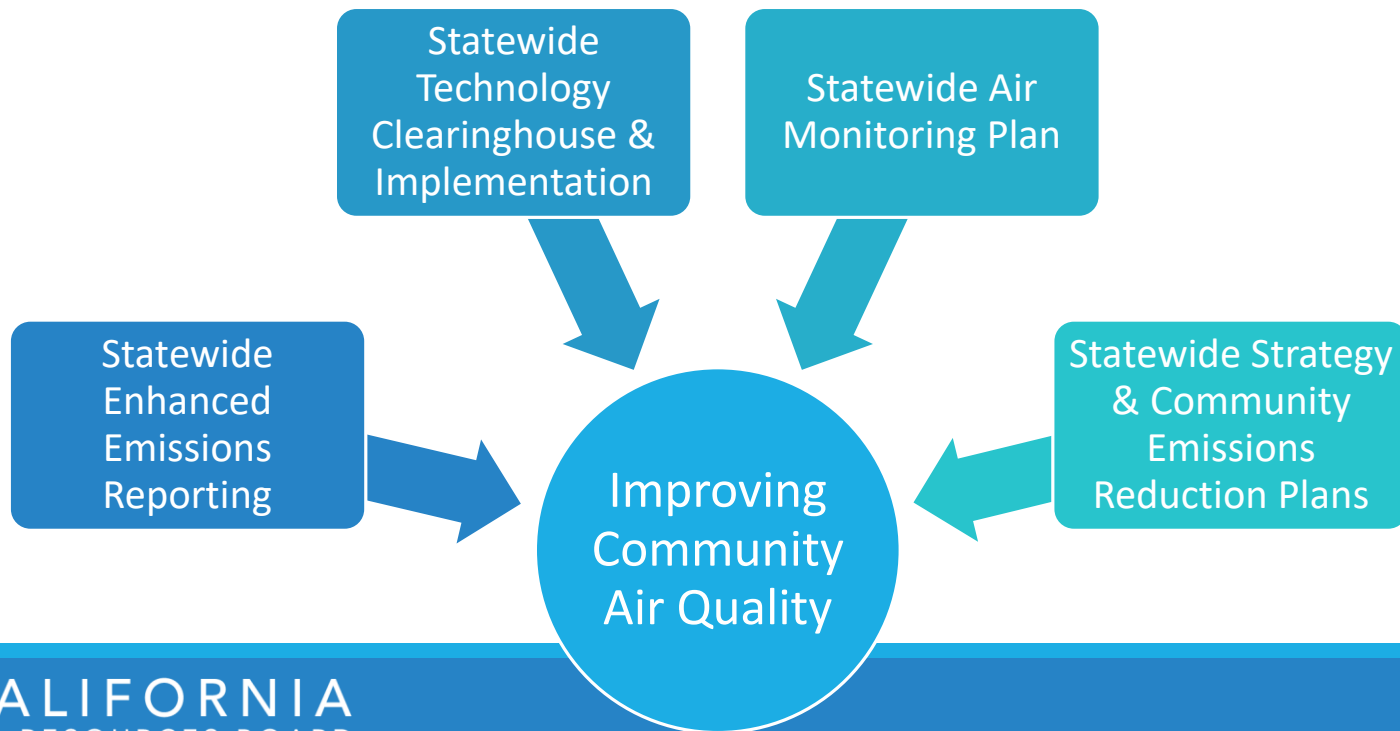
Background:

Assembly Bill 617 (AB 617) – Targeting Community Air Quality

AB 617 aims to improve air quality within California's most impacted communities

- Shift in focus from regional to community level

CARB's Roles:



