Bringing Personal Health Records to the Health Care System

Presentation to the HITSP Board

America's Health Insurance Plans
Blue Cross Blue Shield Association
June 2, 2006

Introductions

- Mr. Rich Landen, Blue Cross Blue Shield Association
- Mr. Tom Meyers, AHIP
- Ms. Jeanette Thornton, AHIP
- Mr. Tom Wilder, AHIP

Overview

- Project Overview
- PHR Data Domains
- PHR Transfer Standards
- Standard Harmonization
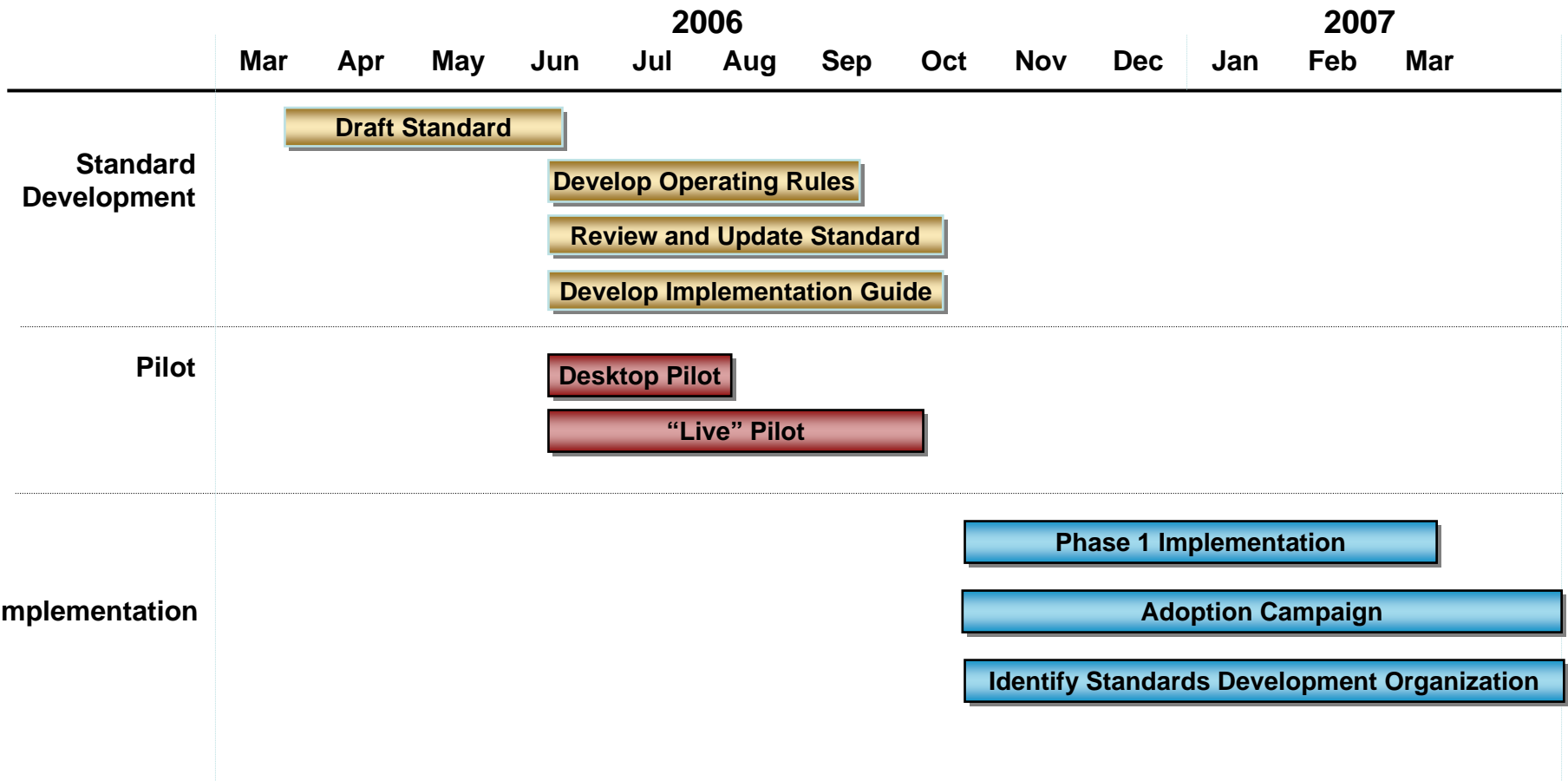- Next Steps

