

The Certification Commission for Healthcare Information Technology (CCHIT) Update

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Chair, CCHIT**

**Presented before the
National Committee on Vital and Health Statistics
June 30, 2005
Washington, DC**

Topics to be Covered

- **Origin, Mission and Concept**
- **Organizational Structure**
- **Scope, Deliverables, and Timeline**
- **Development Process**
- **Overview of Work Products and Public Comment Process**
- **HHS Health IT Strategy and the Future of CCHIT**
- **Q & A**



Origin, Mission and Concept of CCHIT

Origins of CCHIT

Goals and Strategies of HHS's Framework for Strategic Action

Goals	Strategies ^a
<i>Goal 1:</i> Inform clinical practice with the use of electronic health records (EHR)	<ol style="list-style-type: none"> 1. Incentivize EHR adoption 2. Reduce risk of EHR investment 3. Promote EHR diffusion in rural and underserved areas
<i>Goal 2:</i> Interconnect clinicians so that they can exchange health information using advanced and secure electronic communication	<ol style="list-style-type: none"> 1. Foster regional collaboration 2. Develop a national health information network 3. Coordinate federal health information systems
<i>Goal 3:</i> Personalize care with consumer-based health records and better information for consumers	<ol style="list-style-type: none"> 1. Encourage use of personal health records 2. Enhance informed consumer choice 3. Promote use of telehealth systems
<i>Goal 4:</i> Improve public health through advanced biosurveillance methods and streamlined collection of data for quality measurement and research	<ol style="list-style-type: none"> 1. Unify public health surveillance architectures 2. Streamline quality and health status monitoring 3. Accelerate research and dissemination of evidence

Source: HHS.

^a Phase I strategies are shown in bold type.

Private sector certification of HIT products – a key action in the Framework

Founding of CCHIT

- **Founded by three HIT associations:**
 - American Health Information Management Assoc (AHIMA)
 - Healthcare Information and Management Systems Society (HIMSS)
 - The National Alliance for Health Information Technology (Alliance)
- **Formed panel to nominate first Commissioners**
- **Provided seed funding and resources**
- **First official meeting Sept 14, 2004**

Broadened Funding Support

- **Unrestricted grants, \$110k total, from:**
 - American Academy of Family Physicians (AAFP)
 - American College of Physicians (ACP)
 - Hospital Corporation of America
 - McKesson
 - Sutter Health
 - United Health Foundation
 - WellPoint Health Networks, Inc.
- **Grants supporting testing development, \$215K total**
 - California HealthCare Foundation

Mission of CCHIT

**To accelerate the adoption
of robust, interoperable HIT
throughout the US healthcare system,
by creating an efficient, credible,
sustainable mechanism
for the certification of HIT products.**

Guiding Principles

- **Timeliness**
 - Need decisive private-sector action now
- **Value**
 - Deliver value for all key stakeholders and the larger healthcare community
 - Process must be efficient and not add net costs
- **Integrity**
 - Operate in credible, objective, transparent manner
 - Certification must be objective, laboratory verified to the greatest extent practical

Key Points to Clarify

- **Product Certification is different from:**
 - Organizational Accreditation
 - Professional Certification
- **Certification is binary, i.e. “pass/fail”**
 - Not a subjective, comparative rating system
 - Competition and innovation can thrive “above the line”
- **Voluntary process**
 - Initial requirements must be market reality-based
 - A forward-looking requirements roadmap provides the best means to influence market direction

Standards and Certification Create “Tipping Points” for New Technologies



The IBM-standard PC launched the personal computing revolution

The Ethernet networking standard gave PC's connectivity



The Wi-fi standard made it wireless

How Product Certification Can Accelerate HIT Adoption

- Increase the confidence of providers to invest in and adopt HIT
- Facilitate interoperability of HIT products within the emerging national health information network
- Enhance the availability of HIT adoption incentives from public and private purchasers/payers

The HIT Adoption Deadlock

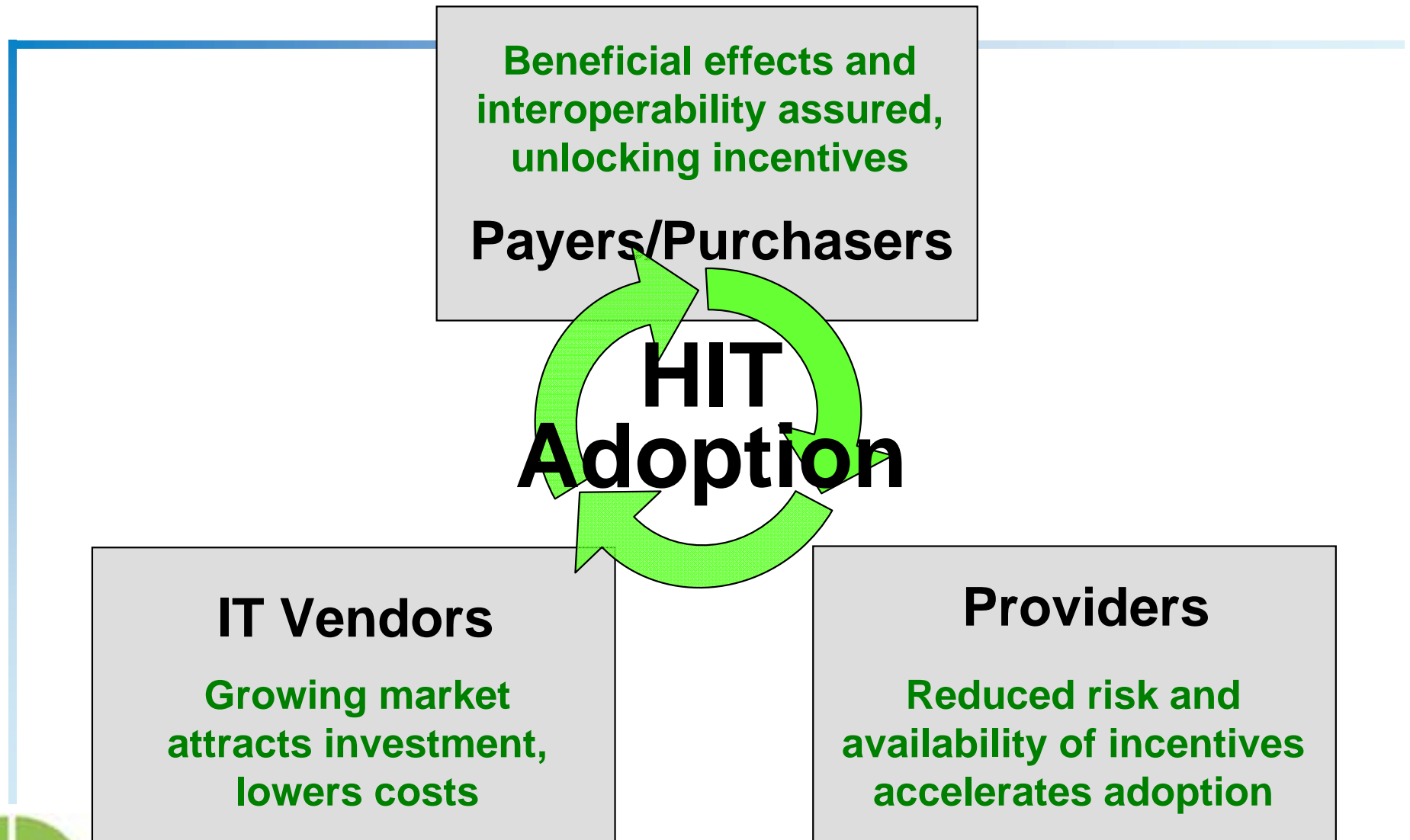
**Can't offer incentives
unless benefits and
interoperability of EHRs
are assured**
Payers/Purchasers