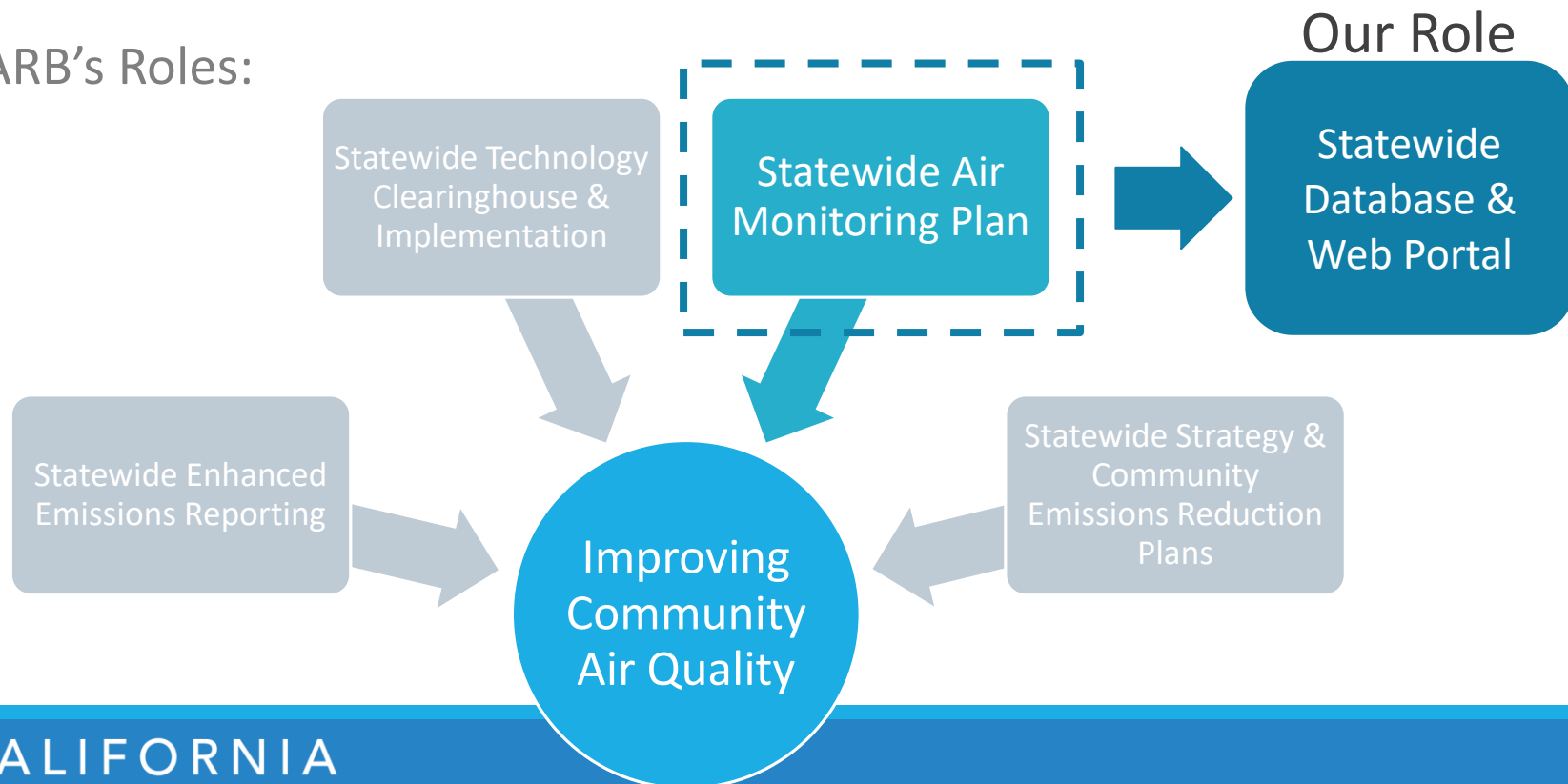
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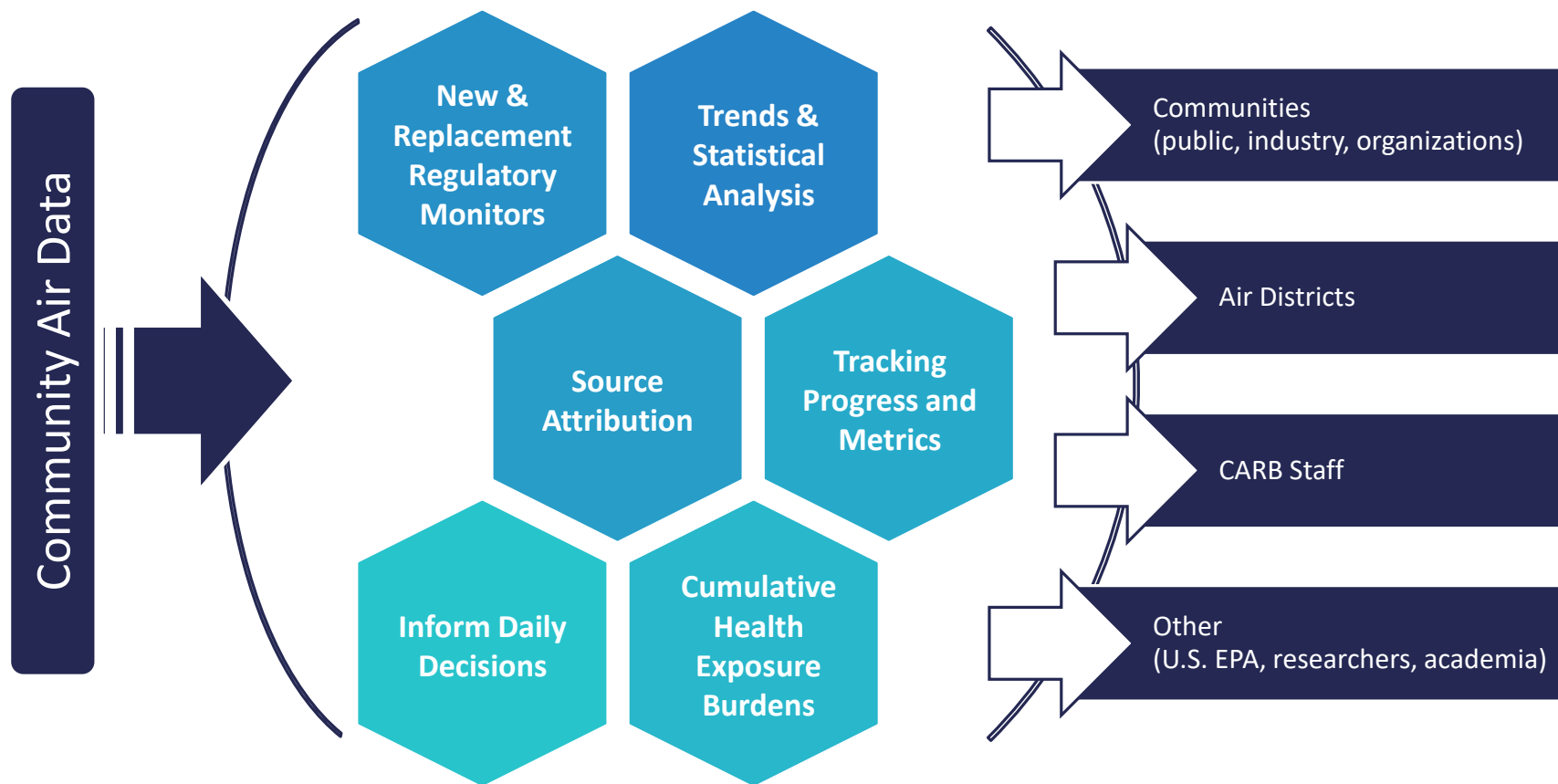
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- Shift in focus from regional to community level