Developing a PHR Standard

- Health plans are already implementing PHRs
- Effectively Utilizes health plan data
  - Complements self-reported data
  - Positions health plans to implement AHIC CE breakthrough
- Bits and pieces of standards and data sets currently exist
- No standard exists for the transfer of information between PHRs
- AHIP and BCBSA are developing an industry-wide PHR standards to leverage the work of existing standards organizations
  - Based on existing standards
  - Complies with HIPPA/Claims Attachment Rule

Schedule

The schedule remains aggressive. Continue to target November 2006 Board Meeting for approval of the standard.

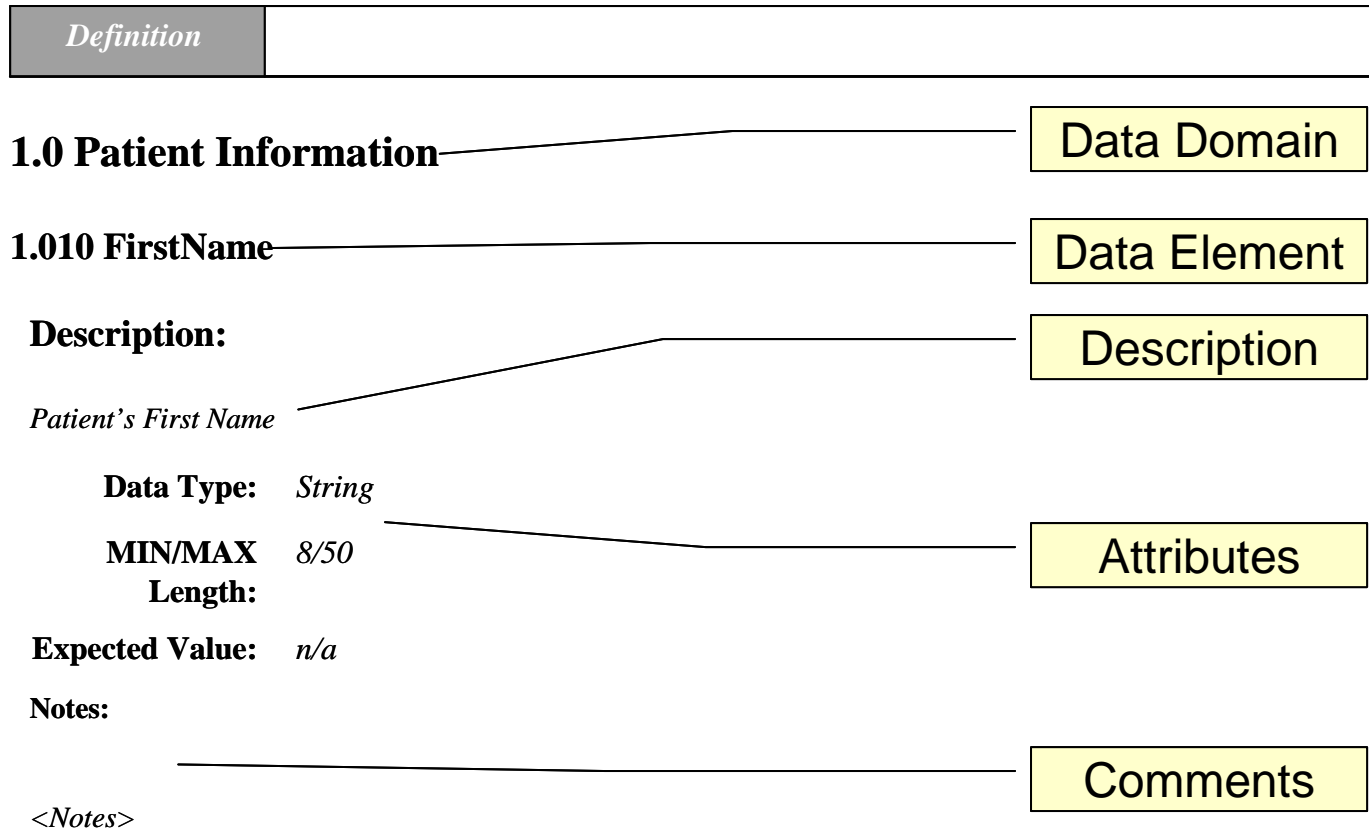|	**2006**										**2007**		
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar

Standard Development
- Draft Standard
- Develop Operating Rules
- Review and Update Standard
- Develop Implementation Guide

Pilot
- Desktop Pilot
- "Live" Pilot

Implementation
- Phase 1 Implementation
- Adoption Campaign
- Identify Standards Development Organization

Standard PHR Data Domains

Domain	Domain Summary	Standard
Patient Information	Demographic and personal information, emergency contacts, PCP, etc.	HIPAA ASC X12N
Family History	Possible health threats based on familial risk assessment	CCR/CCD
Physiological Info.	Physiological characteristics such as blood type, height, weight, etc.	CCR/CCD
Encounter	Encounter data in inpatient or outpatient settings for diagnoses, procedures, etc.	HIPAA ASC X12N
Medication	Medication history such as medication name, prescription date, dosage, etc.	HIPPA NCPDP
Immunization	Information regarding immunizations such as vaccine name, vaccination date, etc.	
Provider	Information regarding clinicians who have provided services to the individual	HIPAA ASC X12N
Facility	Information regarding facilities where individual has received services	HIPAA ASC X12N
Health Risk Factors	Patient's habits, such as smoking, alcohol consumption, substance abuse, etc.	CCR/CCD
Advance Directives	Advance directives documented for the patient for intubation, resuscitation, IV fluid, etc.	CCR/CCD
Alerts	Patient's allergy and adverse reaction information	CCR/CCD
Health Plan Info.	Used for plan to plan PHR transfer. Information about the sender and recipient plans; the originator of the PHR for the consumer download of PHR.	HIPAA ASC X12N
Plan of Care	Any reminder, order, and prescription, etc. recommended by the care management and disease management for the patient.	CCR/CCD

White Rows are Self-Reported Information

Yellow Rows are Systems-Populated Information

Data Dictionary

Definition	

1.0 Patient Information — Data Domain

1.010 FirstName — Data Element

Description: — Description

Patient's First Name

Data Type: *String*

MIN/MAX Length: *8/50* — Attributes

Expected Value: *n/a*

Notes: — Comments

<Notes>

A detailed data dictionary will be created
based on the approved definition for each data domain

Data Dictionary (continued)

Interoperability	

HIPAA

VERSION	DATA ELEMENT	NAME	DATA TYPE	MIN/MAX LENGTH	REFERENCE
HIPAA 4010A1	1036	Name First	AN	1/25	X096 Pg. 146
		Patient's First Name			

CCR

VERSION	DATA ELEMENT	NAME	DATA TYPE	MIN/MAX LENGTH	REFERENCE
<version>	<Element Number>	<Data Element Name>	<Data Type>	<MIN/MAX Length>	<Reference Spec and Page Number>
	<Description>				

