



Continuing Evolution: California's Two-pronged Approach to IIS and Interoperability

American Immunization Registry Association (AIRA)

2012 IIS Meeting

St. Paul, Minnesota

September 20, 2012

Noam H. Arzt, PhD

President

HLN Consulting, LLC



Agenda

- State of CA Objectives
- (Just) A Little History
- Statewide Planning Project: Spring 2011
- Current Status/Activities
- MU Task Group: Spring/Summer 2012

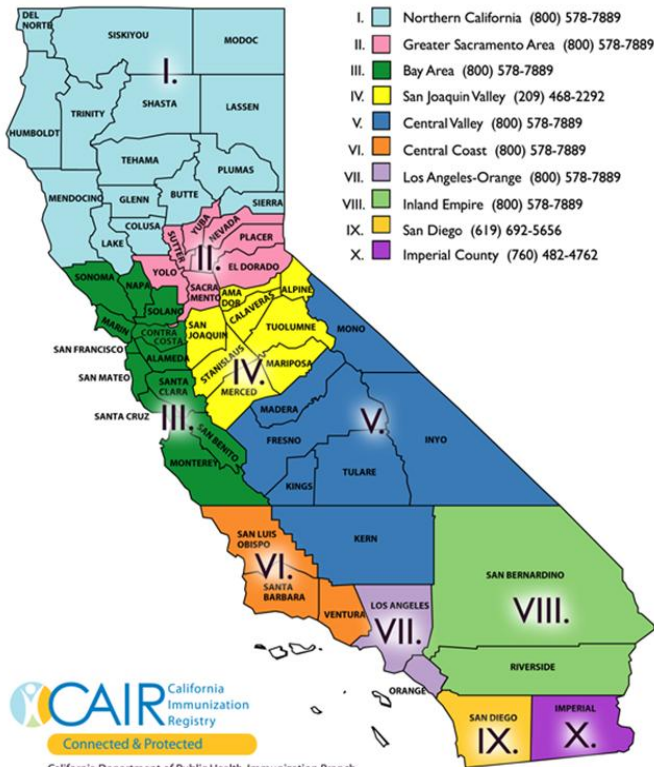


State of CA Objectives

- Any authorized user anywhere in the state to be able to immediately obtain comprehensive immunization information on any child to ensure the secure, electronic exchange of immunization records to support the elimination of vaccine preventable diseases
- Support electronic submissions of immunization data compliant with CMS Meaningful Use

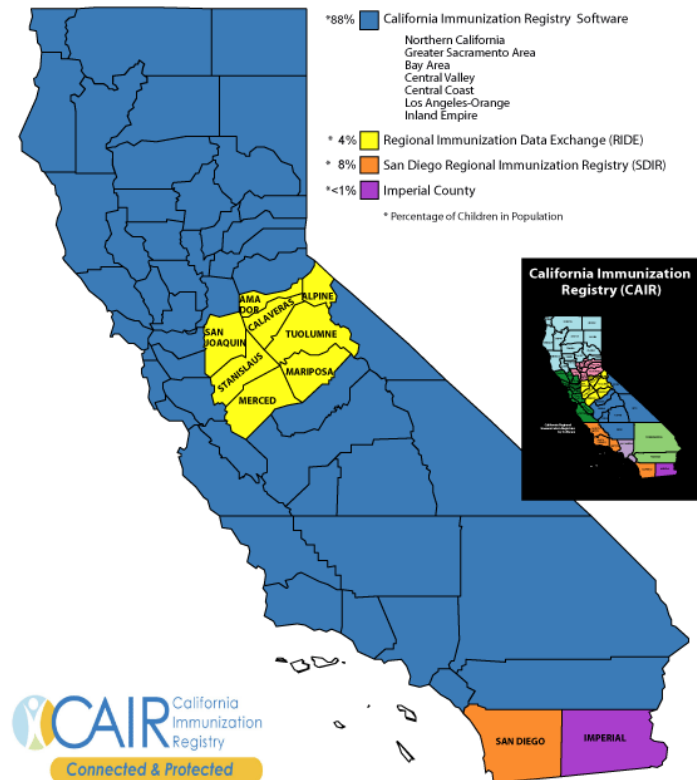
A long and complicated history...

