



Integrating the **H**ealthcare **E**nterprise IHE Pathology Planning & Technical Committee meeting

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Saturday May 17th, 2008

Toledo, Spain

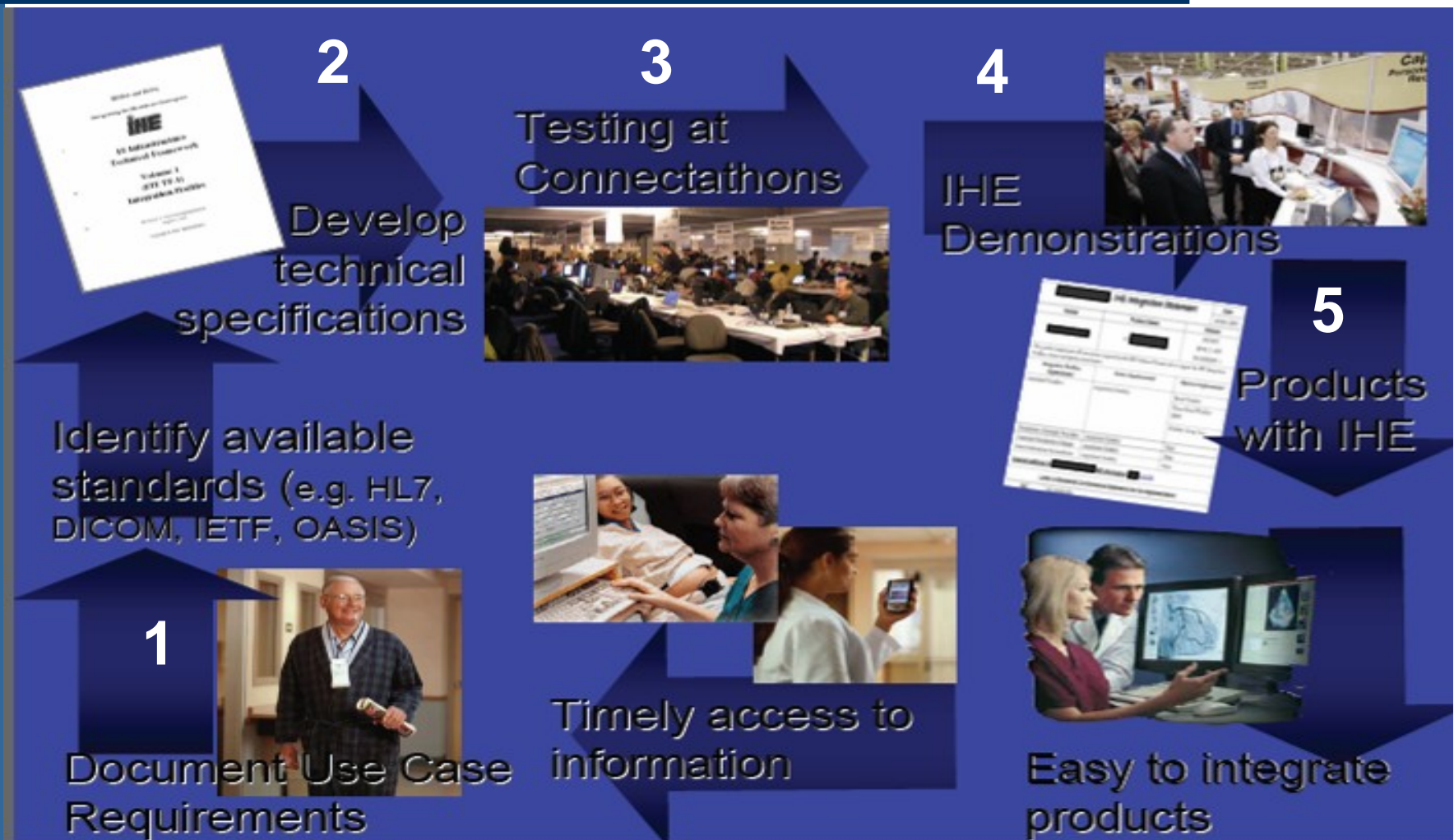
Agenda

- IHE Pathology
- How to be involved
 - Pathology Representatives election
 - IHE New governance
- Relationships with IC604 COST Action
- Road map
 - 2009-10 time line and brief proposals
 - 2nd-3rd year proposals

