




Interoperable Health IT Infrastructure

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Any sufficiently advanced
technology is
indistinguishable from
magic

Arthur C. Clark





Interoperable Health IT

- **Where are we?**
- **Where are we going?**
- **Why?**
- **How will we know when we are there?**



Where are we?



ONC

Interoperability Goals

- **Objective 2.1** Enable the movement of electronic health information to support patients health and care needs
- **Objective 2.2:** Enable exchange of health information to support population-oriented uses



“The Plan” – Goal One

Enable Patient-focused Health Care

Enable the transformation to higher-quality, more cost-efficient, patient-focused health care through electronic health information access and use by care providers, and by patients and their designees.

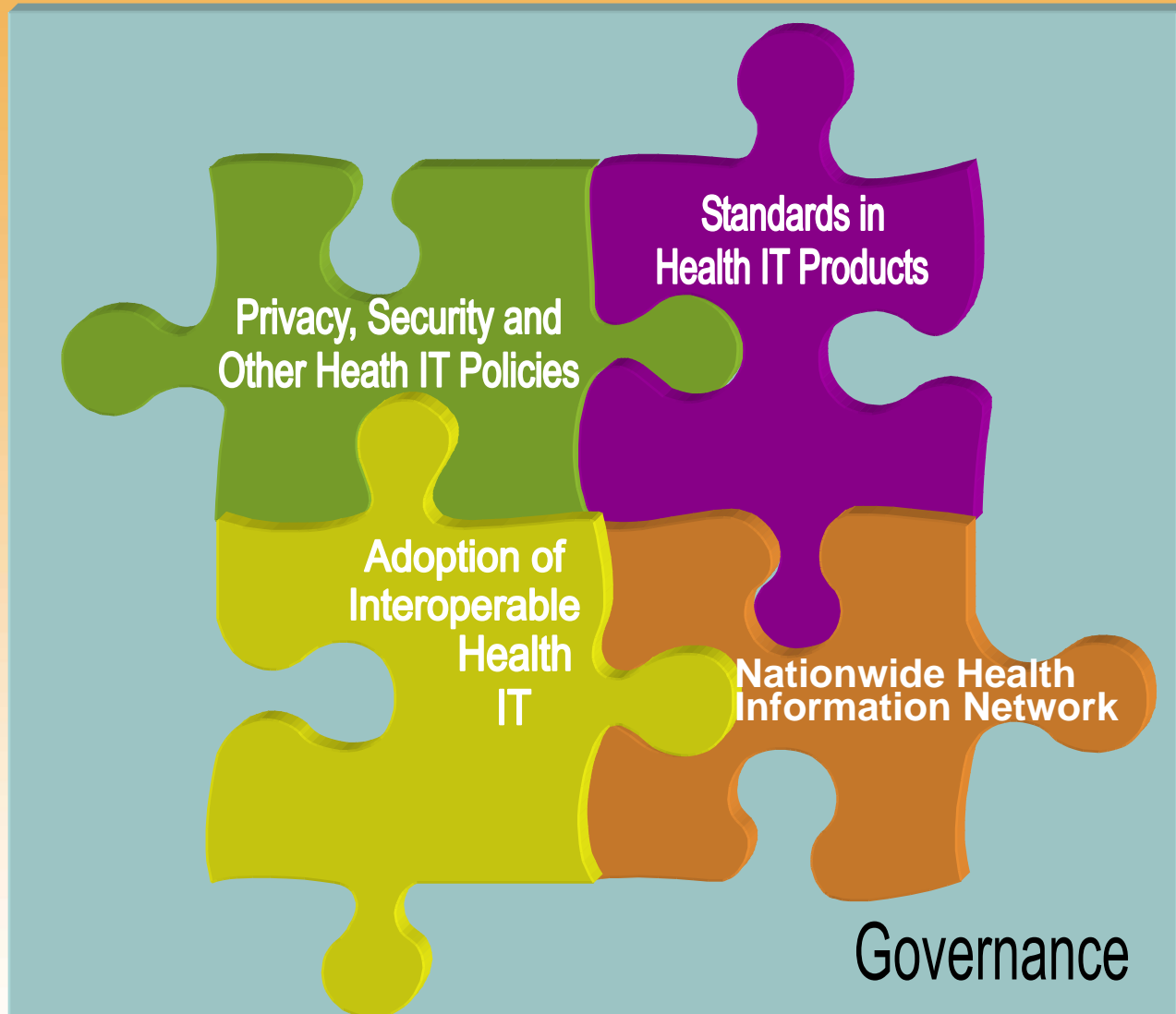


“The Plan” – Goal Two