HL7

VERSION	DATA ELEMENT	NAME	DATA TYPE	MIN/MAX LENGTH	REFERENCE
2.5	5	Patient Name	XPN	250	2.5 Pg. 79

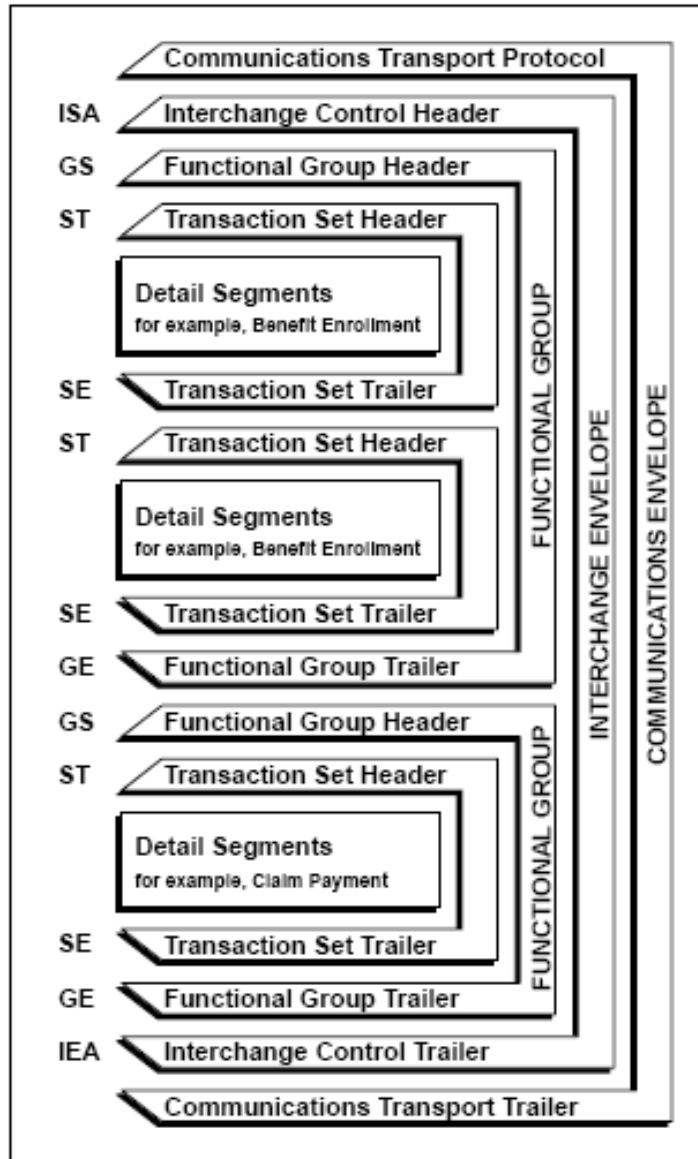*Patient's Name. HL7 combines first, middle and last name into one data element.*

Health Plan Model

- Verify PHR data domains can be supported by the health plans' data sources

- Identify the best health plan data sources for the PHR data domains

- Demonstrated the import, export, and transfer of PHR data domains

- Provide additional input to the PHR specifications and implementation guide

- Test if received PHR data can be imported into health plan operation; identify the gaps to be addressed

