eHealth Exchange

The Unique Value Proposition of a Health Data Exchange that Works with the Healthcare Industry *and* the Government



The Sequoia Project's Role

As a non-profit with a public mission, Sequoia is a trusted, independent convener of industry and government.

Works to address the challenges of secure, interoperable nationwide health information exchange (HIE).





The Sequoia Project Initiatives

The Sequoia Project's independent initiatives each have their own:

- Mission
- Governance
- Membership
- Structure

The Sequoia Project is an ideal home for projects that require a collaborative environment where multiple parties with differing perspectives can work together.



Current Sequoia Project Initiatives

eHealth Exchange



The **eHealth Exchange** is one of the largest public-private health information networks in America.

Carequality is a national-level interoperability framework and common agreement to link all health information networks

RSNA Image Share



RSNA Image Share Validation Program is an interoperability testing program to enable seamless sharing of medical images.

PULSE is a system which enables disaster healthcare volunteers to treat individuals displaced by disasters



What is the **eHealth Exchange**[®]



The eHealth Exchange is a health data sharing network. It is one of many that exist throughout the United States

> But don't be fooled. The eHealth Exchange is no ordinary network....



It provides a common set of standards, legal agreements and a governance framework that sets the groundwork for participants to securely share health data

eHealth Exchange An initiative of Sequoia



The Largest Public-Private Health Information Network

eHealth Exchange

We connect:				
	All 50 States	70,000 Medical Groups		
	Four Federal Agencies (DoD, VA, CMS, SSA)	3,400+ Dialysis Centers		
	75% of U.S. Hospitals	8,300 Pharmacies		

Supporting more than 120 million patients

59 Regional and State HIEs



How the eHealth Exchange is Different

The longest-standing nationwide health data network supporting **diverse use cases** The principle network enabling Participants to connect directly with **federal agencies** Access to Carequality implementer networks such as athenahealth, NextGen Healthcare, Surescripts, GE, & CommonWell

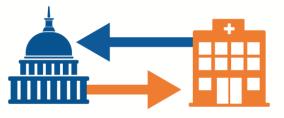
Incubated by the federal government, the non-profit with a public mission enables health information sharing between and among private and public partners.





Value Exchanging with Federal Agencies

An organization's participation in the eHealth Exchange allows them to:



eHealth Exchange An initiative of Secu

- Support individual applications for **Social Security Administration** disability benefits and potentially recoup for uncompensated care
- Better coordinate care and effectively treat veterans who receive care at Veterans Health Administration and private providers
- Support care coordination and transitions of care for active duty military, retirees and their families who receive care via **Department of Defense's Military Health System** and private providers
- Submit quality measures for End State Renal Disease (ESRD) to Center for Medicare and Medicaid

The eHealth Exchange is the <u>only</u> health data network that allows a provider to exchange data with these 4 federal agencies.



Distinctive Data Sharing Model

Because the eHealth Exchange is a distributed network, data resides at the source and is only transmitted when needed.

This means that:

• There is no central hub or data repository where data is vulnerable

- There is respect for local policies and differing legal requirements
- You can use your HIE as your home network to connect to other HIEs, providers or government agencies



Real World Benefits to Patients and Providers



eHealth Exchange Benefits Patients

120 Million Patients Supported Nationwide!



- Patient records move easily between patient's medical providers. With permission, their latest records and prescriptions will be available online.
- Patients can move around the country and be able to provide doctors with their electronic medical records.
- Active Duty military and veterans and their families will be better supported.
- Patients can file for disability claims through organizations such as the Social Security Administration by making it possible for doctors to submit medical information electronically.

eHealth Exchange An initiative of seguoia

eHealth Exchange Benefits Providers

Doctors have ready access to patient records from multiple facilities.