**HIT
Adoption**

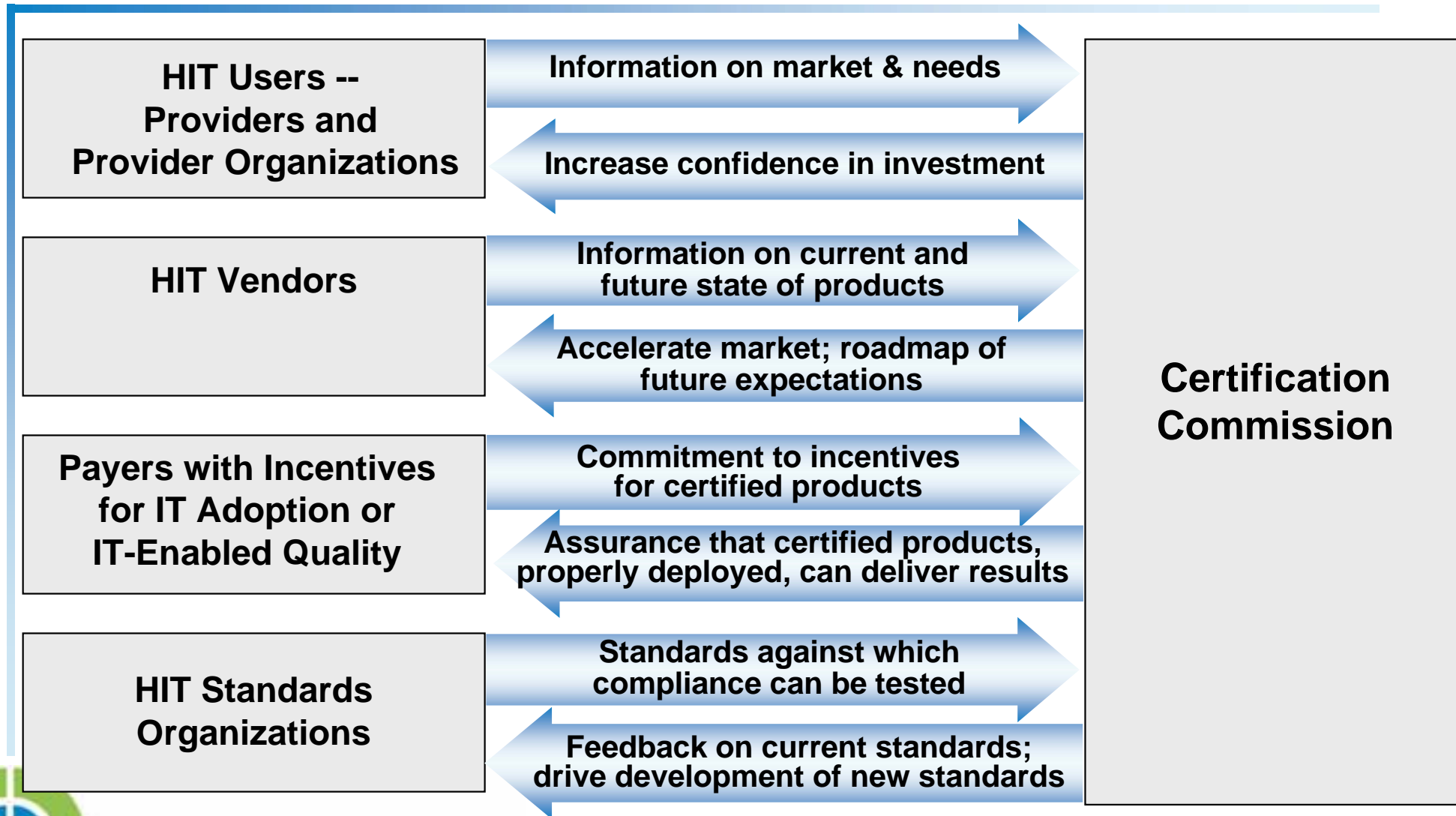
HIT Vendors
**Can't bring down
costs until provider
adoption accelerates**

Providers
**Hesitant to buy HIT until
costs and risks are lower
and/or incentives higher**

Breaking the Deadlock



Key Stakeholder Relationships



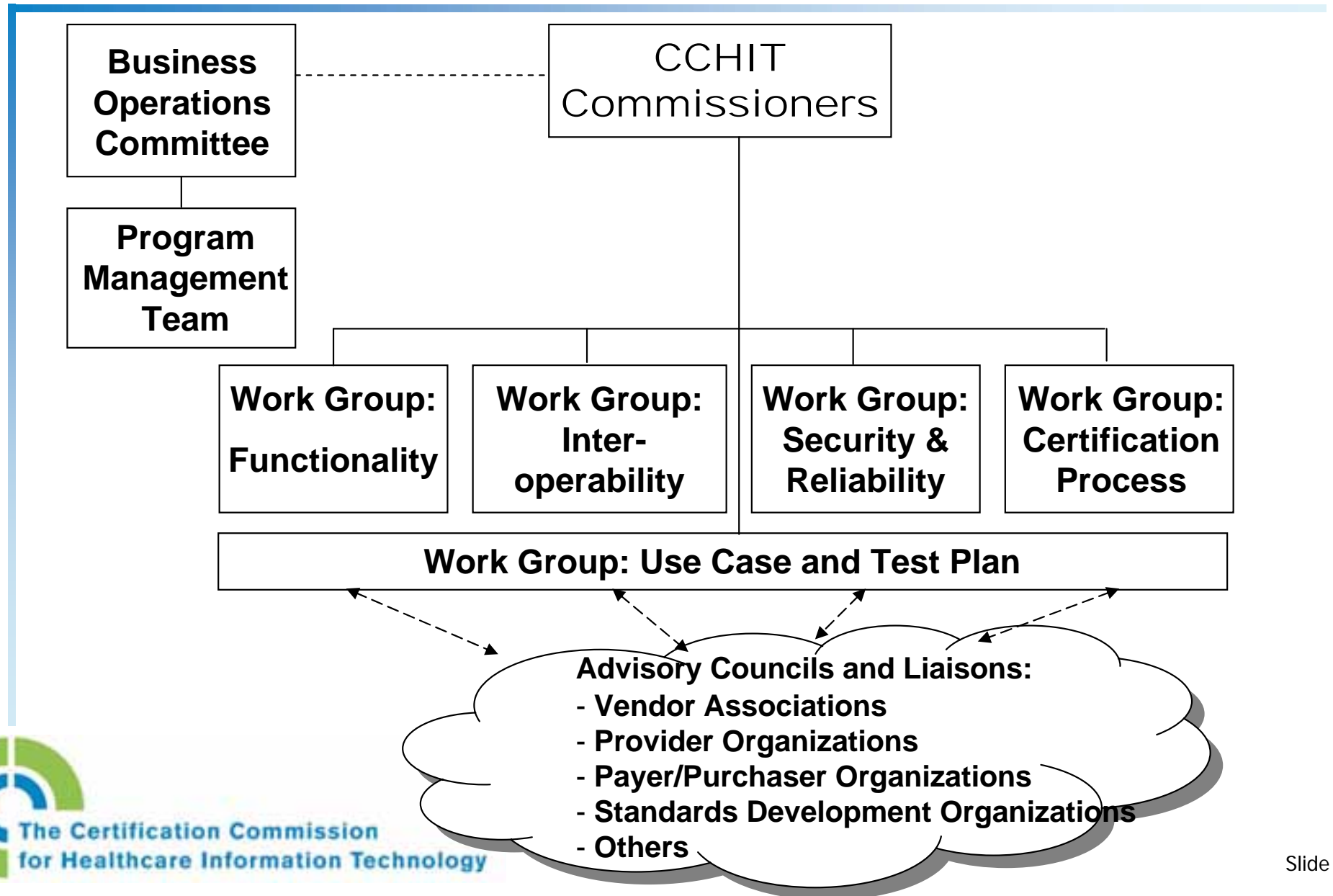
Additional Stakeholders: consumers, public health, research, quality org's