Improve Population Health

Enable the appropriate, authorized, and timely access and use of electronic health information to benefit public health, biomedical research, quality improvement, and emergency preparedness.

Critical Components Necessary for Nationwide Interoperable Health Information



Privacy of Health Information?

Privacy, Security and
Other Health IT Policies

- **What are the Right Level of Protections?**

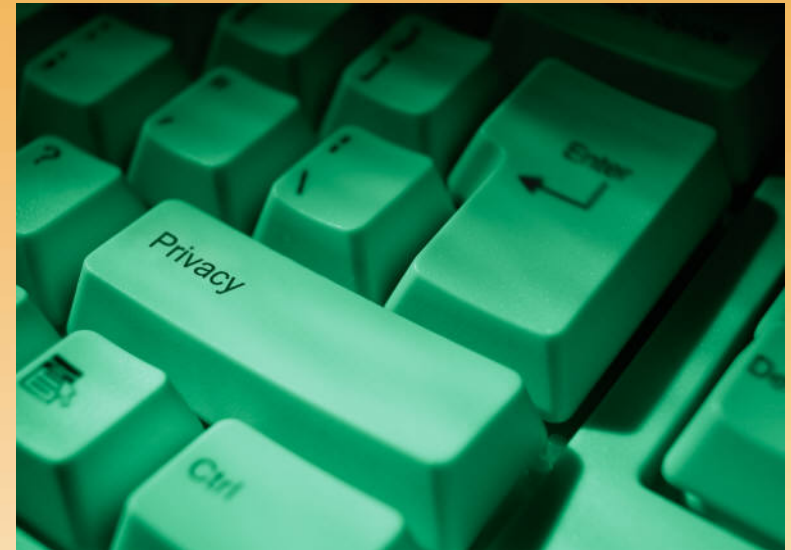
- Greater consumer permissions?
- Greater consumer access/audit trails?
- More limits on access by others to information?

- **What Information for What Purposes?**

- How does minimum necessary work?
- Should purposes of network access be limited?

- **Different standards for networked information?**

- Use by the primary entity, with restrictions on access by and/or exchange with others?
- Access/audit trails at a network level?