CARB's Roles:



Data Uses and Data Clients



Collaborative Efforts



CARB

- Air Quality Planning & Science
- Monitoring & Laboratory
- Research
- Community Air Protection



Existing Community Portals

- San Ysidro Air Study
- IVAN



Community Based Organizations

- Environmental Health Coalition
- Physicians for Social Responsibility
- Central Valley Air Quality Coalition
- All Positives Possible



Air Districts

- South Coast
- Bay Area
- San Joaquin
- Sac Metro
- San Diego
- Imperial



U.S. EPA

Data Portal Outreach Activities

Communities

- Community Members in San Diego, South Coast, San Joaquin Valley, Bay Area...
- Comite Civico Del Valle
- Environmental Health Coalition (EHC)
- Physicians for Social Responsibility (PSR-LA)
- Central Valley Air Quality Coalition (CVAQ)
- Central California Environmental Justice Network
- Central California Asthma Collaborative
- All Positives Possible
- Groundwork Richmond
- Bayview Hunters Point Community Advocates
- City of Richmond

Local Air Districts

- San Diego APCD
- South Coast AQMD
- San Joaquin Valley APCD
- Bay Area AQMD
- Sacramento Metropolitan AQMD

Industry

- Western States Petroleum Association (WSPA)
- California Council for Environmental and Economic Balance (CCEEB)

Outreach Feedback

Communities

- Data availability
- Meaningful data
- Download tool
- Complaints & alerts
- Mobile friendly

- Data quality
- Data timeliness
- Data context & Interpretation
- Metadata
- Resources, education, links
- Data Sharing

Air Districts

- Role of district vs. CARB portals
- Data consistency
- Transmission protocols
- API & iframe

