Integrating the Healthcare Enterprise

IHE Pathology
Planning & Technical Committee meeting

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Saturday May 17th, 2008

Toledo, Spain

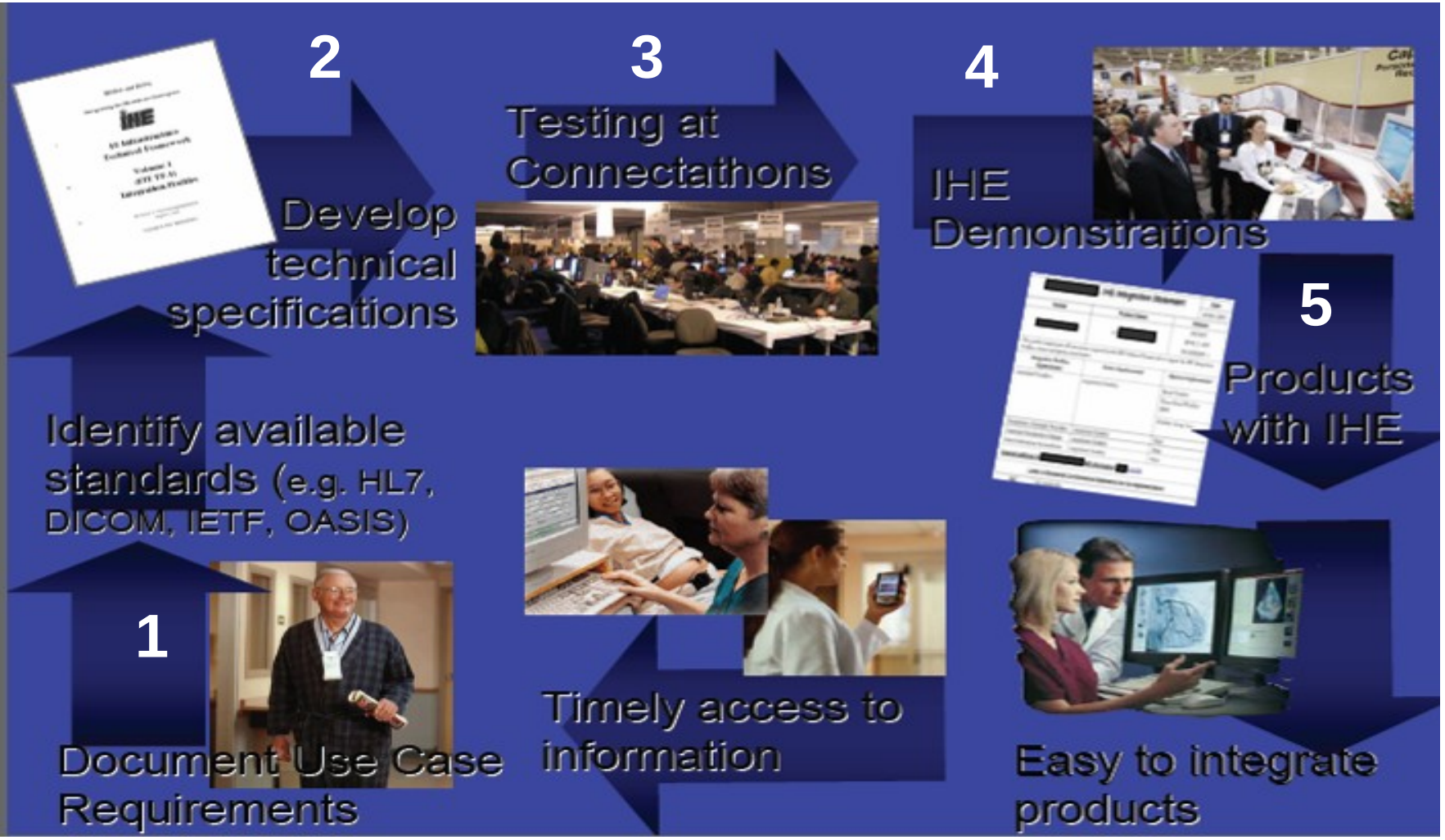
Agenda

- 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

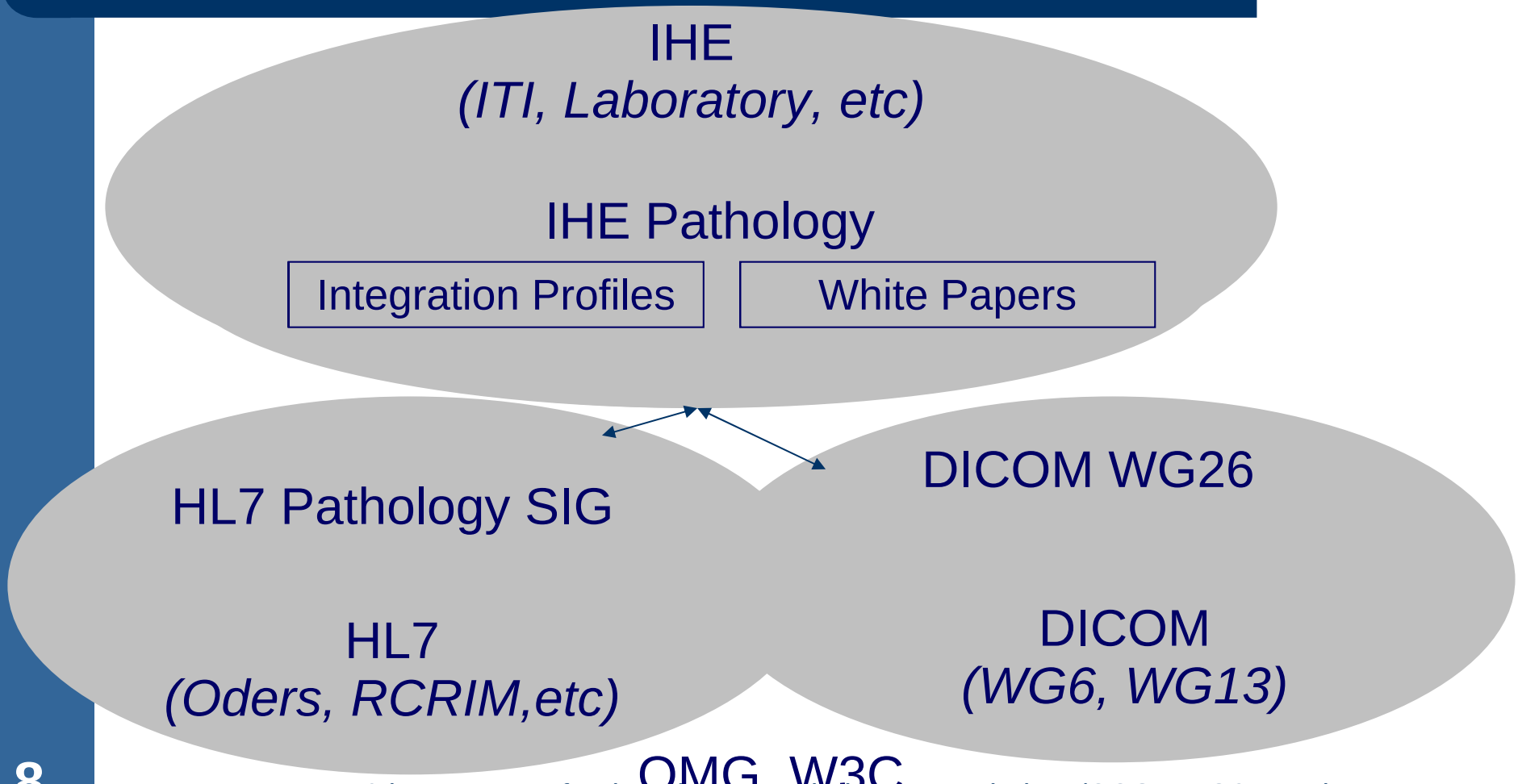
IHE Pathology process …THE PAST : Pathology Technical Framework

