

The NHIN in Production for Treatment Purposes

About Kaiser Permanente, U.S. Dept. of Veterans Affairs and U.S. Dept. of Defense Using Real Time NHIN Health Information Exchange in Patient Care Today


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- **Disclaimer**
 - **Not speaking on behalf of any committee**
- **About Kaiser Permanente (KP)**
- **The NHIN of Today**
 - **What is in production for patient care today**
 - **NHIN architecture and technical specifications**
 - **Committees: governance by the governed**
- **The NHIN Trust Fabric**
 - **Data Use and Reciprocal Support Agreement (DURSA)**
 - **Permitted purposes and duty to respond**
 - **Privacy, security and breach notification**
- **“Anyone Can NHIN”**
 - **Voluntary use of NHIN specifications today**
 - **Possible future directions?**
- **Q & A**

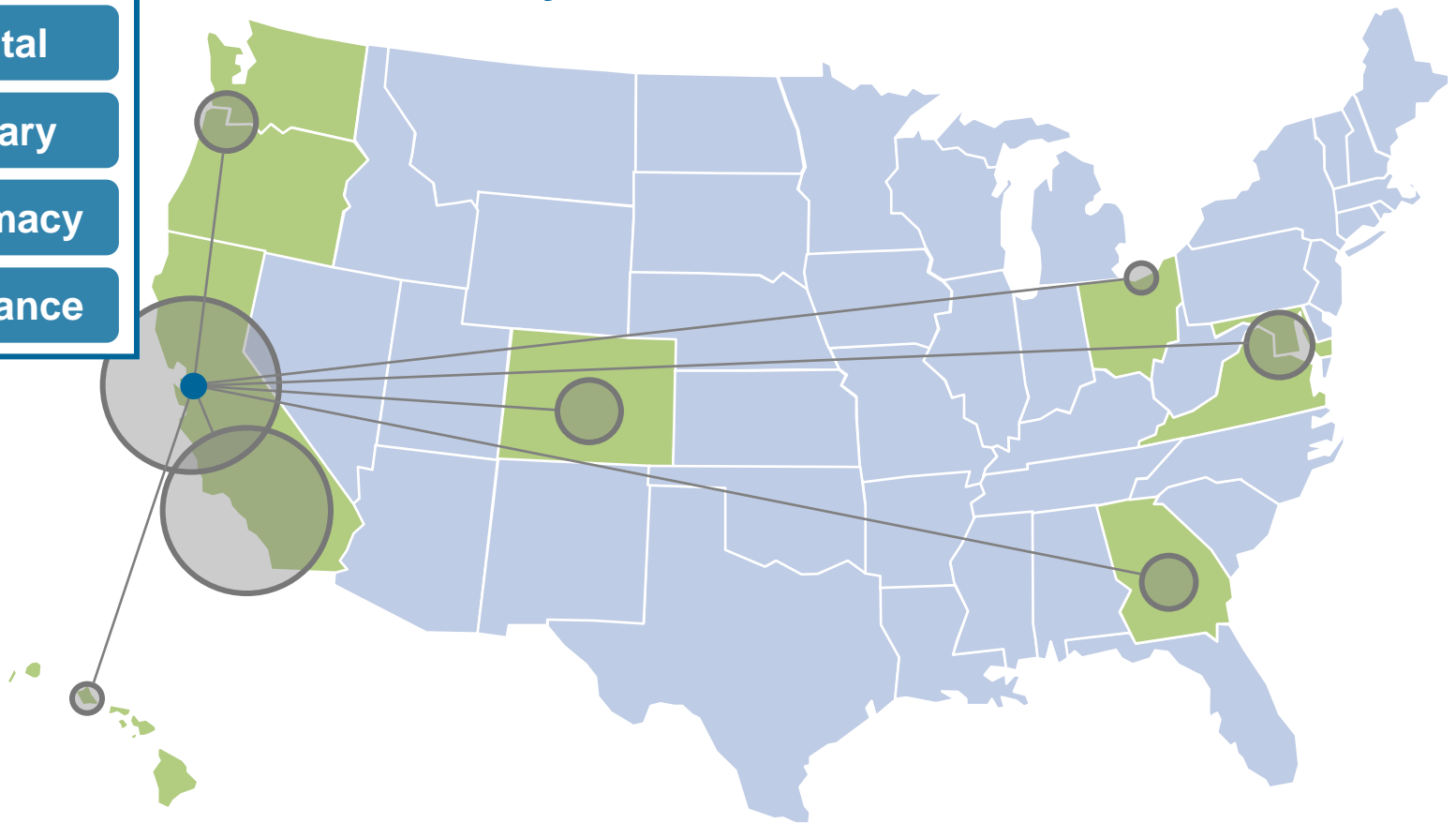
Our Unique Enterprise (an integrated model)