Scope

- Quality assessment studies in anatomic pathology
 - Each of the different steps from specimen collection and processing to report editing may be source of errors
 - Information systems integration supports error reduction
- IHE provides a standard process for implementing multiple standards to meet specific healthcare needs
- Main contributions of **IHE Pathology**
 - **Analysis of workflow & dataflow**
 - Specificity of the anatomic pathology workflow & needs for patient care and research
 - Consistency of cases, orders, image folders and reports
 - **Implementation guide** of transactions using existing healthcare informatics standards

The IHE Adoption Process: Implementing Integration Profiles of Domain Technical Frameworks



IHE Technical Frameworks

- Supplement to the current stable version of the Technical Framework is published for “**Public Comment**”
 - Stable body of the Technical Framework from the preceding cycle & newly developed supplements
- Updated version of the Technical Framework is published for “**Trial Implementation**”
 - Used by vendors in developing trial implementation software for the annual Connectathon.
- Updated version of the Technical Framework is published for as “**Final Text**”
 - Resolution of all change proposals received within 60 days of the Connectathon

IHE Pathology process

...THE PAST : Pathology Technical Framework

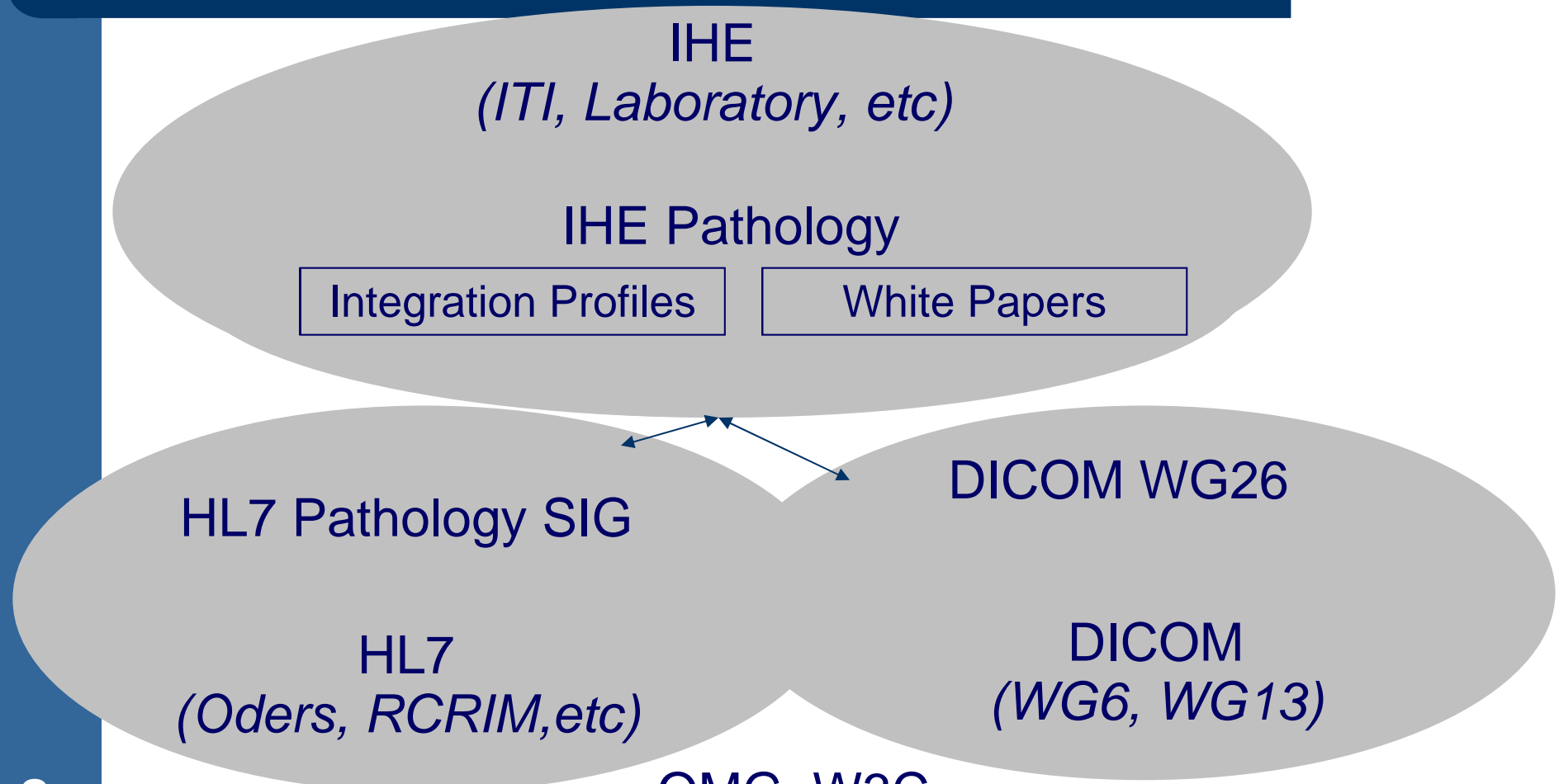
- IHE Europe (launched in September 2005, Paris)
- First Integration Profile : Pathology Workflow (PWF) addressed by the 2007-2008 cycle
 - Establishes the continuity and integrity of basic pathology data
 - Ordering and reporting aspects of the workflow
 - Transactions maintaining the consistency of ordering information, specimen management information and report items.
 - Imaging aspects of the workflow
 - Acquisition, storage and distribution processes of images among multiple systems, enterprises and remote workstations.
- A common specimen identification and description module coherent across standards.