Our Goals & Expectations

Availability

- Provide access to data across the State

Timeliness

- Maximize timeliness of data availability

Flexibility

- Support display of different types of monitoring data

Transparency

- Provide information on data collection and processing

Key Features for Community Data Portal



Web map



Real-time air pollution plots



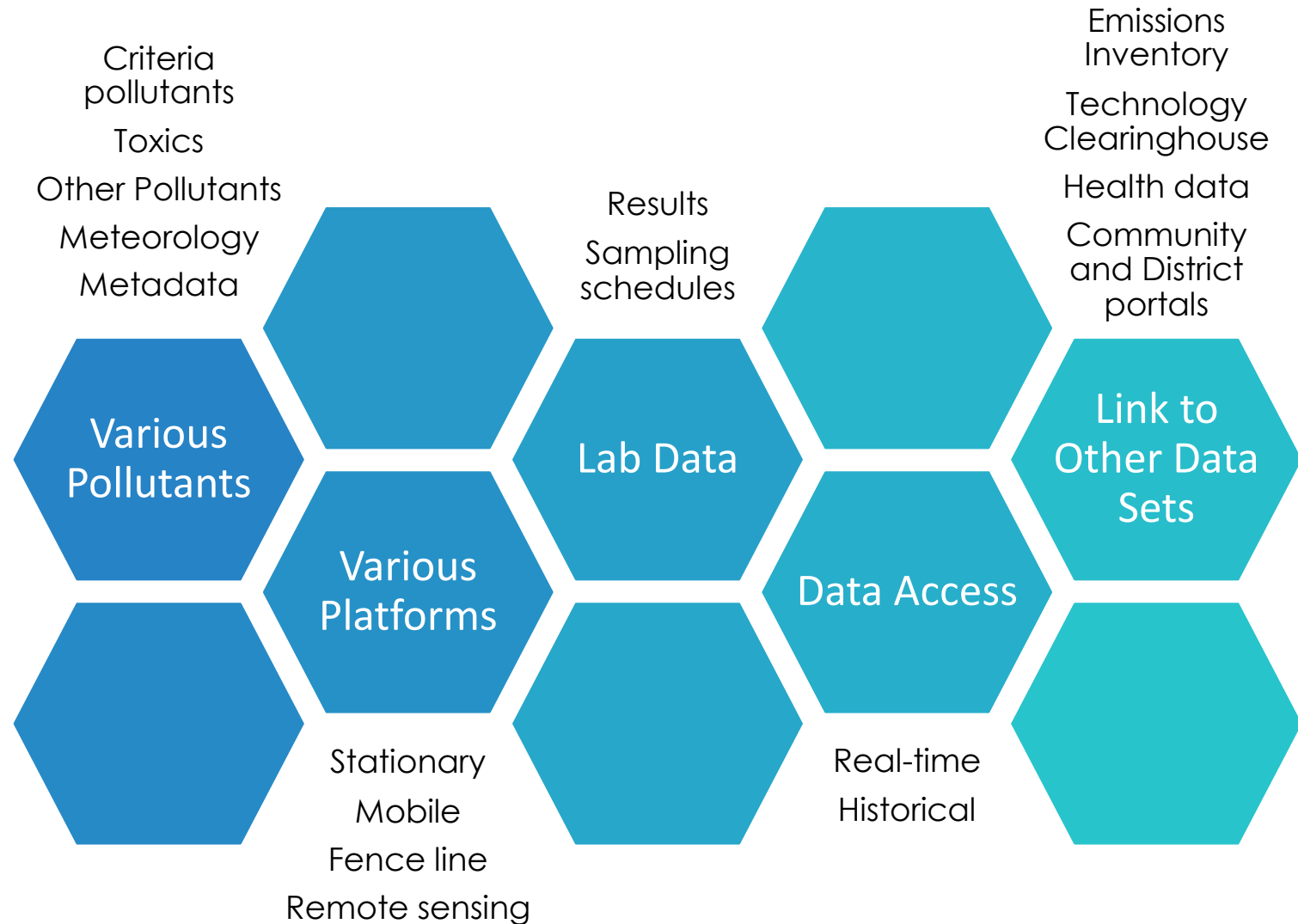
Data download tool



Additional resources



Challenges: Differing Datasets



Additional Challenges

Data quality and limitations

- How accurate/reliable are the data?
- How do we indicate changes in reliability over time?