Best and safest, integrated delivery system



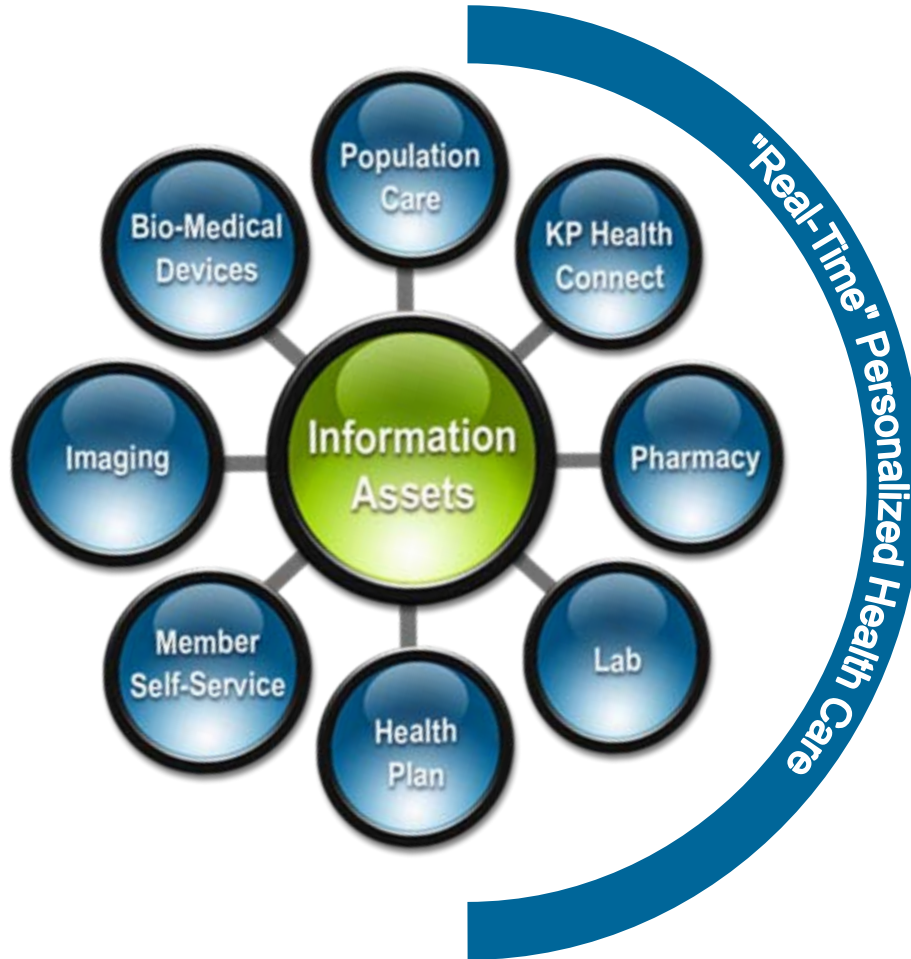
KAISER PERMANENTE®

- physician
- hospital
- ancillary
- pharmacy
- insurance



Our Vision

(real-time, personalized healthcare)



