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)
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
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