Background

- Within California many agencies, university groups, private entities and stakeholder entities collect large amounts of environmental data
- The many groups who collect monitoring data store them in different databases with inconsistent formats, Quality Assurance Quality Control (QA/QC), and data collection procedures.
- In many cases there is a great demand for this data to be available as a comprehensive, interoperable, and standardized data set by many different groups, decision makers…..
- CEDEN is a system designed to help provide environmental data as a compressively, interoperable and standardized data source

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Principals of Data
& Information Sharing Systems
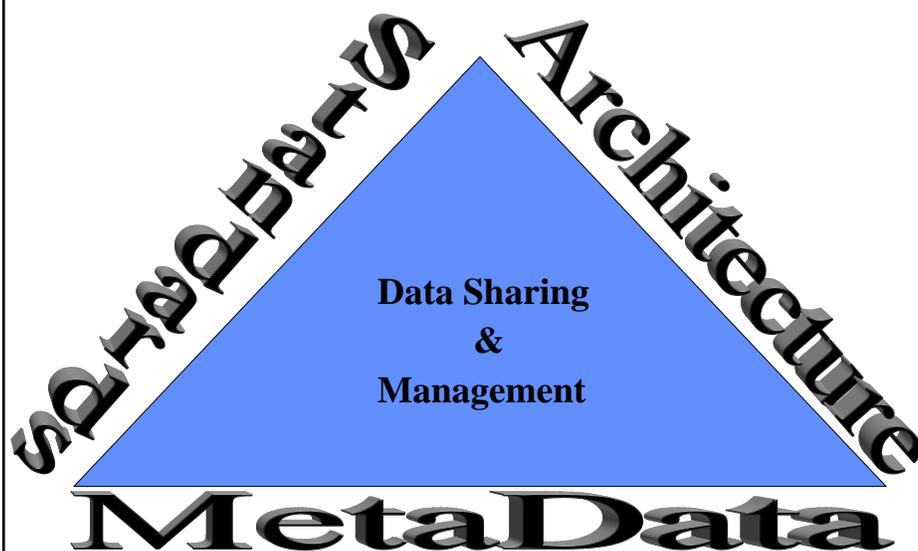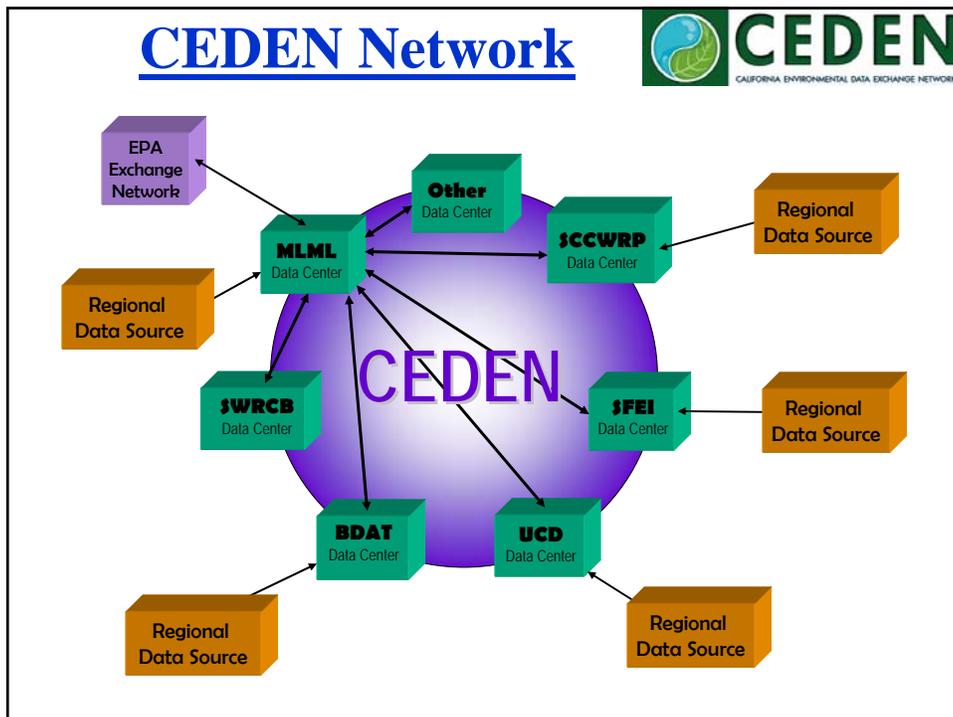
Current Activities