Reduced administrative burden to contact other medical facilities for records



Automates quality measures submissions to CME for quality measures incentives



More comprehensive picture of patient's total health, aiding better diagnoses and treatment

	C)			
--	---	---	--	--	--

Dramatically easier to exchange health records with federal agencies



More timely access to patient information for improved care coordination

eHealth Exchange An initiative of Sequoia

Benefitting Patients in Real Scenarios

Henry's doctor electronically requests and receives medical records from Virginia. Notes he is diabetic. Henry Tucker Alexandria, VA Age: 52 Diabetic

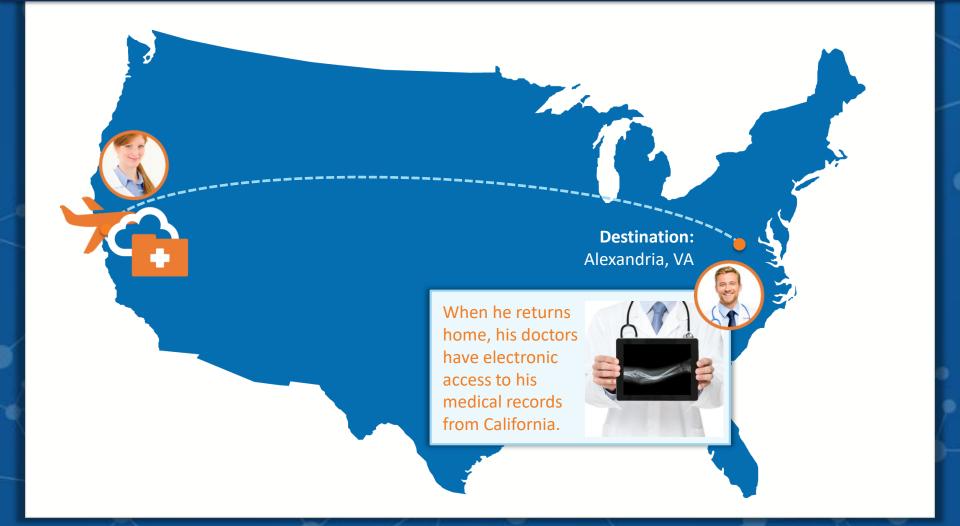
Destination: San Francisco, CA



During a Trip to San Francisco, Henry Broke his Arm



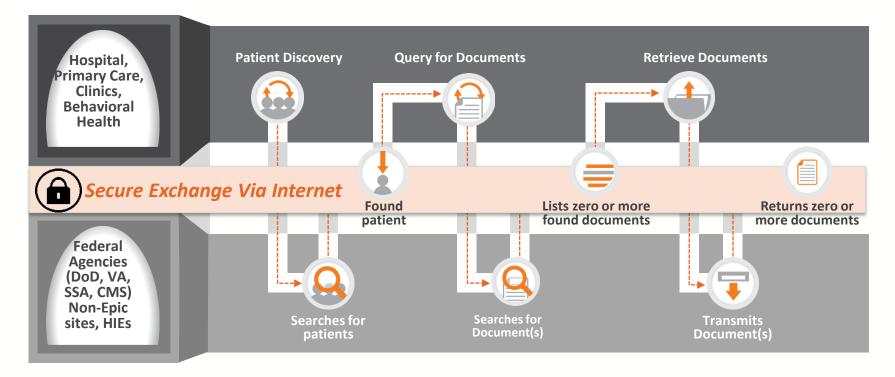
Benefitting Patients in Real Scenarios





How eHealth Exchange Works

Overview of Query Workflow







Broad Range of Patient-centric Use Cases

One Network: Many Use Cases

Treatment / Care Coordination



Social Security Benefits Determination



Immunization



Authorized Release of Information – Consumer Access to Health Information



Syndromic Surveillance

Encounter Alerts



Authorized Release of Information – Life Insurance



Prescription Drug Monitoring Program (PDMP)



Electronic Lab Reporting (in support of public health)



Image Share Use Case

eHealth Exchange An initiative of Sequoia

SSA: A Closer Look

Manual Process (Mail, Fax, Scan)