Organization of CCHIT



The Certification Commission
for Healthcare Information Technology

CCHIT Organization



Stakeholder Balance and Diversity on the Commission and Work Groups

Commission

- **2 – 4 from each key stakeholder group:**
 - Providers
 - Vendors
 - Purchasers/payers/coalitions
- **2 – 4 total drawn from other stakeholders:**
 - Government (ex-officio, nonvoting)
 - Standards development organizations (e.g. HL7)
 - Others, e.g. healthcare consumer advocates, etc.

Work Groups

- **Open Call for Participation**
 - 275 applicants
 - Commissioners ranked by qualifications then adjusted for stakeholder balance
- **Co-Chairs**
 - Two Co-Chairs
 - Must represent two different stakeholders
- **Members**
 - 8 – 10 members
 - Qualified experts
 - Diversity of backgrounds

Scope, Timeline, and Deliverables



Scope, Deliverables, and Timeline

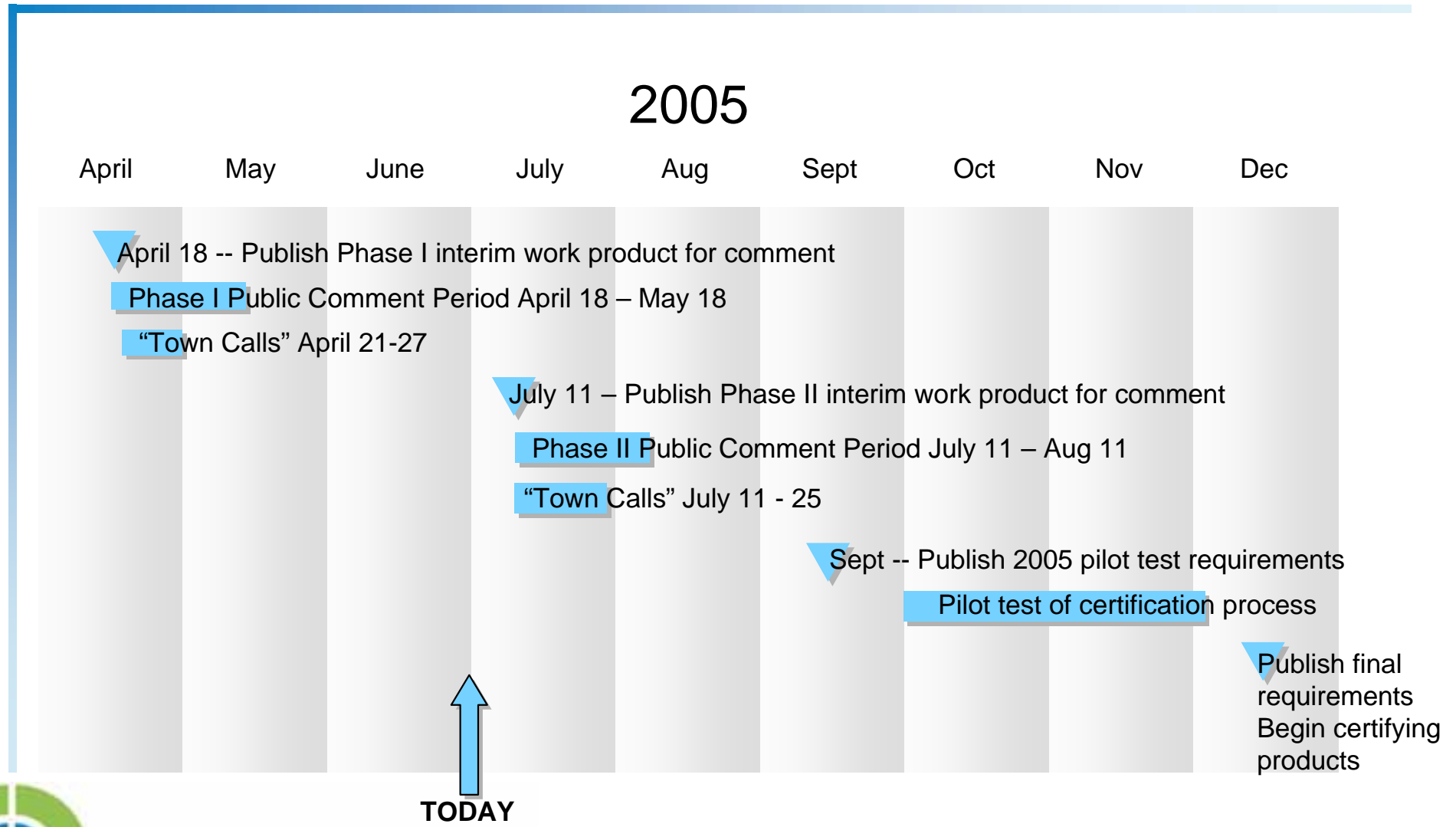
- **Initial scope**
 - Certify EHR products for physician offices and other ambulatory care settings
- **Deliverables:**
 - Operational capability for certification
 - Roadmap forecasting future certification plans 1-2 years ahead
- **Timeline**
 - Pilot process ready in September 2005

Certification Roadmap Concept

EHR Product Attributes	Current Year	1 Year Ahead	2 Years Ahead
Functionality	Final 2005 Requirements	Forecast 2006 Requirements	Forecast 2007 Requirements
Interoperability	Final 2005 Requirements	Forecast 2006 Requirements	Forecast 2007 Requirements
Security & Reliability	Final 2005 Requirements	Forecast 2006 Requirements	Forecast 2007 Requirements

Timeline

(Subject to adjustment)