California Immunization Registry (CAIR)



January 2011

California Immunization Registry (CAIR) By Software Application



January 2011



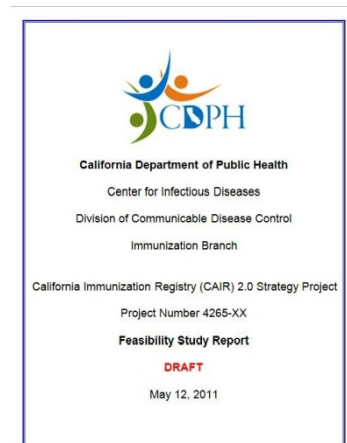
Current Limitations

- Reduction in the state budget to the Immunization Branch.
- Inability of the regions to easily interoperate and exchange data.
- Challenges in performing statewide analysis, assessments, program evaluation, and quality improvement because of data fragmentation.
- Inefficiencies due to redundancy in technology across regions.
- New requirements for standards-based data interoperability imposed by the CMS EHR Incentive Program under the ARRA/HITECH Act – Enabling and achieving Stage 1 Meaningful Use to maximize eligible professional and hospital incentive payments.
- Aging software technology underpinning the CAIR software which makes it expensive to sustain and support, and uncertainty whether it will reliably scale to statewide use.



So, in Spring 2011...

- CDPH began planning project with Cal eConnect, HLN Consulting, LLC, and Kim Consultants
- Goal: Create State Feasibility Study Report for review by decision makers
 - Business Case
 - Baseline Analysis
 - Proposed Solution
 - Project Management Plan
 - Risk Management Plan
 - Economic Analysis Workbook





Project Activities/Deliverables

- “IIS of the Future”
- Interviews with selected states (NYS, MN, MI)
- Review and consolidation of requirements
- Options for CAIR
- Stakeholder webinars to discuss options
- Final FSR



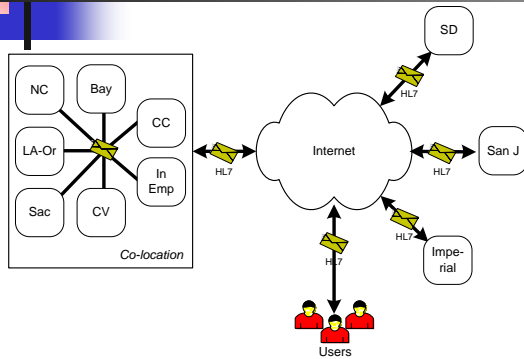
Key Business Requirements

- Statewide consolidated records
- Data export and analysis
- Continuous (24x7) operations
- Standards-based data exchange (HL7)
- Security and privacy of data
- Support for clinical operations at point of care
- Store CDC-required data
- Enable Meaningful Use
- Support HIE Core Services when available
- Stable, well-supported technology compatible with State standards

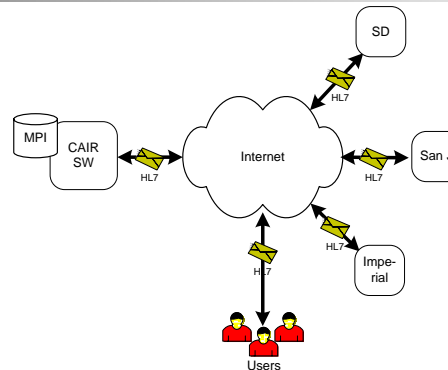
Major Sources:

- CDC Minimum Functional Standards
- 2008 CDPH IIS FSR
- ARRA/HITECH
- CAIR Business Plan
- CAIR Assessment Report
- CMS