Interoperability Standards Summary of the Cyclical Process



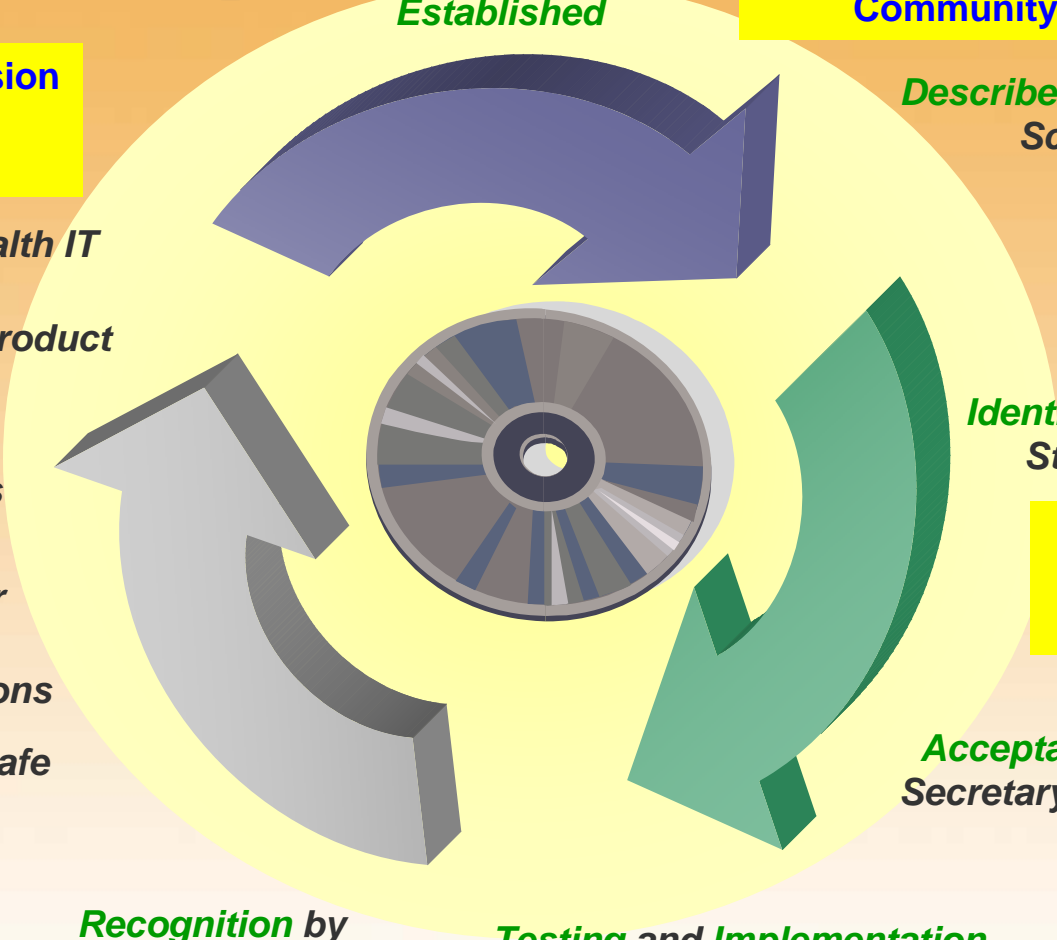
*Health-related Priorities
Established*

**American Health Information
Community (AHIC)**

**Certification Commission
for Healthcare IT
(CCHIT)**

*Describe Health-related
Scenarios*

- *Incorporated in Health IT Products*
- *Used in Health IT Product Certification*
- *Required in*
 - *Federal Systems and Healthcare Contracts (Executive Order 13410)*
 - *“Stark” exceptions and Anti- Kickback safe harbor*



*Identify Health IT
Standards*

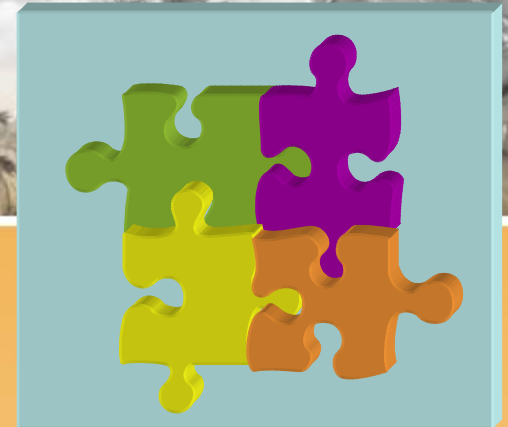
**Healthcare IT
Standards Panel
(HITSP)**

*Acceptance by
Secretary of HHS*

*Recognition by
Secretary of HHS*

*Testing and Implementation
(1 year gap)*

2008 – A Banner Year



Governance

- ✓ Health IT Strategic Plan released
- AHIC 2.0 launched

Privacy & Security & Other Health IT Policies

- Privacy and security framework leads to common ground
- States collaborate to implement similar policy solutions