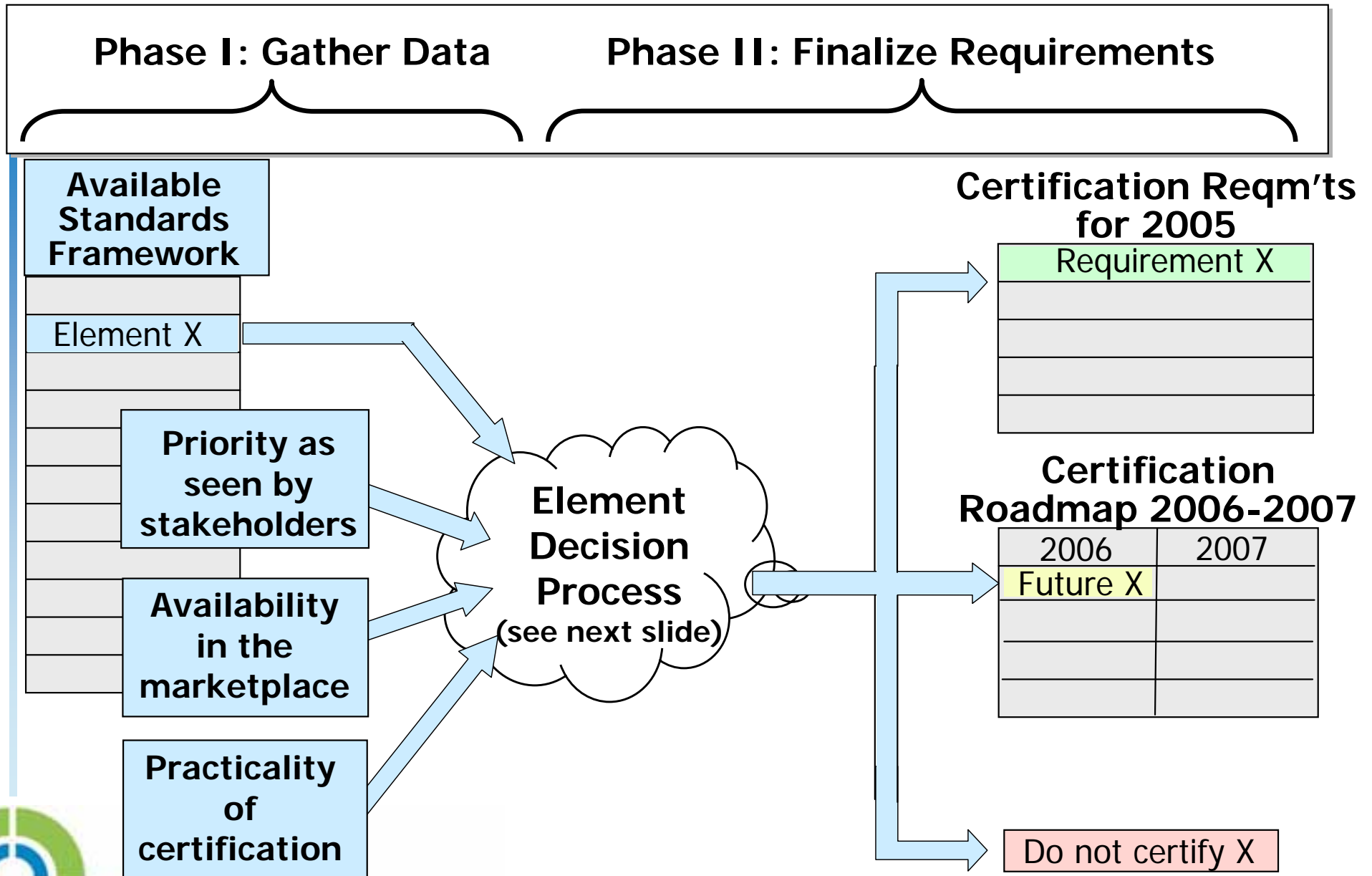


Description of Project Phases

- **Phase I – Data Gathering**
- **Phase I Public Comment period**
- **Phase II – Draft requirements**
- **Phase II Public Comment period**
- **Finalize requirements and begin pilot test**
- **Publish final requirements and roadmap**
- **Launch product certification**

Process for Development of Certification Criteria

Work Group Process



Element Decision Process

		Availability		
		Widely Available	Available in 2006 or 2007	Availability Uncertain
Priority	Essential	Certify in 2005	Consider for 2006-07 roadmap	Do not certify
	Essential in the Future	Consider for 2006-2007 roadmap	Consider for 2006-2007 roadmap	Do not certify
	Optional	Do not certify	Do not certify	Do not certify

Overview of Work Products and Public Comment Process

Phase I Work Products on Website (Note: Comment period is now closed)

The screenshot displays the CCHIT website interface. At the top left is the logo for The Certification Commission for Healthcare Information Technology, with the URL www.cchit.org next to it. Below the logo is a navigation menu with the following items: Home, About CCHIT, Press Releases, Commissioners, Commission Minutes, Work Groups, Public Comment on Phase 1, and Public Comment on Phase 2. The 'Public Comment on Phase 1' item is highlighted with a blue bar, and a black arrow points to it. In the center of the page, there is a text box titled 'Instructions for reviewing the Phase I interim work products and submitting public comment'. This box contains a paragraph of text and a bulleted list of links for different work groups. A right-click context menu is open over the 'Spreadsheet' link for the 'Functionality Work Group'. The menu options include 'Open', 'Open in New Window', 'Save Target As...', 'Print Target', 'Cut', 'Copy', 'Copy Shortcut', 'Paste', 'Add to Favorites...', and 'Backward Links'. The 'Save Target As...' option is highlighted in blue. At the bottom left of the page is the CCHIT logo and name. At the bottom right, the page number 'le 27' is visible.

www.cchit.org
The Certification Commission
for Healthcare Information Technology

Home
About CCHIT
Press Releases
Commissioners
Commission Minutes
Work Groups
Public Comment on Phase 1
Public Comment on Phase 2

Instructions for reviewing the Phase I interim work products and submitting public comment

The CCHIT Phase I interim work products are available here for your review. Click on any the links below to view a document online, or right-click and select "Save Target As..." to download the file (in Adobe PDF format) to your computer for offline review.

- Functionality Work Group: [Overview](#) and [Spreadsheet](#)
- Interoperability Work Group: [Overview](#) and [Spreadsheet](#)
- Security & Reliability Work Group: [Overview](#) and [Spreadsheet](#)
- Certification Process Work Group: [Overview](#)

After reviewing the documents, [click here to submit your comments](#). Additional instructions will be found in the online comment submission page if you have any questions or your interest!

Open
Open in New Window
Save Target As...
Print Target
Cut
Copy
Copy Shortcut
Paste
Add to Favorites...
Backward Links

le 27

Functionality Work Group Spreadsheet – Left Portion

CCHIT Functionality Work Group Phase I								
Line #	Criterion Name	WG	Criterion Description	Source (map to Standard source)	Priorities (L,M,H)			
					Providers	Vendors	Payer/ Purchasers	Other
1	Identify & maintain a patient record	Funct	Key identifying information is stored and linked to the patient record. Both static and dynamic data elements will be maintained. A look up function uses this information to uniquely identify the patient.	DC.1.1.1				
2								
3								
4								
5								
6								
7	Manage patient demographics	Funct	Contact information including addresses & phone numbers, as well as key demographic information such as date of birth, gender, and other information is stored & maintained for reporting purposes and for the provision of care.	DC.1.1.2	These data elements are necessary for determining needed care, contacting the patient.		These individual data elements are needed for tracking disparities in care, trends in disease patterns with regional variation, and help identify potential events related to bioterrorism. Age is needed to track appropriate health services such as	
8								
9								
10								
11								
12	Manage summary lists	Funct	Patient summary lists can be created from patient specific data and displayed and maintained in a summary format. The functions below are important.	DC.1.1.3	This is important to providers for quickly assessing the			These are important to patients who
13								