Standard developing organization HL7 & DICOM



- HL7 : Health Level 7
 - Accredited Standards Developing Organization (SDO) operating in the healthcare domain
 - Members : Healthcare experts and information scientists
 - HL7 Pathology Special Interest Group (January 2006)
 - Specimen model, orders and reports aspects of the pathology workflow.
- DICOM : Digital Imaging and COmmunication in Medicine
 - Create standards for integration of electronic healthcare information in medical imaging
 - Network communication protocols between informatic modules in medical imaging
 - DICOM WG26 for pathology (October 2005)
 - Specimen model, Whole slide imaging
9th congress of Telepathology-Toledo -IHE Pathology/COST WG2 meeting

Standards (HL7, DICOM) & IHE



Pathology Technical Framework Users

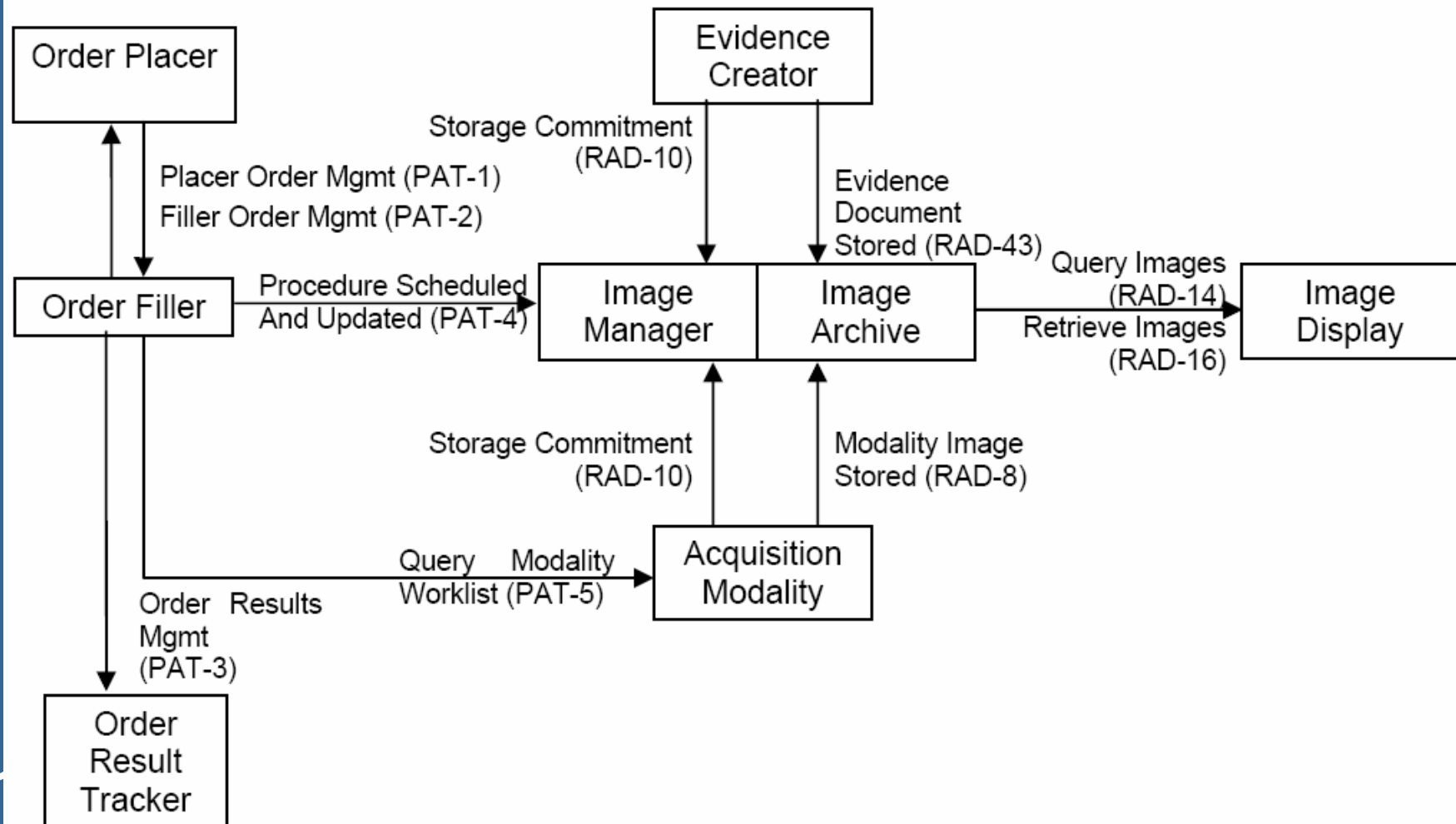
- ADICAP (Association pour le Développement de l'Informatique en Cytologie et Anatomie Pathologique) (France)
- AP-HP, paris (France)
- Charité Universitätsmedizin Berlin (Germany)
- GMSIH (Groupement pour la Modernisation du Système d'Information Hospitalier) (France)
- SEAP (Spanish Society of Pathology) (Spain)
- Servicio de Salud de Castilla-La Mancha (Spain)
- SEIS (Spanish Health Informatics Society) (Spain)
- SFP (French Society of Pathology) (France)