Interoperability Standards

- 79 health IT standards recognized by Secretary Leavitt

Adoption

- Ambulatory adoption up another 50% in one year

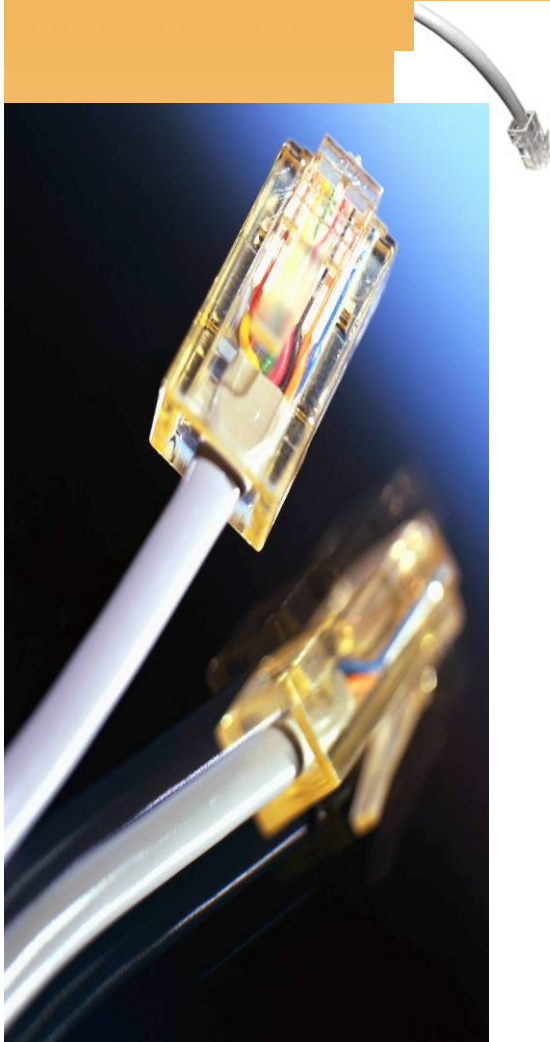
Nationwide Network

- Nationwide network “dial-tone” demonstrated for health data mobility

NHIN Trial Implementations (Phase II)



Nationwide Health
Information
Network



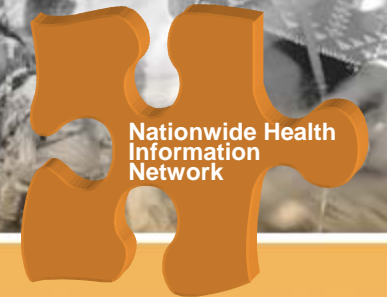
“NHIN Cooperative” formed to implement, test, and demonstrated core services in September 2008

- Support of consumer access controls
- Lookup and retrieval of clinical information
- Exchange of patient summary records

Working Assumptions

- “Peer to peer” – “network of networks”
- No national data store or centralized systems
- No national patient identifier

NHIN Cooperative



- **NHIN HIEs**

- Carespark [TN/VA]
- **Delaware Health Info Network**
- Indiana University
- Long Beach Network for Health [CA]
- **Lovelace Clinic Foundation [NM]**
- MedVirginia
- **NCHICA [NC]**
- **New York eHealth Collaborative**
- **West Virginia Health Info Network**
- *Federal Participants (VA, DoD, SSA, IHS, CDC)

- **NHIN HIEs**

- *Cleveland Clinic
- Community Health Information Collaborative [MN]
- HealthBridge [OH]
- HealthLINC (Bloomington Hospital) [IN]
- HealthLink RHIO (Wright State University) [OH]
- *Kaiser Permanente

*Organizational “Networks”

Bold – Statewide HIE

Successful NHIN “Trial Implementation” Demo

Nationwide Health
Information
Network

Exchanged “Summary Record” among 19 different organizations

- **Part 1: Supporting the Patient**
 - Emergency care
 - Transfer of care
 - Wounded warrior
- **Part 2: Supporting the Consumer**
 - The Work of the Cooperative
 - Supporting Consumer Preferences
- **Part 3: Innovative Business Use**
 - Innovative Business Opportunity