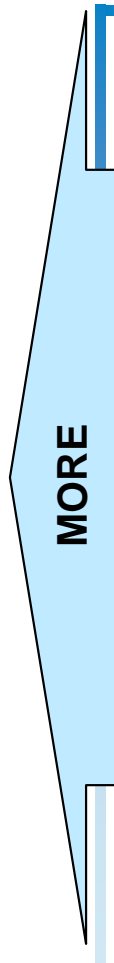
↑
Line
Numbers

**Functions from
HL7 EHR TC DSTU (Subset)**

**Evidence
on Priorities**



Functionality Work Group Spreadsheet – Right Portion



Availability ¹			Test Method	Test Specification	Recommendation		
2005	2006	2007			Certify in 2005	Roadmap for 2006	Roadmap for 2007
H			1. The system SHALL create a single patient record for each patient.				
H			2. The system SHALL associate (store/link) key identifier information with each patient record.				
H			3. The system SHALL store multiple identifiers for each patient record.				
H			4. Using the key identifying information, the system SHALL identify (look up) the unique patient record.				
H			5. The system SHALL maintain and make available dynamic data elements for each patient record.				
H			6. The data in the patient record and the integrity or the record itself SHALL be maintained until specifically deleted based on local policies, procedures and/or applicable laws and regulations.				
H			1. The system SHALL capture and maintain demographic information as part of the patient record.				
H			2. The system SHALL provide ability to report demographic information.				
M			3. The system SHALL keep track of demographic information over time.				
H			4. The system SHALL allow a user to modify demographic information about the patient.				

Evidence on Availability

Conformance Criteria and Test Specifications

**To be developed (Phase II):
2005 Criteria and
2006-07 Roadmap**

Interoperability Work Group Spreadsheet

CCHIT Interoperability Workgroup Phase I: Collection of Data and Assessment of the Industry										
Line Num.	Highlighted cases	ID	Use Case Component	Description	Priorities		Discussion / Barriers to Market Availability	Source Standard or Vocabulary	Implementaion Guide	Source Available Today?
					Providers	Payers/ Purchasers				
1			Laboratory and Imaging							
2	☑	L.1	Receive results	Results using common vocabulary with inbound interface optionality removed	H	M	(1) Interface optionality; (2) lack of standard result and result values vocabularies; (3) non-standard handling of microbiology; (4) Coding standards (once defined) must be kept current. Process must be efficient and fast to keep up with the addition of new tests; (5) Need to provide discrete data and laboratory specific reports. This is especially true for anatomical pathology and esoteric reporting. (6) Myriad of communication architectures increases costs to support send and receipt of results. (7) What is business model to support real-time results feeds? Who will pay? (8) Potential for innovation (technological and clinical) to be throttled by standards bodies.			
3								HL7 v2.4		X
4								HL7 v3		
5								LOINC result naming		X
6							Result values naming	SNOMED		X
7									CCDP Implementation Guide - Batch	X

↑
Line Numbers

Interoperability Use Cases – Priority cases highlighted

Evidence on standards, vocabularies, barriers, and availability

To be developed (Phase II): 2005 criteria and 2006-07 roadmap

Security & Reliability Work Group Spreadsheet

Item Num.	Control Category	Security / Reliability	Security Criteria - References				Action	Comment Criteria - Excluded / Description	Rationale for Inclusion / Exclusion	Priorities (I, M, H)				Mkt Availability			Recommendation			
			Canadian CC-BK Program	CC-BK	ISO 17799	HIPAA				Priority	Priority	Priority / Inclusion	Other / Excl	2006	2007	2008	2009	2010	2011	and beyond
18	Access Control	Security	CC-BK	CC-BK	ISO 17799	HIPAA	2006	Minimize and remove the most restrictive set of rights/privileges or access/permissions for processes/activities/behaviors/users for the performance of specified tasks.	Minimize. Use least-privilege principle. User/roles with lowest level of access. This to minimum necessary requirement under Privacy Act. Fundamental principle that should be incorporated. This covers role-based and screen rights to perform certain functions, as well as user-based or context-based implementations - define criteria to test these. Add examples that cover end-user and admin. (see #20 for similar example)	M	M	H	M	X				X		
20	Access Control	Security	CC-BK	CC-BK	ISO 17799	HIPAA	2006	Minimize and remove the most restrictive set of rights/privileges or access/permissions for processes/activities/behaviors/users for the performance of specified tasks.	Minimize. Use least-privilege principle. User/roles with lowest level of access. This to minimum necessary requirement under Privacy Act. Fundamental principle that should be incorporated. This covers role-based and screen rights to perform certain functions, as well as user-based or context-based implementations - define criteria to test these. Add examples that cover end-user and admin. (see #20 for similar example)	M	H	H	M	X				X		
22	Access Control	Security	CC-BK	CC-BK	ISO 17799	HIPAA	2006	Minimize and remove the most restrictive set of rights/privileges or access/permissions for processes/activities/behaviors/users for the performance of specified tasks.	Minimize. Use least-privilege principle. User/roles with lowest level of access. This to minimum necessary requirement under Privacy Act. Fundamental principle that should be incorporated. This covers role-based and screen rights to perform certain functions, as well as user-based or context-based implementations - define criteria to test these. Add examples that cover end-user and admin. (see #20 for similar example)	M	H	H	M	X				X		
230	Auth	Reliability	CC-BK	CC-BK	ISO 17799	HIPAA	2006	Minimize and remove the most restrictive set of rights/privileges or access/permissions for processes/activities/behaviors/users for the performance of specified tasks.	Minimize. Use least-privilege principle. User/roles with lowest level of access. This to minimum necessary requirement under Privacy Act. Fundamental principle that should be incorporated. This covers role-based and screen rights to perform certain functions, as well as user-based or context-based implementations - define criteria to test these. Add examples that cover end-user and admin. (see #20 for similar example)	M	H	M	L	X				X		
232	Auth	Security	CC-BK	CC-BK	ISO 17799	HIPAA	2006	Minimize and remove the most restrictive set of rights/privileges or access/permissions for processes/activities/behaviors/users for the performance of specified tasks.	Minimize. Use least-privilege principle. User/roles with lowest level of access. This to minimum necessary requirement under Privacy Act. Fundamental principle that should be incorporated. This covers role-based and screen rights to perform certain functions, as well as user-based or context-based implementations - define criteria to test these. Add examples that cover end-user and admin. (see #20 for similar example)	M	M	H	L	X				X		
233	Auth	Security	CC-BK	CC-BK	ISO 17799	HIPAA	2006	Minimize and remove the most restrictive set of rights/privileges or access/permissions for processes/activities/behaviors/users for the performance of specified tasks.	Minimize. Use least-privilege principle. User/roles with lowest level of access. This to minimum necessary requirement under Privacy Act. Fundamental principle that should be incorporated. This covers role-based and screen rights to perform certain functions, as well as user-based or context-based implementations - define criteria to test these. Add examples that cover end-user and admin. (see #20 for similar example)	M	M	H	L	X				X		

↑
Line Numbers

Security Criteria with references and rationale for inclusion/exclusion

Priorities and market availability

Preliminary recommendations (to be refined in Phase II)

