



Leeds Lab Launch

Dr. Tony Shannon

Consultant in Emergency Medicine, Leeds Teaching Hospitals

Chief Clinical Information Officer, Leeds TH

Chief Clinical Information Officer, Leeds NHS & Social Care

Leeds Lab Intro

- People
 - How I am & Why I'm here
- Process
 - Whats we've done
 - What we need to do
- Technology
 - Leeds Clinical Portal
 - Leeds Care Record
 - Leeds Lab

Welcome to Leeds

- Leeds Teaching Hospitals
- Leeds NHS & Social Care

- NHS England/NHS Commissioning Board
- NHS Health & Social Care Information Centre

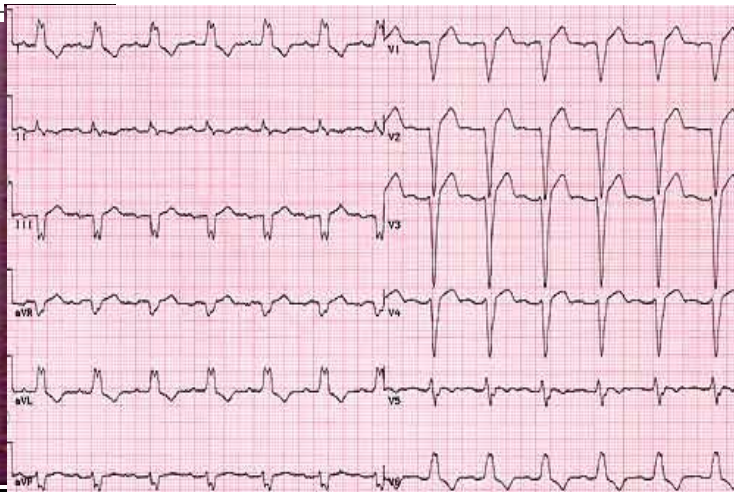
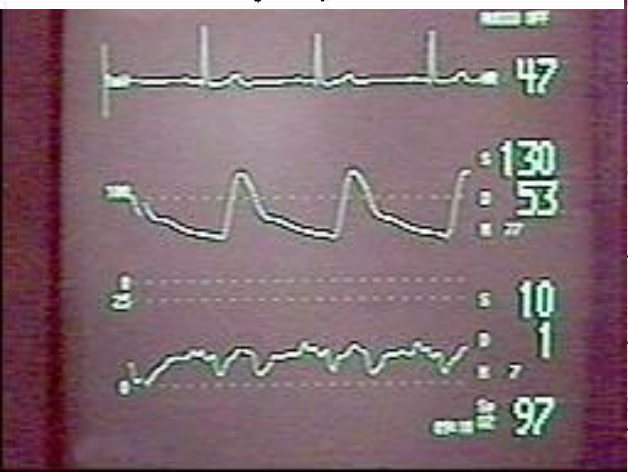


Pb. & SOB, cough, wheezing,
+ watery eyes x 3 days.

Medications



Severity 8 N/V
 Quality 6 production of sputum
 Location 8 hemoptysis
 Context 8 fever

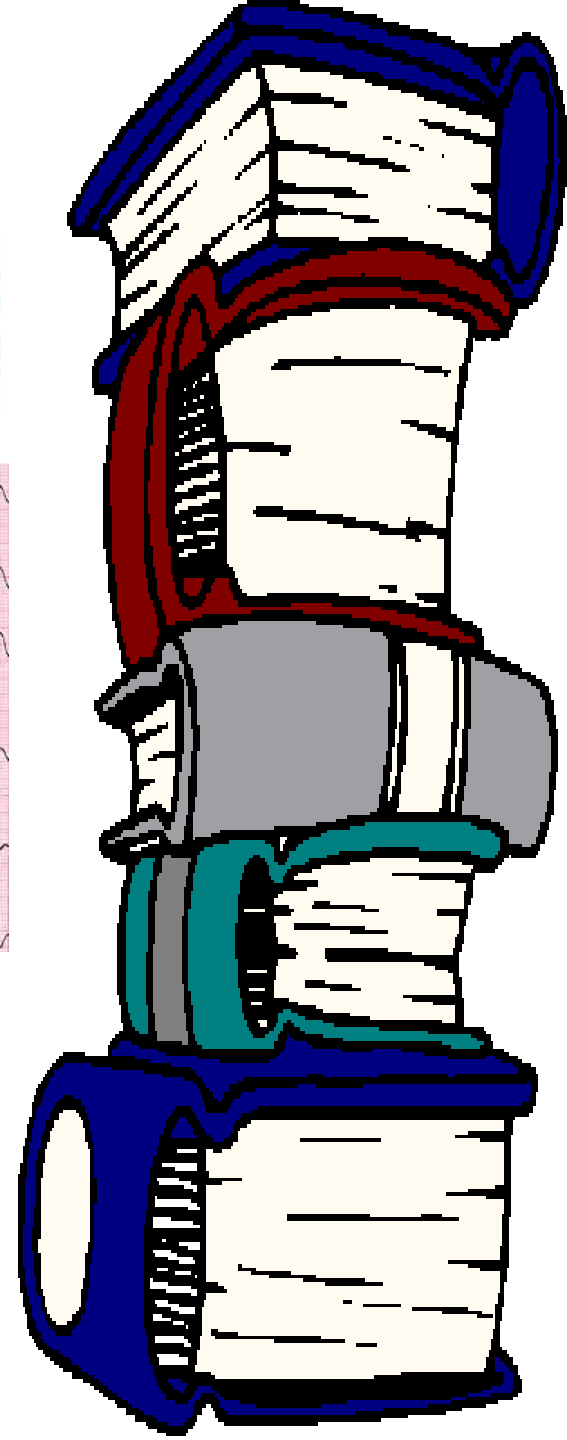


MEDICAL CENTER HOSPITAL
 500 - 600 W 4TH STREET ODESSA, TEXAS Ph 333 7111

FOR Vargues Ramon AGE _____
 ADDRESS 1170 W 15th St DATE 6/23/95

NO REFILLS Zenidil 20mg # 120 -
20mg P.O. Q6hr
 REFILLS Ferron Sulfate 300mg # 100
300mg P.O. TID & meals
 LABEL Humulin N
30 units SQ QAM
Ram/Kate

PRODUCT SELECTION PERMITTED DISPENSE AS WRITTEN
 D.E.A. # _____
 730 037 7100 1H 88-270



The Leeds Teaching Hospitals



NHS Trust



- 4 sites
- 14,000+ staff
- > 200,000 ED visits per year
- 95% 4 hour ED standard

- Biggest health IT programme in world
- Biggest civil IT programme in world
- Based in Leeds
- From 2004 ...