	Weeks to Months	
Application Request	Waiting	Receipt & Decision
Filing for	for	Review
Medical	Medical	of
Records	Records	Medical
		Records

Electronic Process (eHealth Exchange)

	>	Seconds to Minutes		
Application Filing	Request for Medical	Waiting for Medical	Receipt & Review of	Decision
	Records	Records	Medical Records	

Potential Benefits for Providers

- Electronic payment for medical information (\$15 / transaction)
- Automated processing of the request for medical information and payment
- Operational Savings in the ROI process
- Potential to recover uncompensated care
 - Faster disability determinations provide patients with faster access to Medicare or Medicaid benefits

.

•

As of November, 2017, SSA is interoperating with 100 Exchange Participants and tens of thousands of sites.



E ANNISTRATIO

Benefits for Patients

- Faster disability claim determinations
- Quicker access to monthly cash benefits
- Earlier access to medical insurance coverage

Value Based Care: A Case Study

Intel Connected Care

- Intel Corporation created an incentivized health insurance/care management program, known as "Connected Care," for its nearly 20K Portland area employees and family members
- Intel's on-campus clinic, known as "Health For Life Clinic," is managed by Premise Health and provides a wide-range of ambulatory services



• "Connected Care" members receive primary care from either local Kaiser Permanente or Providence Medical facilities (both use Epic EMR solutions)

Intel's Connected Care Program

Value-based care model designed to improve overall health and wellness of Intel's employees by providing information exchange and real-time care analytics for optimal care



em

are





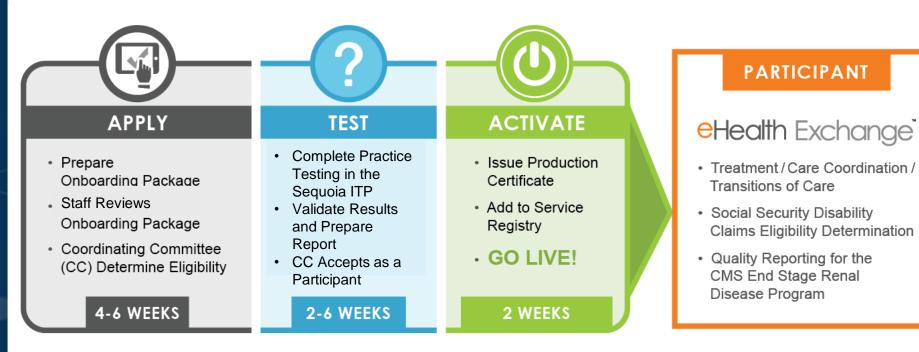
Onboarding to the eHealth Exchange





Three Step Process

Onboarding & Testing Process



Timelines are based on averages and may be extended depending on Applicant's internal constraints (e.g., legal review, configuration/setup of technical environments, configuration control processes, technical resource availability. The Sequoia Interoperability Testing Platform (ITP) is available to eHealth Exchange Applicants, Participants, and Vendors seeking eHealth Exchange Product Validation.

NOTE: Applicants using a QTS vendor ARE NOT required to complete testing in the DIL environment

eHealth Exchange An initiative of Secuoia

Testing is the Backbone of Interoperability

eHealth Exchange Testing for Interoperability

Provides testing of: Products, Participants and Content

- Tests for interoperability compliance and HIE standards
- Ensures predictable and reliable exchange



Customers using validated products onboard to eHealth Exchange FASTER and CHEAPER

Validated products receive the eHealth Exchange Validated Products Seal.





eHealth Exchange Validated Products

Vendors Enabling Reduced Fees for their Clients

Browsersoft Connected Health OpenHRE	Clinical Exchange Platform	Cerner Resonance	Connect
Epic Care Everywhere	Greenway Exchange	INTEROPERABILITY EXPERTS CareAlign	CIOX HEALTH Prism
INTERSYSTEMS	LTS HEX	Medicity A Healthagen Business Network	Optum HIE
Exchange Gateway	Exchange Gateway	Siva HIE Connect	