PHR Implementation Guide

Operating Data Sources

500 Sample PHRs

Pilot Plan 1

PHR Implementation Guide

Operating Data Sources
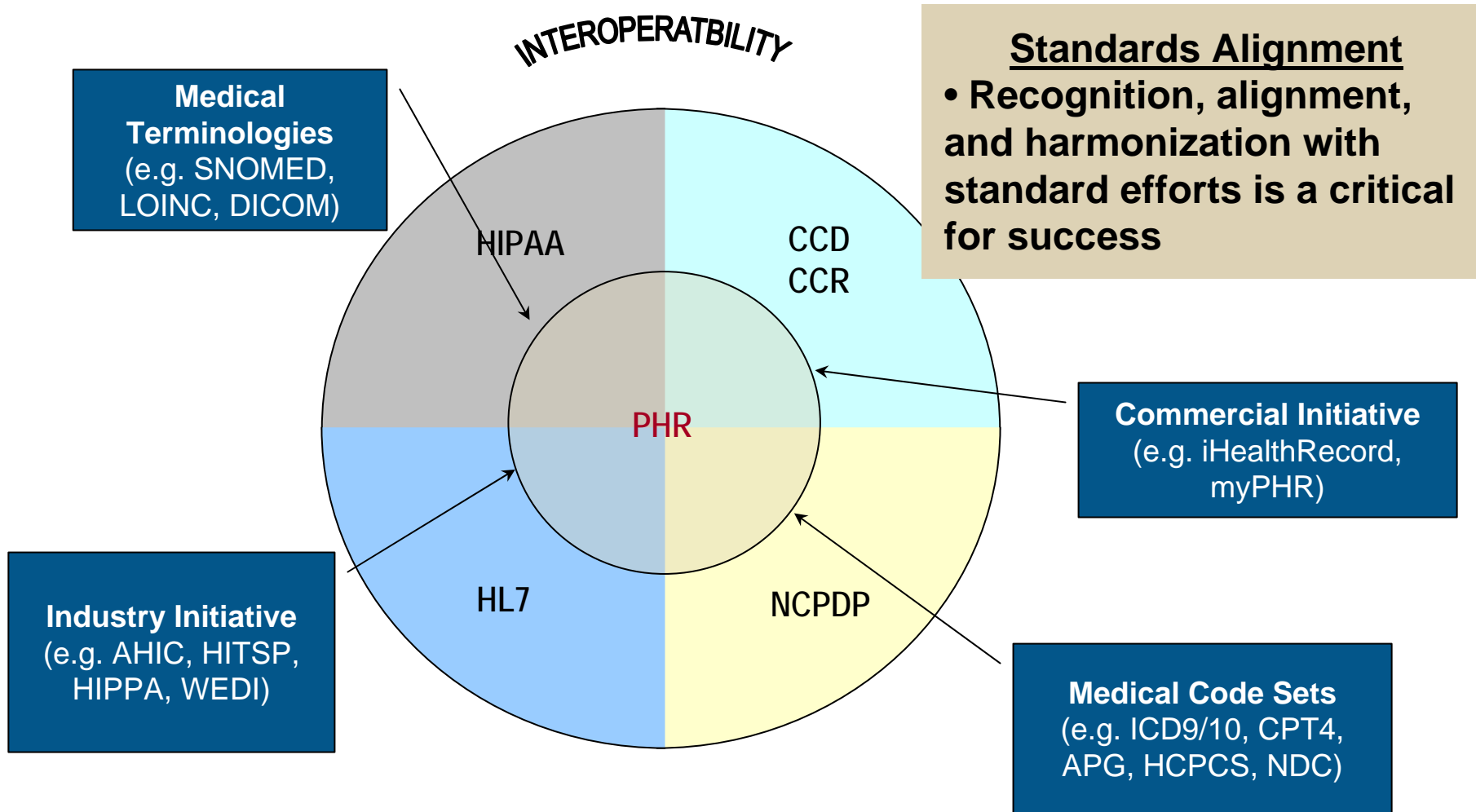
500 Sample PHRs

Pilot Plan 2
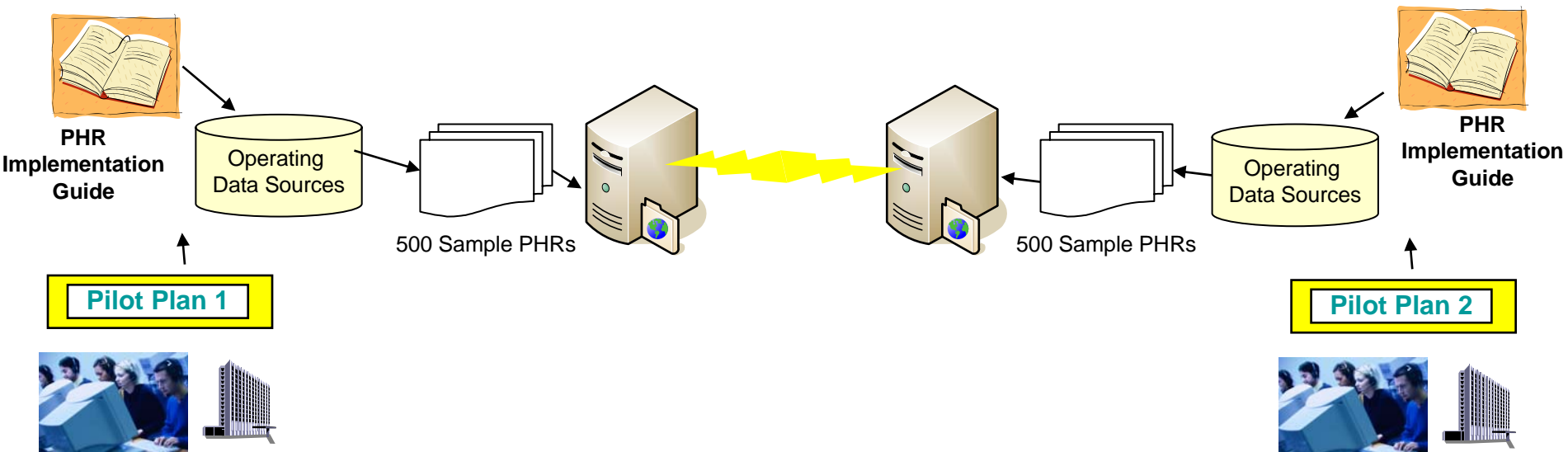
PHR Transfer Standard

- **Uses ASC X12 standard 275 as basis for PHR Plan to Plan transfer standard**

  - Maximizes the usage of existing HIPAA transaction infrastructure

  - Supports both bulk (employer group) and individual transmission.

  - Practical when transferring PHR data on behalf of a large number of subscribers to single destination.