NHS England

2011



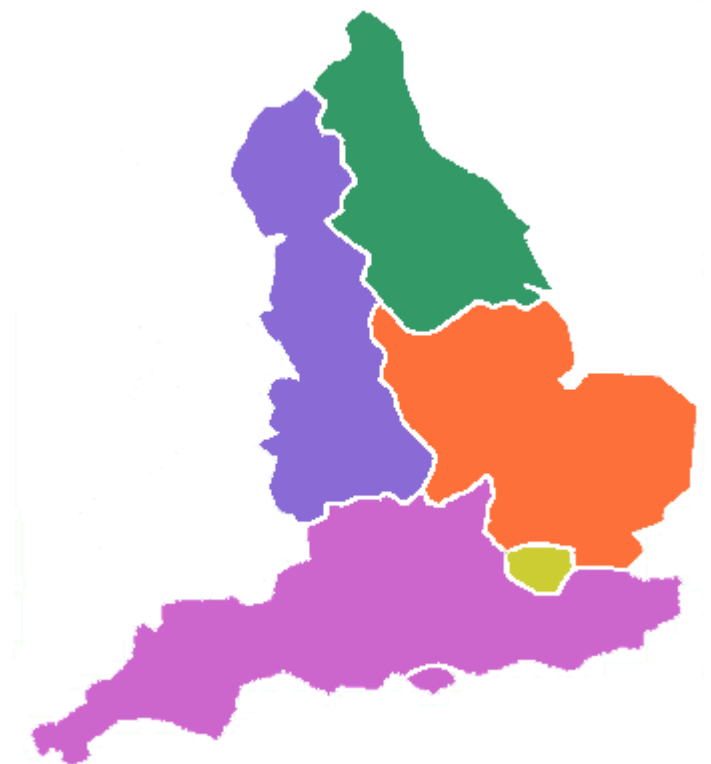
£12BN NHS COMPUTER SYSTEM IS SCRAPPED

... and it's all YOUR money that
Labour poured down the drain

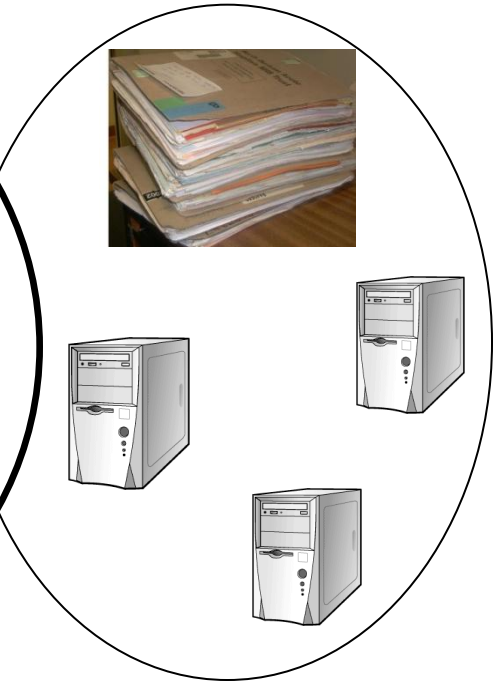
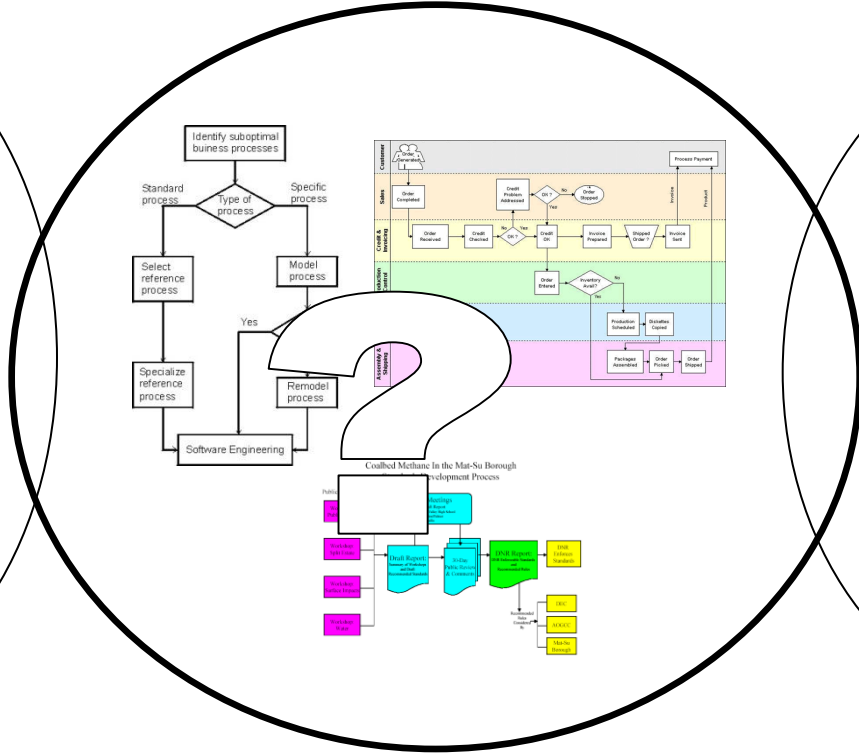
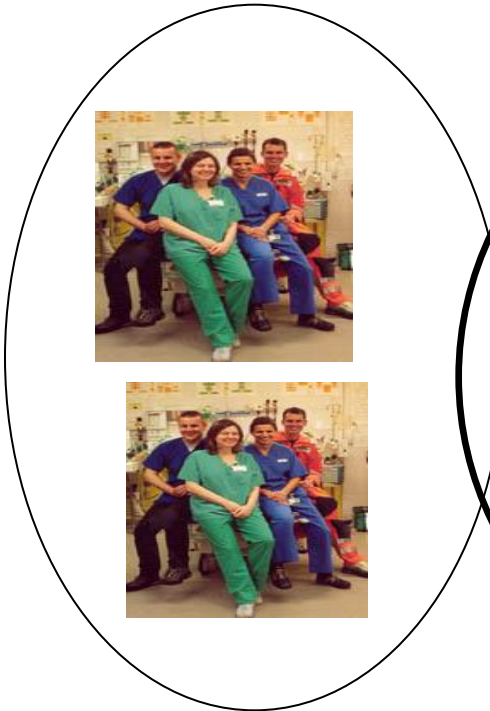
MINISTERS are to axe Labour's disastrous £1.2 billion NHS computer scheme.

EXCLUSIVE

... of the scheme's success and a decision to scrap it. The scheme was intended to replace the current system of paper-based records with a fully integrated electronic system. The scheme was launched in 2007 and was expected to be completed by 2011. However, the scheme has been plagued by delays, cost overruns, and a lack of user adoption. The government has now decided to scrap the scheme and replace it with a new system. The new system is expected to be completed by 2015.



Healthcare Change: People + Process + Technology

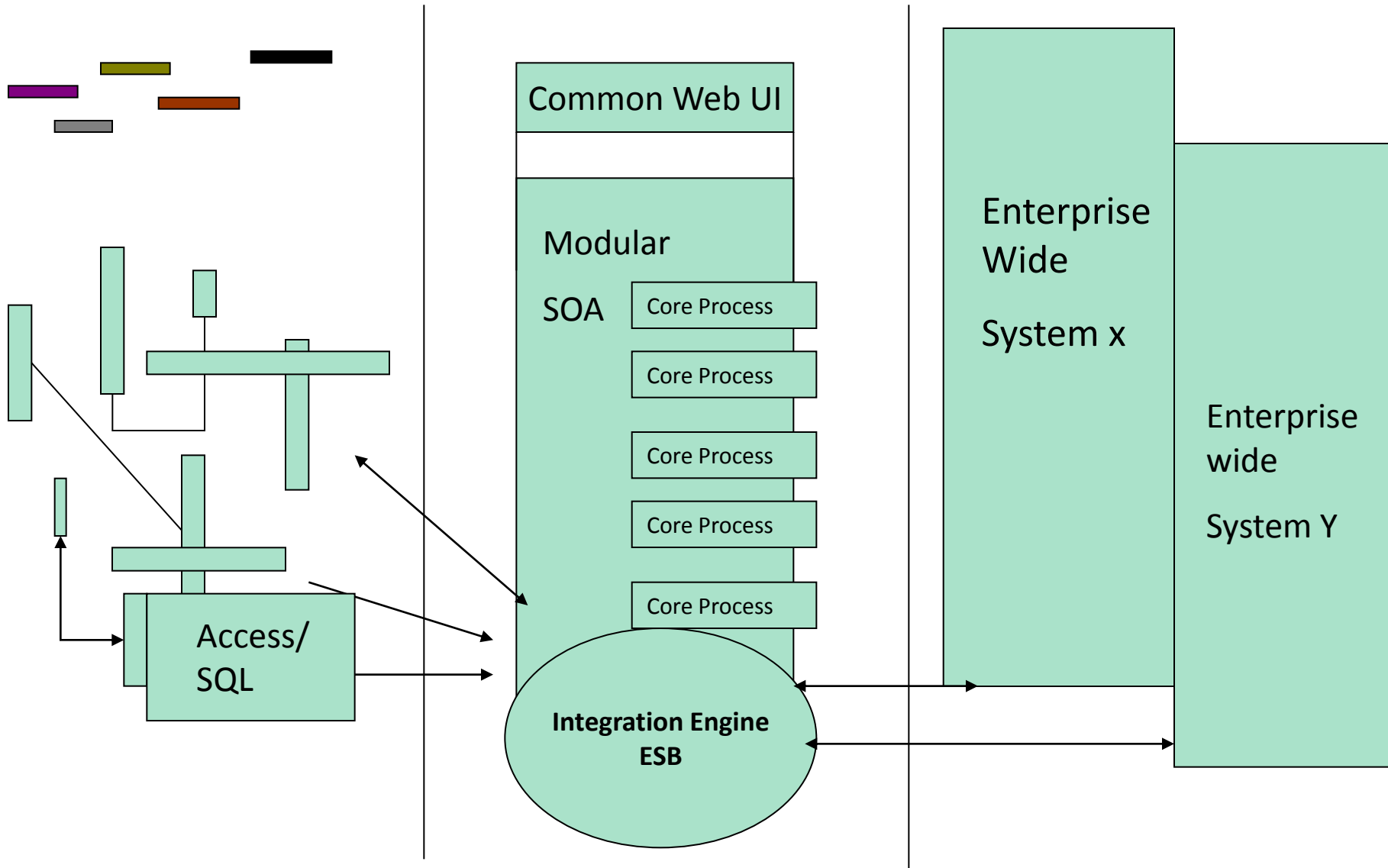


Thinking in silos

Process Variation

Information Isolation

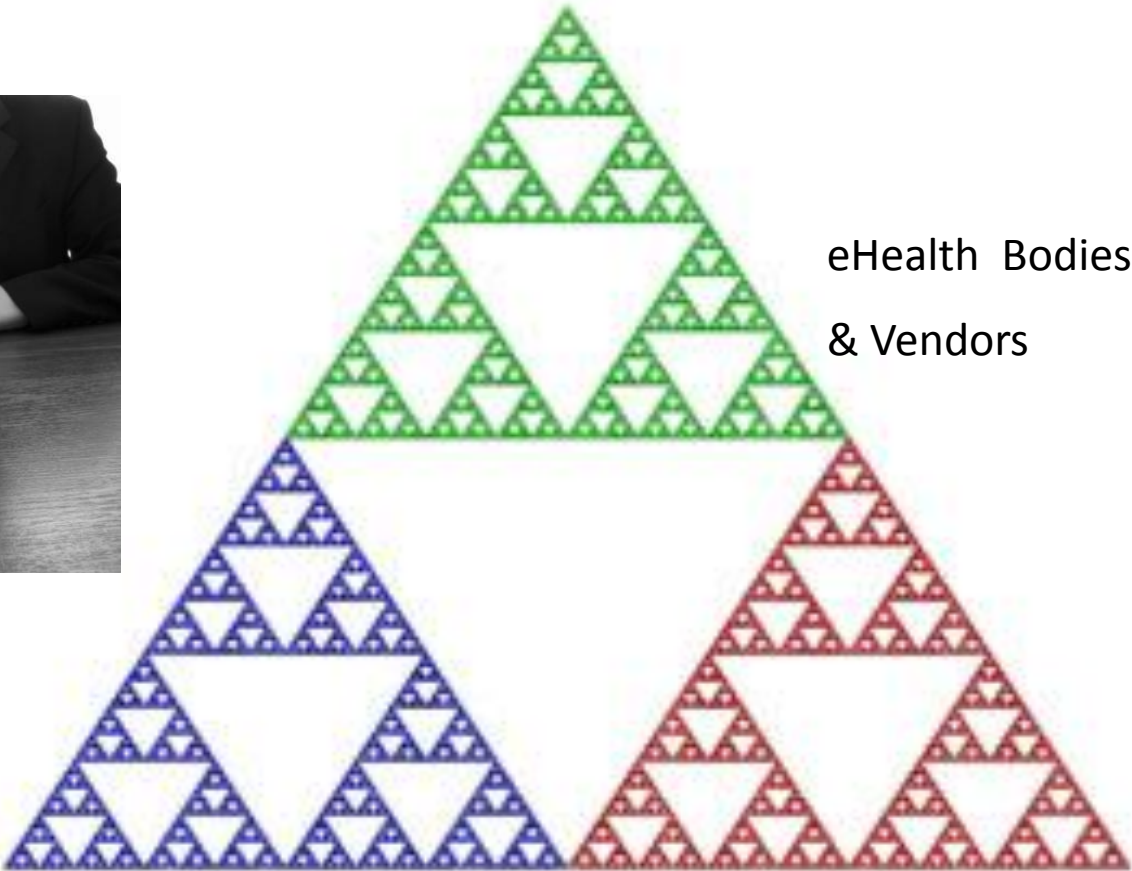
State of the Market



Standards: Vendors: Innovators:

Disconnect

International Standards



eHealth Bodies & Vendors



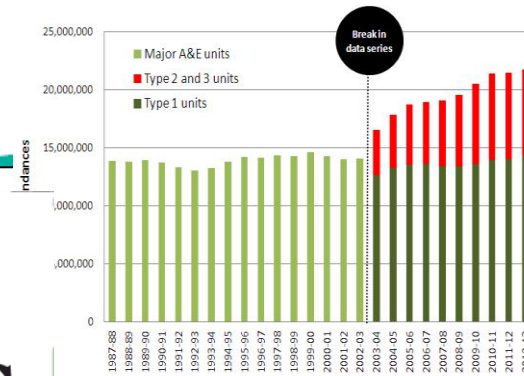
Local

Innovators

Transforming Emergency Care in England

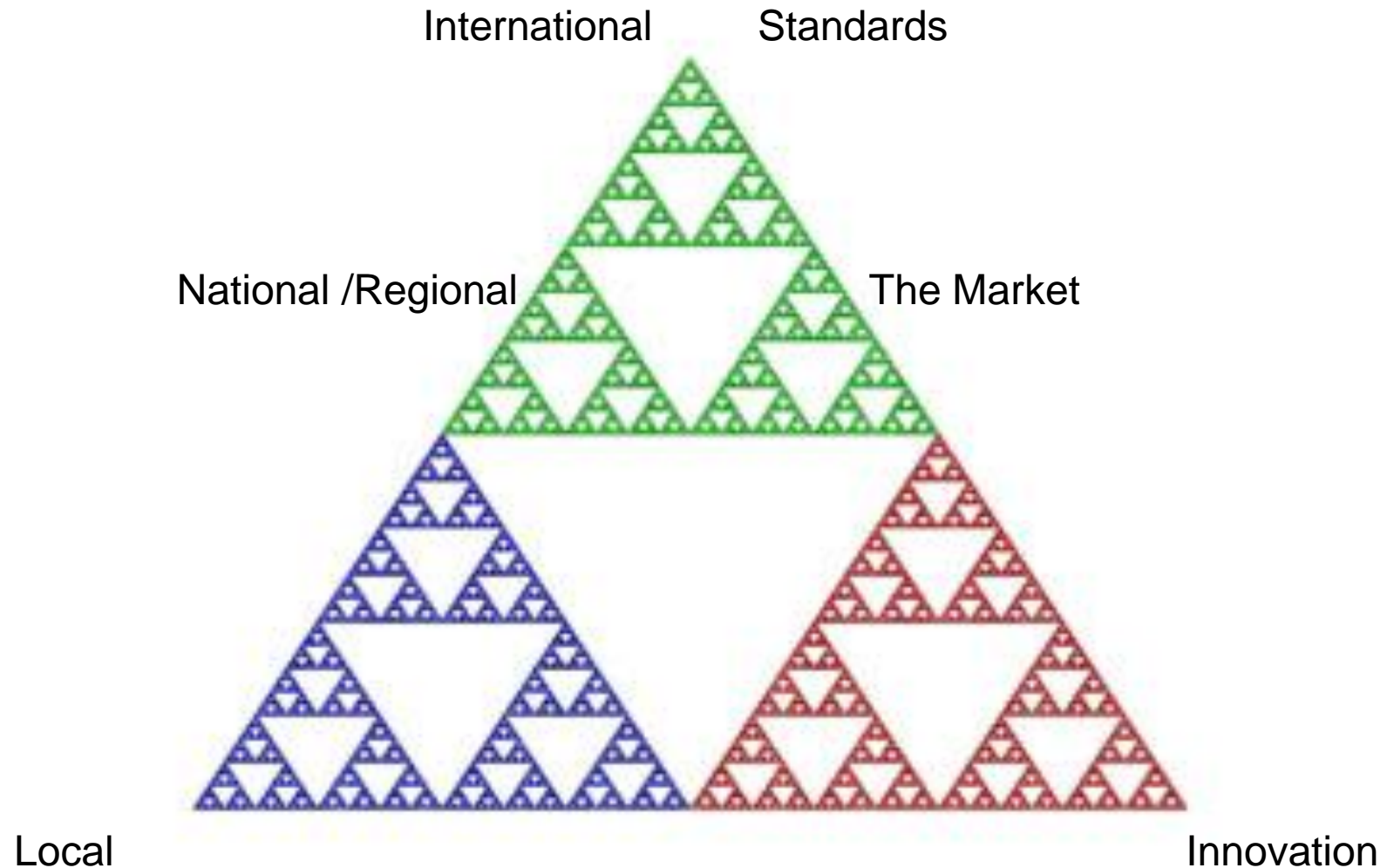
A report by Professor Sir George Alberti

Emergency care in crisis admits NHS regulator



THINK
WORK SMARTER
NOT HARDER

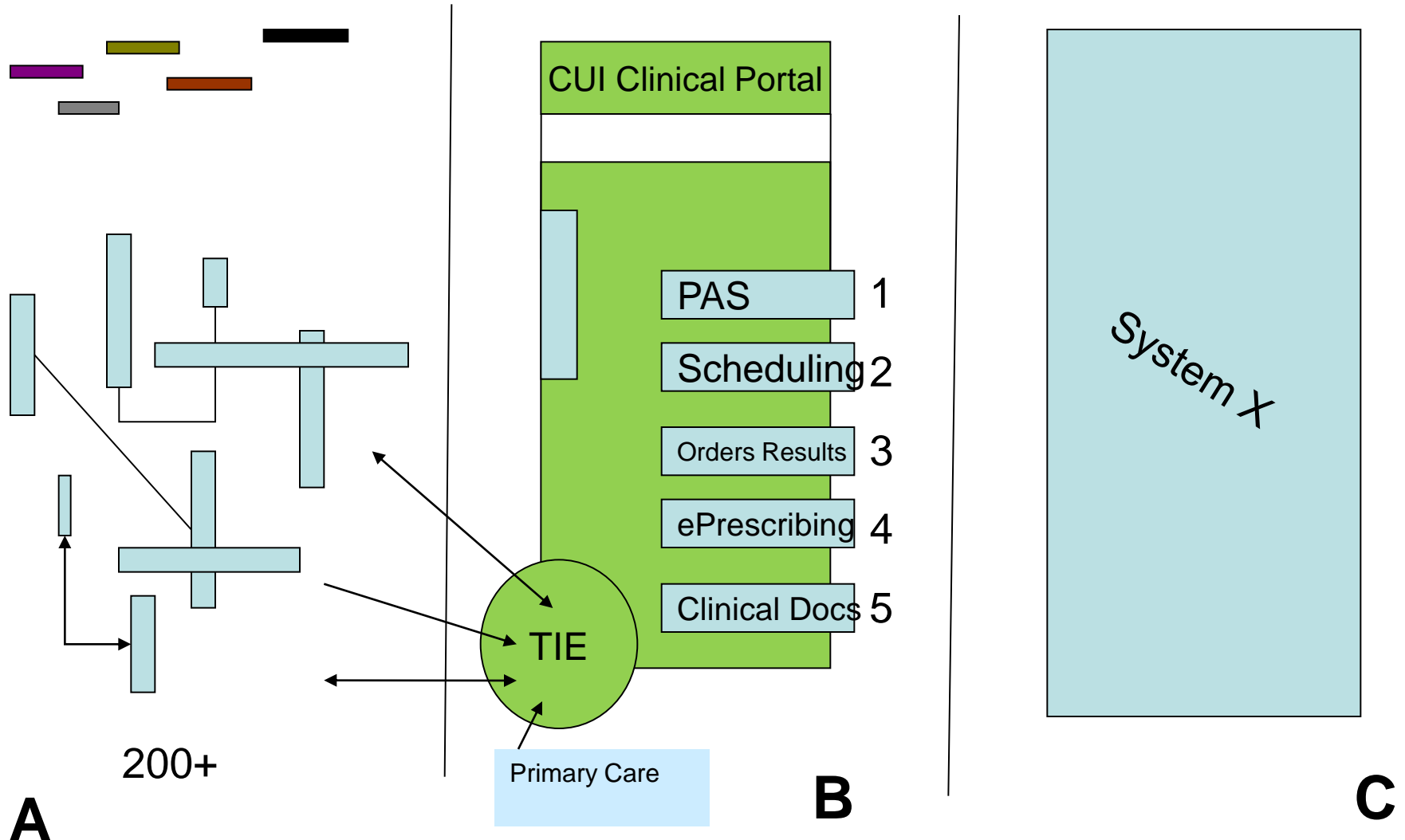
eHealth Ecosystem





Leeds Clinical Portal

Informatics Strategy



PPMP

Connecting Systems

User Name:

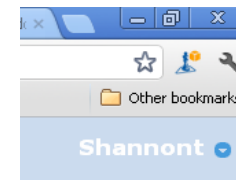
Welcome to PPMP - Patient Pathway Manager Portal



TM

open source

OS Portal- Patient View



NHS No. 152 615 0200

Address: 400, 15 Av, ... Phone and email: ... GP: BELL, G J (Dr) HSP No. 444637 Allergies unavailable

Clinical Record Types

- HOLCROFT, Christine
(06-Sep-1951)
452 016 9232
- All (1292)
- Alerts (0)
- Allergies (0)
- Audits/ Tracking (0)
- Clinical Documents (238)
- Encounters/ Events (558)**
- Medications (0)
- Observations (0)
- Orders (15)
- Plans (7)
- Problems/ Issues/Diagnosis (2)
- Procedures (301)
- Results (161)
- Scheduling (0)
- Tasks (0)
- Trials/ Studies (10)

Dashboard Summary Encounters/ Events

Filter:

Date	Description	Type	Source
30-Apr-2012	Cancelled : Gynae Oncology Clinics (Mon & Fri) (Gynae Oncology) 13:30 - Patient Cancelled Appointment	Outpatient	PPM
23-Apr-2012	Craven A	Consultation	PPM
23-Apr-2012	Booked : Gynae Oncology Clinics (Mon & Fri) (Gynae Oncology) 13:30	Outpatient	PPM
20-Apr-2012	Discharged 21/04/2012, Perren T, 97 (St James's Institute of Oncology), Perren T, 20/04/2012 to 21/04/2012	Admission	PPM
20-Apr-2012	Discharged 14/04/2012, Hall G, 97 (St James's Institute of Oncology), Hall G, 12/04/2012 to 14/04/2012	Admission	PPM
12-Apr-2012	Discharged 07/04/2012, Hall G, 97 (St James's Institute of Oncology), Hall G, 05/04/2012 to 07/04/2012	Admission	PPM
05-Apr-2012	Gynae Oncology Clinics (Mon & Fri) (Gynae Oncology) 16:30 - Patient Attended	Outpatient	PPM

Showing 1 to 558 of 558 entries

Appointment Time: 13:30
 Attendance Status: Unknown
 Cancer Status: Unknown
 Appointment Type: CHM
 Clinic Definition Name: Gynae Oncology Clinics (Mon & Fri)
 Clinic Definition Detail: Gynae Oncology Clinics (Mon & Fri) (AM/PM, Bexley wing)
 Appointment Date: 23-Apr-2012
 Consultant: Gynaecology MDT (GYNAEMDT) St James' University Hospital Beckett Street Leeds LS9 7TF (0113) 2433144

EDPQDB5.m.txt msm-m.zip EditPlusRegInfo_copy.txt Show all downloads...