- Implementation of the new California Environmental Data Exchange Network. (CEDEN) sharing architecture at the Regional Data Centers (RDCs)

- Near future- development of a consensus base charter for CEDEN

- RDC activities

- CEDEN administration

Questions per Agenda

- **What kind of information and data types are supported by CEDEN** that could support the theme-based work group efforts?
  - CEDEN stores a wide variety of environmental data
    - Data types include ambient monitoring data about: fish, Bio-assessment, benthic, pesticides, nutrients, water quality, field monitoring, meteorological, hydrodynamic, habitat data, water quality data…………………

Questions Per Agenda

  - What kind of information and data types are supported by CEDEN and BDAT **that could support the theme-based work group efforts?**
    - CEDEN is an environmental data infrastructure/conveyance system; it can produce data for MANY decision support processes;
    - Example would be developing a web application to answer, the CAWQMC sportfish sub-theme "Is it safe to eat fish and shellfish from our waters?"
      - Aquatic tissue data will be available in CEDEN to help answer this question

CEDEN

What kind of information and data types are supported by
CEDEN and BDAT **that could support the theme-based work
group efforts?**

- Follow Software
- Development
- Life Cycle
- SDLC
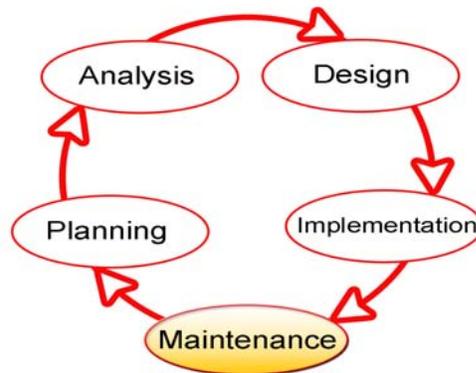
CEDEN

Questions Per Agenda

- What aspects of these systems can be used now?
  - SWAMP V2.5 client
  - Help Desk
  - SWAMP tools
  - Data transfer components
  - RDC resources
  - CEDEN data structures
  - Enter metadata into CERES
  - BDAT web page

Questions Per Agenda

- What features will be available soon and what is the time frame for future development?
  - CEDEN data on the web via the RDCs
    - Early march
  - CEDEN data flowing between the RDCs
    - Late February
  - CEDEN data flowing to the EPA Exchange Network and the NW states
    - This spring

Questions Per Agenda

- What features will be available soon and what is the time frame for future development?
  - A CEDEN web application in support of CAWQMC?
    - Budget permitting
    - This spring/summer

CEDEN
CALIFORNIA ENVIRONMENTAL DATA EXCHANGE NETWORK

Questions Per Agenda

- What resources are available for system development?
  - Staffing
    - Contracted staff from Moss Landing Marine Labs (MLML)
    - RDC Staff
  - Funding
    - Some from SWAMP and a little more from the EPA;
      - This runs out at the end of this budget cycle
    - Potential funding from Prop 84, these funds are frozen

CEDEN
CALIFORNIA ENVIRONMENTAL DATA EXCHANGE NETWORK

Questions Per Agenda

- Can these systems be used for statewide assessments and to help local monitoring programs to get meaningful data out?
  - YES!
    - Basic data availability on the web
    - Local applications to support community/regional monitoring, data management, aggregation, dissemination as data and information…… developed by the RDCs

Questions Per Agenda

- What additional players should be involved in a data management work group?
  - SWAMP Data Management Team, RDC representatives, strategic planner, Resources Agency CERES rep, ?, others as needed

Questions Per Agenda

- What level of detail is needed in shared data?
  - Allot
    - Each case needs to be considered independently to determine the best technological and institutional solutions to share data
    - NO Silver bullet
  - Process encounters mostly institutional issues NOT technical