  - Will allow for future intake data from providers to populate PHRs hosted at health plans.
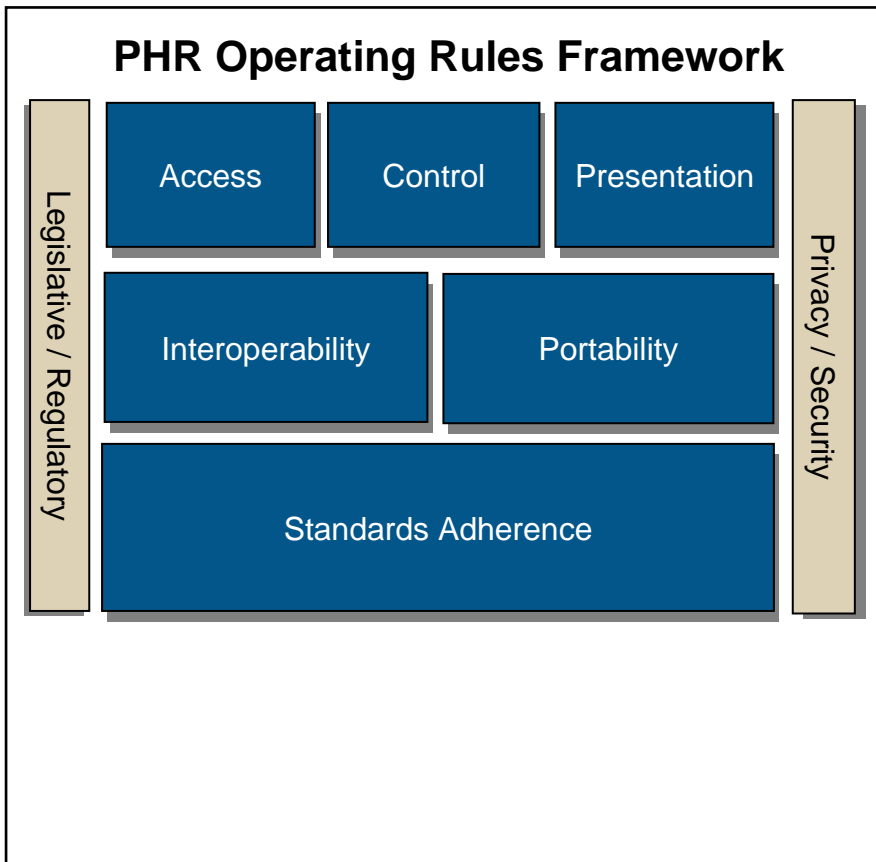
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Interoperability

INTEROPERATBILITY

Medical Terminologies
(e.g. SNOMED, LOINC, DICOM)

Standards Alignment
• Recognition, alignment, and harmonization with standard efforts is a critical for success

HIPAA

CCD CCR

PHR

Commercial Initiative
(e.g. iHealthRecord, myPHR)

HL7

NCPDP

Industry Initiative
(e.g. AHIC, HITSP, HIPPA, WEDI)

Medical Code Sets
(e.g. ICD9/10, CPT4, APG, HCPCS, NDC)

Operating Rules Framework

AHIP

We are developing the operating rules and implementation guide to enable plan-to-plan PHR transfer

PHR Operating Rules Framework

Legislative / Regulatory

Access | Control | Presentation

Interoperability | Portability

Standards Adherence

Privacy / Security

Access: Defines access to data, information inclusion, delegation

Control: Defines controls over PHR and usage

Presentation: Defines requirements for data presentation consistency across specified media

Interoperability: Defines data, technical and business process requirements to enable transfer of data between systems

Portability: Defines requirements that enable data to be extracted from the PHR and transported by specified media

Standards Adherence: Defines which standards the PHR leverages

Legislative / Regulatory: Defines federal, state, local, regulatory compliance

Privacy / Security: Defines organizational and regulatory compliance rules

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Standards Harmonization

- Subsequent briefings to HITSP technical committees
- At project completion, the PHR Standards will be:
  - In the public domain
  - Standard Development Organization responsible for long term maintenance
- Future phases will align standards with HITSP harmonized PHR standard

Next Steps

- Conduct pilot test with 6 health plans to:
  - Verify data domains can be supported
  - Demonstrate import, export, and transfer of data
  - Identify needed changes to standard and implementation guide
  - Test if received PHR data can be imported into health plan operation; identify gaps to be addressed
- Focus on health plan implementation of plan to plan transfer
- Align with Consumer Empowerment use case