CHRISTOPHER, Christine (Mrs) Born 06-09-1953 (60y) Gender Female NHS No. 100106194

Address 450, York Rd, St. George's Phone and email 0113 2756410, 0113 2756410 GP BELL, G J (Dr) HSP No. 444637 Allergies unavailable

- Clinical Record Types**
- CHRISTOPHER, Christine (Mrs) (100106194)
 - All (1292)
 - Alerts (0)
 - Allergies (0)
 - Audits/ Tracking (0)
 - Clinical Documents (238)**
 - Encounters/ Events (558)
 - Medications (0)
 - Observations (0)
 - Orders (15)
 - Plans (7)
 - Problems/ Issues/Diagnosis (2)
 - Procedures (301)
 - Results (161)
 - Scheduling (0)
 - Tasks (0)
 - Trials/ Studies (10)

Dashboard Summary Clinical Documents

Filter:

Date	Description	Type	Source
23-Apr-2012	Urgent Admission	Annotation	PPM
02-Apr-2012	Current Episode: Outpatient Review	Clinician Letter	PPM
30-Mar-2012	Please refer to my consultation entry made earlier today	Annotation	PPM
24-Mar-2012	Discharge Advice Note J97 NSO INPATIENT WARD St James's University Hospital	File Link	PPM
19-Mar-2012	Clinician Letter	Clinician Letter	PPM
17-Mar-2012	Discharge Advice Note J97 NSO INPATIENT WARD St James's University Hospital	File Link	PPM
10-Mar-2012	Discharge Advice Note J97 NSO INPATIENT WARD St James's University Hospital	File Link	PPM
07-Mar-2012	Ward round notes 07/03/12 -	Annotation	PPM
01-Mar-2012	Letter to Mr Cartledge	Clinician Letter	PPM
27-Feb-2012	treatment arrangement	Annotation	PPM
27-Feb-2012	Clinic review and planning of further treatment	Clinician Letter	PPM
22-Feb-2012	CVC insertion booking form	File Link	PPM
21-Feb-2012	provisional appointments	Annotation	PPM
13-Feb-2012	Current Episode: Outpatient Review	Clinician Letter	PPM
18-Jan-2012	Please refer to my consultation entry made earlier today	Annotation	PPM

Showing 1 to 238 of 238 entries

Headline: Urgent Admission

Dictated Date: 23-Apr-2012

Note:

Contacted by Macmillan nurse, Christine

Over the past 36 hrs Christine has experienced increased pain in her lower back and both legs, effecting mobility. Does not report any loss of feeling, managed with difficulty to mobilise to the toilet during the night and passed urine. Now she is currently in bed and unable to sit/move due to pain.

Unable to take oral medications this morning, Normally takes paracetamol 1 gram QDS, Fentanyl patches and oxynorm PRN. Christine has always been reluctant to take Oxynorm and has only taken 2 x 2mls in the past 12 hrs. Advice taken from Lynn Cowling Community macmillan nurse, To commence Oxynorm 2mls at 2hrly intervals up to 6 x a day. Encouraged Christine to try and take the liquid, which will be easier to swallow. Suggested using a syringe to trickle the liquid slowly into her mouth. The community Macmillan nurse feels this maybe Muscle spasm, but underlying causes need to be ruled out.

For admission by ambulance (witin in 1-2 hrs) to ward 96.

Admissions clerk Nicola informed at 09.30 hrs.

Clinician and Christine aware of above plan.

Author: + Mrs Alison Craven

Contact Person: + Mrs Alison Craven

Addressee: + Dr G J Bell (G8710202)

Consultant: + Dr Geoff Hall (C3469556)

Typed Date: 23-Apr-2012

Born: [redacted] Gender: Female NHS No. 444637
 Address: [redacted] Phone and email: [redacted] GP: BELL, G J (Dr) HSP No. 444637 Allergies unavailable

- Clinical Record Types**
- Christian
 - Gen (1251)
 - All (1292)
 - Alerts (0)
 - Allergies (0)
 - Audits/ Tracking (0)
 - Clinical Documents (238)**
 - Encounters/ Events (558)
 - Medications (0)
 - Observations (0)
 - Orders (15)
 - Plans (7)
 - Problems/ Issues/Diagnosis (2)
 - Procedures (301)
 - Results (161)
 - Scheduling (0)
 - Tasks (0)
 - Trials/ Studies (10)

- Document viewer**
- Filter: []
- Date
- 23-Apr-2012
 - 02-Apr-2012
 - 30-Mar-2012
 - 24-Mar-2012
 - 19-Mar-2012
 - 17-Mar-2012
 - 10-Mar-2012
 - 07-Mar-2012
 - 01-Mar-2012
 - 27-Feb-2012
 - 27-Feb-2012
 - 22-Feb-2012
 - 21-Feb-2012
 - 13-Feb-2012
 - 18-Jan-2012
- Showing 1 to 26 of 266 entries

Document viewer (Page 1 of 3)

1 / 3 59.3%

DISCHARGE ADVICE NOTE

Hospital: St James's University Hospital
Ward: J97 NSO INPATIENT WARD
Ward Tel: 0113 2068297

Surname: [redacted]	Sex: Female	DOB: [redacted]
Forename: [redacted]	Case Note No: 444637	NHS No: [redacted]

Patient Address:	Weight in kg:	Age:	60
Discharge Destination: Usual place of residence - see above	GP: Dr GJ BELL	Address: LEIGH VIEW MEDICAL C BRADFORD ROAD TINGLEY WAKEFIELD WF3 1RQ GP Fax:	
Consultant: DR HALL Medical Oncology	Admitted: 15/03/2012		
Discharged: 17/03/2012			

DRUG ALLERGIES AND SENSITIVITIES (specify)

Carboplatin
Amitriptyline

PRIMARY DIAGNOSIS / PROCEDURE and ADVICE to GP

Mixed cell adenocarcinoma of ovary

GP INFORMATION:
Elective admission for second cycle of cisplatin chemotherapy.
Renal function stable.
Pain control improved since last admission.

System Administrator Message: FINAL DISCHARGE CHECKS OF THIS EDAN AT THE PATIENT BEDSIDE HAVE NOT BEEN COMPLETED. THE PATIENT MAY / MAY NOT HAVE BEEN GIVEN DISPENSED MEDICINES

Previous Next OK

Advice Note J97 NSO INPATIENT WARD
St James's University Hospital
012
012

OS Portal (inc. Order Comms)

★ Favorites
Clinical Portal Leeds - EDITESTPATIENT, Thirty (...)
Page
Safety
Tools

Clinical Portal Leeds
 Patient

Advanced Search
The Leeds Teaching Hospitals NHS Trust
huntride

Actions

- Audits/Tracking (82)
- Clinical Documents
- Encounters/Events
- Medications
- Observations
- Orders
- Plans
- Problems/Issues/Diagnoses
- Procedures (2)
- Results
- Scheduling
- Tasks
- Trials/Studies
- Interops
- HealthView
- Leeds Care Record
- Order Comms
- ICE Report

External Systems

- Summary Care Record
- Order Comms
- More >

Done
Continue with

Services

- GP Pathology
- LTH Pathology
- Pathology Conditions
- Histopathology
- Community Healthcare
- GP Radiology
- Plain Film & Fluoro
- CT & MRI
- I.R. (Vascular)
- Ultrasound
- Nuclear Medicine
- Breast Imaging
- Endoscopy
- Dietetics

Services

- Acute
- Biochemistry
- Haematology
- Microbiology
- Immunology
- InbornMetabDis
- Neonatal Path
- Search

Services

- Blood Sciences and Specialist Laboratory Medicine**
 - Urea and Electrolytes(UE)
 - Liver Function Tests(LFT)
 - Amylase
 - Glucose (Plasma)
 - Chloride and Bicarbonate
 - C Reactive Protein (CRP)
 - Blood Gases - For lab test only
 - Calcium-Bone Profile
 - Magnesium (MG)
 - Uric Acid (URATE,UA)
 - Phosphate (PO4)
 - Troponin I(TNI)
 - SALICYLATE & PARACETAMOL
 - CEREBROSPINAL FLUID (CSF) BIOCHEMISTRY
- Microbiology**
 - BLOOD CULTURES
 - CSF analysis
 - Clostridium difficile screen
 - MRSA Screening
 - Wound swab
 - Urine Microscopy and Culture
- Full Blood Count (FBC)**
- INR (for Warfarin)
- APTT (for heparin)
- INR / APTT for Heparin and Warfarin
- Coagulation Screen (CS)
- DDimer Level (FDP)
- Plasma Viscosity (PV)
- Erythrocyte Sedimentation Rate (ESR)
- Infectious Mononucleosis Screen (IM)
- Malaria Parasite Screen
- Add On Request Guidance

Most recent requests made for this patient:

Requested	Investigations	Priority	Loc	Ordered	Status
30 Oct 2013 16:10:01	HLA B57 (PCR-SSP)	As Soon As Possible	OP CAH	calvertc	REQ
30 Oct 2013 16:10:01	TSH (on thyroxine)	As Soon As Possible	OP CAH	calvertc	REQ
30 Oct 2013 16:10:01	Anti Nuclear Antibody Screen (ANA), ANCA (neutrophil cytoplasmic Ab), CCP Antibody (ACPA), Complement C3/C4, Immunoglobulins (GAM) (IgG, IgA, IgM), Rheumatoid Factor (RF)	As Soon As Possible	OP CAH	calvertc	REQ
30 Oct 2013 16:10:01	Anti Phospholipid Ab (cardiolipin/B2GPI)	As Soon As Possible	OP CAH	calvertc	REQ
30 Oct 2013 16:10:00	Erythrocyte Sedimentation Rate (ESR), Lupus Anticoagulant Screen, C Reactive Protein (CRP), Full Blood Count (FBC), Liver Function Tests(LFT), Thyroid	As Soon As Possible	OP CAH	calvertc	REQ

To view all requests for this patient, [click here.](#)
 To view records of the tests on this panel only made for this patient, [click here.](#)

OS Portal- Many Patient View

Dashboard Multi Patient Ward View

Filter:

Ward	Bed	Patient	CONS	LOS	EDD	MFFD	Waiting For
22	+		AJD	89 mins	+	+	+
22	+		AJD	104 mins	+	+	+
22	+		AJD	169 mins	+	+	+
22	+		AJD	212 mins	+	+	+
22	+		AJD	4 hours	+	+	+
22	+		AJD	5 hours	+	+	+
22	+		AJD	7 hours	+	+	+
22	+		AJD	7 hours	+	+	+
22	+		AJD	8 hours	+	+	+
22	+		AJD	9 hours	+	+	+
22	+		AJD	9 hours	+	+	+
22	+		AJD	10 hours	+	+	+
22	+		AJD	13 hours	+	+	+

OS Portal- Reporting View

Recently Viewed
Dashboard Report Viewer

Patient

TEST PATIENT, Mavis
(26-Feb-1969)

TESTPATIENT, Patch
(01-Jan-2004)
299 999 9468

Shahir

Shine

Select Report Group: Select Report Type:

Select MDTs to report: Select ICD10 to report:

Select Additional Details to Return: Select Age Grouping:

Select Period Start Date: Select Period End Date:

Selected MDTs: Gynae

Selected Report Parameters: ICD Only, None, Group by ICD10 with No Age Grouping between 01/01/2005 and 01/01/2012

Strata	Total	Events	Censored	Surv Day7	Surv Day14	Surv Day28	Surv Day30	Surv Day60	Surv Day90	Surv Year1	Surv Year2	Surv Year5
Gynae - Cervix Uteri - Mal.Neoplasm	850	240	610	99.64%	99.52%	99.03%	99.03%	97.52%	95.97%	86.07%	73.33%	56.37%
Gynae - Corpus Uteri - Mal.Neoplasm	1876	452	1424	99.89%	99.83%	99.39%	99.39%	96.07%	97.13%	88.44%	77.80%	59.07%
Gynae - Ovary - Mal.Neoplasm	1234	570	664	99.59%	98.93%	97.42%	97.25%	94.70%	92.56%	79.57%	62.16%	35.22%
Gynae - Placenta - Mal.Neoplasm	1	0	1	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			
Gynae - Unspec Female Genital Organs - Mal.Neoplasm	53	30	23	100.00%	100.00%	96.00%	96.00%	90.00%	88.00%	73.56%	56.75%	25.76%
Gynae - Uterus Unspec - Mal.Neoplasm	84	53	31	100.00%	98.80%	96.36%	95.14%	88.97%	83.94%	54.95%	35.74%	21.53%
Gynae - Vagina - Mal.Neoplasm	87	43	44	98.85%	98.85%	98.85%	98.85%	96.52%	94.20%	68.83%	56.43%	43.76%
Gynae - Vulva - Mal.Neoplasm	294	99	195	100.00%	99.65%	98.94%	98.59%	96.40%	94.17%	80.72%	71.35%	50.23%

Analysis includes all confirmed definitive cancers between the selected period which are known to the user's PPM instance e.g. all cases that have been through LHT, for discussion, treatment (first definitive or subsequent)

Selected ICD10 Codes: Cervix Uteri - Mal Neoplasm, Corpus Uteri - Mal Neoplasm, Ovary - Mal Neoplasm, Placenta - Mal Neoplasm, Unspec Female Genital Organs - Mal Neoplasm, Uterus Unspec - Mal Neoplasm, Vagina - Mal Neoplasm, Vulva - Mal Neoplasm

Generated from PPM: 23/04/2012 Created By: Martin Waugh The Leeds Teaching Hospitals

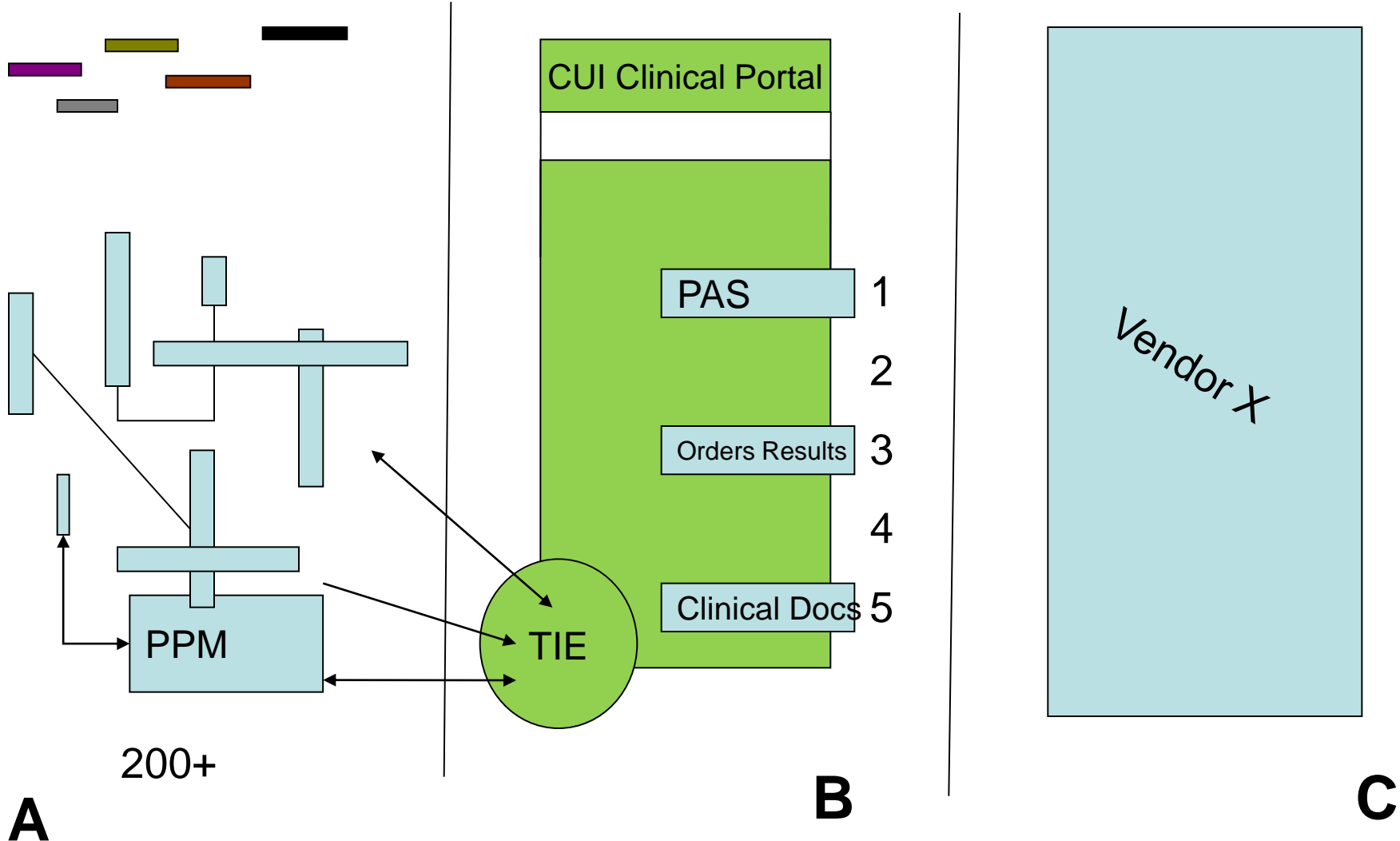
+ Clinic

+ M.D.T

+ Report

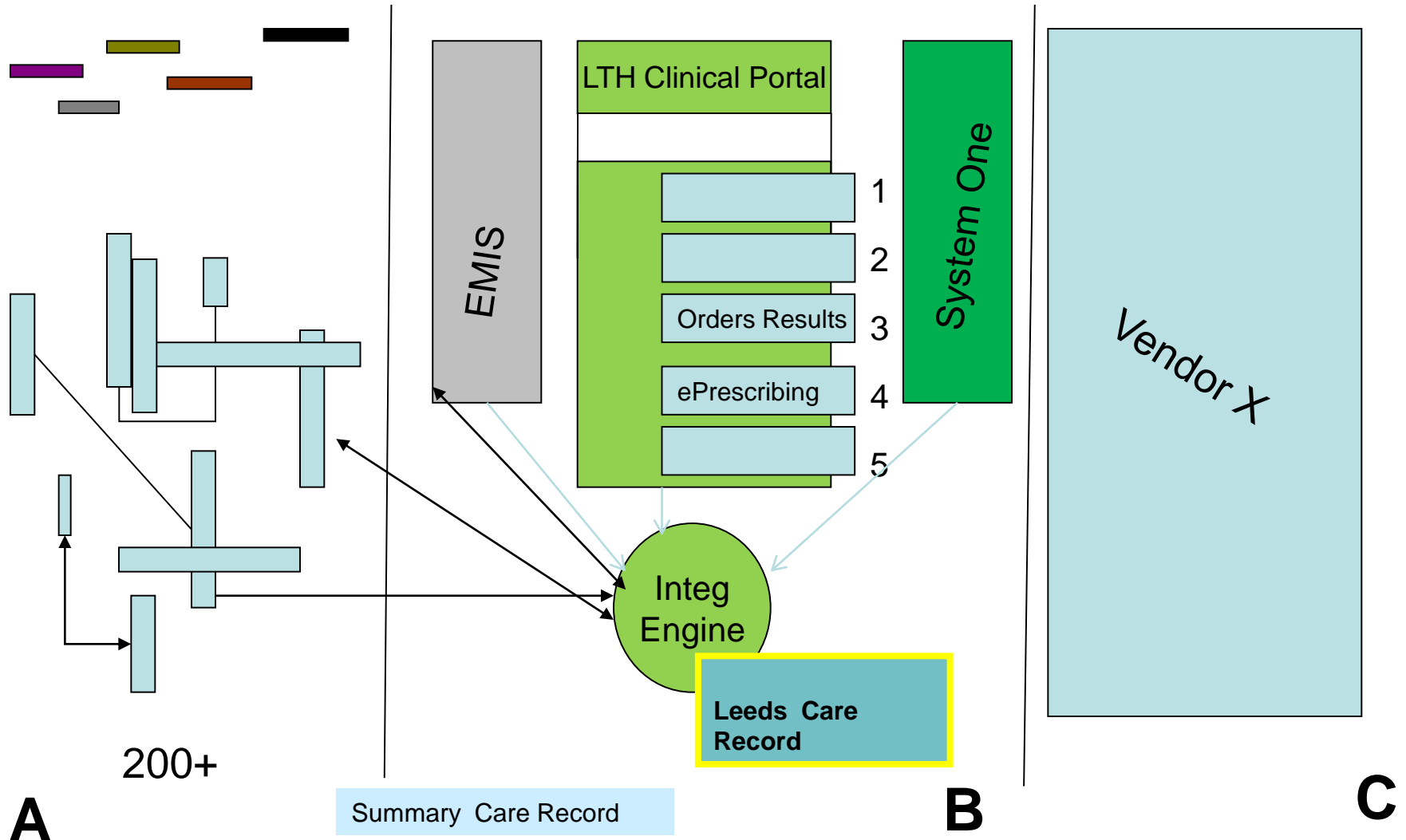
Done
Trusted sites
100%
start
4 Novell ...
teaching ...
2 Windo ...
2 Micros ...
PPMP - Go ...
ePrescrib ...
PPMP - Wi ...
12:56