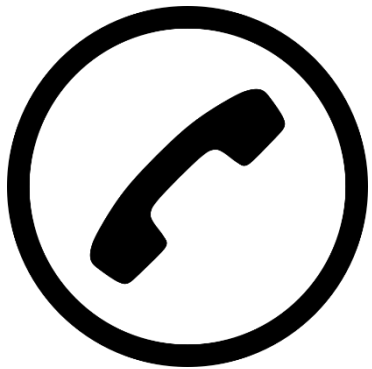
Data interpretation and messaging

- How do we include as much information as possible in an extremely clean display?
- How can we ensure data are meaningful?
- What formats/colors for displaying data?
- How can we show data from regulatory monitors?

Data acquisition/exchange

- How will CARB acquire the data?
- How soon will CARB acquire the data?

Contact Us



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Team Members

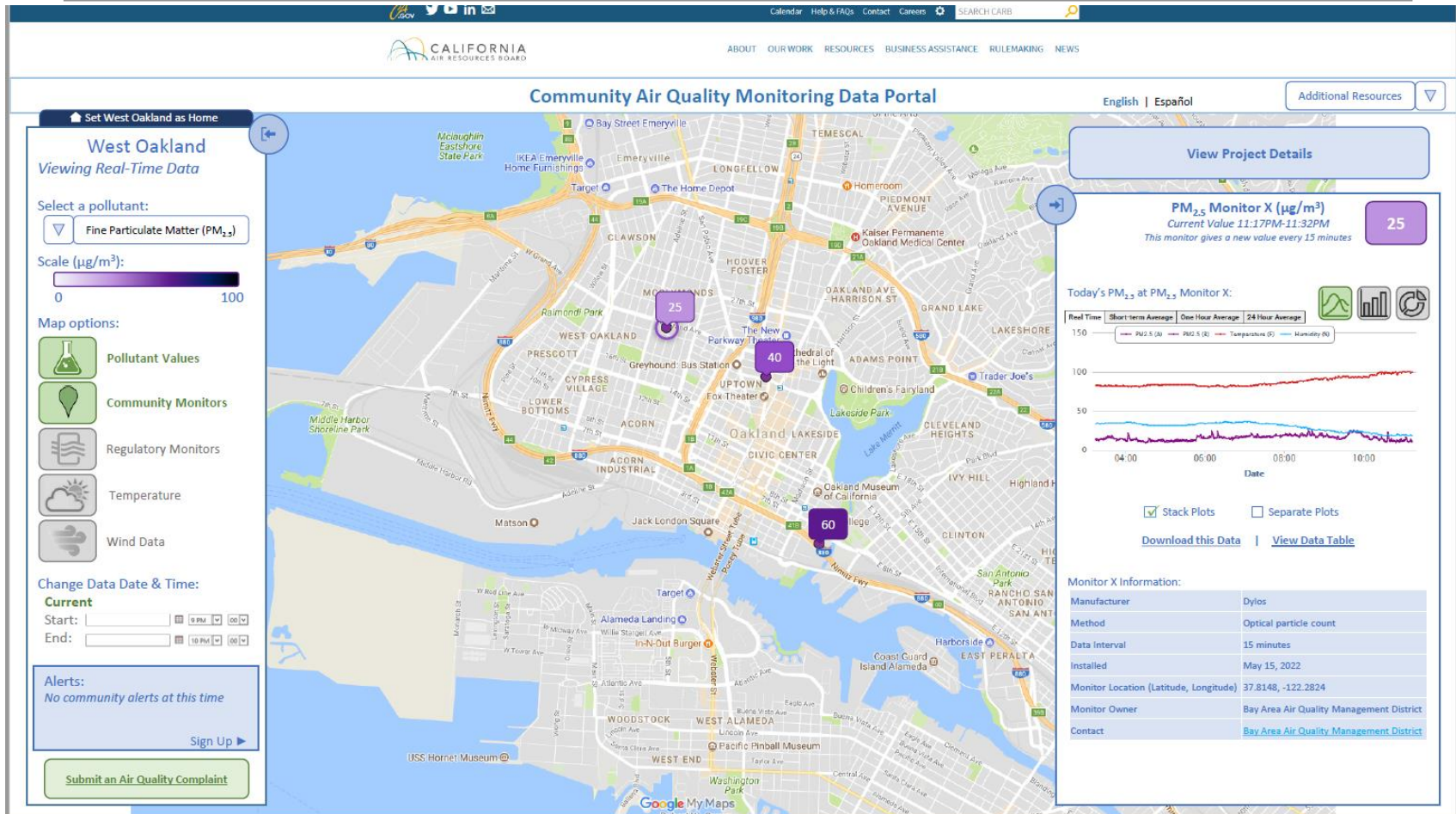
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Data Portal Mock-Up (1)



Data Portal Mock-Up (2)

