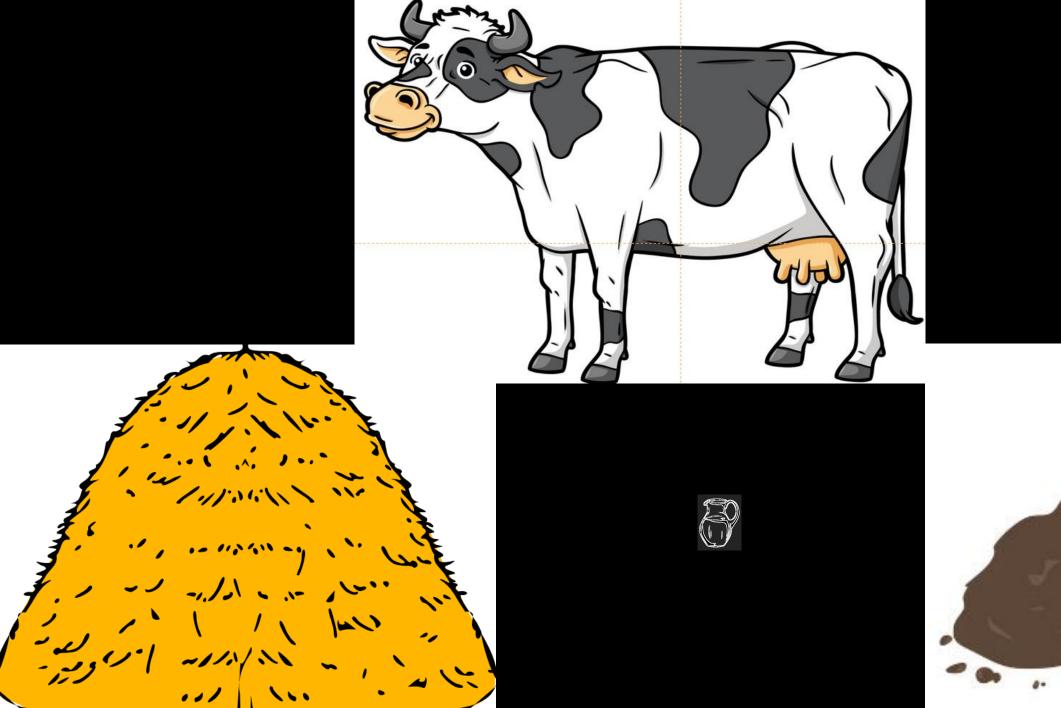
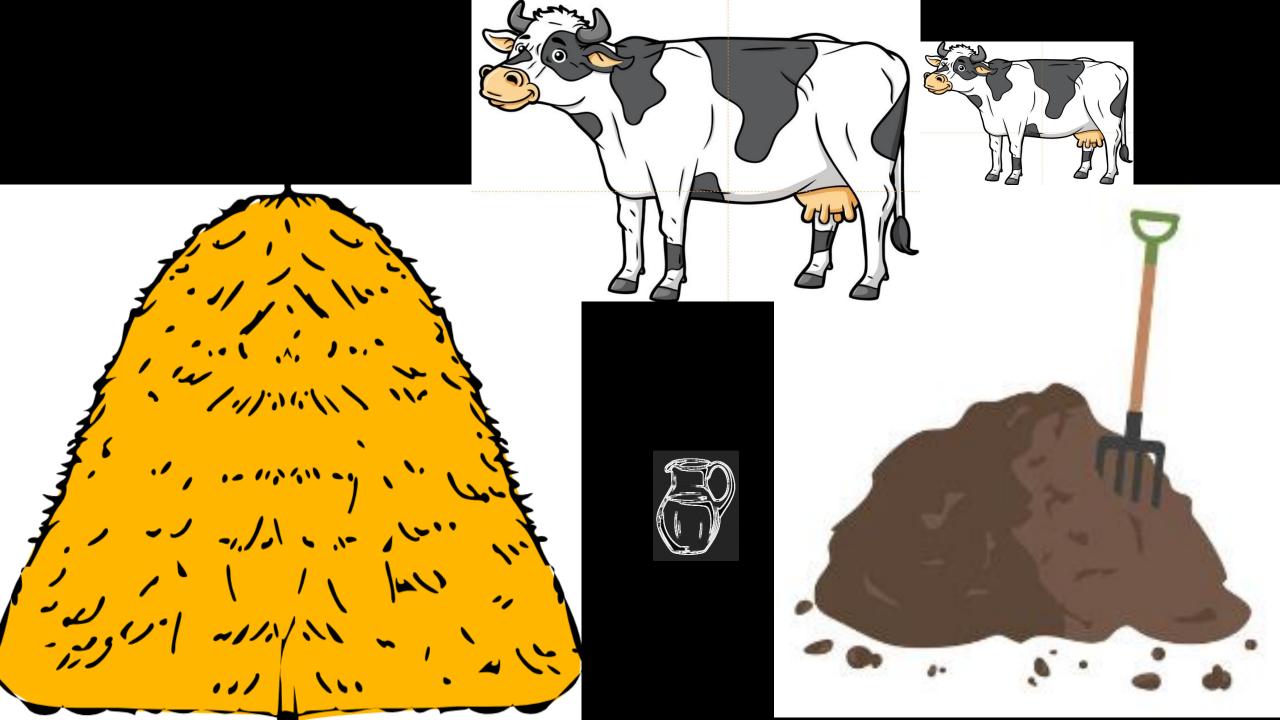
Healthcare Interoperability