Informatics State

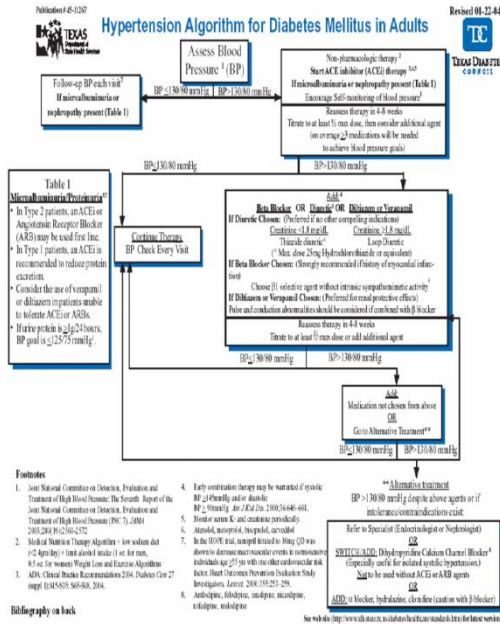


Leeds Care Record

Leeds Care Record- Approach

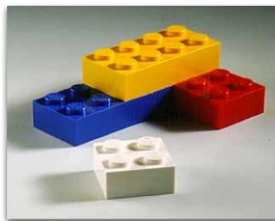


Designing Guideline-based Workflow-integrated Electronic Health Records



Guideline

Archetypes



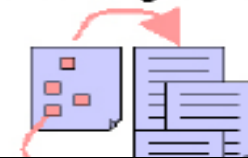
Workflow Schemas



Computer-interpretable Guidelines (CiGs)



Hypermedia (human-readable electronic guidelines)



WHAT

WHO

WHY

Standard: Record Architecture

Templates (Toys)

Specific

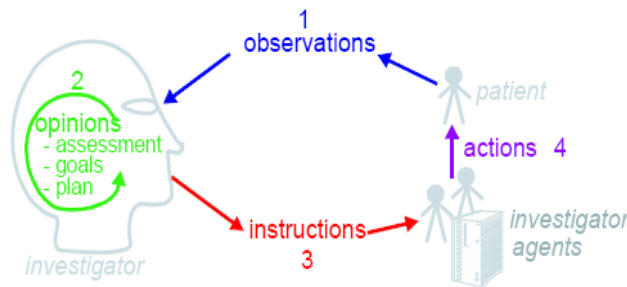
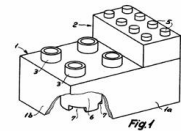
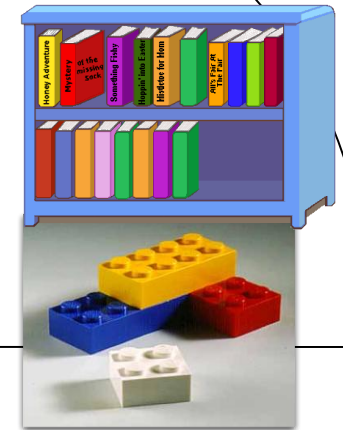
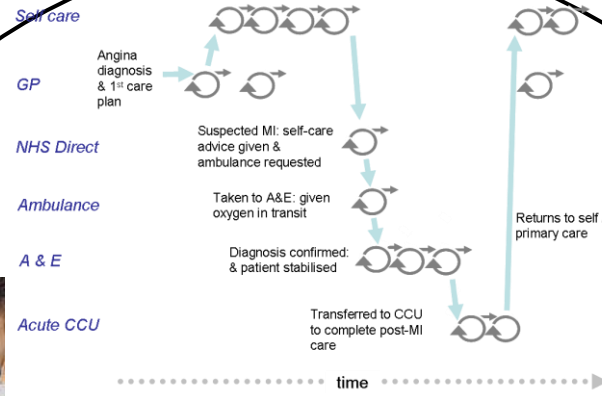


FIGURE 20 Categories of information in the care process

Generic

Archetypes (Bricks)

openEHR Archetype

- Clinically oriented
- Reusable list of clinical statements
- Maximal dataset
- Can be coded with terminologies
e.g. Pulse, BP
- Computable

The screenshot displays the Ocean Archetype Editor interface for a blood pressure archetype. The main window shows the archetype file name 'openEHR-EHR-OBSERVATION.blood_pressure.v1' and the binding terminology 'SNOMED International Clinical Terms, 2002'. The interface is divided into several panes:

- Left Pane:** A tree view showing the archetype structure with nodes for 'systolic', 'diastolic', 'mean arterial pressure', and 'pulse pressure'. A 'Pulse - Microsoft Internet Ext.' window is also visible.
- Top Pane:** Contains tabs for 'Header', 'Definition', 'Terminology', 'Display', 'Interface', and 'Description'. The 'Definition' tab is active, showing a table of nodes and their associated codes.
- Table:** A table with columns 'Node', 'Code', and 'Release'. The rows are:

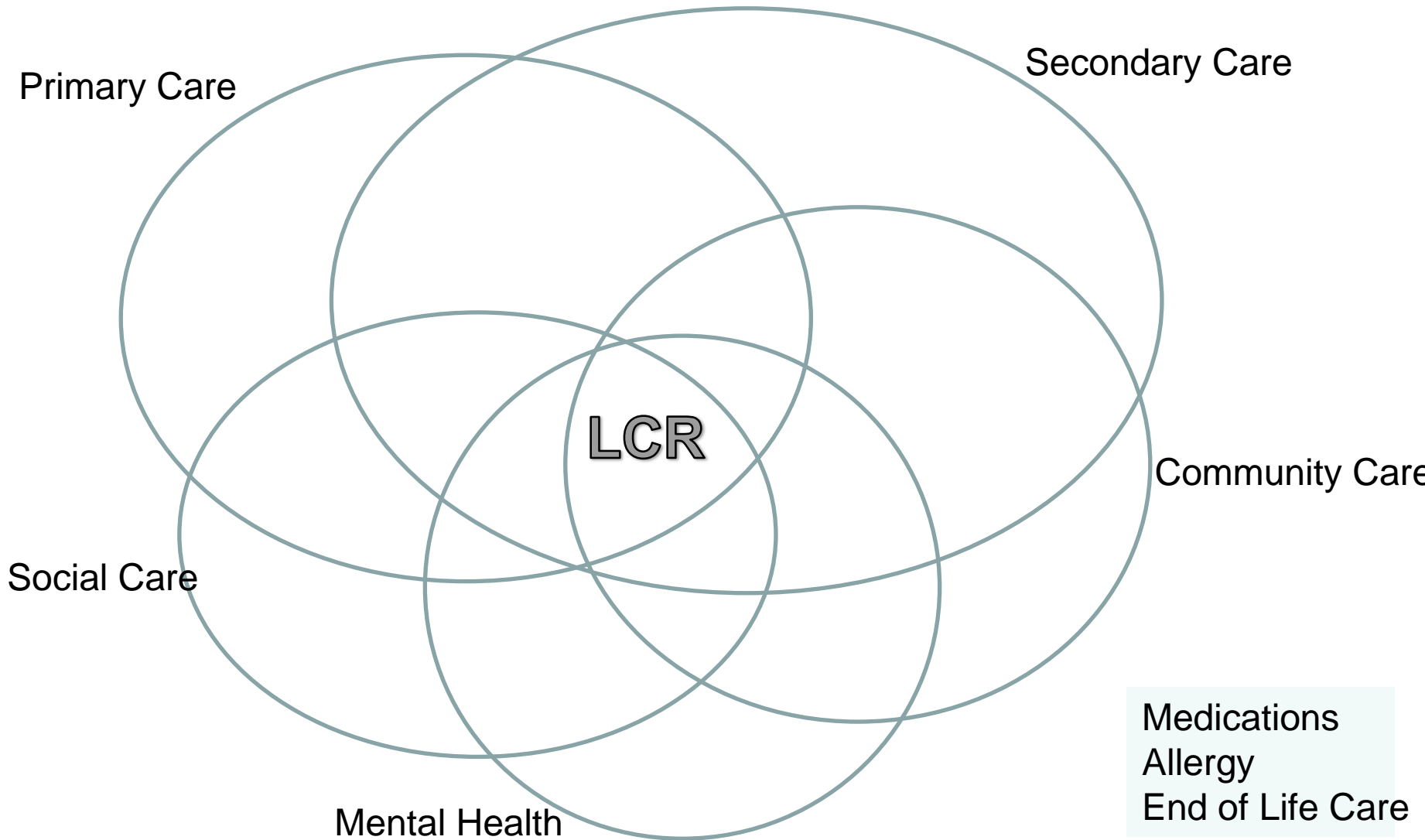
Node	Code	Release
diastolic	163031004	
Instrument	57134006	
Cuff size	246153002	
Blood pressure	163020007	
- Main Content Area:** Displays the archetype definition for 'Pulse: Observation'. It includes a description: 'The rate the heart is beating - either mechanically or electrically'. A diagram shows the archetype structure with nodes for 'History', 'Data', 'Protocol', and 'State'. Below this, there are sections for 'Data: LIST' and 'State: LIST'.

The 'Data: LIST' section contains the following table:

Concept	Description	Type	Cardinality	Values
Q Rate	The rate of the heart	Quantity	mandatory 1..1	Property = FREQUENCY Units: /min. (>= 0)
T Rhythm	The rhythm of the heart beat	Coded text	optional 0..1	Regular Irregular Irregularly irregular
T Character	The character of the pulse on palpation	Text	optional 0..1	Free or coded text
T Description	The description of the rate and rhythm	Text	optional 0..1	Free or coded text

The 'State: LIST' section is currently empty.