- DICOM and its affiliate organizations (DICOM WG26, DICOM WG6)
- HL7 and its affiliate organizations (HL7 pathology SIG)
- IHE organization in each participating country: IHE-France, IHE-Spain.
- IHE-J (IHE Japan)

Pathology Technical Framework Vendors

- EHR
 - MEDASYS (Gif sur Yvette, France)
- Acquisition modality
 - TRIBVN (Châtillon, France)
- Pathology Information System (PIS)
 - TECHNIDATA (Montbonnot Saint Martin, France)
 - INFOLOGIC (Valence, France)
- PACS
 - GE Healthcare (US)
- ETIAM (Rennes, France)

Integration Profile : Pathology Workflow (PWF) - Actors & Transactions



Integration Profile : Pathology Workflow (PWF) - Actors & Transactions

- 6 actors
 - For order management
 - For image management
 - For report management
- 10 transactions for interaction between actors
- Specimen model in relation to DICOM & HL7

THE FUTURE...

New IHE Governance Model

- IHE International is a non-profit organization
- Board with broad representation from user and vendor organizations
- Committee structures, procedures and voting rules
- Clearly defined sponsorship rules
- Member organizations required to formally apply for membership

IHE International Board

- The IHE International Board is the primary governing committee for all IHE development activities.
- It is composed of representatives from each of the IHE Domains, National and Regional IHE Initiatives, and IHE Sponsor Organizations.
- The membership roster of the Board and many of its working documents are maintained on the IHE Wiki, <http://wiki.ihe.net>.

IHE International

- **Domain Committees**

- These committees develop and maintain the IHE Technical Frameworks addressing interoperability in their respective clinical and operational areas of healthcare.

- **National/Regional Deployment Committees**

- Deployment committees based in a given country or group of countries promote the appropriate use within their respective geographic areas of the specifications defined in the IHE Technical Frameworks.

