



# Histopathology QA Programme

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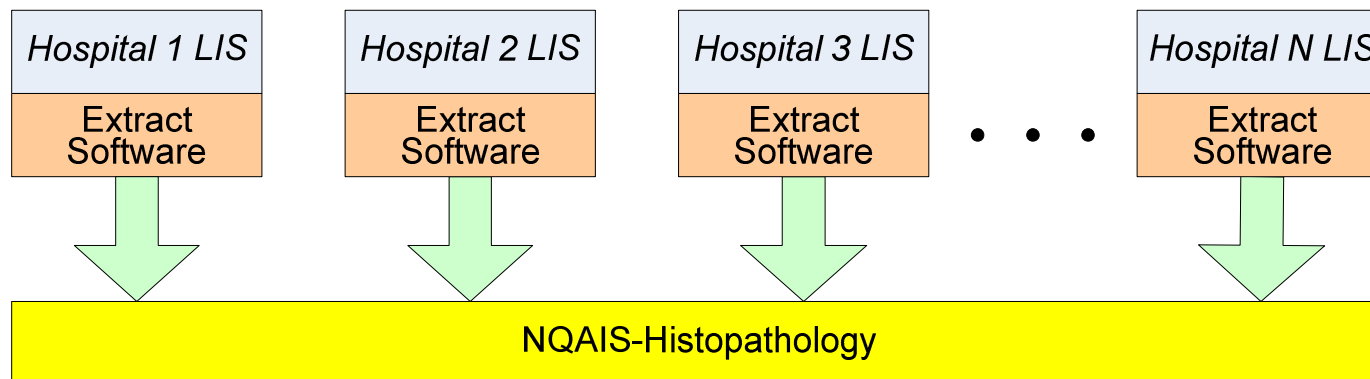
Brian Dunne  
HSE ICT Update  
25-Oct-2011



# Overview

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- Implementation Steps
- Status and Plans
- Information Model and Flowchart
- NQAIS Screenshots
- Data Cohorts and Sample KQI Calculations
- NQAIS Report
- Comments & Questions



# ICT Project Implementation Steps

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## 1. Information Exchange

- Documentation, Mapping tables, User list

## 2. NQAIS Histopathology Setup

- Security, Configuration, Encryption tool

## 3. Extract and Encrypt QA Data

## 4. Upload and Analyse QA Data

## 5. Approve Live Data and the HQA ICT System

### Task level detail



# ICT Project Status

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- NQAIS-Histopathology Live
  - Change Requests implemented
  - User management & drill-down outstanding
- Phased roll out
- Phase 1 & 2 – Pilot sites
  - St. Vincent's University Hospital      Step 5
  - Mater Private Hospital      Step 5
  - St. James Hospital      Step 4
  - Galway University Hospital      Step 3
  - Letterkenny General Hospital      Step 3
- Phase 3 commenced



# ICT Project Plans

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## ○ Phase 1 & 2

- SVUH, MPH – Complete Oct 2011
- SJH, LGH, UCHG – Complete Nov 2011

## ○ Phase 3 – Oct 2011 to Feb 2012

- iSoft APEX sites (9)
- Clinisys Winpath sites (8)
- iSoft Telepath sites (3)




## ○ Phase 4 – Jan 2012 to Apr 2012

- Coombe Hospital  
Beacon Hospital  
Galway Clinic  
Blackrock Clinic  
Bon Secours, Cork
- Midlands Regional Hospital  
Sligo General Hospital  
Cavan/Monaghan Hospital Group