Approved Use Cases and Corresponding Standards



Approved Use Cases and Corresponding Standards (1)

Use Case	Workflow	Standards / Specifications
 Query / Retrieve Documents Supports multiple use cases including: Treatment / care coordination Transitions of care Referrals Social Security disability benefits determination Life insurance determination Individual access to health information, responder only Treatment includes the following sub-use cases: Immunization – push of immunization data for treatment purposes (This is not related to reporting to immunization registries) 	 Transmit clinical documentation to support treatment of an individual, care coordination or transitions of care Transmit clinical documentation to the Social Security Administration (SSA) for the purposes of supporting a claimant's eligibility for Social Security disability benefits Enables different types of networks (e.g. ROI companies, vendor intermediaries, etc.) to respond to transmit clinical documentation to another Participant. Participants supporting this profile may not initiate queries. Enables an individual using a PHR to request / receive a copy of his or her health information accompanied by a HIPAA-compliant authorization 	 Web Services Registry Web Service Interface Specification v 3.1 Messaging Platform v3.0 Patient Discovery v2.0 Query for Documents v3.0 Retrieve Documents v3.0 Authorization Framework v3.0 Deferred Patient Discovery Immunization data requirements HITSP C32 HL7[®] C-CDA Release 1.1 and Associated Companion Guide(s) HL7[®] C-CDA Release 2.1 and Associated Companion Guide(s) HL7[®] FHIR[®] End Stage Renal Disease Implementation Guide Package [June 30]
PDMP (treatment sub-use case)	Enables exchange of Prescription Drug Monitoring Program Data	NCPDP, PMIX, SCRIPT, and HL7® the

eHealth Exchange An initiative of Security

project

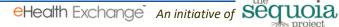
Approved Use Cases and Corresponding Standards (2)

Use Case	Workflow	Standards / Specifications
 Submit Documentation to CMS Currently, CMS accepts data for the End Stage Renal Disease Program (ESRD) 	 Enables documentation and/or quality measure reporting to CMS 	 Messaging Platform v3.0 Authorization Framework v3.0 Administrative Distribution Document Submission Required CMS content requirements (which varies by program)
 Authorized Release of Information – Individual Access to Health Information (e.g. via a Personal Health Record – PHR-DRAFT) 	 Enables Clinical Exchange between Patient and Provider via a consumer application 	 Web Services Registry Web Service Interface Specification v 3.1 Messaging Platform v3.0 Patient Discovery v2.0 Query for Documents v3.0 Retrieve Documents v3.0 Authorization Framework v3.0 Authorized Release of Information – Individual Access to Health Information (e.g. via a Personal Health Record – PHR-DRAFT)
Encounter Alerts	• Enables event notification of clinical encounters to patient associated care team members	 VPN (transport)-DRAFT HL7[®] v2 (content) Direct Secure Transport v 2.1
26 ©2018 Copyright The Sequoia Project. All rights reser	rved. eHealt	h Exchange An initiative of Sequola

project

Approved Use Cases and Corresponding Standards (3)

Use Case	Workflow	Standards / Specifications
 Electronic Lab Reporting (in support of public health) 	Enables electronic lab reporting to public health agencies	HL7 [®] Version 2.5.1 [ELR Implementation Guide]
• Syndromic Surveillance (in support of public health)	• Enables syndromic surveillance reporting to public health agencies	 HL7[®] Version 2.5.1 [Public Health Information Network (PHIN) Messaging Guide for Syndromic Surveillance: Emergency Department, Urgent Care, Inpatient and Ambulatory Care Settings]
Image Sharing	 Enables organizations to share images 	 Cross-Enterprise Document Sharing for Imaging (XDS-I) Cross-Community Access for Imaging (XCA-I)





Thank You!

Website: http://www.ehealthexchange.com E-mail: administrator@ehealthexchange.com

