An Introduction to Laboratory Management Solution (LMS)







MOBIGATOR
TECHNOLOGY GROUP

Presentation Overview

- 1. Project Background
- 2. Solution Design
- 3. Current Status and future plan







Background

- Estimated 40+ are active legal medical laboratories, servicing private clinics, hospitals and other medical institutions.
- Most medical laboratories employ some level of technology (e.g. LIS) for test management, but no common data standards for laboratory results or protocols for information sharing.
- Technology knowhow and support by IT vendors are limited.
- Laboratories are cautious about eHR, due to uncertainty on cost, support and risk in business interruption.





Objectives

- 1. Raise the awareness and support of the coming changes brought forward by healthcare reform and eHR sharing
- 2. Create a common and open source platform for the industry to support electronic info exchange
- 3. Provide standardized laboratory data to medical clinics to support standardized and integrated eHR
- 4. Provide a foundation which paves way for the territory-wide eHR sharing and healthcare service delivery infrastructure





Participating Parties

- HKAML Industry Body and Project Manager
- Mobigator Technology Developer
- eHR Office Sponsor
- Private Labs/Hospital Labs Users
- Clinics Users





HKAML & Mobigator

- HKAML (<u>www.hkaml.org</u>) is the industry body for private laboratories:
 - A non-profit organization representing the entire industry;
 - Members include 34 private laboratories, 12 hospital laboratories and all major suppliers of laboratory products.
- Mobigator (www.mobigator.com) is one of the strongest healthcare technology providers with domain knowledge, technical expertise and project experience in working with the healthcare service providers, the Hospital Authority and Department of Health.





Deliverables

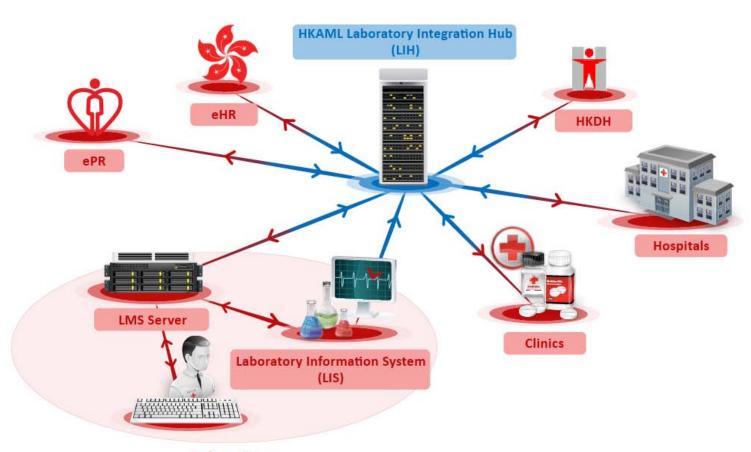
- Technology Development:
 - Create a common gateway and hub (LIH) for the industry to facilitate future integration with eHR
 - Create an open-source module (LMS) for interfacing between the LIH and local LIS. It will convert various proprietary results to eHR's common data standards
- Professional Training & Technical Support
 - Provide Professional Training to 400 laboratory professionals (MLT, etc.)
 - Provide hands-on technical training and support to facilitate 18 private laboratories and 6 hospital laboratories to integrate with LIH
- End-to-end Clinic-Laboratory Integration
 - Integrate with clinics, via CMS, for electronic test ordering and result delivery for 10 private laboratories, 4 hospital laboratories, and 60 clinics using CMS.







Architecture



Laboratory







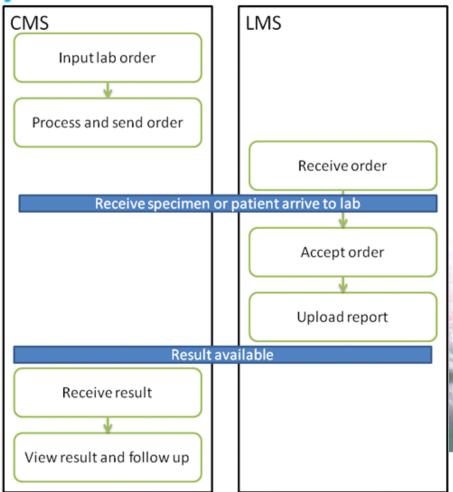
Laboratory Integration Hub (LIH)

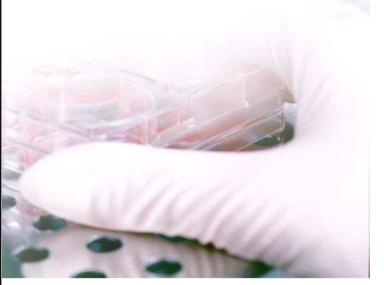
- An integration hub for the medical laboratory industry to interfacing with other healthcare service stakeholders, including the HA, DH and eHR.
- A secured and central platform for information exchange and sharing.