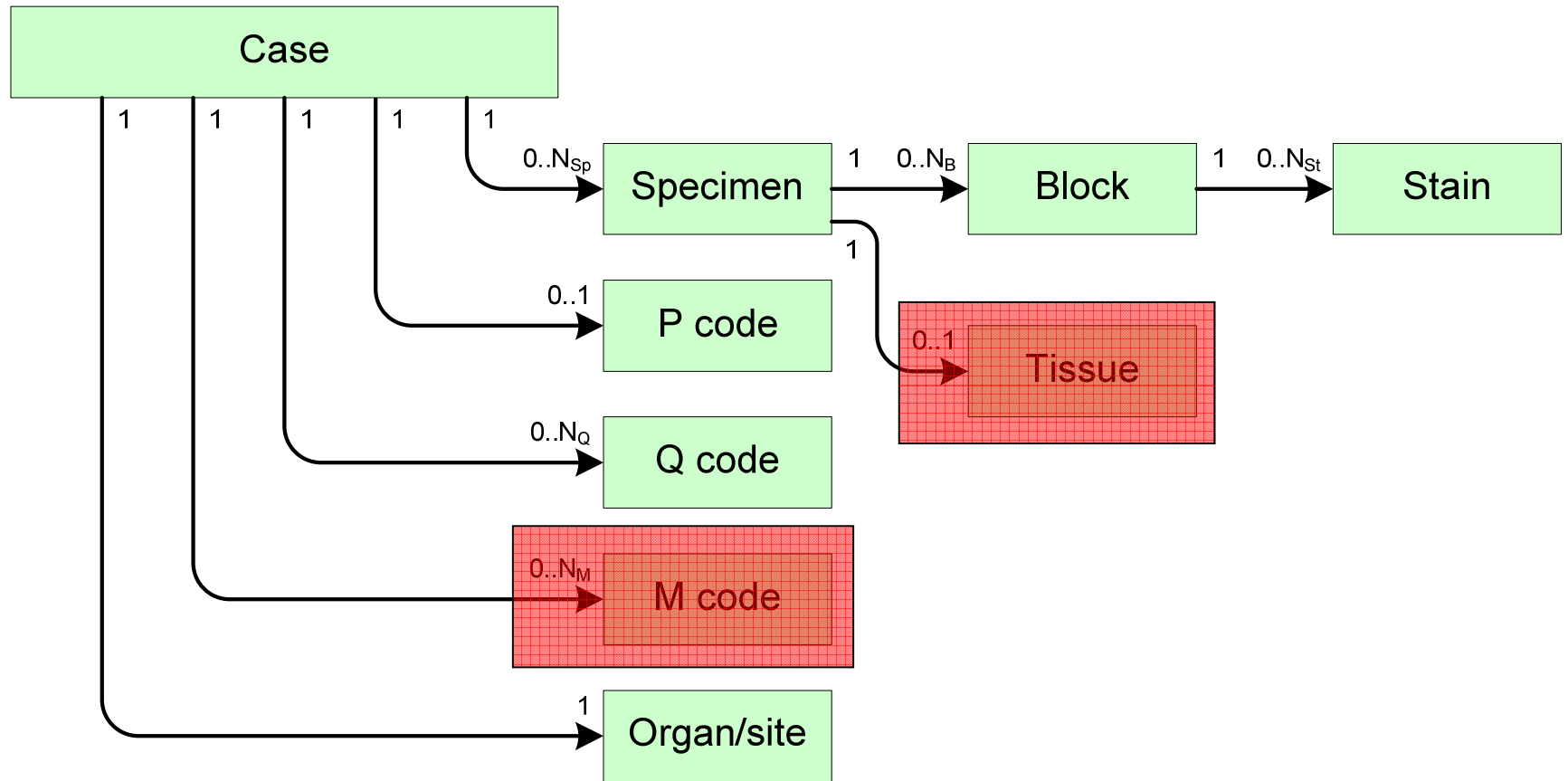
# Information Model - Fields

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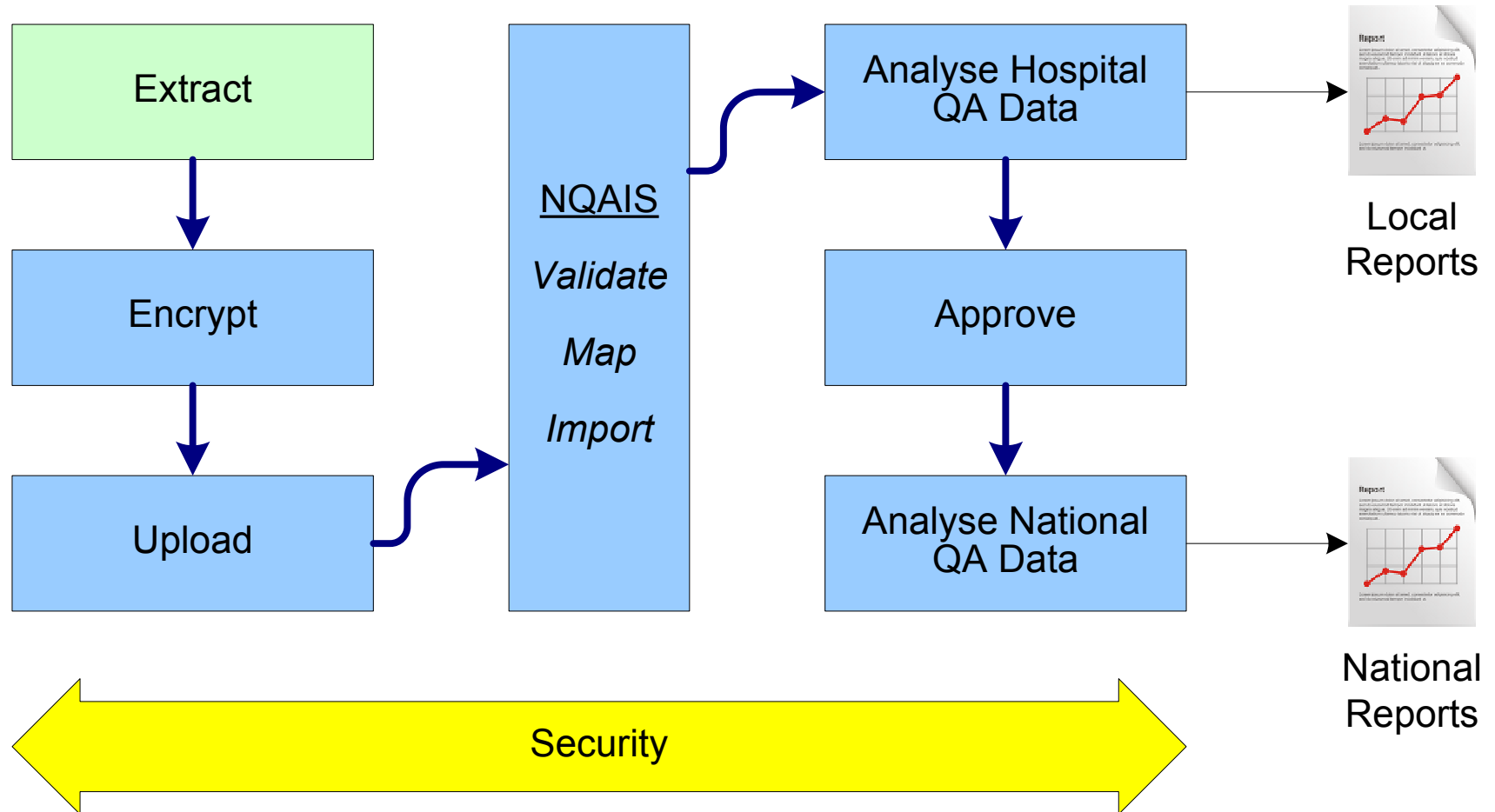
- Hospital Patient Identifier 
- National Patient Identifier 
- Patient Sex
- Case ID
- Case Age
- Case Received Date/Time
- Reporting Pathologist ID 
- Case Report Authorised Date/Time
- Case Procedure Code
- Case Procedure Completed Date/Time
- Case Quality Code
- Quality Procedure Completed Date/Time
- Case Morphology Code
- Morphology Code Authorised Date/Time
- Specimen ID
- Specimen Tissue Code
- Specimen Received Date/Time
- Specimen Priority
- Block ID
- Stain Code
- Stain Date/Time



# Information Model



# Information Flowchart



# Login to NQAIS and Encrypt

Username

Password

Login to Health Intelligence Ireland

HISTO WORKGROUP Test hospital Setup ▾ New ▾

ABC: Test hospital

Local data Signed off data Comments Reports Folders & Projects Mapping tables Encryption tool

**Run the HII Encryption Tool**

Users should click on the link and select 'Open' to run the Encryption Tool.

To run the Encryption Tool, you must install Python interpreter software on your PC. This installation will need to be done only once, but you may need to contact your IT Administrator for assistance.

You can download Python software from <http://www.python.org/ftp/python/2.7.2/python-2.7.2.msi>

To install this software, just follow the steps and accept all default settings.