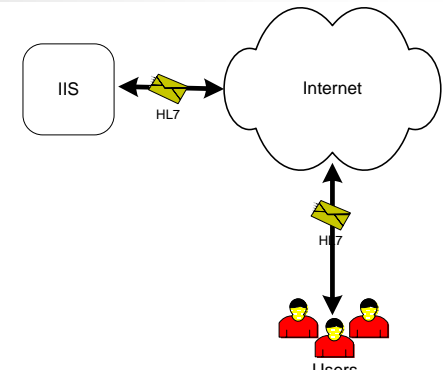
Options for CAIR



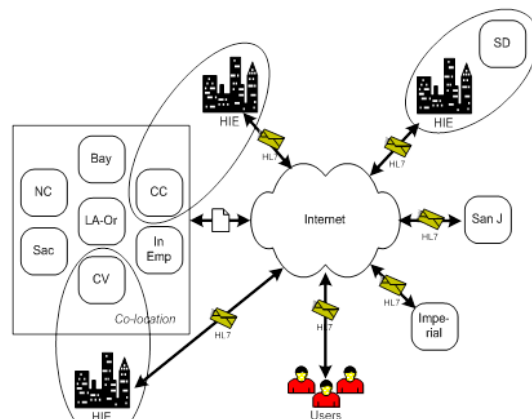
Connect Regions via HL7



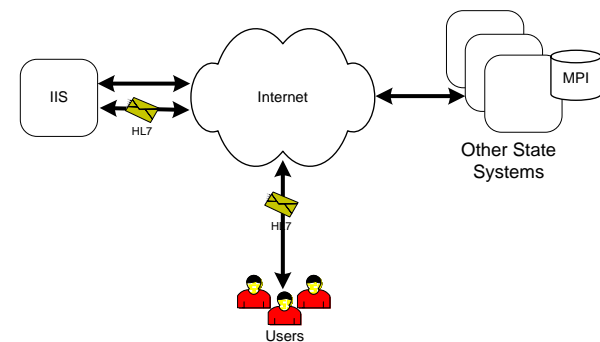
Partial Consolidation



Full Consolidation



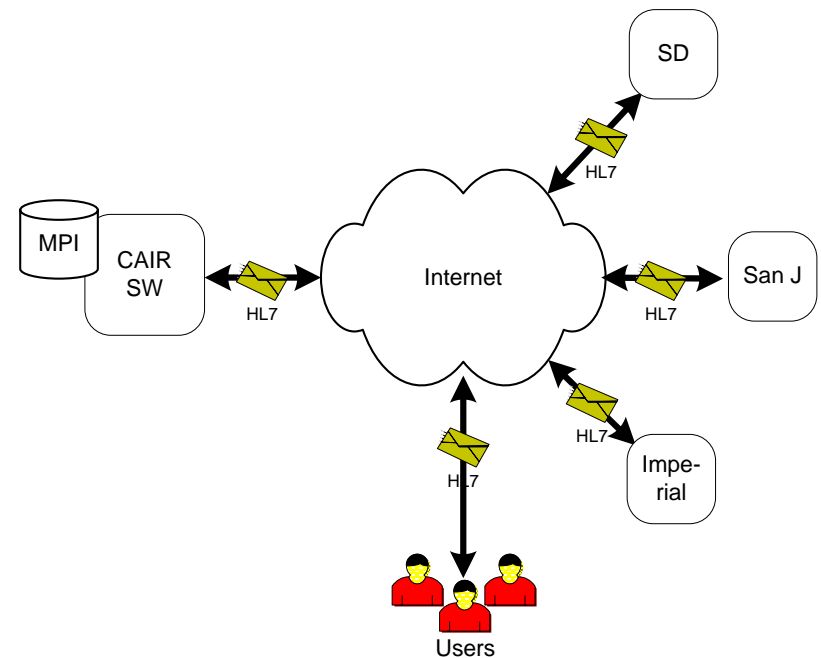
Connect Through HIEs



Expanded IIS/Integrated Systems

Stakeholder Consensus

- Partial consolidation
- Either modify CAIR or acquire new product
- New product could be COTS or PH developed/open source
- Reliance primarily on CDC (vs State) funding likely





Current Status/Activities

- Although CAIR is not able to accept Real Time HL7 Messaging...
 - CAIR can accept HL7 batch files through the use of a translator developed for IHS (HL7 JUMP)
 - CAIR has attested approximately 120 sites
 - CAIR is currently accepting production data via HL7 JUMP for around 50 locations



Meanwhile...

- FSR submitted June 2011 but has long period of review by the State
- MU Stage 1 heating up and regions using CAIR software not enabled for real-time HL7 transactions
- CDPH priority to enable MU for as many providers as possible



So...