Lab Order Workflow



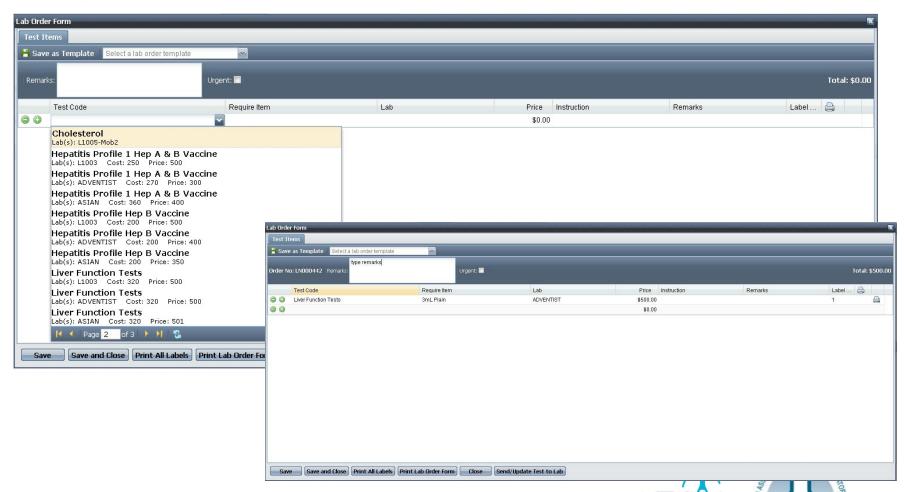




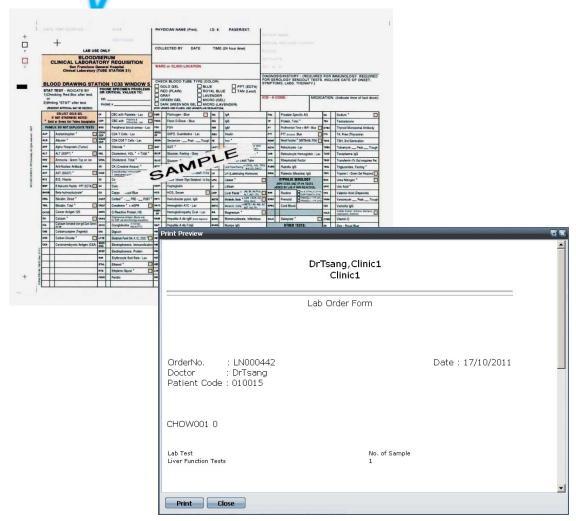


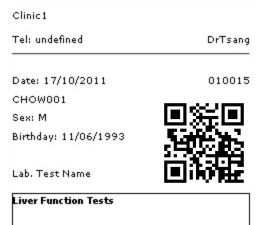


Lab Ordering within CMS



Lab Ordering



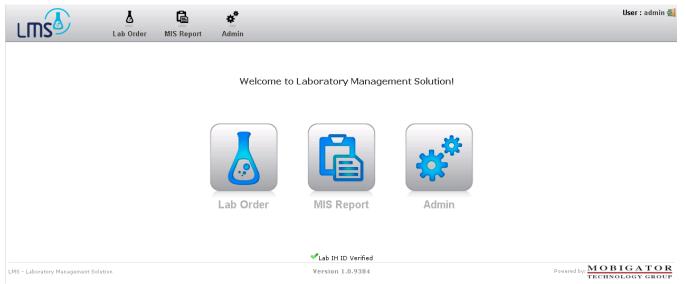






Lab Management Module

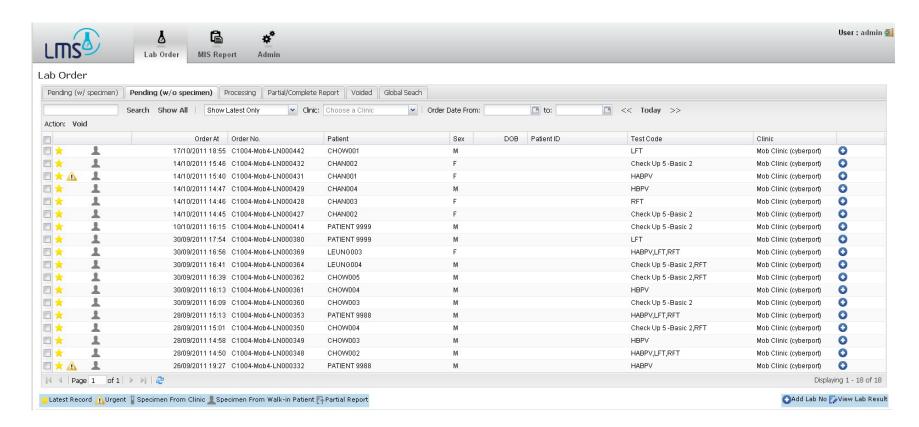
- Receive lab orders and upload result
- MIS reporting
- Lab test management (manage lab tests, and templates)