**HII NQAIS Encrypt Tool** v 1.6

HII NQAIS Encrypt Tool

Select file and password (if not set) and click Encode

Program will create in the same source folder new file with extension 'ENC' which will have encoded first (patient ID) column

Password will be saved on your computer, so next time you will not need to set it up again

Select file no file selected

Set password password set

Encode Quit



# Select Data and Create Report

1. Select data   2. Create report   3. View report   4. Sign off

Select file

Date	Name	Date from	Date to	No rows	Upload status	Select	Delete
03 Oct 2011 17:04:39	HISTOQA_ABCLAB_QT_201110_20111003_111111.ENC	01 Apr 2011	01 Apr 2011	26	Local	<input type="button" value="Select"/>	<input type="button" value="Delete"/>
23 Sep 2011 14:46:40	HISTOQA_ABCLAB_QT_201106_20110913_123456.ENC	19 Sep 2011	19 Sep 2011	3	Local	<input type="button" value="Select"/>	<input type="button" value="Delete"/>

1. Select data   2. Create report   3. View report   4. Sign off

Name	<input type="text" value="Apr-Jun 2011"/>	Description	<input type="text" value="10 Oct 2011 09:56"/>
Snapshot from	<input type="text" value="01-04-2011"/> <input type="button" value="Calendar"/>	Snapshot to	<input type="text" value="30-06-2011"/> <input type="button" value="Calendar"/>
Trend from	<input type="text" value="01-07-2010"/> <input type="button" value="Calendar"/>	Trend to	<input type="text" value="30-06-2011"/> <input type="button" value="Calendar"/>
Trend interval	Month <input type="button" value="v"/>	Comparison group	All <input type="button" value="v"/>
Report type	Full <input type="button" value="v"/>		
Show Q Marks	<input checked="" type="checkbox"/>		



# View Report

ABC: Test hospital

[Local data](#)
[Signed off data](#)
[Comments](#)
[Reports](#)
[Folders & Projects](#)
[Mapping tables](#)
[Encryption tool](#)

Report created

[1. Select data](#)
[2. Create report](#)
[3. View report](#)
[4. Sign off](#)

Apr-Jun 2011 - 10 Oct 2011 09:56

Report type: Full, Snapshot: 01 Apr 2011 - 30 Jun 2011, Trend: 01 Jul 2010 - 30 Jun 2011, Trend interval: Month, Comparison group: All, Data source: Temporary, Show Q Marks: Yes

[Generate PDF](#)

- Hospital Workload
- Inter institutional Consultation
- Intradepartmental Consultation
- FS Correlation
- Frozen Section Turnaround Time
- Cytological/Histological Correlation and follow-up

Frozen Section Turnaround Time

(# labs)	% cases <= 20mins	Snapshot	Trend	# cases <= 20mins	# cases > 20mins	% cases > 20mins	# cases with no FS TAT code	% cases with no FS TAT code
(1)	33.33			1	1	33.33	1	33.33

[Add comment](#)



# Sign Off

- 1. Select data
- 2. Create report
- 3. View report
- 4. Sign off

## Data information

- Name HISTOQA\_ABCLAB\_QT\_201106\_20110913\_123456.ENC
- Upload date 23 Sep 2011 14:46:40
- Data range 19 Sep 2011 - 19 Sep 2011
- Number of rows 3
- Link [https://www.healthatlasireland.ie/devuat/workspaces/AgencyFolder-15/rcpi\\_histopath363/testhospital700?](https://www.healthatlasireland.ie/devuat/workspaces/AgencyFolder-15/rcpi_histopath363/testhospital700?activeTab=local_data_tab&activeTab2=view_report_tab&upload_id=1307526496828)

Sign off

- 1. Select data
- 2. Create report
- 3. View report
- 4. Sign off

## Data information

- Name HISTOQA\_ABCLAB\_QT\_201101\_20110118\_456.ENC
- Upload date 08 Jun 2011 10:48:18
- Data range 21 Oct 2010 - 06 Dec 2010
- Number of rows 500
- Link [http://www.healthatlasireland.ie/devuat/workspaces/AgencyFolder-15/rcpi\\_histopath363/testhospital700?ac](http://www.healthatlasireland.ie/devuat/workspaces/AgencyFolder-15/rcpi_histopath363/testhospital700?activeTab=local_data_tab&activeTab2=view_report_tab&upload_id=1307526496828)