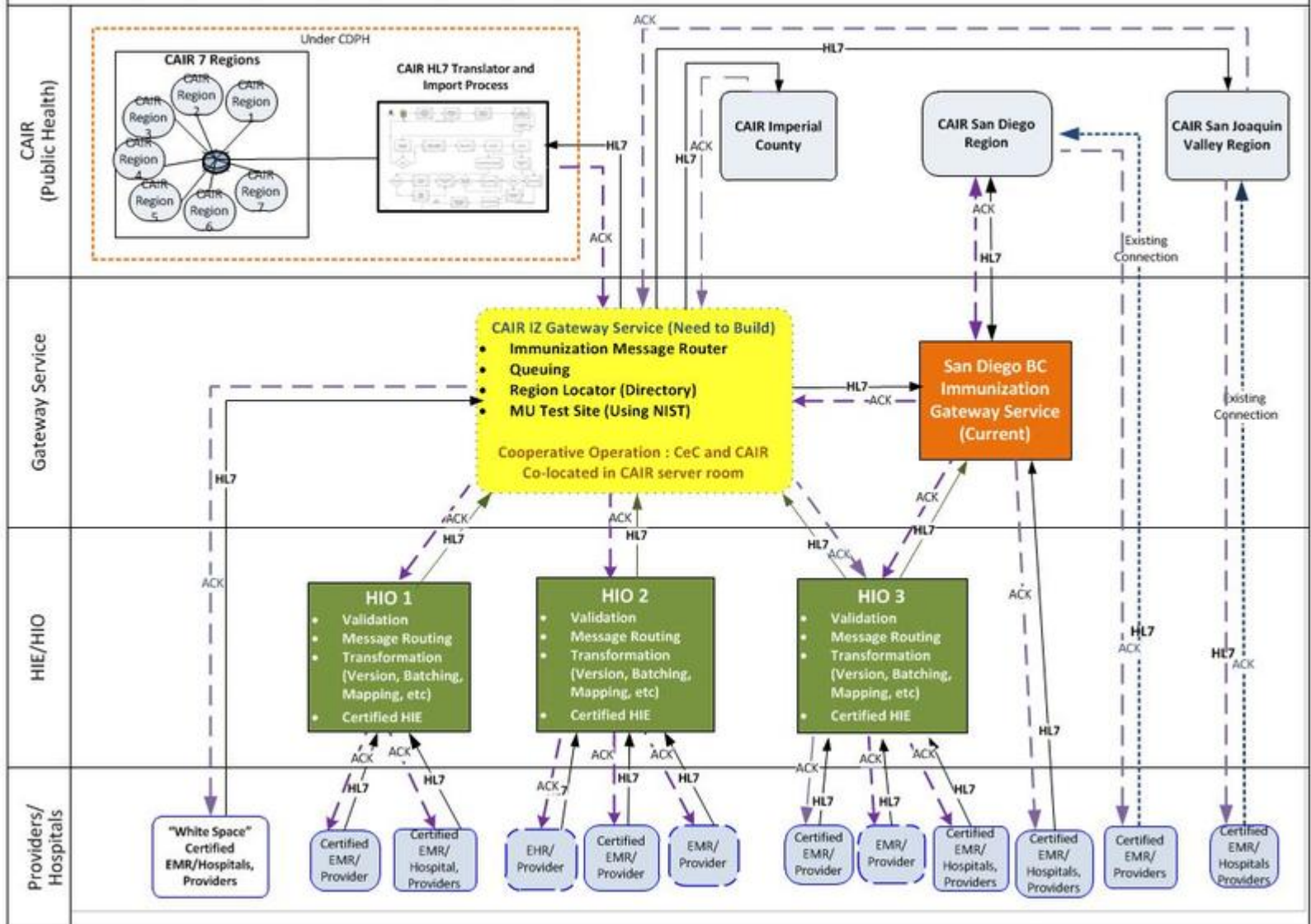
- 3/12: Cal eConnect launches task group
- Goal: Assist in establishing secure and standard data exchanges that include adopting standards and specifications for CAIR for Meaningful Use reporting
- Participation open to anyone
- 11 calls between March-July 2012