Leeds Care Record - Common Ground



Leeds Care Record Issues

- People
 - Health & Social Care Teams
- Process
 - Frontline Care
 - MultiDisciplinary Patient Reviews
- Information
 - City Wide Data Sharing
- Technology
 - Interoperability MIG
 - Open Standard openEHR

Leeds Care Record

Clinical Portal Leeds Patient The Leeds Teaching Hospitals NHS Trust  minshali

Menu 0 0 0 Advanced Search

Actions Home AVOCARDO, Becky (Mrs) x

View Patient Details **AVOCARDO, Becky (Mrs)** Born 22-Jan-1955 Gender Female NHS No. *
Died 01-Dec-2010 Age at Death (55y)

View Audit Log Allergies not recorded

Clinical Record Types Address 100 Some Street

AVOCARDO, Becky (Mrs) **Recent events**

All This feature is not currently available

Alerts (0)

Allergies (0)

Audits/Tracking (2)

Clinical Documents (14)

Encounters/Events (55)

Medications (0)

Observations (1)

Orders (15)

Plans (5)

Problems/Issues/Diagnoses (3)

Procedures (3)

Results (26)

Scheduling (0)

Tasks (0)

Trials/Studies (0)

Interops

HealthView

Order Comms

ICE Report

ICE Request

Summary	Problems	Diagnosis	Medications	Risks/Warnings	Procedures	Investigations
	Examinations	Events	Patient Details	Health Status Guide	Cumbria Summary	

Current Medication	Past Medication	Medication Issues
Last Issue	Drug / Dosage / Quantity	

Acute Medication

25-Sep-2008	Cilest 250microgram / 35microgram tablets (Janssen-Cilag Ltd), AS DIRECTED, 126 tablet
-------------	--

Repeat Medication

30-Nov-2007	Prochlorperazine 5mg tablets, ONE TO BE TAKEN THREE TIMES A DAY, 84 tablet
25-Sep-2008	Tramadol 50mg capsules, ONE TO BE TAKEN FOUR TIMES A DAY, 120 capsule(s)
25-Sep-2008	Oramorph 10mg/5ml oral solution (Boehringer Ingelheim Ltd), 2.5 -5 MLS 4 HRLY AS REQUIRED, 100 ML
25-Sep-2008	Venlafaxine 150mg modified-release capsules, ONE TO BE TAKEN EACH DAY, 28 capsule(s)
25-Sep-2008	Morphine 60mg modified-release tablets, ONE TO BE TAKEN TWICE A DAY, 60 TABLET(S)
27-Jul-2007	Fexofenadine 180mg tablets, ONE TO BE TAKEN DAILY, 30 tablet(s)
25-Sep-2008	Paracetamol 500mg tablets, TWO TO BE TAKEN FOUR TIMES A DAY AS REQUIRED, 200 tablet(s)

Snomed code	PATA2159
Prescription Date	06-Sep-2000
Date Authorised Until	21-Oct-2008
Issue Date	25-Sep-2008
Number of Issues	40
Number of Authorised Issues	0
Additional Instructions	Not known
Status of medication	Current
Person recorded	Dr Geoffrey Edwards
Role of person	Health Care Support Worker
Organisation name	EMISWebCR1 50005
Organisation id	A00005
Time recorded	06-Sep-2000

Leeds Innovation Lab

Leeds Lab- Idea

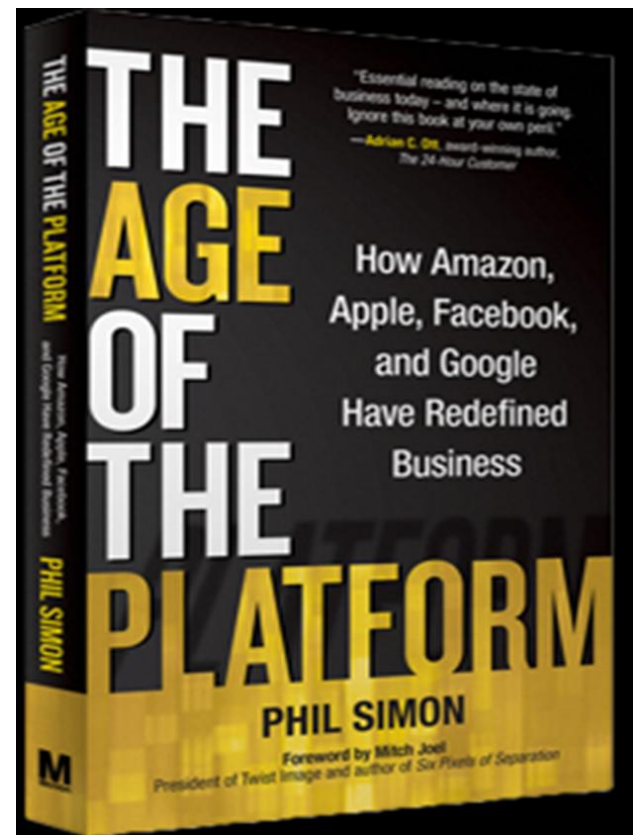
- Leeds Care Record
 - Open EHR Standard
- Leeds Lab
 - People + Process + Technology
 - Across Health & Social Care
 - Live2Lab and Lab2Live



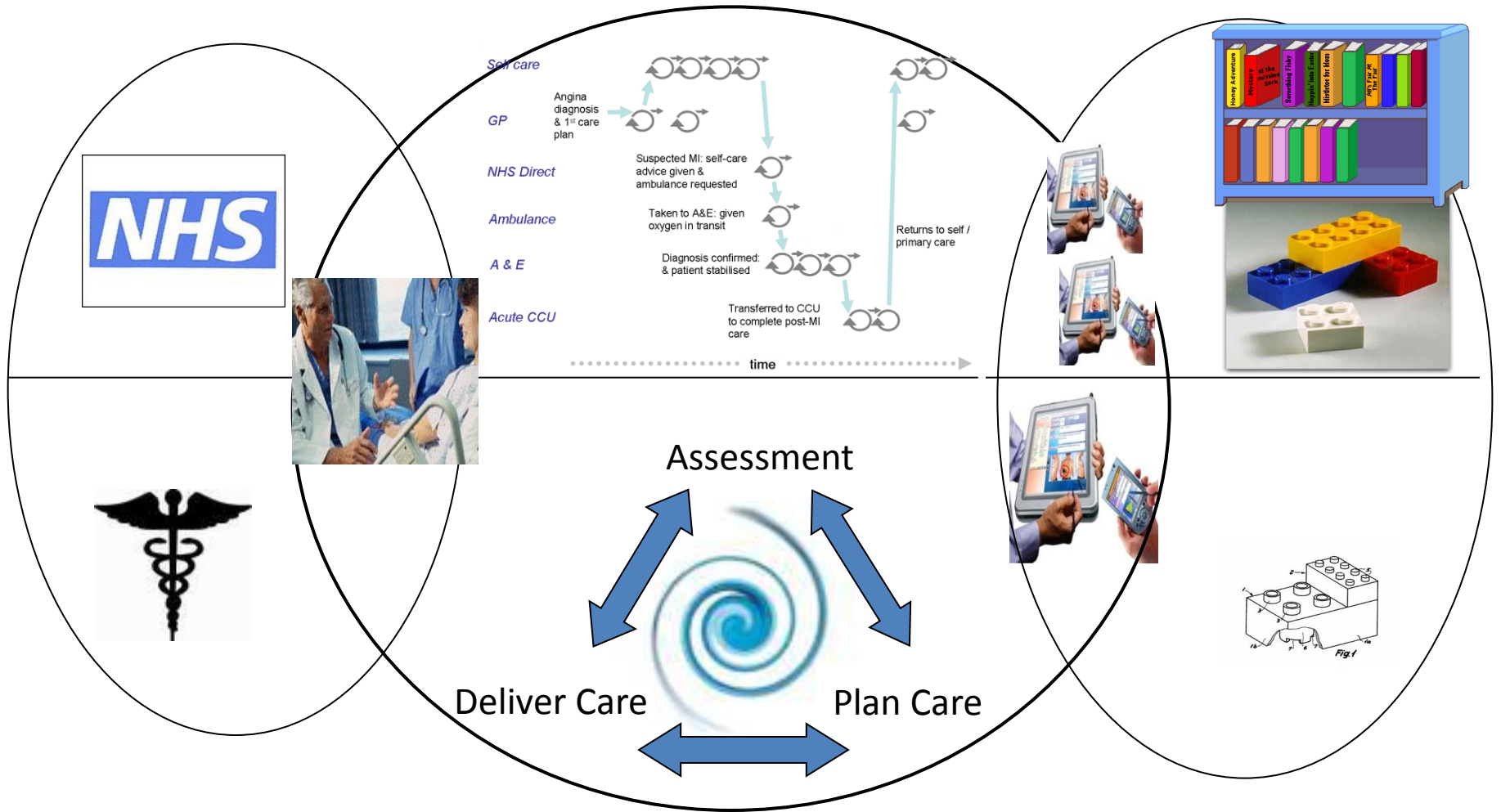
NHS eHealth – Platform required



HANDI
HEALTH APPS
CONFERENCE



21st Century Healthcare: Platform Required



Leeds Lab - People



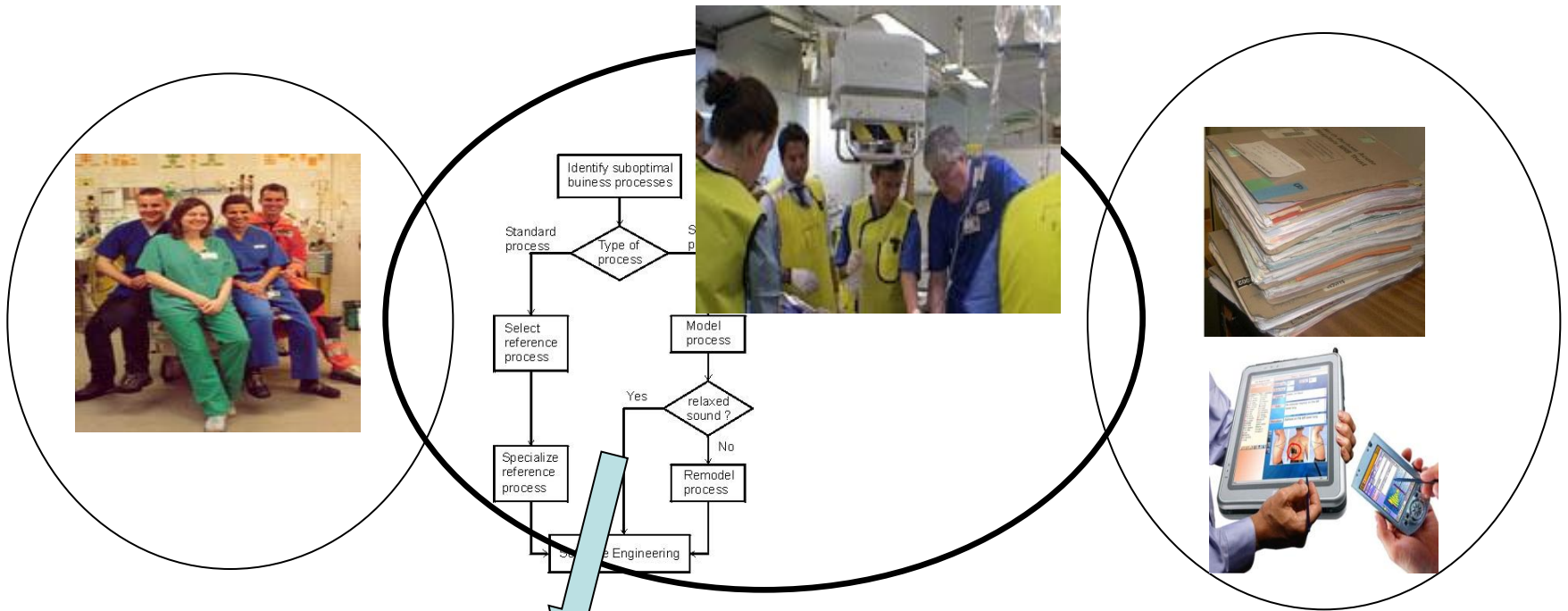
Leeds Lab- Process

- Usability at the Frontline
- Integration of Data
- Business Intelligence
- Clinical Decision Support
- Cross Organisational Workflow