Smart

Networked

Today's talk is about
Proving the vision in HIE

Collaborative

Affordable

Preventive

NHIN in Patient Care Today

- **Shared care patient population**
- **Production exchange in San Diego: KP, VA, DoD**
 - **C32 continuity of care documents**
 - **Real time response to queries by clinicians**
 - **Content now: problems, medications, allergies**
 - **Planned content update: labs, immunizations, vital signs**
- **Standard gateway specifications with local adapters**
- **Patient opt-in after deterministic matching**
- **Local clinician training and adoption**

About NHIN Architecture

- **Architectural Principles:**
 - **De-centralization**
 - **No central patient index, no central data repository**
 - **Patient information is retained locally**
 - **Local autonomy**
 - **Local decision to release information each time**
 - **Requestor/sender must include enough information for decisions**
 - **Local accountability to meet all requirements**
 - **Adherence to standards**
 - **Service-oriented, layered architecture**
 - **Cross-platform, asynchronous, reliable communications**
 - **Utilizes Web services (SOAP, WSDL, UDDI)**
 - **Specifications–driven (next page)**
 - **Utilizes Public Key Infrastructure (PKI)**

“NHIN 2.0” Specifications

- **Status of these specifications:
Approved for production, rollout not scheduled**
- **Messaging Platform v2.0**
- **Health Information Event Messaging v2.0**
- **Authorization Framework v2.0**
- **Services Registry v2.0**
- **Query For Documents v2.0**
- **Retrieve Documents v2.0**
- **Patient Discovery v1.0**
- **Access Consent Policies v1.0**

NHIN Governance Today

- **NHIN Coordinating Committee (NCC) responsibilities:**
 - NHIN participant membership, suspension and termination
 - NHIN operating policies and procedures
 - NHIN breach notification
 - NHIN dispute resolution
 - Informing the NTC when proposed specifications may have a material impact on participants
- **NHIN Technical Committee (NTC) responsibilities:**
 - Determine priorities for NHIN development
 - Create and adopt NHIN specifications and test approaches
 - Assess the impact that changes to the NHIN specifications and test approaches may have on participants
- **Developed as an interim approach for federal option year contracts and grants for production pilots**

DURSA

- **Comprehensive, multi-party agreement**
 - Signed by all participants
 - Avoids the need for point-to-point agreements
- **Common terms and conditions establish obligations to support privacy, confidentiality and security**
 - Requires participants to be in production
 - Expressly assumes each participant has sufficient trust relationships with employees, agents and others
- **Obligation to comply with all applicable law**
 - HIPAA privacy and security rules are minimum requirements, including for participants that are not otherwise covered entities
- **Mandatory non-binding dispute resolution**
 - Specifies a multi-step process

Permitted Purposes

- **Permitted purposes in DURSA:**
 - Treatment
 - Payment
 - Limited healthcare operations with respect to the patient that is the subject of the data request
 - Specific public health activities
 - Quality reporting for “meaningful use”
 - Disclosures based on an authorization from the individual
- **Duty to respond for treatment purposes only**
 - If data is not sent, must at least send standardized response, e.g., acknowledgment, or reason for not including data
 - Permitted, not required, to respond to non-treatment queries
 - No disclosures that would conflict with applicable law

Privacy, Security, Breach

- **Responsibility of the party disclosing data to comply with all requirements before sending any data**
 - Includes applicable state, federal or other privacy and security laws and regulations
 - Includes consent or authorization
 - When HIPAA requires authorization it must be sent with query
- **Digital credentials issued to permit only approved participants to exchange data with other members**
- **“Unauthorized acquisition, access, disclosure or use of message content through the NHIN”**
 - Suspected breaches must be reported within 1 hour
 - Notification within 24 hours after determining a breach
 - Reports to NCC and impacted participants
 - Must mitigate the breach and implement corrective action plan

Anyone Can NHIN

- **Voluntary use of NHIN service specifications**
- **Open-source FHA CONNECT Gateway software**
- **Vendor-specific adapters available**
- **Model data use agreements after DURSA**

Discussion

Q & A

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