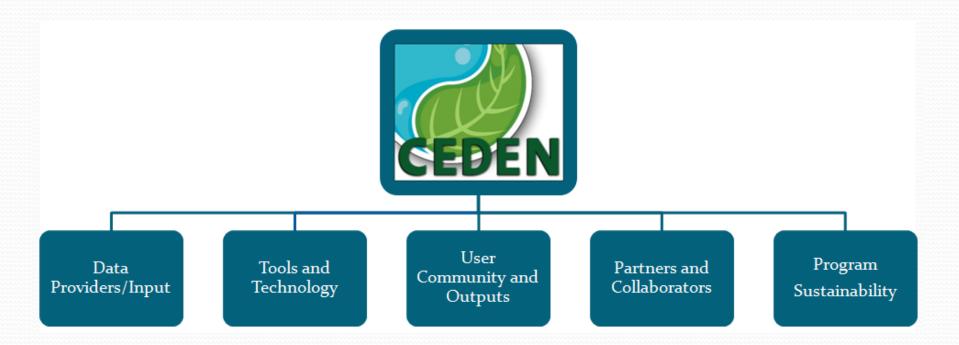


Update on the California Environmental Data Exchange Network (CEDEN)

Steven J. Steinberg, Ph.D., GISP Principal Scientist – Information Management and Analysis CEDEN Program Manager 714-755-3260 steves@sccwrp.org

Components of CEDEN

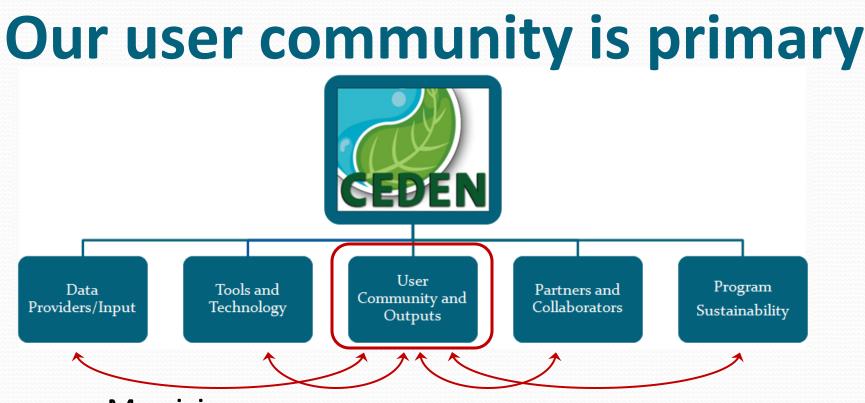




Metrics of success

- Our primary metric of success:
 - CEDEN becomes the definition of readily available data for the Integrated Report [303(d) & 305(b)]
 - Provide everyone access to the same data the State Board uses in their decision making
- Our primary clients are:
 - Water Board Staff making 303(d) decisions
 - Data providers (who's participation is essential to success)
 - People interested in a transparent 303(d) process



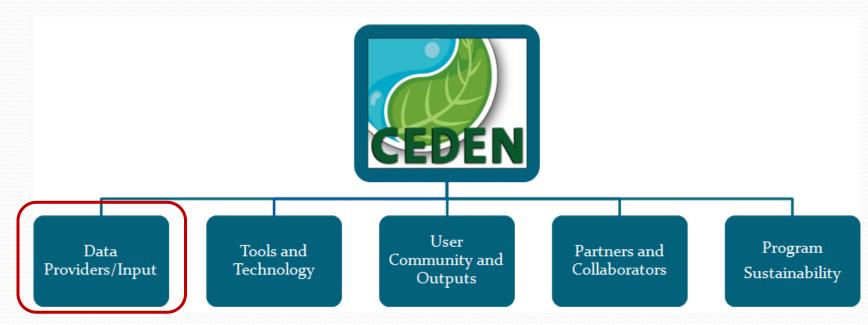


My vision:

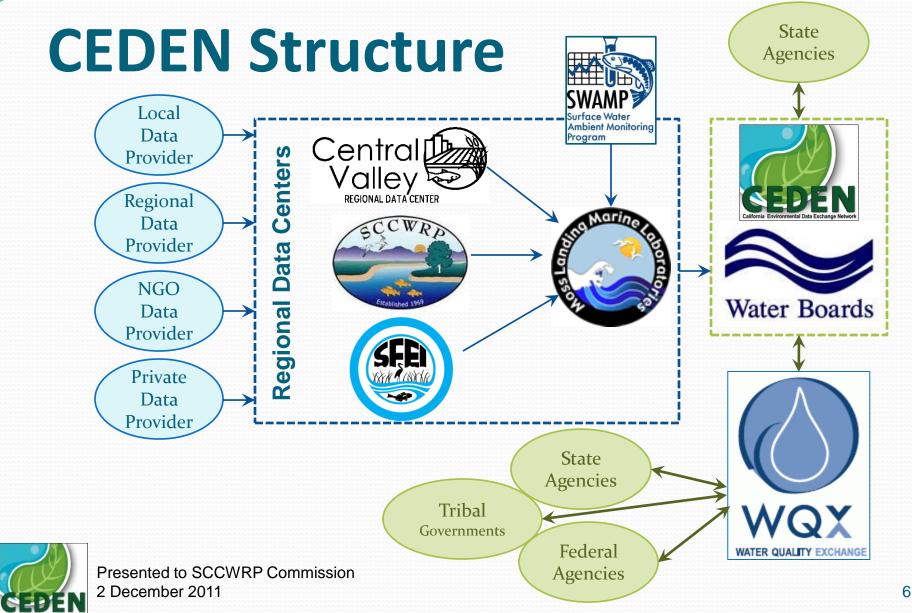
Everything we do in CEDEN must be informed by, and serve the needs of, our user community.



Incorporating Data







Incorporating Data

- Our (primary) focus is data for 303(d) process
- Last cycle, about 100 data providers participated
 - We're contact these (many, but not all, responsive)
 - We'd like most of these to submit via CEDEN
- Additionally, we'd like to bring new data providers into the process for the next integrated report



Sixteen programs



• Sixteen programs

APMP **BeachWatch** CFCP Delta FMP **ILRP** PRISM PROP50 QA RMP SCBP SCSMC SWAMP TMDL TSMP WEMAP



- Sixteen programs
- 300+ projects
- Spanning 20+ years

APMP **BeachWatch** CFCP Delta **FMP ILRP** PRISM PROP50 QA RMP SCBP SCSMC SWAMP **TMDL TSMP WEMAP**



Samples Lab Results Field Results Habitat Results Benthic Results Toxicity Results Total Results Count 550,200 3,358,371 125,592 834,279 26,061 254,204

TOTAL Results

5,148,707



Making provision of data easier

- Templates to support a variety of data types
- Regional Data Centers assist data providers
- CEDEN help desk



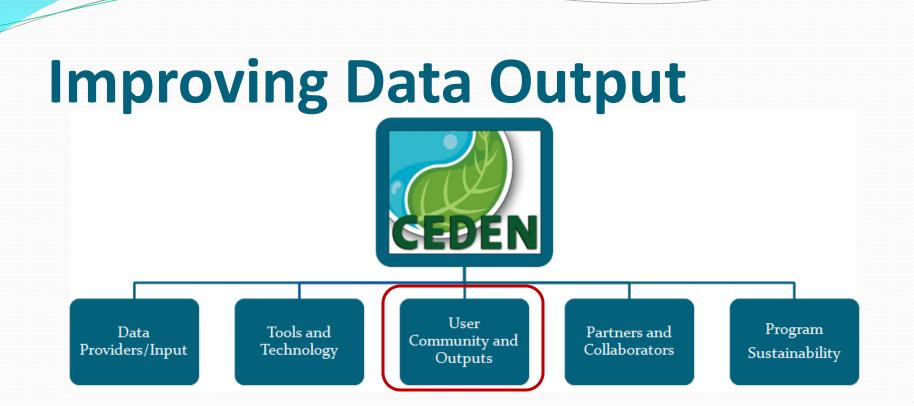




CEDEN System

- Overall, base system is in good shape
- Database contains many data types
- Additional data are being added:
 - New variants of existing categories
 - Other biotic communities (focus has been freshwater)
 - New methods (gear, QA protocols)
 - Chemicals State is reporting that are not currently in dbase (new chemicals, emerging contaminants)
 - New categories: marine debris, invasive species