Leeds Lab- Technology

- OpenEHR Standards Based Platform
- Open NHS APIs

Leeds Lab: People + Process + Technology



Value = Quality ↑

Risk ↓ Cost ↓ Time ↓

Leeds Innovation Lab

www.leedsilab.com/signup/index.html



Leeds Health Innovation Lab

Creating Enterprise, Growth and Innovation across Leeds

We would like to welcome you to the launch of the Leeds Health Innovation Lab.

The launch will take place on Tuesday 19 November 2013 from 12.30-5.00 at the Carriageworks, The Electric Press, 3 Millennium Square, Leeds, West Yorkshire LS2 3AD in the Millennium room.

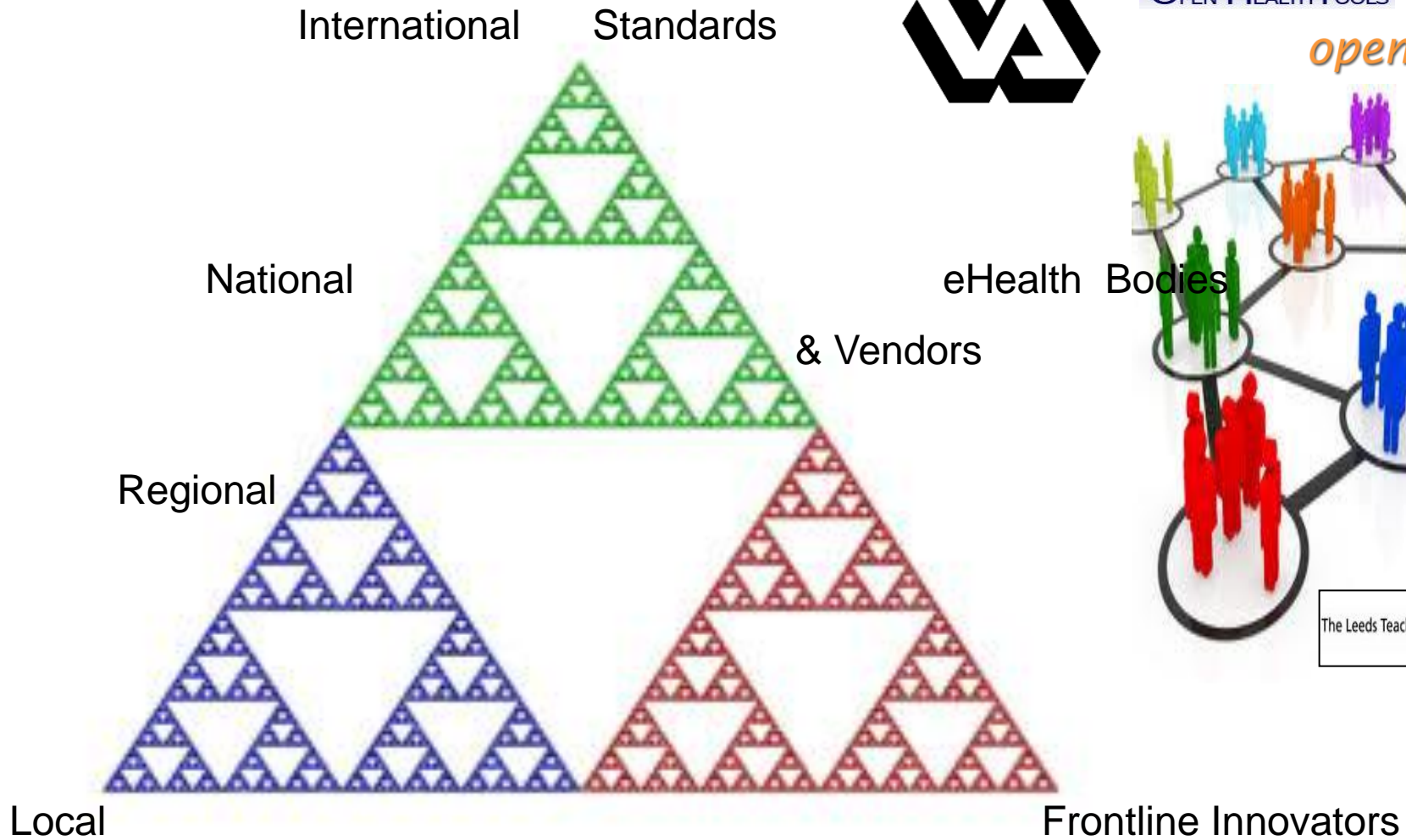
The afternoon will consist of a series of short presentations setting out what the lab will be but will also encourage participant to help shape how it will operate. We also plan to include a live demonstration of the data available and will also run a short hackathon at the end of the day for those interested in having a play with the first cut of the data.

The Leeds Health Innovation Lab is aimed towards a robust yet open platform in healthcare that we believe is now needed in the NHS. Closely related to the open source and open standards development that underpin the Leeds Clinical Portal and Leeds Care Record, the underpinning architecture of the Leeds Health Innovation Lab is based on the internationally recognised openEHR architecture.

You may be interested in related writings by Dr Tony Shannon,

powered by
launchrock

An Evolving Ecosystem....



openEHR

eHealth Bodies
& Vendors

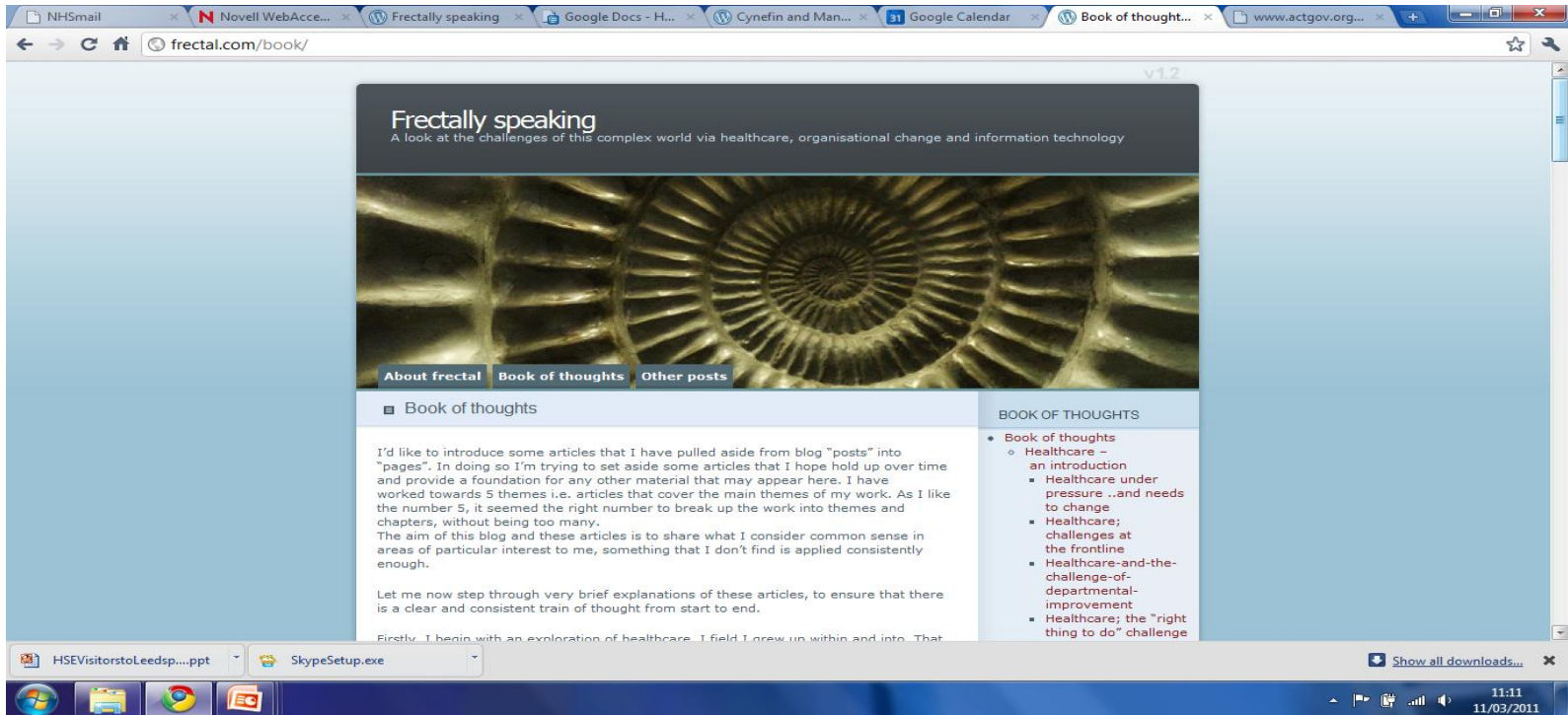


Frontline Innovators

Leeds Lab Intro

- People
 - How I am & Why I'm here
- Process
 - Whats we've done
 - What we need to do
- Technology
 - Leeds Clinical Portal
 - Leeds Care Record
 - Leeds Lab

Thank you



tony.shannon@leedsth.nhs.uk

www.frectal.com

@frectally