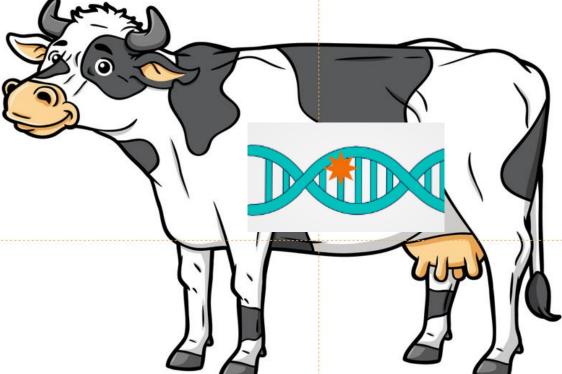
Phil Beckett, PhD

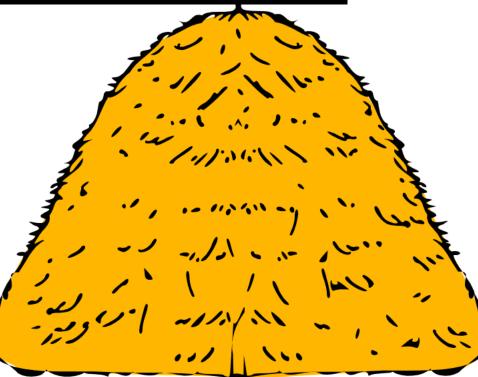








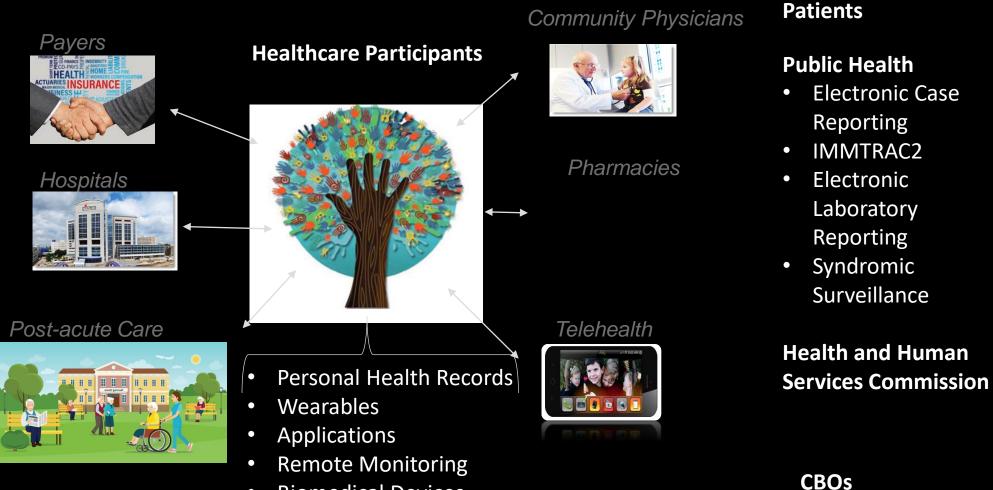








CARE COMPLEXITY - INTEROPERABILITY STAKEHOLDERS



Biomedical Devices

Healthcare efficiencies

Administrative costs

 \$812 billion on administration in 2017, amounting to \$2497 per capita (34.2% of national health expenditures)