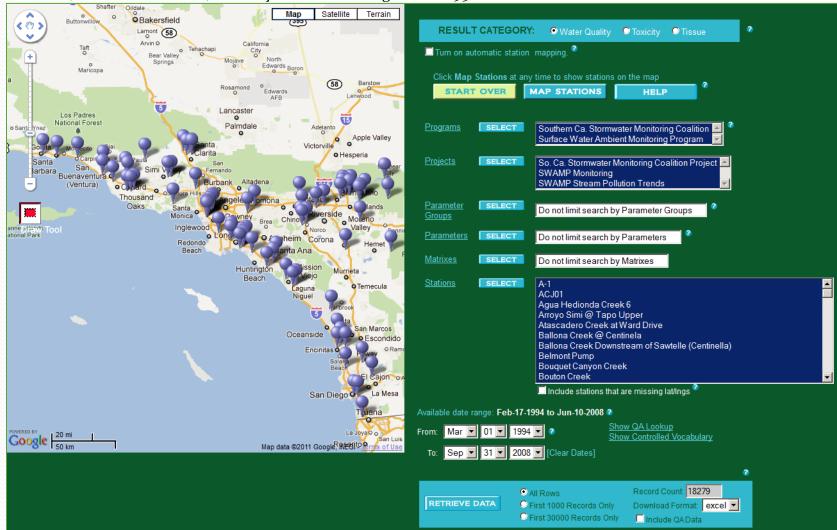
Improving Data Output

- Problem:
 - Currently CEDEN is only designed for data download





CEDEN houses data about California's aquatic habitats and other ambient waters, including lakes, streams, rivers, wetlands, stormwater, treated wastewater, and recycled water dating back to 1950.



Note: If number of records exceeds 30000, the data will be zipped and emailed to you.

Improving Data Output

- Expose data for use by new applications "Powered by CEDEN"
 - e.g. Monitoring Council portals
- Develop additional tools within the CEDEN framework and website
 - Data filtering tools to facilitate spatial, temporal and attribute based queries
 - Analytical tools to provide assessments and calculated indices





Summary

- CEDEN provides the infrastructure for:
 - Management
 - Storage
 - Conveyance
 - ... of standardized and documented data
- As we go forward our primary tasks include:
 - Continue to integrate additional data
 - Provide tools for selection and assessment of data
 - Expose CEDEN data for use by others





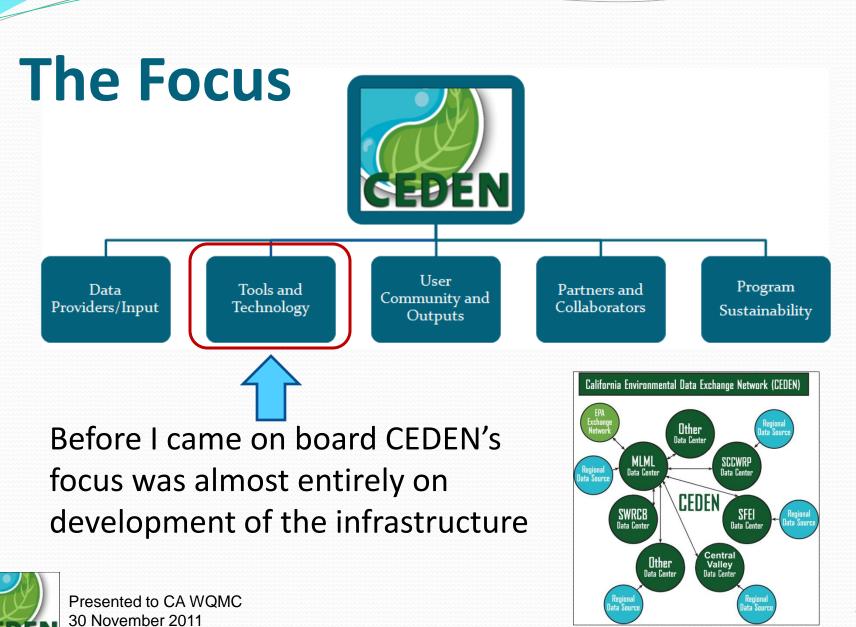
Thank You! Questions?

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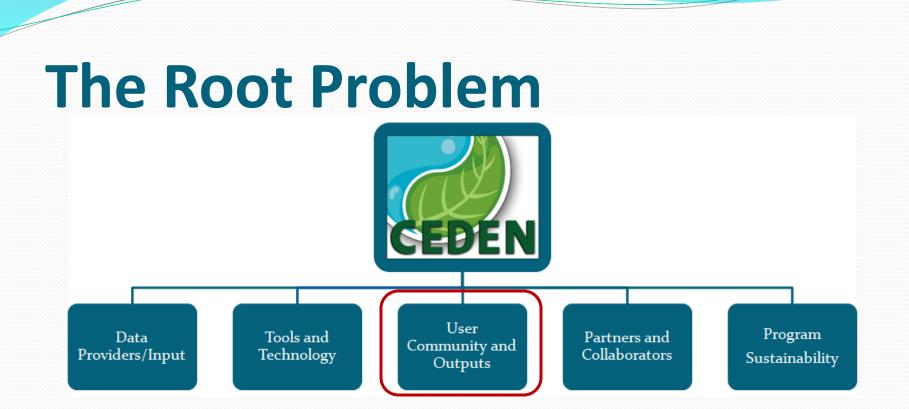








SEDEN



Lacked definition of the end-user community

No clear metrics of success

