



# California Association of HIEs

*A self-governance and trust model for  
state-wide HIE in California*

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David A. Minch

President and Board Chair, CAHIE

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# Exploring the value of CAHIE

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## How do HIOs Interoperate Today?

- Bilateral agreements between data trading partners
- Organizations must support two different trust arrangements for *Direct* and *Exchange*
- For *Direct*, decisions must be made on which HISPs and trust bundles to belong to based on local trading partners – still may not support out-of-area *Direct* transmissions
- Only choice is the eHealthExchange for Exchange query transaction patterns, and even then many organizations find it necessary to have separate agreements for California
- Bottom-line is that very little inter-HIO exchange occurs today between California HIEs



# Exploring the value of CAHIE

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## Is HIO Interoperability Even Needed?

- In-region Out-of-Network care
  - Emergency care
  - Consultations and Specialty care
- Out-of-region travel
- Members move jobs or move to different cities which ends up out of the area of a provider network and they must change
- Members opt to change Providers / Networks during their annual renewal period
- Employers change Health Plans



# Exploring the value of CAHIE

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## CAHIE Provides A Trust Environment for California

- A Single Trust Agreement – the CalDURSA – can be used to enable any CAHIE members to interoperate with each other using their X.509 certificates
  - Direct
  - Exchange
  - Other Approved Transaction Patterns
- Single administration point for all Trust Bundles used to enable approved transaction patterns
- The California Interoperability Committee established to create and administer the California Interoperability “rules of the road”.



# Exploring the value of CAHIE

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## CAHIE Is the California Forum for Interoperability

- CAHIE is laser-focused on providing a light-weight yet highly agile environment for moving data between HIEs
- Lightweight Federated Directory Services
- Focal point for cooperative development of state-wide services and for HIOs to cooperate in development and sharing of resources which can promote their sustainability
- Committees provide the ability for HIOs and others who are interested in the promotion of HIE in California to interact and share ideas
- CAHIE can represent California constituents in national-level HIE conversations and can promote investment in California HIOs.



# Exploring the value of CAHIE

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## CAHIE Does Not Compete With Its Members

- HIEs, both enterprise-based and community-based typically offer many services that CAHIE does not:
  - Community Master Patient Index
  - Summary Clinical Repository
  - Directory Services for Participants and Participant Users
  - Intra-HIO communication between users and messaging
  - HL7 Transaction exchange between members and with the HIO
  - Many others...
- CAHIE simply leverages the services and capabilities of its members to provide availability of clinical patient data state-wide



# CAHIE Current Status

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## CTEN Launch

- With completion and approval of the CalDURSA, CAHIE is prepared to launch the CTEN and form the California Interoperability Committee
- CAHIE has completed all of its corporate documents and this week has filed its 501(c)3 paperwork with the IRS
- CAHIE is completing its business plan and has created a 3-year proforma budget for operations
- CAHIE has a robust web site that materials are available through for CAHIE members
- CAHIE is ready to vet and onboard new Participants to the CTEN.



# CAHIE Current Status

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## Challenge Grant

- The California eHealth Collaborative (CAeHC) has challenged CAHIE to raise funds from its members and constituents throughout California and has pledged up to \$40,000 in 1:1 matching funds
- Funds to be used for the California Connects exhibition at the Redwood MedNet 2014 Conference, launch of the CTEN, provisioning of the federated directory services, and rollout of the CTEN to Participants across California.
- Started circulating a request for funds to CAHIE members and will expand to others soon (**donations gladly accepted!**)





# CAHIE Futures

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## Promote State-Network Interoperability

- While CAHIE is likely to become the largest statewide network of exchanges there are others formed and forming including the Mid-States Collaborative, New York eHealth Collaborative, HIETexas, MassHIway, National Association for Trusted Exchange (NATE) and of course, the eHealthExchange.
- CAHIE intends to be active in national HIE governance issues and will work with all of the above efforts toward a national trust taxonomy which can be adopted by all HIOs across the country, to allow trusted interoperation without prior knowledge or agreements.
- CAHIE will promote such inter-network exchange with ONC as it works on pilot exchange with other states.



# CAHIE Futures (Dave's thoughts)

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## Other Potential Services

- CAHIE is interested in promoting use of additional transaction patterns evolving from HL7 standards and IHE reference implementations (e.g. FHIR, CSD, and RESTful Messaging)
- Support for Statewide Disaster Response Services using the CTEN
- Support of population health queries and analytics across HIE boundaries using technologies that were demonstrated in the IHA Proof of Concept demonstration in January 2014:  
<http://www.ohii.ca.gov/calohi/download598-IHA%20Final%20Report%20to%20CalOHII%20021414%20rev040114.pdf>
- Exploration of voluntary patient identifiers and other mechanisms to solve the patient identity problem.
- Development of state-wide resources either by use of CAHIE resources, or in partnership with one or more members (e.g. POLST/DNR Registry).
- Others as CAHIE Members express interest in them (and funding).