You do not have permissions to sign off data, please contact your Sign off manager, you can use the form below to send an email

Email address

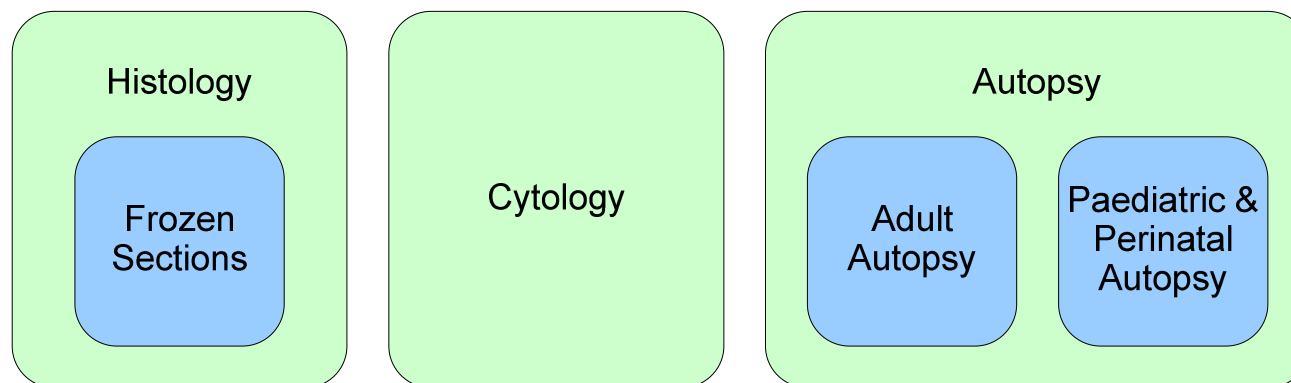
Subject

Message http://www.healthatlasireland.ie/devuat/workspaces/AgencyFolder-15/rcpi\_histopath363/testhospital700?activeTab=local\_data\_tab&activeTab2=view\_report\_tab&upload\_id=1307526496828  
You can go there to view report and sign off the data"/>

Send email



# Data Cohorts



Cohort	Filter
Histology Cases	Procedure codes: P01, P02, P03, P04
Cytology Cases	Procedure codes: P06, P07, P09
Autopsy Cases	Procedure codes: P10, P11
Frozen Section Cases	Histology cases with a stain code that maps to "Frozen"
Adult Autopsy Cases	Autopsy cases with patient age > 14
P&P Autopsy Cases	Autopsy cases with patient age ≤ 14



# Sample KQI Calculations

KQI	Calculation
Total Cases	Count the number of unique <i>Case IDs</i>
Small biopsy	Count the number of unique <i>Case IDs</i> with a <i>Case Procedure Code</i> that maps to "P01".
Stains	Map the <i>Stain Code</i> of each record to find its <i>National Stain Code</i> and the <i>Number of Stains</i> . Sum the <i>Number of Stains</i> for each record.
Cases referred for review	Count the number of unique <i>Case IDs</i> from the cohort <i>Non-Autopsy Cases</i> with <i>Case Quality Code</i> fields that map to "Q001" and "Q004" to find the <i>No. of Cases with Agreement</i> . Divide the <i>No. of Cases with Agreement</i> by the <i>No. of Cases Returned</i> and display as a percentage.
No. of Cases Referred	Count the number of unique <i>Case IDs</i> from the cohort <i>Non-Autopsy Cases</i> with a <i>Case Quality Code</i> that maps to "Q001".
% Cases with TAT ≤ 20 mins	Divide the <i>No. of Cases with TAT ≤ 20 mins</i> by the <i>Total Cases</i> in the cohort <i>Frozen Section Cases</i> and display as a percentage.
Dataset: Histology Turnaround Times	For each unique <i>Case ID</i> from the cohort <i>Histology Cases</i> calculate the <i>Turnaround Time</i> as the elapsed <i>working days</i> from the <i>Case Received Date/Time</i> to the <i>Case Report Authorised Date/Time</i> for cases.
Total TAT Histology	Find the median <i>Turnaround Time</i> from the dataset <i>Histology Turnaround Times</i> .

