



The CSC Connecting for Health Approach to Developing a Nationwide Health Information Network

*Plenary Session
NHIN Forum
June 28, 2006*

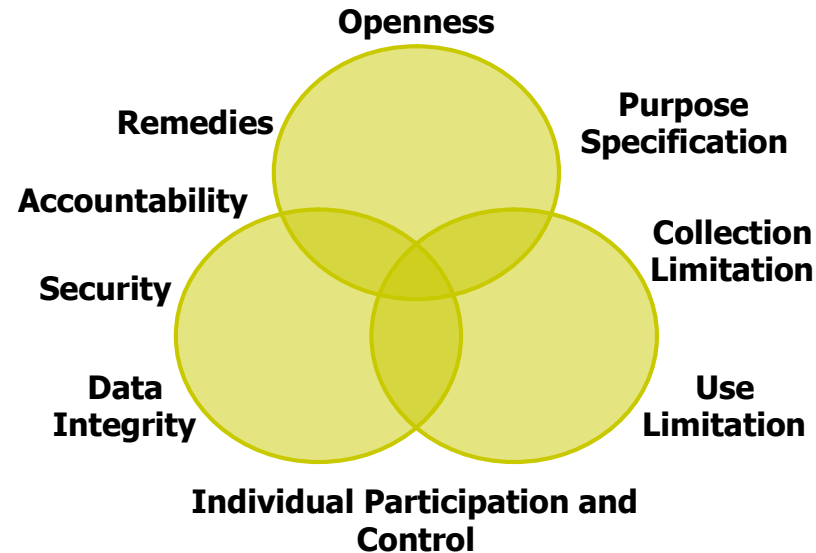


EXPERIENCE. RESULTS.

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Connecting for Health principles

Policy



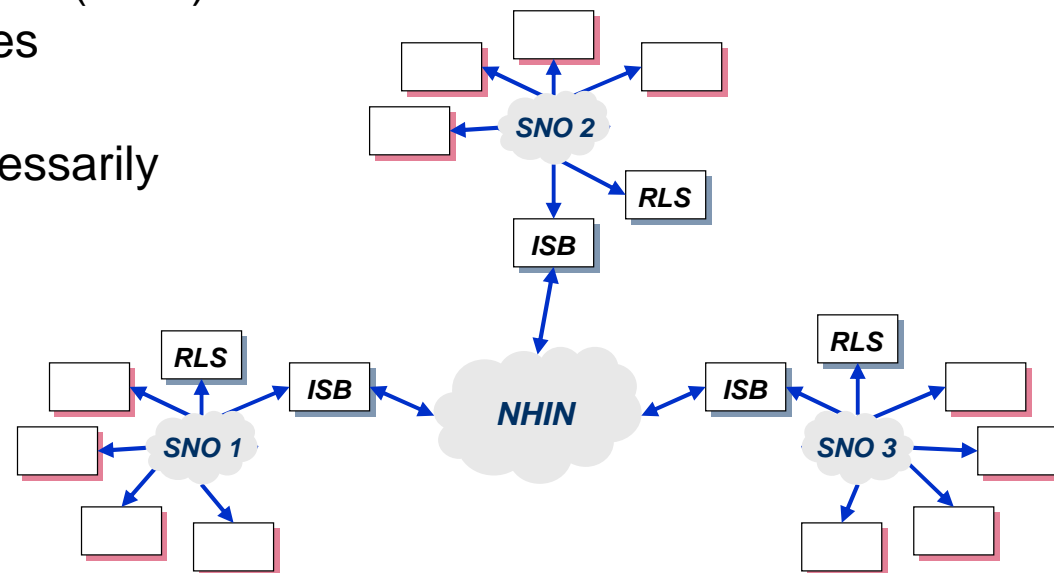
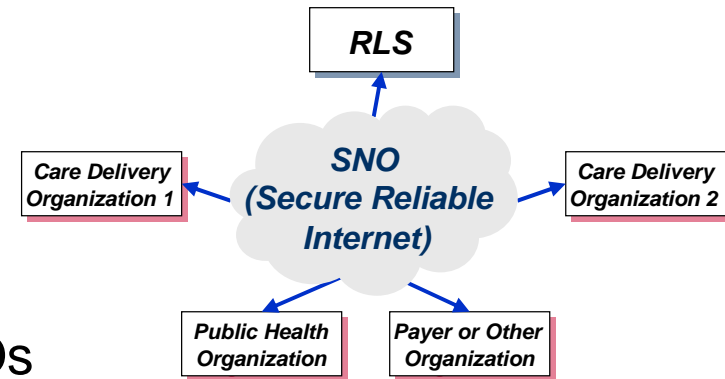
Technology

1. Make it “thin”
2. Avoid “rip and replace”
3. Separate the applications from the network
4. Decentralization
5. Federation
6. Flexibility
7. Privacy and security
8. Accuracy