“Get involved”



The screenshot shows the IHE website homepage. At the top left is the IHE logo with the tagline "changing the way healthcare connects" and the website URL "www.ihe.net". To the right of the logo is a search bar with a "Search" button. Below the logo is a navigation menu with the following items: About, Get Involved (highlighted), Domains, Sponsors, Worldwide, Learn More, Developer Resources, User Resources, Calendar, and Contacts. Under the "Get Involved" menu, a sub-menu is visible with the following items: Committees, Public Comment, Workshops, Demonstrations, Calendar, and Connectathon. Below the navigation menu is a large banner image showing several healthcare professionals in a meeting. Below the banner is the main heading "Welcome to Integrating the Healthcare Enterprise" followed by a paragraph of text. To the right of the main text is a sidebar with the heading "What's New in IHE?" and several news items with links. Below the main text are two columns of links: "Developers of Healthcare IT Systems" and "Users of Healthcare IT Systems".

iHE *changing the way healthcare connects*
www.ihe.net

Search

About **Get Involved** Domains Sponsors Worldwide Learn More Developer Resources User Resources Calendar Contacts

Committees
Public Comment
Workshops
Demonstrations
Calendar
Connectathon

Welcome to Integrating the Healthcare Enterprise

IHE is an initiative by healthcare professionals and industry to improve the way computer systems in healthcare share information. IHE promotes the coordinates use of established standards such as DICOM and HL7 to address specific clinical need in support of optimal patient care. Systems developed in accordance with IHE communicate with one another better, are easier to implement, and enable care providers to use information more effectively.

Learn More:

Developers of Healthcare IT Systems

- IHE Process
- IHE Profiles
- Technical Frameworks
- Getting Involved
- Connectathon

Users of Healthcare IT Systems

- IHE Process
- IHE Profiles
- Integration Statements
- User Handbooks
- Presentations

What's New in IHE?

[Call for Participation: IHE Australia Connectathon 2008 >>](#)

[North American Connectathon Tests 70 Vendors' Systems >>](#)

[Interoperability Showcase Brings Reality to Health Information Exchange >>](#)

[IHE International Welcomes 93 Member Organizations >>](#)

[IHE Adopts Enhanced Governance Model >>](#)

[More news...](#)

How to Participate

- Mailing list
 - ihe-pathology@listes.univ-rennes1.fr
 - (ihe-f-anapath@listes.univ-rennes1.fr (IHE-pathology France))
- IHE : www.ihe.net
 - Collaborative work : <http://wiki.ihe.net>
<http://wiki.ihe.net/index.php?title=Pathology>
 - Pathology TF :
http://www.gmsih.fr/fre/ihe/documents_de_referen
[ce/cadre_technique_pathologie](http://www.gmsih.fr/fre/ihe/documents_de_referen)

How to Participate

- As domain representative for the international board
 - Dr Marcial GARCIA & Dr Thomas SCHRADER
- As a Planning/Technical Committee Member
 - **Formally apply for Organization membership**
- As an Interested Observer
 - Provide Public Comments and/or Change Proposals on Technical Framework Supplements
 - Attend Demonstrations, Educational Events and Workshops

IHE Member Organization

The screenshot shows the Microsoft Internet Explorer browser displaying the IHE Member Organizations page. The browser's address bar shows the URL: http://www.ihe.net/governance/member_organizations.cfm. The page features the IHE logo with the tagline "changing the way healthcare connects" and the website URL "www.ihe.net". A navigation menu includes links for "About", "Get Involved", "Domains", "Sponsors", "Worldwide", "Learn More", "Developer Resources", "User Resources", "Calendar", and "Contacts".

The main content area is titled "IHE Member Organizations" and is divided into three columns of member organizations:

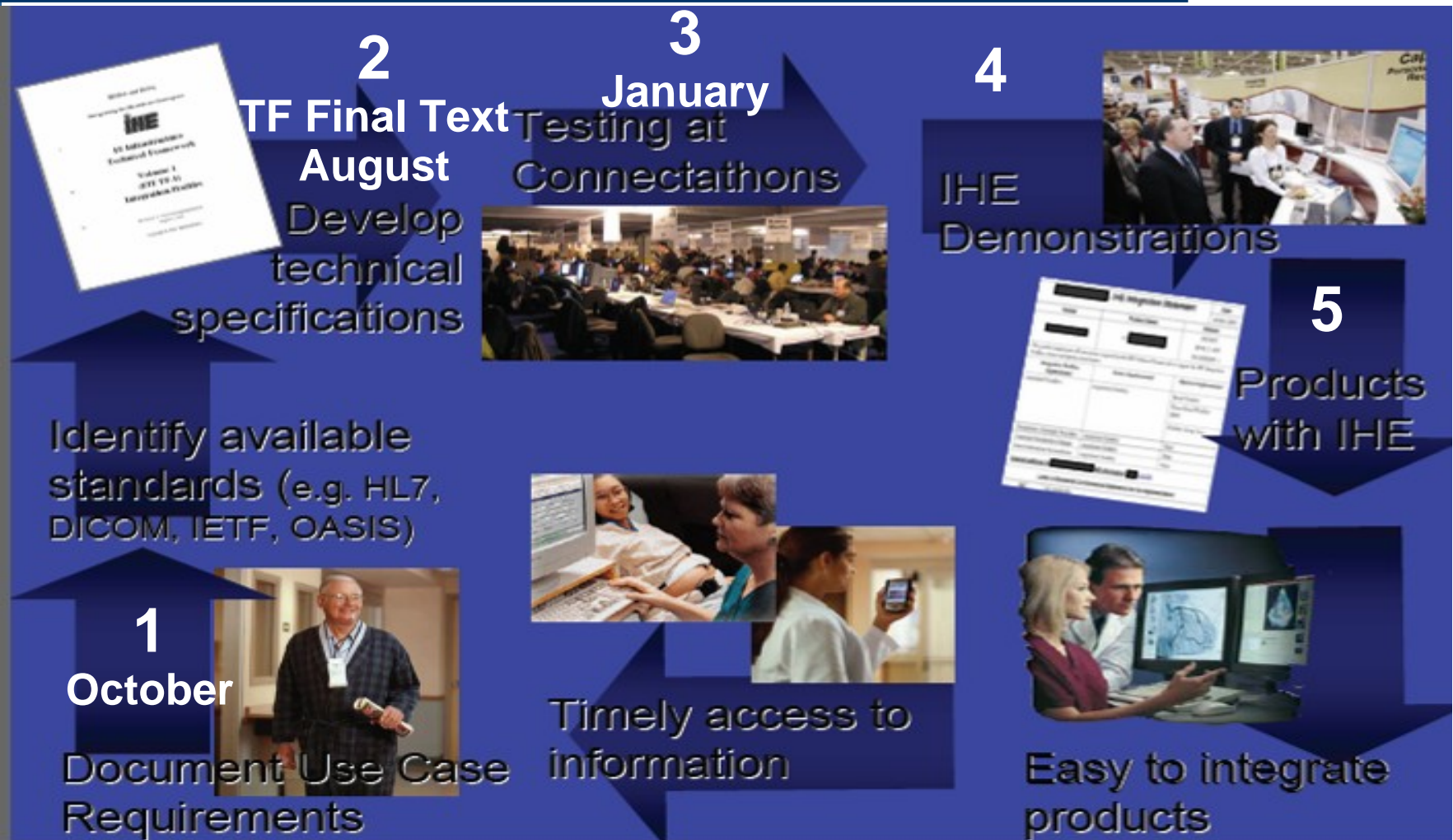
- Healthcare Professional Associations:**
 - American Academy of Ophthalmology (AAO)
 - American Academy of Physician Assistants
 - American Association of Physicians in Medicine (AAPM)
 - American College of Cardiology (ACC)
 - American College of Clinical Engineering (ACCE)
 - American College of Obstetricians and Gynecologists (ACOG)
 - American College of Physicians (ACP)
 - American Society for Therapeutic Radiology and Oncology (ASTRO)
 - American Society of Cataract and Refractive Surgery
 - Association for Healthcare Documentation Integrity (AHDJ)
 - Association of Medical & Bio-Informatics Singapore (AMBIS)
 - Association pour le Développement de l'Informatique en Cytologie et Anatomie
- Healthcare Provider Organizations:**
 - CETIR Grup Mèdic AIE
 - Diagnostic Maxillofacial Imaging University Associates (DMFIUA)
 - Intermountain Healthcare, Inc.
 - Montefiore Medical Center
 - Saint Vincent Health Center
 - Syndicat Interhospitalier de Bretagne (SIB)
 - University Health Network
 - Washington National Eye Center
- Healthcare Education and Research Organizations:**
 - Collaborative Centre for eHealth
 - CPM Resource Center
 - Florida Cancer Data System
 - Louisiana Tumor Registry
 - Mallinckrodt Institute of Radiology, Washington

On the right side of the page, there is a "What's New in IHE?" section with several news items and links, such as "Call for Participation: IHE Australia Connectathon 2008 >>", "IHE Adopts Enhanced Governance Model >>", "IHE International Welcomes 93 Member Organizations >>", "Interoperability Showcase Brings Reality to Health Information Exchange >>", "North American Connectathon Tests 70 Vendors' Systems >>", and "More news...".

