



# The Clinical Laboratory Domain of IHE Assets and work plan

IHE webinar July 20th, 2010

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# Agenda

- The actors of IHE LAB
- Overview of LAB Technical Framework
- 2010-2011 Work plan

# The actors of IHE LAB

LAB domain launched in 2003, supported from start by:

- JAHIS and IHE-J (Japan)
- French Society of Laboratory Informatics (SFIL)

In 2010: New strengths join in

- The College of American Pathologists (CAP) → Takes on the Secretariat
- IVD Industry Connectivity Consortium (IICG) → Joins the Technical committee

Contributing countries on the road:

- Japan – face to face in 2004, 2006, 2007 (Tokyo), 2009 (Kyoto)
- France – face to face in 2004, 2007, 2008 (Paris)
- Italy – face to face in 2003 (Perugia), 2005 (Palermo)
- UK – face to face in 2003 (London), 2006 (Banbury)
- US – face to face in 2003 (Memphis), 2008 (New York), (Chicago)
- The Netherlands, Germany, Belgium

Fall 2010

# The actors of IHE LAB

## Current representatives of IHE LAB:

- Secretary: **Mary Kennedy** (CAP, US)
- Planning Committee cochairs: **Osamu Yamada** (JP), **François Macary** (FR)
- Technical Committee cochairs: **Sondra Renly** (US), **Yoshimi Hirasawa** (JP)

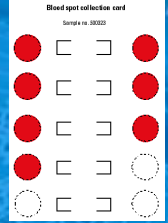
Mailing list: <http://groups.google.com/group/ihe-laboratory-committee>

## Wiki pages:

- <http://wiki.ihe.net/index.php?title=Laboratory>
- [http://wiki.ihe.net/index.php?title=Laboratory#IHE\\_Laboratory\\_Committees](http://wiki.ihe.net/index.php?title=Laboratory#IHE_Laboratory_Committees)

# Overview of LAB TF: Domain Scope

In vitro Diagnostic Testing



Ordering, performing, reporting laboratory tests (**HL7 v2.x messages**)

- performed in lab as well as on the point of care
- all lab specialties excluding anatomic pathology
- including lab to lab workflow (subcontracting)

Sharing laboratory reports as electronic documents (**HL7 v3 CDA**)

- From both clinical labs and public health labs
- for a patient and/or a non-human subject
- The lab reports is required to embed machine-readable data (level 3 of CDA)

# Systems involved in LAB TF

Electronic Health Care Records (**EHR**) in care settings & ambulatory

Clinical lab and public health lab information systems (**LIS**)

Shared Patient Record infrastructures (**PHR**, RHIO ...)

Laboratory devices and point of care testing devices:  
[**IVD analyzers, robotic transport systems, diluters, ...**]

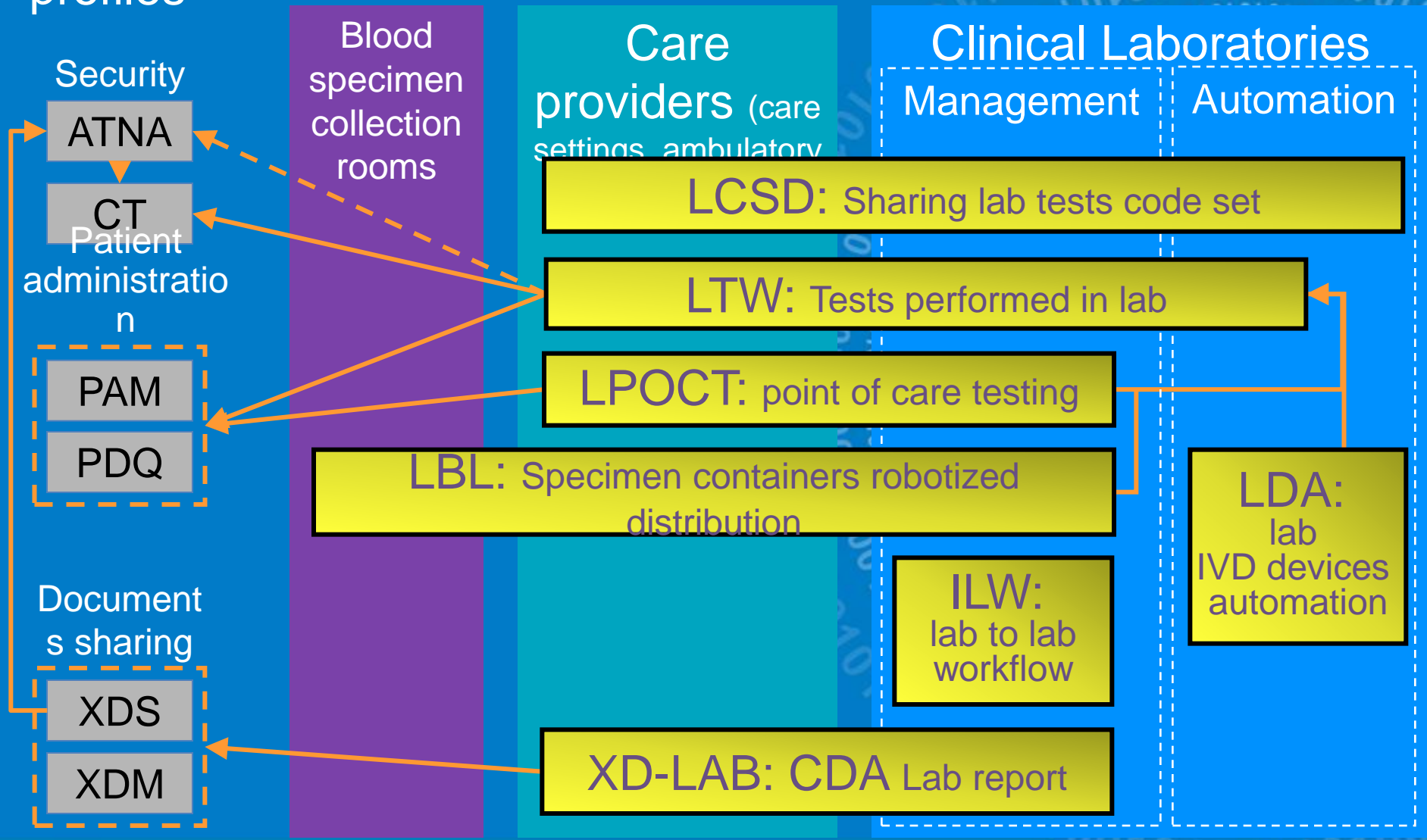
Laboratory automation systems (**LAS**)  
[**middleware between LIS and lab devices**]