- 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

Standards (HL7, DICOM) & IHE



Pathology Technical Framework Users

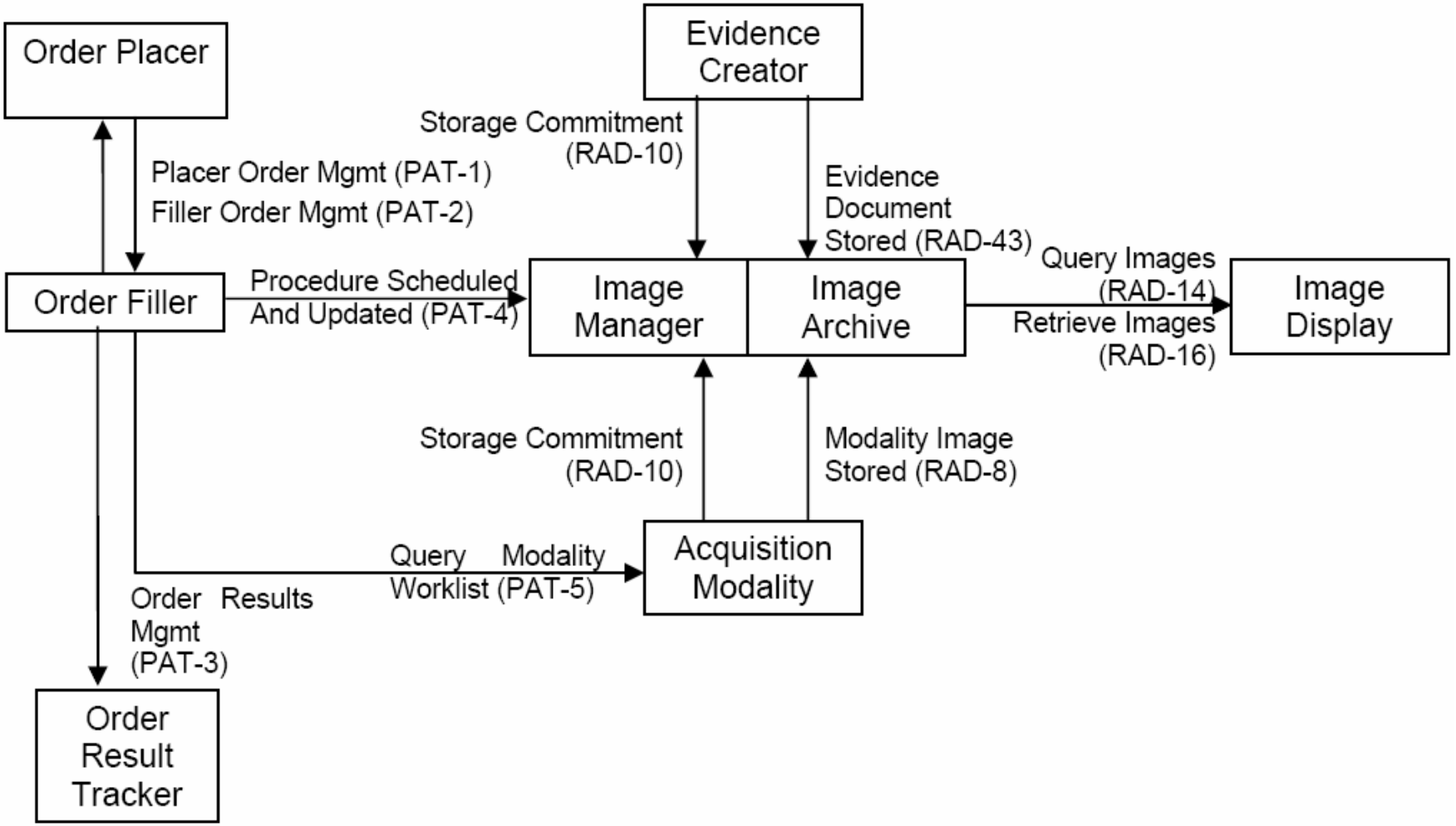
- ADICAP (Association pour le Développement de l'Informatique en Cytologie et Anatomie Pathologique) (France)
- AP-HP, paris (France)
- Charité Universitätsmedizin Berlin (Germany)
- GMSIH (Groupement pour la Modernisation du Système d'Information Hospitalier) (France)
- SEAP (Spanish Society of Pathology) (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”

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_reference/cadre_technique_pathologie