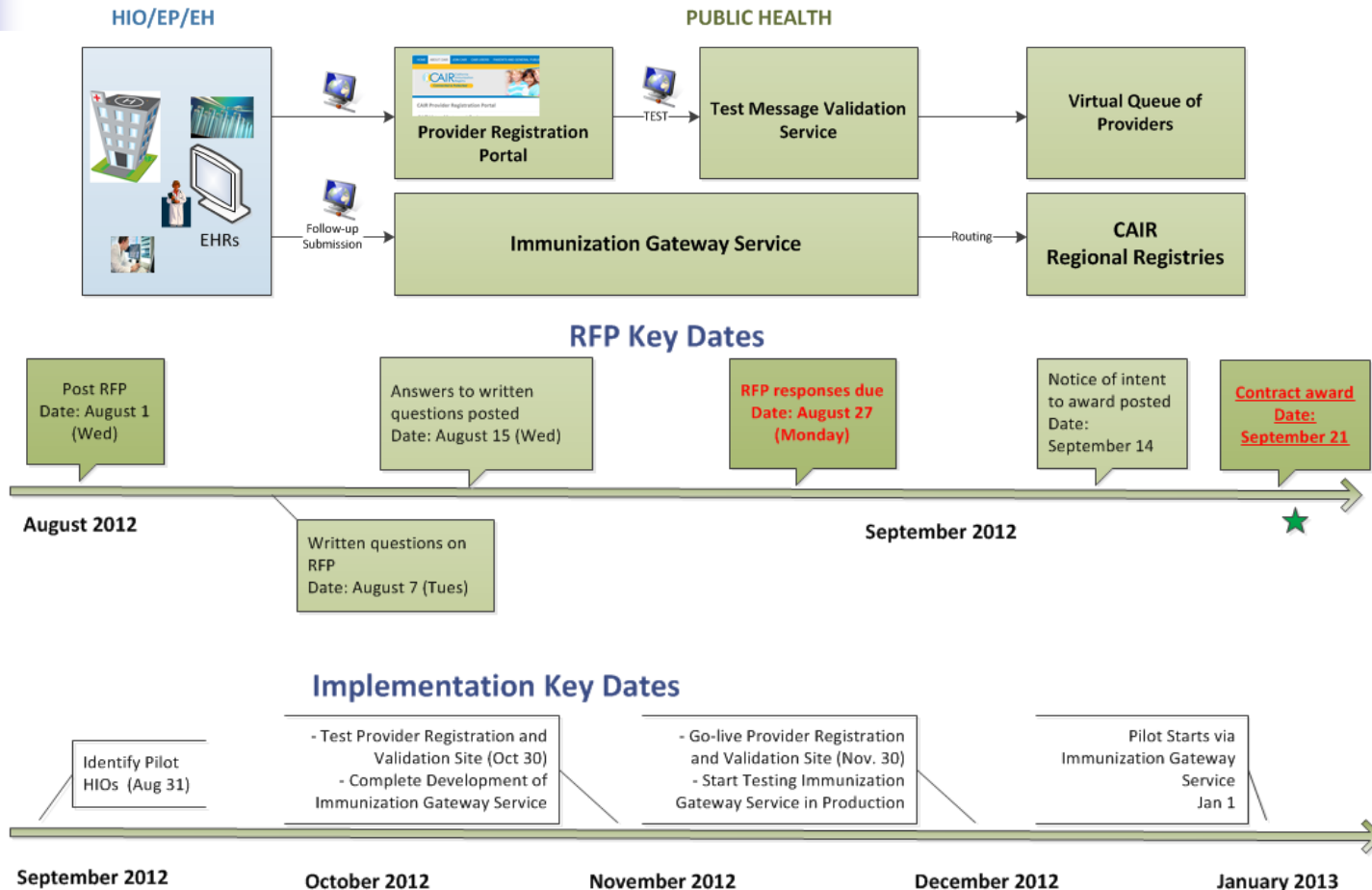
Task Group Activities

- Documented current capabilities of all regional registries for MU and HL7
- Discussed and documented potential short-term and long-term solutions
- Document use cases and business process
- Developed conceptual diagram for proposed strategy

CeC – Conceptual Diagram: PH Immunization Reporting for MU (06192012_V8)



Immunization Gateway Services RFP





QUESTIONS?



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