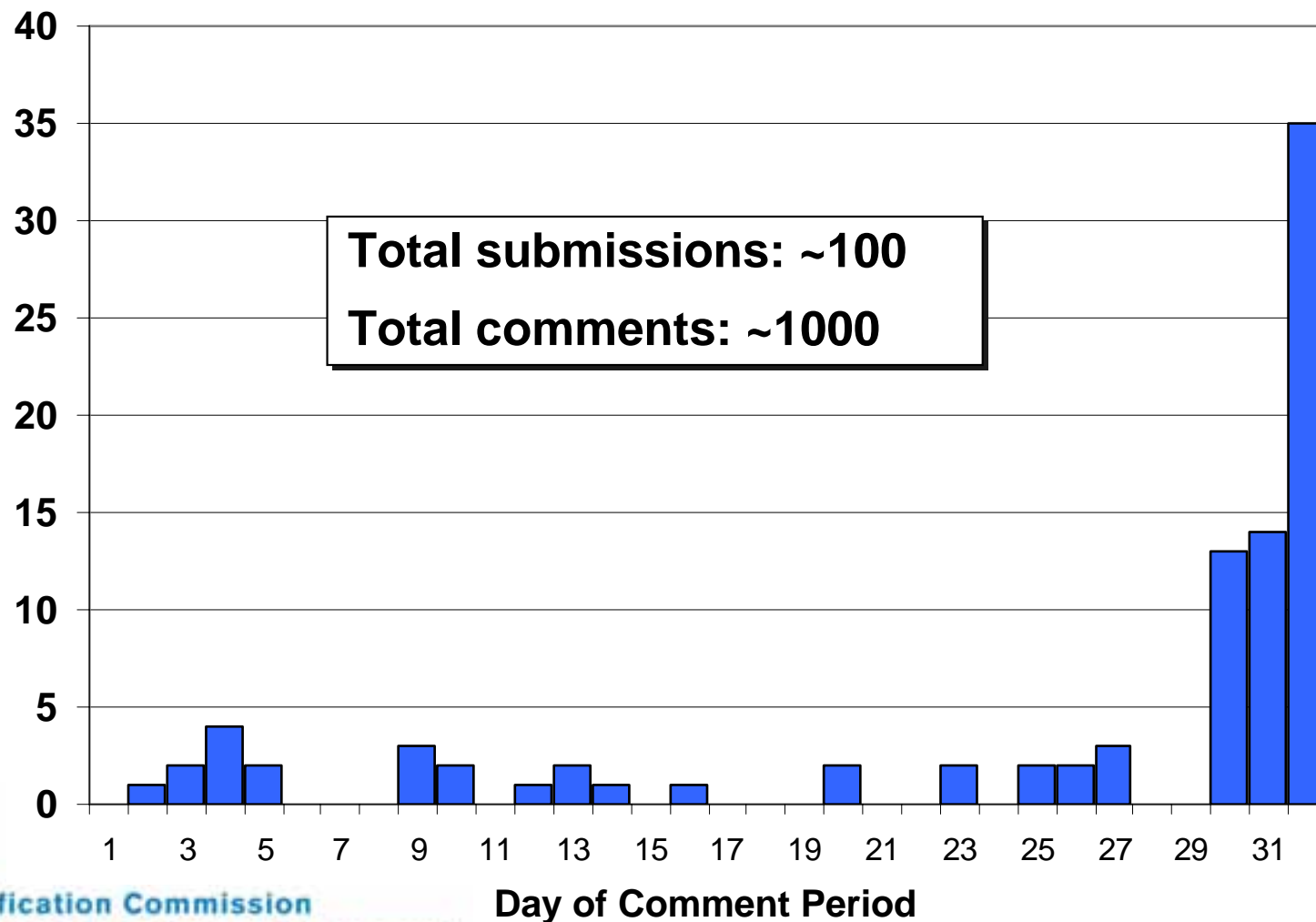
Phase I

Public Comment Period: Preliminary Results



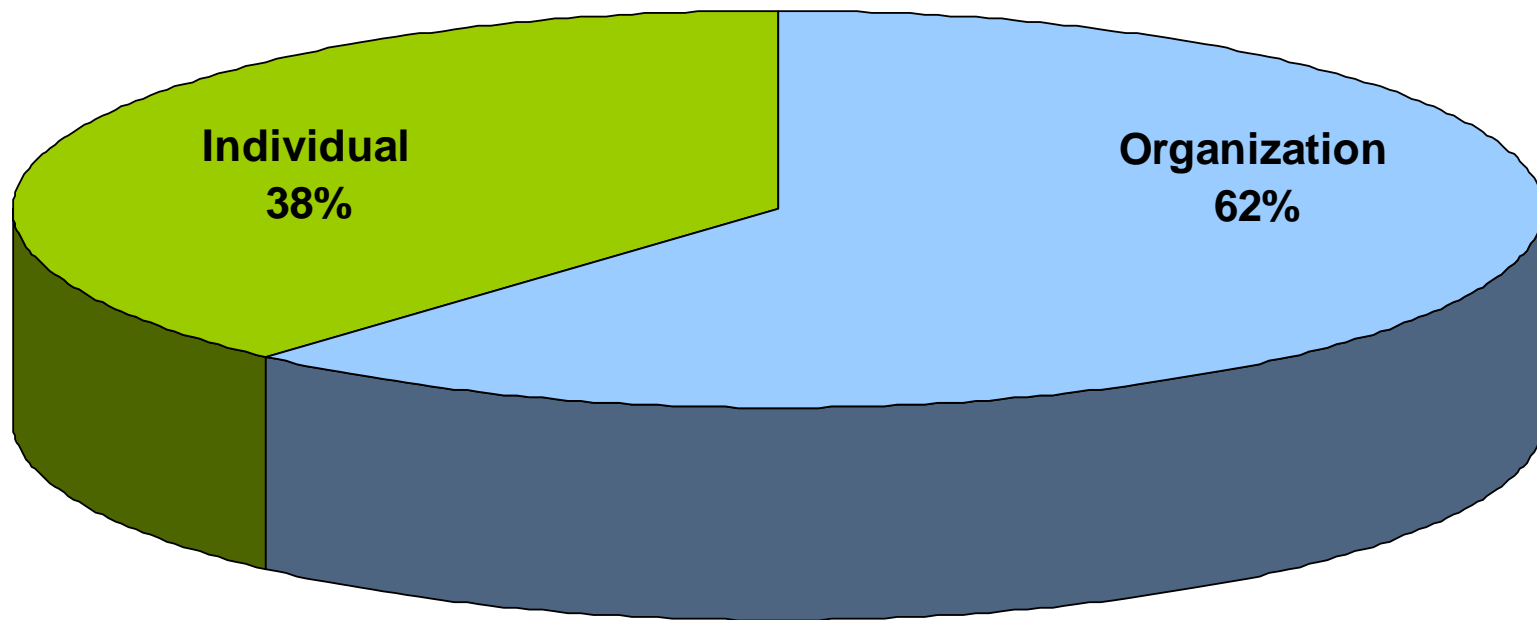
Phase I Public Comment: Response Volume and Timing