How to Participate

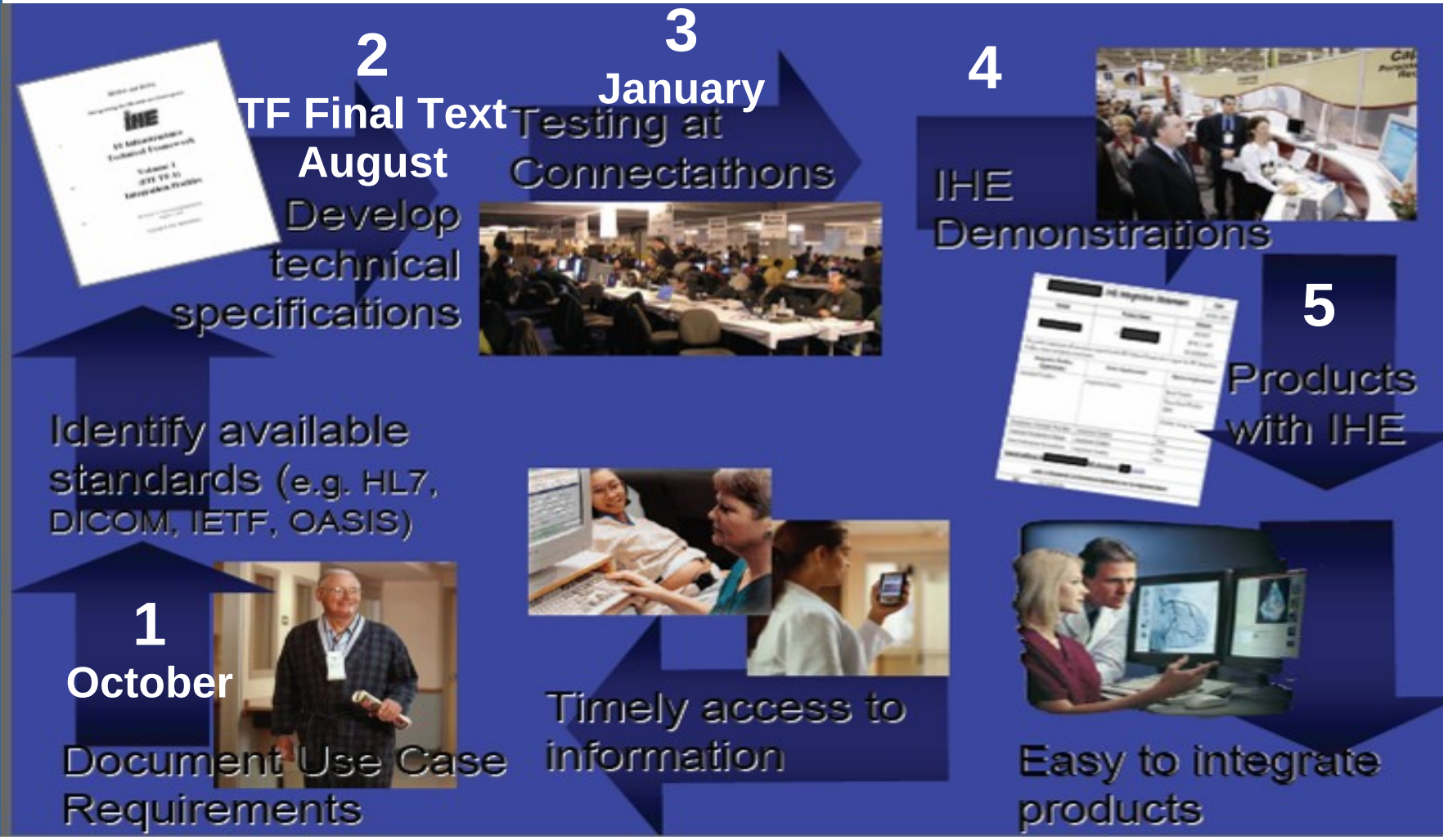
- As domain representative for the international board
  - Dr Marcial GARCIA & Dr Thomas SCHRADER
- As a Planning/Technical Committee Member
  - **Formally apply for Organization membership**
- As an Interested Observer
  - Provide Public Comments and/or Change Proposals on Technical Framework Supplements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