Successful NHIN “Trial Implementation” Demo

Nationwide Health
Information
Network

Exchanged “Summary Record” among 19 different organizations



View video, see slides, and
read transcript

www.hhs.gov/healthit/community/meetings

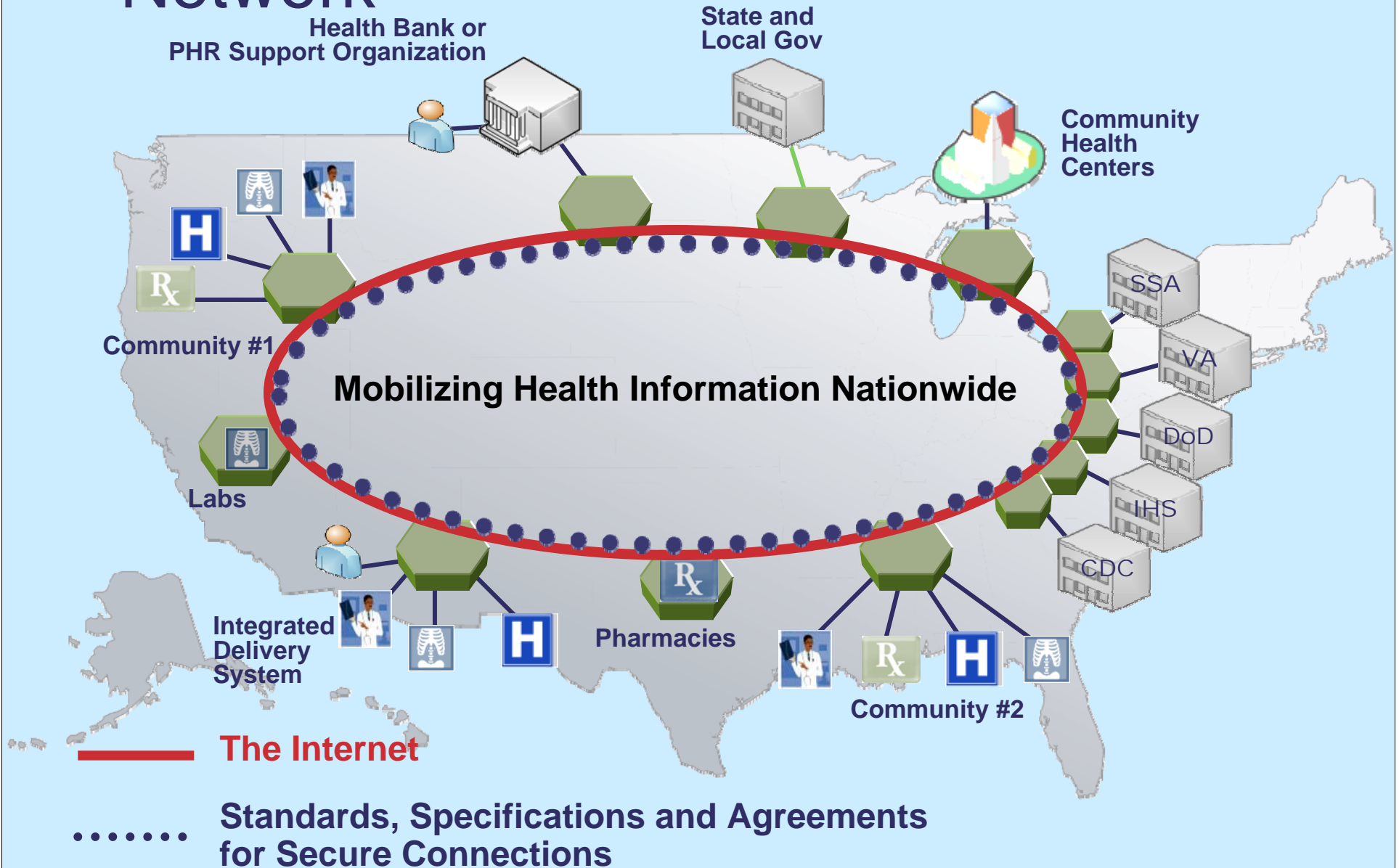
Click on “September 23, 2008”





Where are we going?