How to Use IHE

- As a Vendor Implementer
 - Implement IHE Integration Profiles
 - Test systems through Connectathon process
 - Publish an IHE Integration Statement for products
- As a User Implementer or Consultant
 - Use IHE Integration Profiles to develop interoperability strategy
 - Use Connectathon Results and Integration Statements to evaluate vendors
 - Demand IHE Integration Profile compliance in RFPs

The IHE Adoption Process



COST IC604 : Anatomic Telepathology Network (EURO-TELEPATH)

- **WG2 – Informatics Standards in Pathology :**
Collaboration with standardisation bodies & initiatives
 - IHE Pathology
 - DICOM WG26
 - HL7 Pathology SIG
 - Jpeg2000
 - IHTSDO (SNOMED)
 - CEN (MG)
- **Support of COST :** attend DICOM WG6, WG26, IHE Pathology and HL7 Pathology SIG Meetings

COST IC604 : Anatomic Telepathology Network (EURO-TELEPATH)

- **WG1 – Pathology Business Modelling**
 - Global vision of the business processes
 - Identification of the key business processes
- **WG2 – Informatics Standards in Pathology**
 - **IHE Planning committee**
 - “Business-driven” IHE integration profiles and white papers
 - DICOM, HL7 road maps

2008-10 - Time line

Timef rame	Activity	Scheduled		Comments
2008				
Sep	Submit Brief Profile Proposals to Planning Committee (PC)		wiki-email	
Oct	PC Selects "Short List" of Profiles	Oct. 2-3	Evora, Portugal	COST MC, WG 1234
Oct	Short listed Profile Proposal Authors to submit Detailed Proposals to PC		wiki--mail	
Oct	PC Finalizes scope of profiles for Technical Committee (TC)		Tcon	
Nov.	TC Evaluates "Short List" of Profiles	Nov. 5-6	Warsaw, Poland	COST workshop - WG3
Nov.	TC Reports back to PC on "Short List"		Tcon	
Dec.	PC & TC Discision for 2009 work		Tcon	

2008-10 - Time line

2009				
Jan.	PC review of scope of White Papers	January 11 - 16, 2009	Orlando, FL	HL7 Working Group Meeting
Feb.	Profile development kickoff meeting (TC Meeting)			
Mar.	Profile development meeting: finalize supplements for Public Comment (TC)	March 12 and 13, 2009	Paris	COST MC, WG 1234
Jun.	Prepare Profiles for Trial Implementation (TC Meeting)	June 2009		
Jul.	Publication of Trial Implementation Supplements	July 21-25	www.ihe.net	
Aug.	Publication of Final Text Technical Framework (if appropriate)	Aug. 15	www.ihe.net	
2010				
Jan.	Test implementations at Connectathon		Chicago	
Apr.	Test implementations at Connectathon		Europe	

IHE Planning Committee

Road map for Patient Care – 2009-10

- **Enhanced imaging & post-processing workflow IP**
 - Statuses management, etc
 - Editor : Thomas Schrader
- **Contribution (**use case**) to Sharing Value Sets IP(ITI)**
 - Using standard terminologies to code reports and image contents in anatomic pathology
 - Editor : Vincenzo Dellamea
- **Enhances reporting workflow IP & structured reports white paper**
 - Editor : Thomas Schrader & Christel Daniel

IHE Planning Committee

Road map for Patient Care (>2010)

