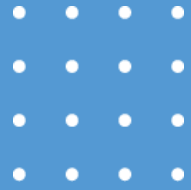# California Reportable Disease Information Exchange (CalREDIE)

- Major components
  - Reportable disease database with secure, Web based user interface
  - Automated portal for HL7 message consumption
  - Secure data warehouse

- Based on proprietary software (SunQuest)

- Went live in 2010

- Tied to national standards

- Serves infectious and non-infectious conditions

- Funded by state and federal funds
  - Epidemiology and Laboratory Capacity (ELC)
  - Public Health Emergency Preparedness (PHEP)
  - Medicaid HITECH and Medicaid Enterprise System (formerly MMIS)

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CalREDIE during the COVID-19 Pandemic

- Challenges
  - Data volume increased 40-fold
  - Reporting laboratories increased 10-fold
  - Reporting expectations increased
  - New functionality required

- Enhancements
  - New system for managing laboratory reports
  - New data warehouse
  - Separate contact tracing and case investigation system
  - Expanded human resources
  - Data matches across systems

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Future Needs for a New System

- Characteristics
  - Interoperability
  - Flexibility
  - Scalability
  - Partner engagement/Quality monitoring
  - Human resources

- Resources
  - Stable funding
  - Workforce
  - National coordination
    - Data standards
    - Information exchanges
    - Identity matching

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