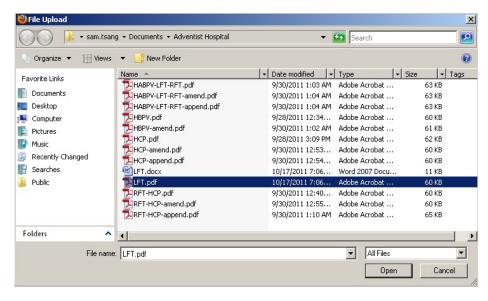


Basic Information	Patient Information Details			
Patient Informatio	n			
Patient:	CHOW001	DOB:	17/10/2011	
Patient Chinese Nami	е:	Sex:	М	
Identity Document:	Passport			
Patient ID:	124egrfyher			
Lab Order				
Order No.:	C1004-Mob4-LN000442	Lab No.:		
Urgent:		Order Status:	Waiting Specimen	
Routine:		Clinic:	Mob Clinic (cyberport)	
Specimen From Clinic				
Lab Order Details				
Test Code:	LFT			
Test Name:	Liver Function Tests			
Remarks:	type remarks			







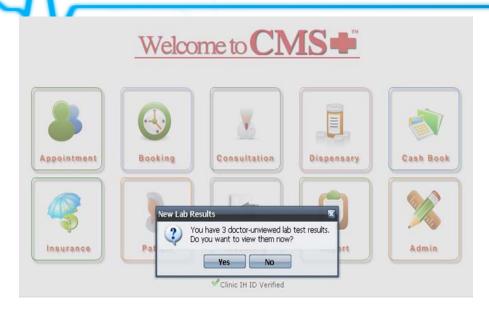


	Lab No.	-	Lab No. Issued At	Change Remarks	Active	Uploaded At	Version	Sent At
*	labno-000442		17/10/2011 18:58:39		✓	17/10/2011 19:07:43	1	-
14 4 1	Page 1 of 1 🕨 🖟							Displaying 1 - 1 of 1





CMS Lab Result Review



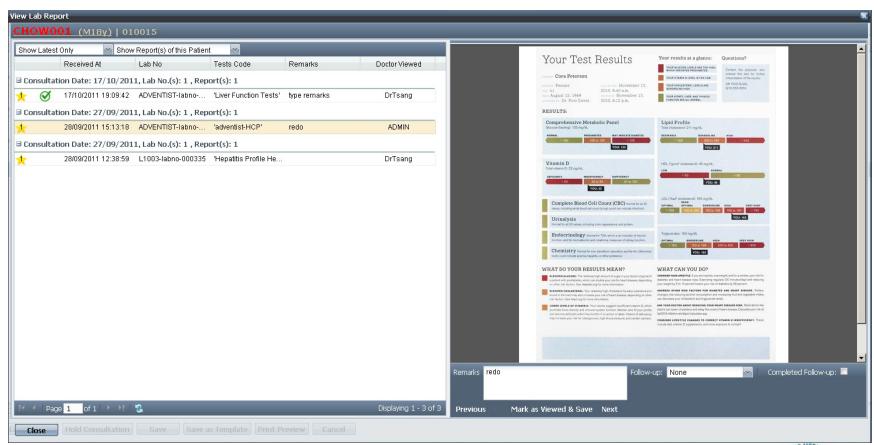








CMS Lab Result Review









Benefits for the Laboratories and Clinics

- More Accurate No/Less Human Error due to Copying/Interpreting.
- More Timely Instant Results Update.
- Higher Accessibility Multi Copies/Destinations Possible.
- More Secured Authentication and Password Control.
- Higher Productivity Computerization/Automation, Alert, Template...
- Save Space & Money Less Space to Keep Record.







Benefits with eHR

- Improve the support and readiness of the private medical laboratory industry for integration with eHR.
- Establish a data standard and open technology platform for exchanging and sharing laboratory results.
- Facilitate eHR integration of private medical laboratory data.
- Enable better patient care via seamless healthcare information delivery



Current Progress

- Started in Feb/2011
- Completed pilot testing in Sept/2011.
- Starting the first phase rollout to 60 doctors, 18 laboratories.
- Target to complete in Jun/2012.
- Results are transmitted as PDF.
- Next phase will standardize the data and result.





____Contact Information

The Hong Kong Association of Medical Laboratories

http://lms.hkaml.org

LMS Project Steering Committee:

Ms. Marianne Leung (mleung@pathlabhk.com)

Ms. Vicky Chu (vchk01@netvigator.com)

Ir. Clifford Tse (clifford.tse@mobigator.com)

Mobigator Technology Group

Tel: +852.2524.9000

Fax: +852.2524.9050

http://www.mobigator.com

info@mbigator.com





Thank You