Daily Total Responses

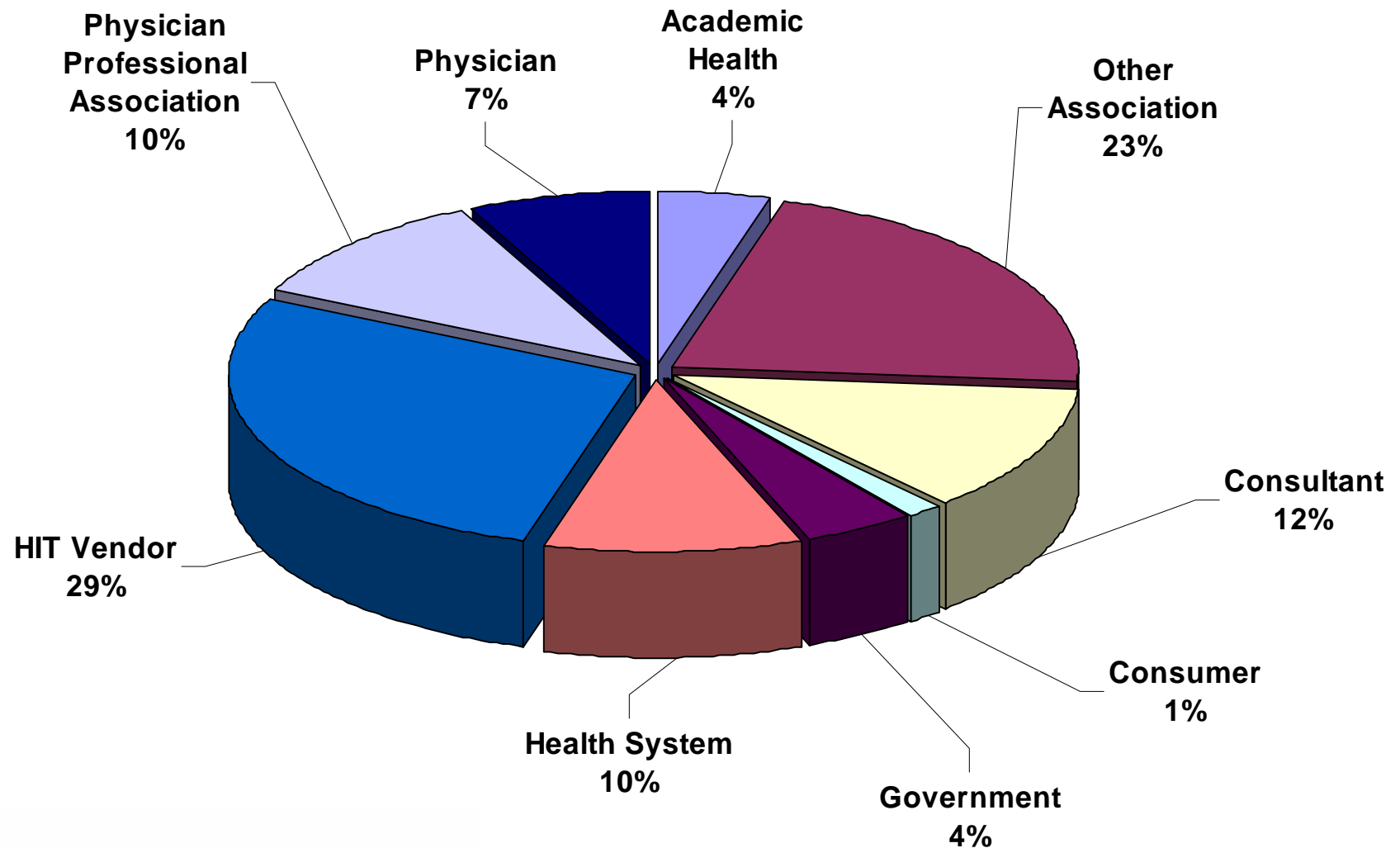


Phase I Public Comment: Responses by Source

Responses by Source

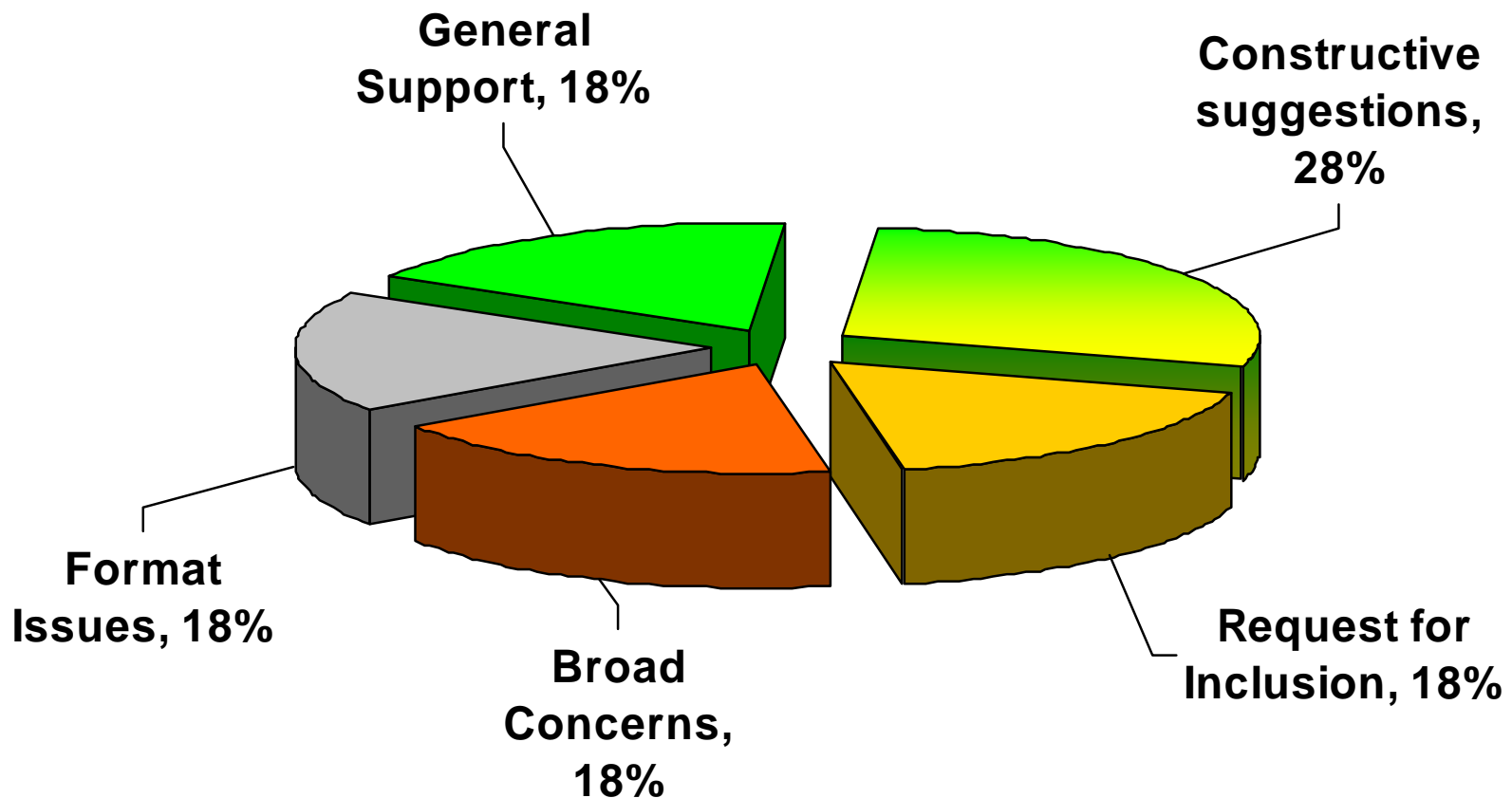


Phase I Public Comment: Responses by Category



Phase I Public Comment: General Responses for Commission (does not include comments for WGs)