The Nationwide Health Information Network

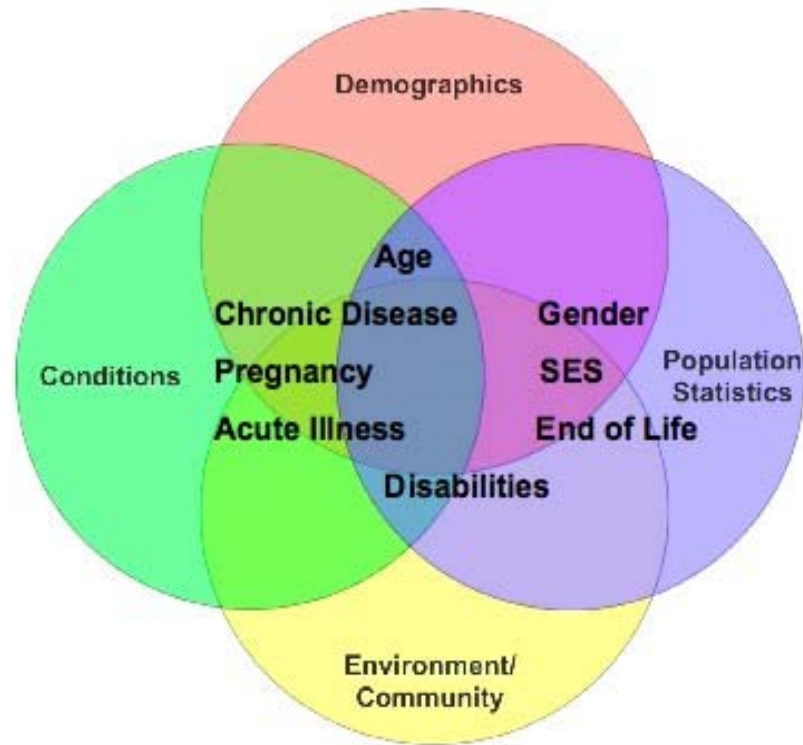




WHY?

A Broader Picture of Health

- Personal Health
- Family Health
- Community Health
- Public Health
- Population Health
- Transparency of Data



- Patient needs based sharing of information- demographics, environment and community, population data, and health conditions

Interoperable Tools



- Clinical information system
 - Standard, shared and interoperable data sets
 - Clinical quality (HEDIS, Elder, Patient Education, etc) measurement
 - Population health reports
- Patient/ Family and Community Activation
 - Wellness Focus
 - Actionable data
- Population Health
 - Standard, shared and interoperable data sets
 - Early Sentinel Awareness



**How will we know when
we are there?**



The Interoperable HIT VISION



- HIT becomes part of the vernacular
- A health care IT system that INTEGRATES family, population, public and community health as a cornerstone of personal health care delivery (not just an afterthought) at the point of care
- The ability to share this data in an actionable format
- Inclusion of non traditional data information into the traditional patient, provider, family and community perspective in a standardized fashion
- Health equity