These are equally important

Two novel pieces of NHIN infrastructure introduced by the CFH Prototype

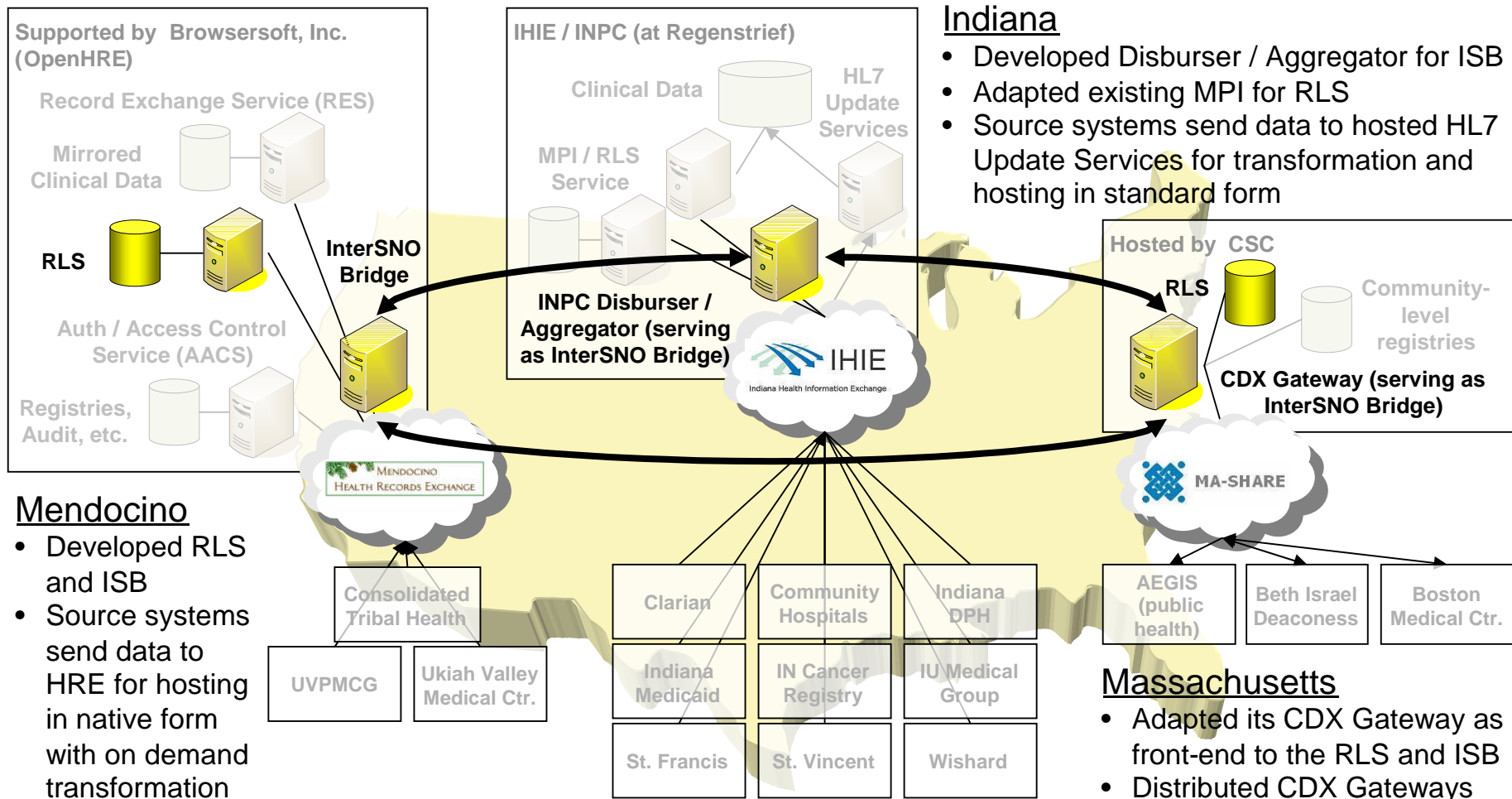
- Record Locator Service (RLS)
 - Finds health information without necessarily revealing its contents
- Inter-SNO Bridge (ISB)
 - Secure communication between SNOs
 - Sub-Network Organization (SNO)
 - Any group that agrees to share data
 - A RHIO, but not necessarily regional
 - A NHIN = a network of sub-networks



Our SNOs reflect the realities of existing market and health IT variation

	IHIE	MA-SHARE	Mendocino HRE
Market	Mixed urban and rural; dominant academic anchor (IU)	Urban mix of academic, community and commercial influences	Rural and underserved community medicine and health centers
RHIO-related history	35+ years	25+ years	7 years
Technology partner	Regenstrief (academic not-for-profit)	CSC (large commercial)	Browsersoft (small commercial)
Development preference	J2EE	Microsoft .NET	Mixed Open Source
Overall architecture	Central data repository with standardized data	Federated, with shared Record Locator Service	Brokered through mirrored data at central HRE
Standards	Significant investment in HL7 2.x	Implementing HL7 3.0; investigating XDS	“Bi-lingual” (HL7 2.x and 3.0)

Our solution going forward – minimal new network interfaces; flexibility and control at the edges



Indiana

- Developed Disburser / Aggregator for ISB
- Adapted existing MPI for RLS
- Source systems send data to hosted HL7 Update Services for transformation and hosting in standard form

Mendocino

- Developed RLS and ISB
- Source systems send data to HRE for hosting in native form with on demand transformation

Massachusetts

- Adapted its CDX Gateway as front-end to the RLS and ISB
- Distributed CDX Gateways fetch source data on demand from participant sites

 = New "NHIN" functionality



Experience. Results.