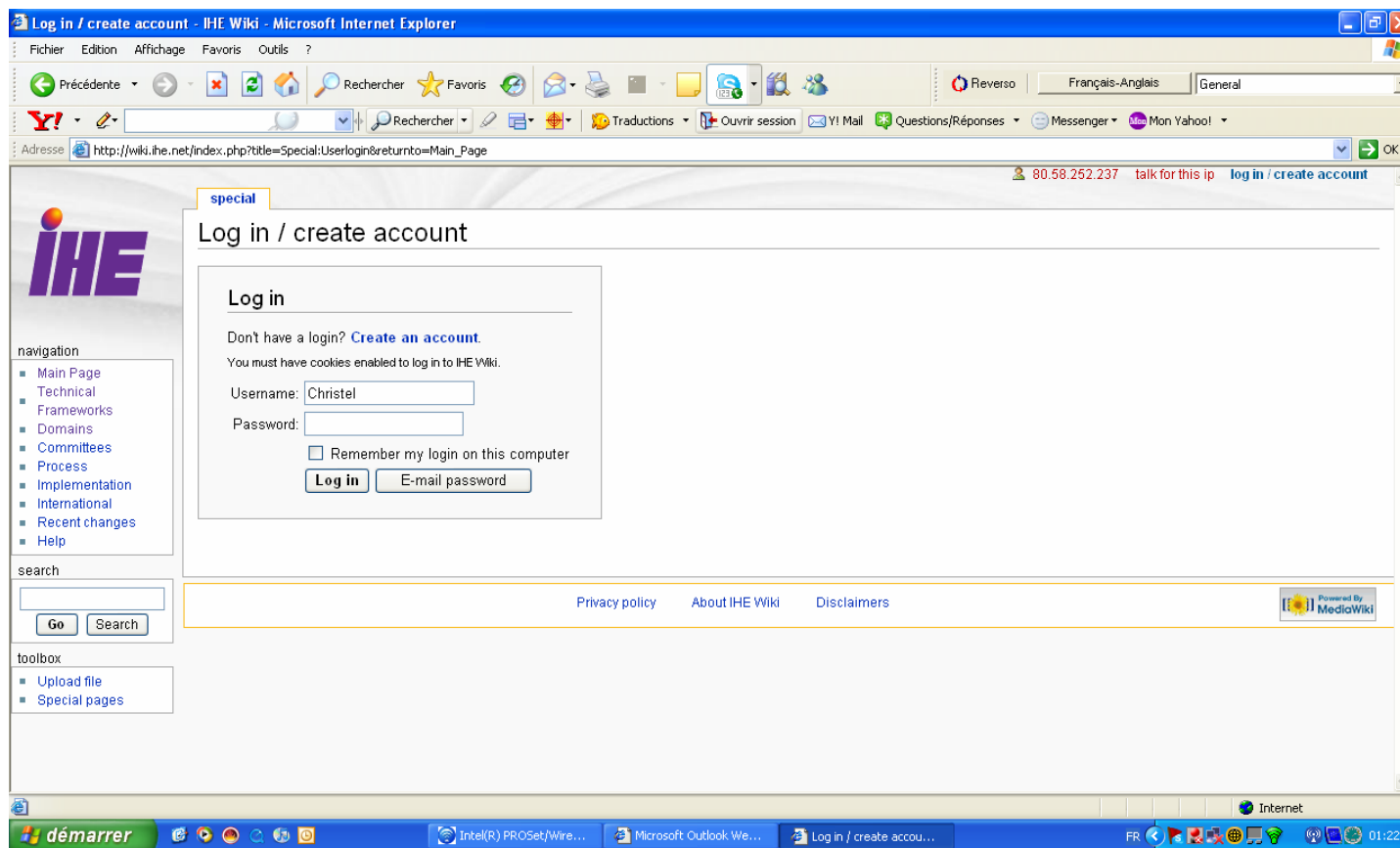
- **Integrating automatons IP** (with LAB)
 - Contributor : John Gilbertson
- **Inter-departments workflow IP** (with LAB)
 - Relationships between Pathology departments
 - Relationships between pathology/radiology/endoscopy
 - Contributor : Jacques Klossa
- **Cross enterprise documents/images sharing (XDS, XDS-I)(ITI)**
- **Telepathology (2 Business Processes)**

IHE Planning Committee

Road map for Research (>2010)

- Integrating PIS to tissue banks or Tissue Micro Arrayers (with LAB)
 - Contributor John Gilbertson
- Sharing anatomic pathology data for clinical research (with PCC)
 - Contributor : Thomas Schrader, John Gilbertson

IHE wiki : Collaborative workspace



More Resources

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- IHE : www.ihe.net
 - Collaborative work : <http://wiki.ihe.net>
<http://wiki.ihe.net/index.php?title=Pathology>
 - Pathology TF :
http://www.gmsih.fr/fre/ihe/documents_de_reference/cadre_technique_pathologie
- HL7 organization : Health Level 7, <http://www.hl7.org>
- DICOM 3 Standard, NEMA and Global Engineering Group
 - <http://www.nema.org>
 - <http://www.dclunie.com/>

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