IHE Member Organization

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**
  - **<u>IHE Planning committee</u>**
    - “Business-driven” IHE integration profiles and white papers
  - DICOM, HL7 road maps

2008-10 - Time line

Timeframe	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

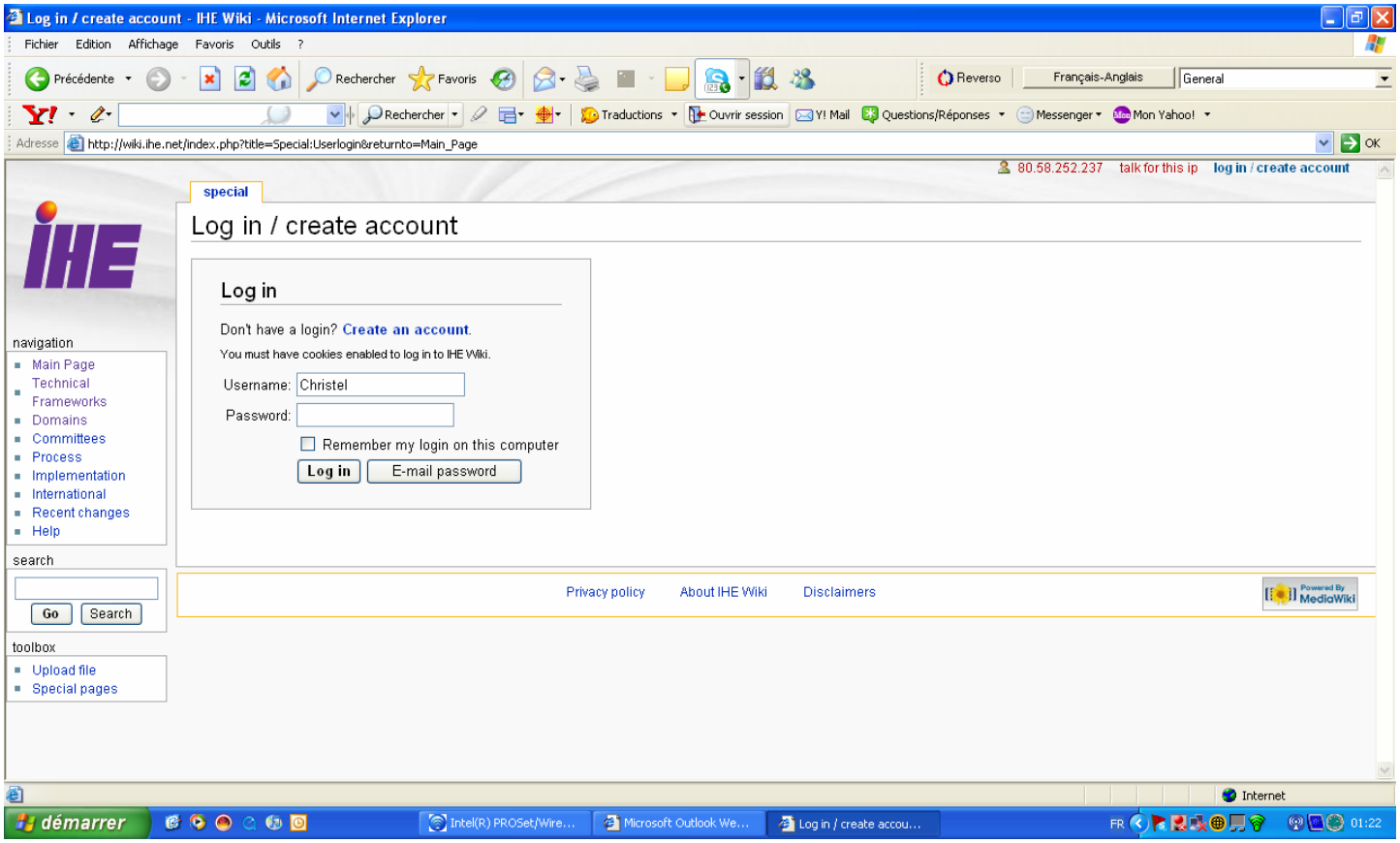
IHE Planning Committee
Road map for Patient Care (>2010)

- **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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  - 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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