Clinical costs

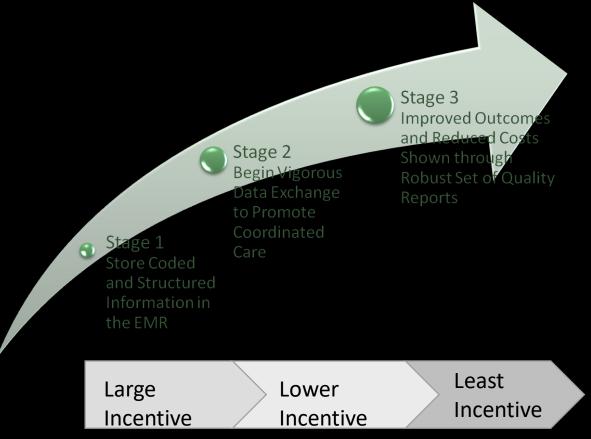
 To Err is Human – 1999 - 44,000 to 98,000 people die each year as a result of preventable medical errors

• Today?

• Ann Intern Med. 2020;172[2]:134

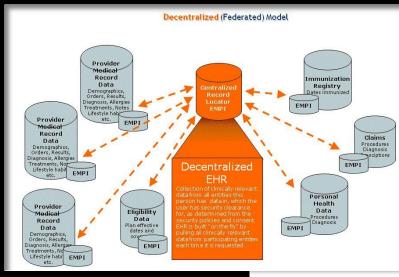
Systematic process for M/U Implementation

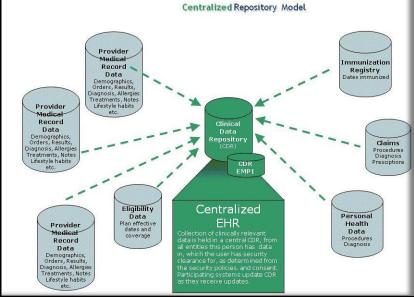
• Federal mandate to Office of the National Coordinator- 2009: *"facilitate and expand the secure, electronic movement and use of health information among organizations according to nationally recognized standards."*



Key Components of a Health Information Exchange

- Real-time exchange
- Clinical data from EMR's and claims data
- Data aggregation federated vs. conventional vs. hybrid
- Patient matching electronic Master Patient Index
- Data normalization



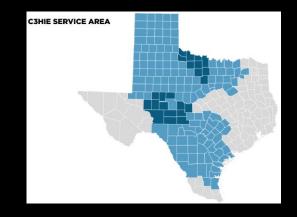


Changing Texas landscape for interoperability



2011- funding period





2016- implementation

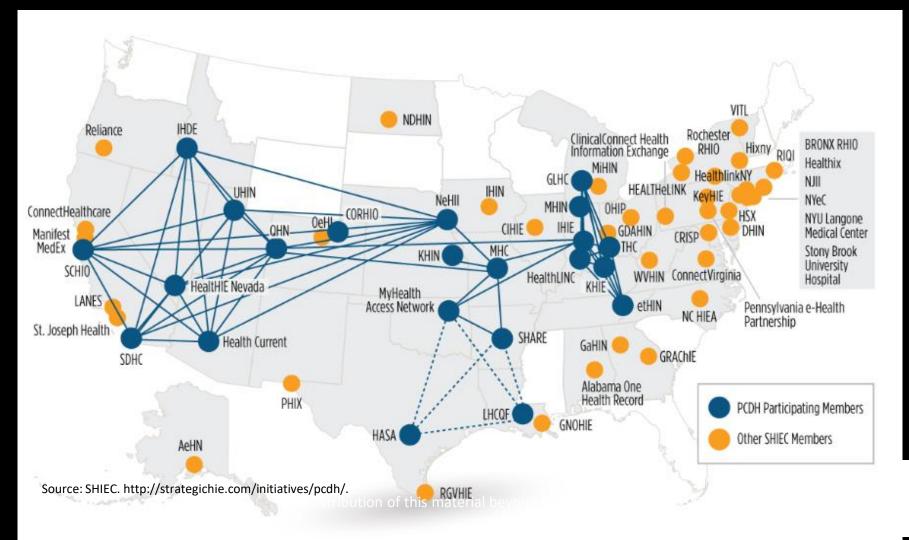
2018- sustainable

C3HIE Capabilities

- Aggregated patient lookup
- Data push into customer systems (CCD, ADT)
- Real-time, clinical reporting for quality, utilization, population health, public health, care coordination
- Electronic referral system
- Alerts and discharge notification TCM, CCM
- Connection to TX HIEs and national HIEs
- Connectivity to DoD & VA
- Individual Access
- RPM