Point of care data managers (**POCDM**)  
[**middleware between LIS and point of care devices**]

Robotic specimen container distributors and barcode labelers

# ITI profiles

# Laboratory profiles



LAB profiles and their dependencies



# 2010 – 2011 work plan

## Build new profile “Enhanced Laboratory Device Automation” (ELDA)

- Driving forces: Former editors of LDA (Japan), IICC members
- Based on HL7 v2.x messages
- Post Change Requests to HL7 Orders & Observations workgroup → HL7 v2.8

## Maintenance of the LAB Technical Framework

- Integration of pending Change Proposals (XD-LAB, LCSD, ...)
- Publish LAB TF version 3.0

## Check & act on deployment status

- Connectathons around the world
- Tooling
- Education & promotion

Preliminary study & choices by IICC

Approval of future profile by IHE LAB committees

Initial draft built from LDA (vols 1 & 2)

Edit the draft + Prepare all open issues & decisions for ftf meeting

Chicago face to face - Resolve issues - Decide - Refine draft

Team: - Refine draft - Follow up HL7 CR

face to face (Europe or Japan) - internal approval

Collect and resolve comments

2009  
2010

May  
27,  
2010

June  
30,  
2010

[July –  
Sept] 2010

[Sept  
30 –  
Oct 2]

[Oct– May]

May  
2011

June  
2011

Post  
Change  
Requests to  
HL7 OO  
WG

ELDA  
Public  
Comment  
version

07/11  
Trial  
Impl.  
version

# ELDA project timeline



# Work items for Chicago face to face [Sept 30 – Oct 2]

**3 days = 12  
quarters**

Organization of LAB domain  
(2 quarters)

Maintenance of LAB TF  
(2 quarters)

ELDA Project  
(8 quarters)

# Work items for Chicago face to face [Sept 30 – Oct 2]

## Maintenance of LAB Technical Framework (2 quarters):

- Status of connectathons LAB testing and real deployment
  - Reporting by countries (Japan, Europe, US, ...) (1 quarter)
- Issue Release 3.0
  - Pre-process (before meeting) → Sondra with help of François
    - Vol 1, 2 & 3: Integrate pending CPs
  - Process: Review of integrated CPs, approval of the release (1 quarter)
  - Post-process: Publish on [www.ihe.net](http://www.ihe.net) → Sondra with help of Chris

# Work items for Chicago face to face [Sept 30 – Oct 2]

## ELDA project (8 quarters)

- Pre-process: → Eric + other IICC members + Yoshimi + JAHIS members ...
  - Edit supplement,
  - Document open issues, decisions made, pending decisions
  - Prepare Change Requests for HL7 v2.8
- Process:
  - Resolve issues, make decisions, refine draft (7 quarters)
  - Refine planning from that point to the Public Comment version (1 quarter)
- Post-process:
  - Post CR to HL7 OO WG → Andrzej + François?

# Work items for Chicago face to face [Sept 30 – Oct 2]

## Organization of the LAB domain (2 quarters)

- Check roles to be played within IHE international
- Secure liaison with HL7 WG
- Update status of LAB wiki pages
- Inventory of promotion & education efforts
- Plan future face to face meetings

# Questions

See also:

<http://wiki.ihe.net/index.php?title=Laboratory>

<http://www.ihe.net>

<http://groups.google.com/group/ihe-laboratory-committee>