Indian Wedding Prayer



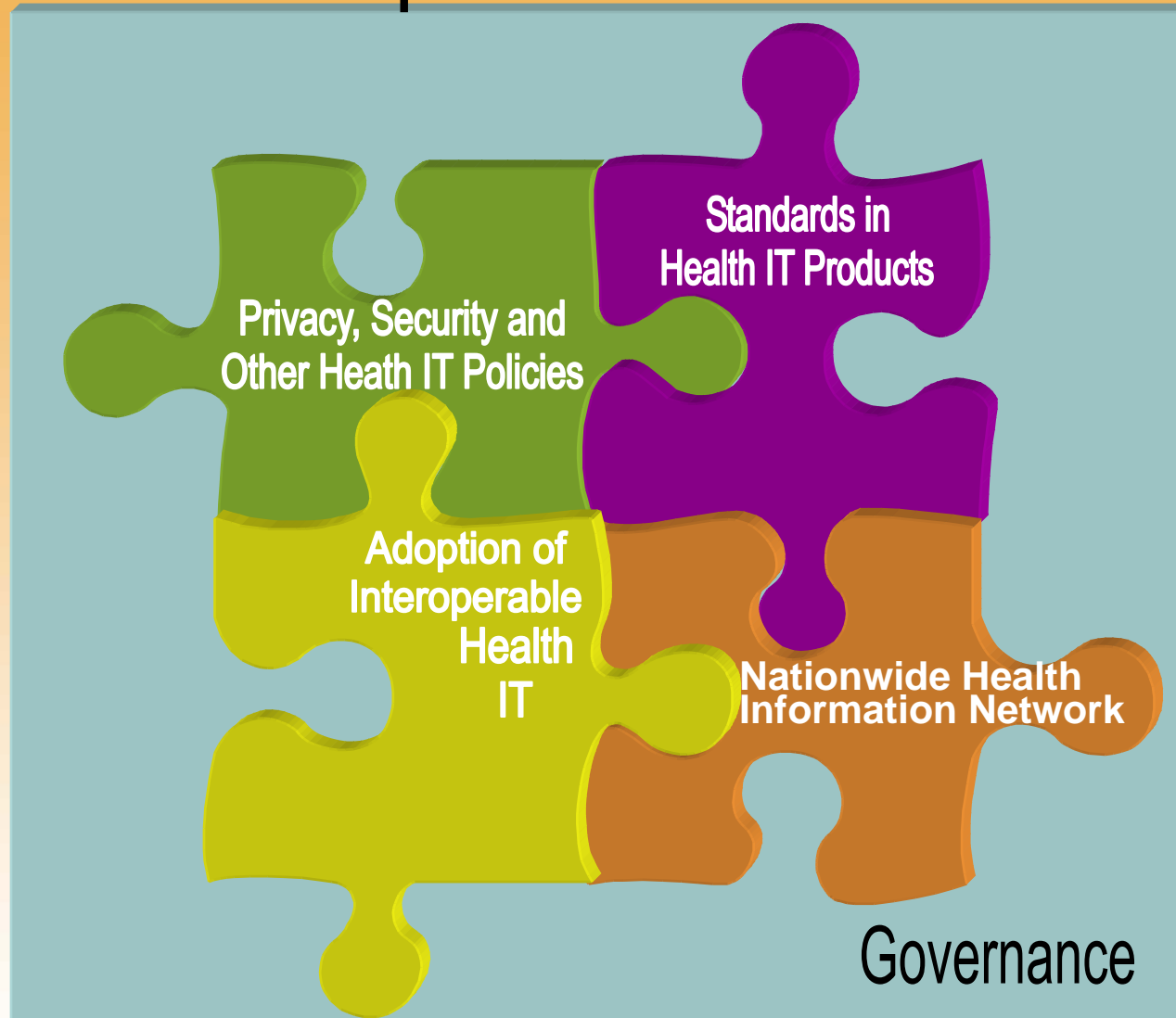
Now you will feel no rain for each of you will be shelter for the other. Now you will feel no cold for each of you will be warmth for the other. Now there is no loneliness. Now you are two persons but there is only one life before you. Go now to your dwelling to enter into the days of your life together and may your days be good and long upon the earth.



Indian Health Service
www.ihs.gov



Five Critical Components Necessary For Nationwide Interoperable Health Information



Summary of Health IT Strategic Goals and Objectives: 2008-2012

	Privacy and Security	Interoperability	Adoption	Collaborative Governance
Goal 1. Patient-focused Health Care	Objective 1.1: Facilitate electronic exchange, access, and use of electronic health information, while protecting the privacy and security of patients' health information.	Objective 1.2: Enable the movement of electronic health information to support patients' health and care needs.	Objective 1.3: Promote nationwide deployment of electronic health records (EHRs) and personal health records (PHRs) and other consumer health IT tools.	Objective 1.4: Establish mechanisms for multi-stakeholder priority-setting and decision-making.
Goal 2. Population Health	Objective 2.1: Advance privacy and security policies, principles, procedures, and protections for information access in population health.	Objective 2.2: Enable exchange of health information to support population-oriented uses.	Objective 2.3: Promote nationwide adoption of technologies to improve population and individual health.	Objective 2.4: Establish coordinated organizational processes supporting information use for population health.



***In beauty may I walk.
All day long may I walk.
Through the returning seasons may I walk.
On the trail marked with pollen may I walk.
With grasshoppers about my feet may I walk.
With beauty may I walk.
With beauty before me may I walk.
With beauty behind me may I walk.
With beauty above me may I walk.
With beauty all around me may I walk.
In old age wandering on a trail of beauty, lively, may I walk.
In old age wandering on a trail of beauty, living again, may I walk.
If it finished in beauty,
It is finished in beauty.***

DINE' PRAYER