National effort to connect HIEs

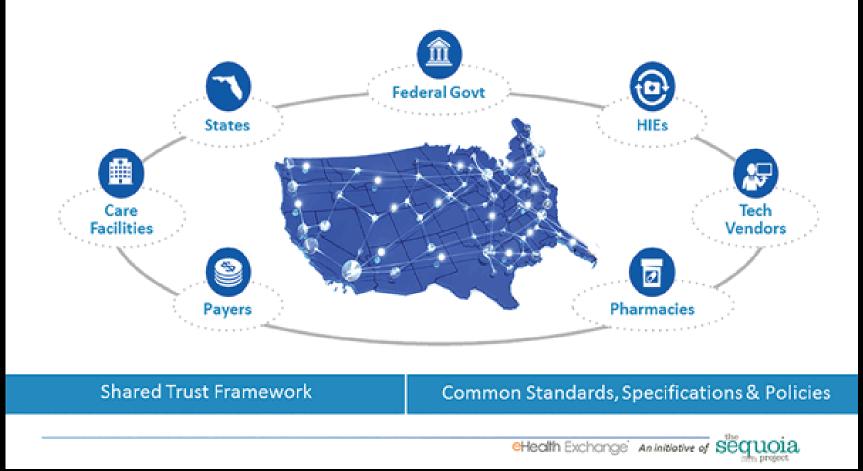
Patient Centered Data Home



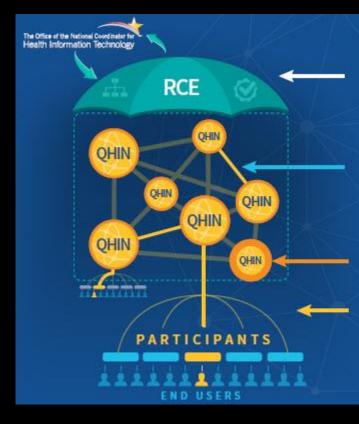


The eHealth Exchange

A rapidly growing network for securely sharing health information



TEFCA



RCE provides oversight and governance for Qualified HINs.

Qualified HINs connect directly to each other to serve as the core for nationwide interoperability.

QHINs connect via connectivity brokers.

Each Qualified HIN represents a variety of networks and participants that they connect together, serving a wide range of end users.

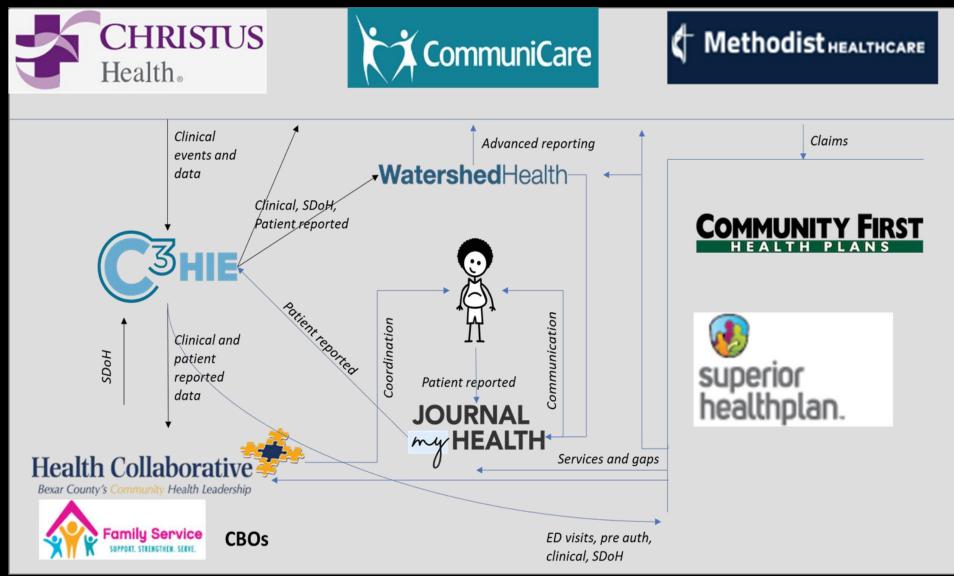
Barriers to exchange...

- Value
- Workflow/data presentation/access
- Competition
- Security and Privacy

Revenue opportunities related to interoperability

- Risk based contracts
- Population risk stratification and triage
- TCM
- CCM
- RPM
- Electronic pre authorizations
- CHIRP/ATLIS
- NMDOH
- Consumer engagement

Community integrations



Questions?

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