TOTAL: 28



Phase II




Work Products:

Preview of Changes



Phase II Work Products Will Be Available on Website July 11



Home	
About CCHIT	
Press Releases	
Commissioners	
Commission Minutes	
Work Groups	
Public Comment on Phase 1	
Public Comment on Phase 2	



New Common Format

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q				
1	CCHIT Certification Criteria for Ambulatory EHR Products Phase II DRAFT for Public Comment - 6/14/05 © 2005 The Certification Commission for Healthcare Information Technology																				
2																					
3																					
4																					
5	Line #	WG	Category and Description	Specific Criteria	Source or References	Priorities (L,M,H)					Availability			Recommend			Discussion / Comments				
Providers						Vendors	Payers or Purchasers	Public Health	Patient	2005	2006	2007	Certify in 2005	Roadmap for 2006	Roadmap for 2007						
6																					
7	1																				
8	2																				
9	3																				
10	4																				

Criteria from Functionality, Interoperability, Security & Reliability Work Groups now “harmonized” in a common format

Crosswalk: Interoperability

Line #	WG	Category and Description	Specific Criteria	Source or References	Priorities (L,M,H)					Availability			Recommend			Discussion / Comments	
					Providers	Vendors	Payers or Purchasers	Public Health	Patient	2005	2006	2007	Certify in 2005	Roadmap for 2006	Roadmap for 2007		
1	I	Laboratory and Imaging	Receive results using common vocabulary with inbound interface optionality removed	HL7 V2.x available now; HL7 V3 in dev; LOINC for results naming (etc)	H		M										Discuss obstacles and solutions here!
2			Send orders to lab systems: Complete order must be defined (minimum dataset). There is no good definition for a minimum data set for an order message. Laboratory costs are higher if electronic orders are incomplete	HL7 V2.x available now; HL7 V3 in dev; LOINC for results naming (etc)	H		H										
3	I		Receive PACS images, photos and EKG images														

Line Num.	Highlighted cases	ID	Use Case Component	Description	Priorities		Discussion / Barriers to Market Availability	Source Standard or Vocabulary	Implementation Guide	Source Available Today?
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1			Laboratory and Imaging							
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3							HL7 v2.4			X
4							HL7 V3			
5							LOINC result naming			X
6							SNOMED			X
7								CCDP Implementation Guide - Batch		X
8								CCDP Implementation Guide - Real-time		
9								CCP Real-time implementation guide		X
10		L.2	Send orders to lab systems		H	H	(1) Complete order must be defined (minimum dataset). There is no good definition for a minimum data set for an order message. Laboratory costs are higher if electronic orders are incomplete.			
11							HL7 v2.3			X

First Draft of “Use Cases”

- **Use cases: realistic clinical scenarios for test purposes**
- **Use cases should demonstrate product fulfillment of functionality, interoperability, and security criteria**
- **Common use cases will help unify and coordinate efforts in the new HHS health IT strategy**

HHS Health IT Strategy and the Future of CCHIT



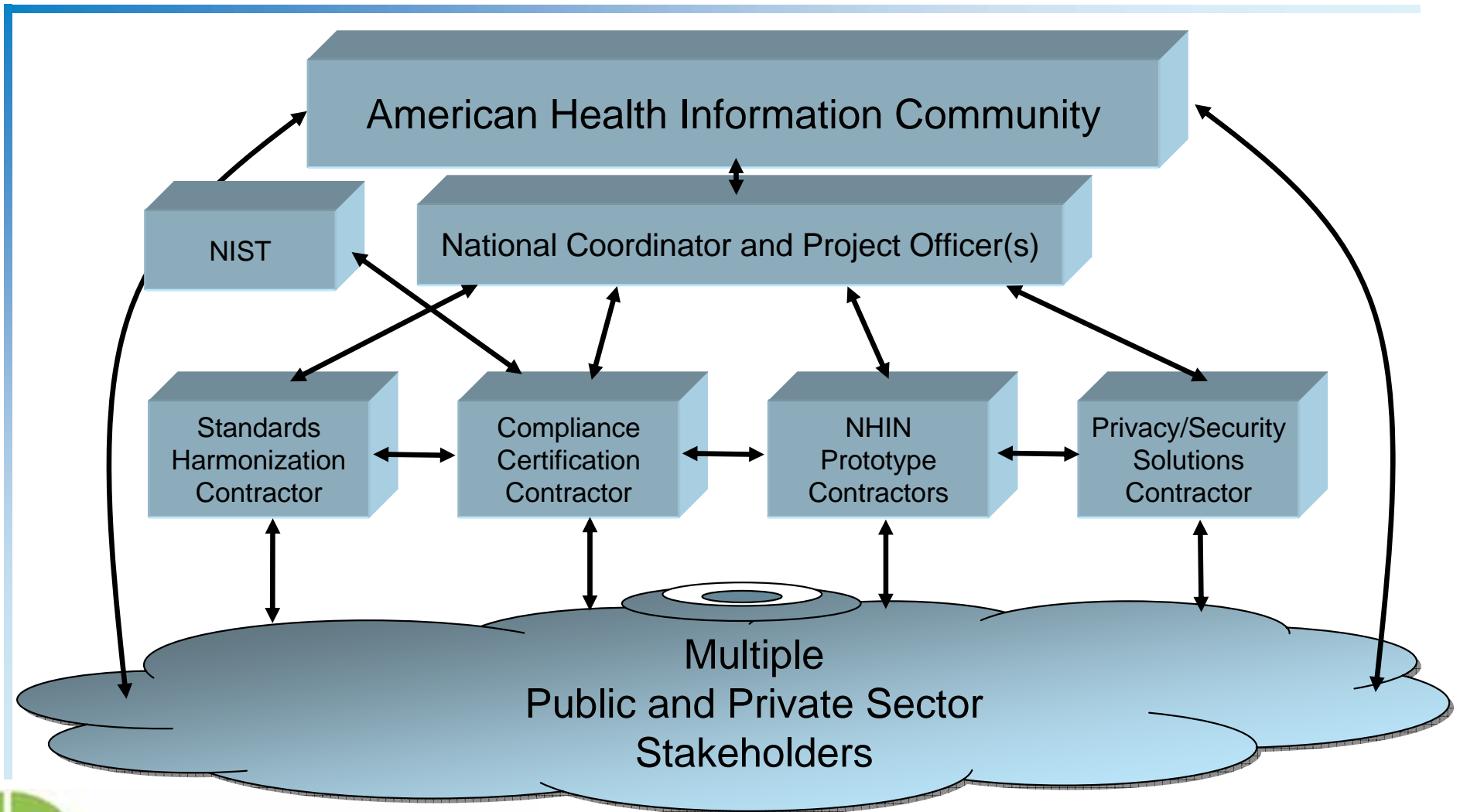
The Certification Commission
for Healthcare Information Technology

New HHS Health IT Initiatives Announced June 6-7, 2005

- **American Health Information Community**
 - Chaired by HHS Secretary Mike Leavitt
 - Five specific tasks requiring recommendations
- **Four RFP's released June 7**
 - Standards harmonization process
 - Compliance certification and inspection process*
 - Prototypes for a National Health Information Network
 - Privacy and security solutions for interoperable health information exchange

***CCHIT is responding to this RFP**

Collaborative Relationships



Thank You!

Q and A

For more information,
please visit the website:

