

INTEROPen on FHIR - A Patient Safety Story



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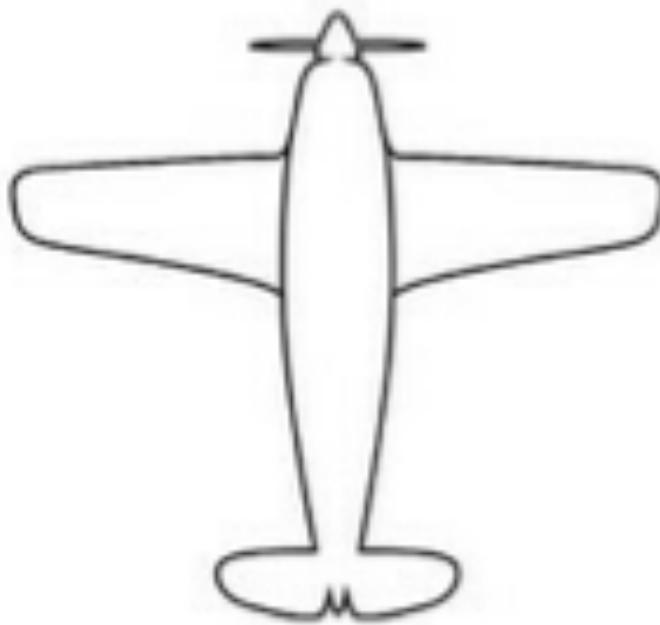
How much of £26.1bn is due to lack of interoperability?

- March 2015: NHS Litigation Authority set aside **£ 26.1 billion** to cover outstanding negligence liabilities.
- Being OPEN with data
- SHARING INFORMATION
- LEARNING from mistakes is not a drain on resources
- IT'S the most effective way of safeguarding resources – and lives



INTEROpen

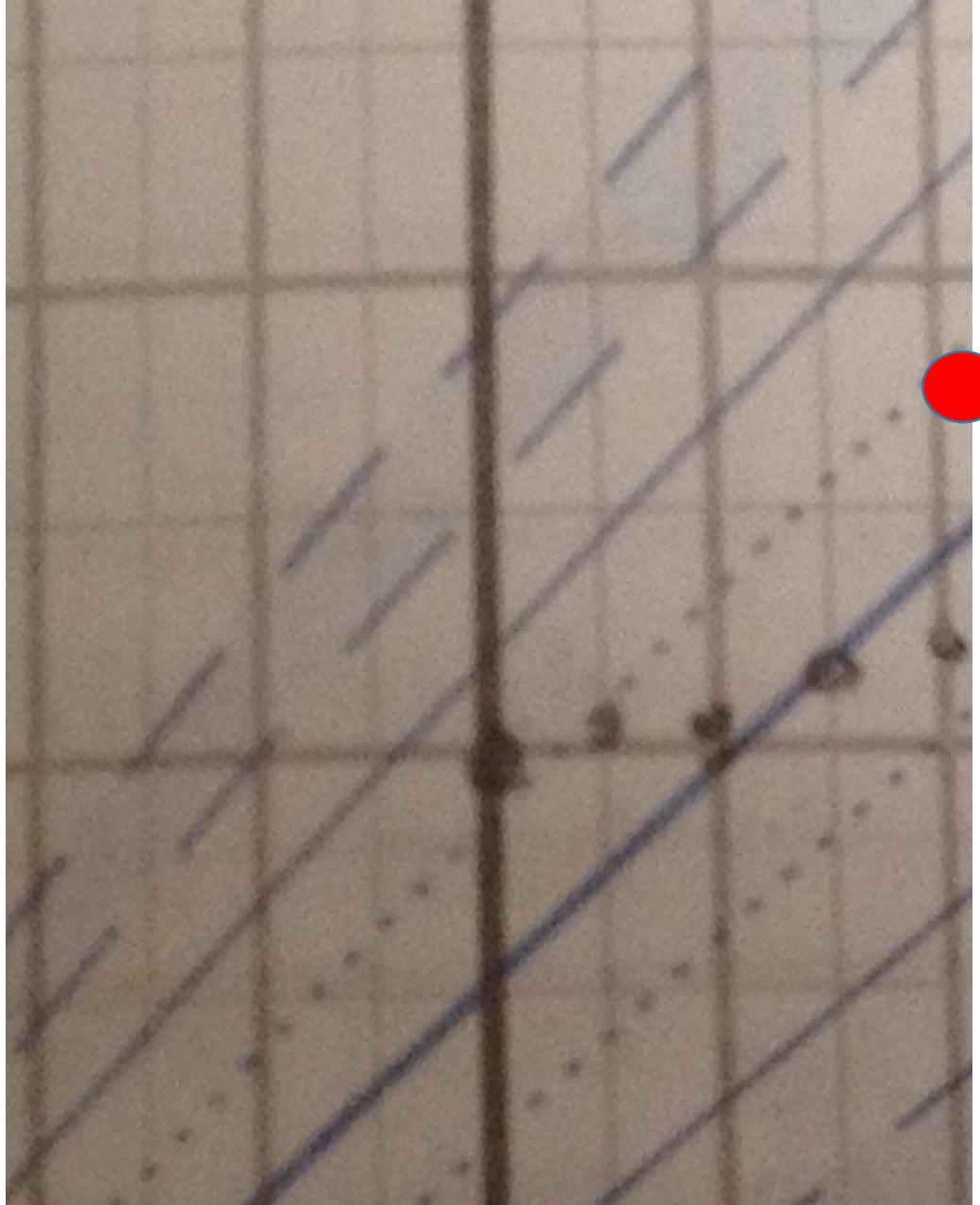
YOUR DATA CHALLENGE





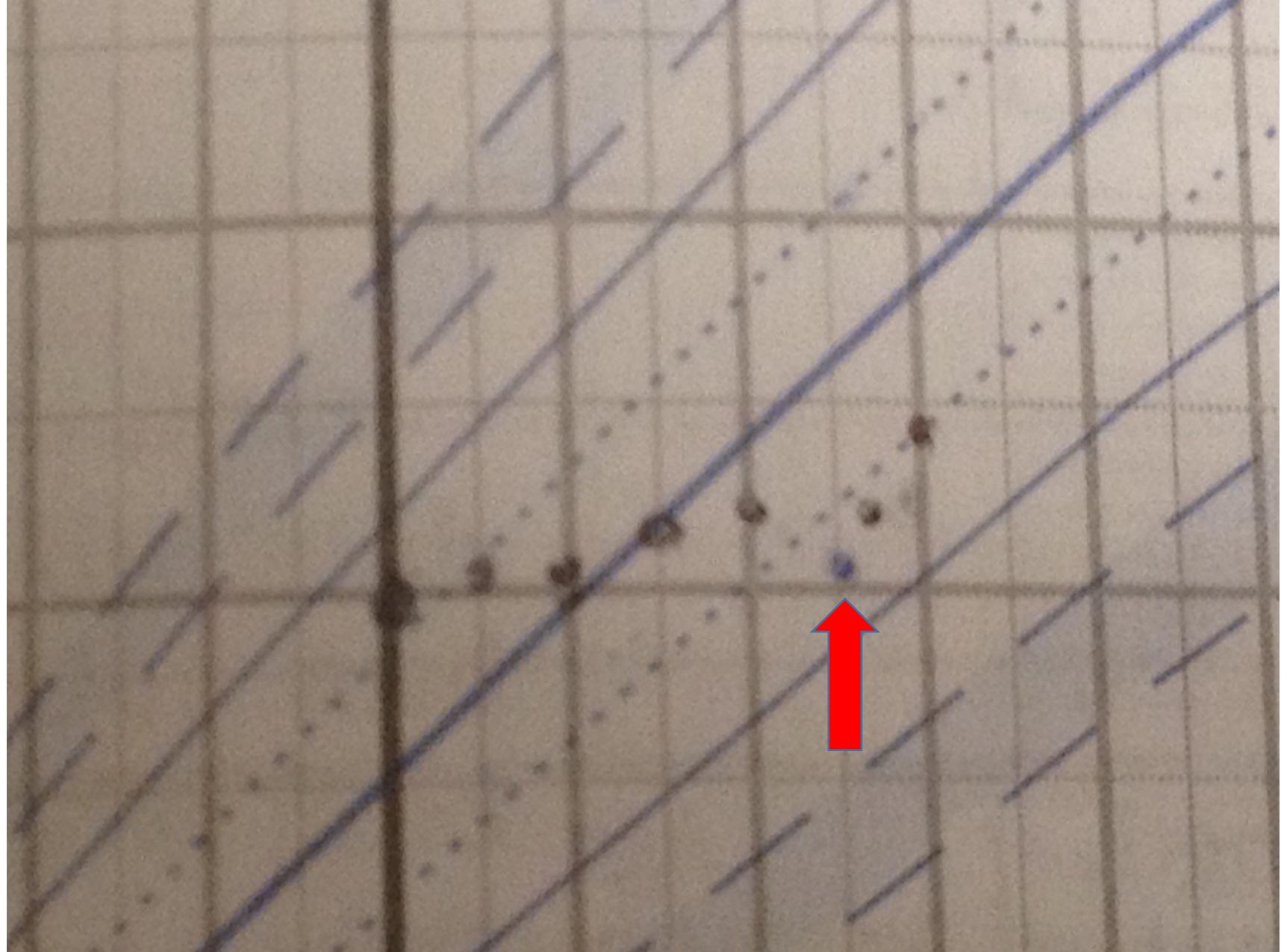


INTEROpen





INTEROpen





techUK's Interoperability Charter

WEDNESDAY

29

JUL 2015

NEWS

techUK's Interoperability Charter

Sign up to techUK's Interoperability Charter which sets out key principles to enable the change needed to deliver better integrated health & care.



Suppliers will achieve this by committing to five key principles:

3. We will not reinvent the wheel and will use internationally recognised standards where relevant.

The 'Newcastle Declaration' – why citizens need far better information sharing across health and social care.

CCIOs issue Newcastle Declaration



1. Complete, accurate and timely information fundamentally underpins safe and effective health and social care.
4. Wherever interface or message standards exist, and those standards are fit for purpose, suppliers must adopt those standards. Where standards do not exist, suppliers must collaborate with stakeholders to produce a consensus set of interfaces and messages.
5. Suppliers and healthcare providers must ensure the flow of data. It is unacceptable for any supplier or healthcare provider to impede the flow of citizen's health and care data for narrow organisational, commercial, or other reasons

"We declare that, in order to provide safe and effective health and care for all citizens, health and care professionals require unimpeded access to all relevant information available on those they care for.

MID..2015



**Focused on the
technical elements of
interoperability**



**Focused on the flow of
patient data across the
care continuum**

VENDOR DELIVERY GAP



INTEROPen

INTEROPen

@INTEROPenAPI

Leading organisations supporting patients clinicians & new care models. Accelerating the delivery of **#Interoperability #OpenStandards** in health & social care

 interopen.org

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INTEROPen @INTEROPenAPI · 14/07/2016

58 **#tech #vendors** drive **#patient**
#Interoperability #OpenStandards
#CollectShareUse @code4health **#NHS**
#FHIR #DHSS16



INTEROPen

A|D Vault

Advanced Health and Care

Allocate Software

Allscripts

Answer Digital

Atos

Blackpear

BT

Cambio+ Healthcare Systems

Capita Health Partners

Cerner

CGI

CharityLog

CommonTime

CSC

Docman

Egress

Emis Health

Elsevier

Endeavour Health

Enovacom

everyLIFE Technologies

Forcare

GPC

Graphnet Health

Health Intelligence

Health Linked

Healthcare Gateway

Health Fabric

HealthForge

Huawei Technologies (UK) Co

IMS MAXIMS

INPS

Intelesant

InterSystems

JAC Computer Services

Medelinked

Microsoft

Optum International

Orion Health

Patients Know Best

Quicksilva Systems Integration Solutions

Red Embedded Systems

Ripple

SCC

SiteKit

Solutions4Health

Stalis

Sunquest Information Systems

SystemC

Targett Business Technology

Tiani Spirit

TotalMobile

TPP

Trustmarque

Virgin Media Business

Wiggly-Amps

Your.MD

****JOIN suppliergroup@interopen.org****



INTEROPen

ABOUT THE DELIVERY

techUK INTEROPERABILITY CHARTER

NEWCASTLE DECLARATION

NHS NEW MODELS OF CARE (FYFV)

NHS PERSONALISED HEALTH & CARE



Michael

Connectathon: Michael's Journey: in FHIR standard

58yrs old | Diabetes (insulin) | Alcoholism | Liver disease | Anxiety

Triggered care episode -> multiple care domains [+ patient facing]

<http://www.interopen.org/events>



PRSB
PROFESSIONAL RECORD STANDARDS BODY
for health and social care

FHIR PROFILE CURATION METHODOLOGY [CareConnect Profiles]

Two streams

1] Cross Care Domain Profile Curation Process [INTEROPen Vendors]

Iterative Process [80:20] for content

Versioning | API calls | Authentication | Consent

2] PRSB for clinical validation in context of Michael [+ other cases]

TRANCHE 1 FHIR

Problems/Conditions

Medications (4)

Allergy

Observations/Vital Signs

Procedures

Immunisations

Encounters (Consultations)

Tasks and Notes

Appointments

ERS/Non ERS Referrals

We are OPEN



MEMBERSHIP@INTEROPEN.ORG



Leading organisations and individuals have come together to create INTEROPen, an action group to accelerate the development of open standards for interoperability in the health and social care sector.

[Learn more »](#)

Upcoming events

28 SEP [BCS - Fast Healthcare Interoperability: What you need to know about how HL7 FHIR® is changing the game](#)

TBA [INTEROPen 5](#)

[View full events list »](#)

INTEROPen 4 was held on 5 July

News

12 Sep [CareConnect Candidate FHIR profiles online](#)

12 Sep [PRSB clinical validation of FHIR profiles](#)

12 Sep [Proposal for INTEROPen to "OPEN" its membership](#)

12 Sep [Welcome Liam King, from Healthcare Gateway](#)

[View all news »](#)

In the media

6 Sep [Calling the FHIR brigade](#)

Tweets

INTEROPen Retweeted



Philip Scott
@DrPScott

@HL7UK @HL7 @ProfRecordsSB
@INTEROPenAPI great week at #HL7 in #Baltimore including "clinicians on #FHIR" this morning - well done all!





SEARCH

NOTIFICATIONS

POST STREAM

OPEN FORUMS (8)

FHIR Profile Curation

*Introductions

PROFILE-Medicatio...

All Hands

WEBINARS

PROFILE-Problem

FHIR tooling

Web Site maintena...

Create forum

PRIVATE TEAMS (3)

Curation Team Care...

PRSB Problem Wor...

INTEROPen Executive

New team

DIRECT MESSAGES (146)

David Stables

Farzanah Nahid

Matt Stephens

Jonny Rylands

Hildi

wai2k

Welcome to the open forum **FHIR Profile Curation!**

Type a message below to start chatting with any joined members! All members and invited guests added to this forum will be able to see your messages.

Thursday, September 15th 2016**David Stables** Thu 6:22pm (edited)

All profiles for consideration by the INTEROPen community should be available on the Github repository at <https://github.com/HL7-UK/CareConnect-profiles/tree/develop>

**HL7-UK/CareConnect-profiles**

Contribute to CareConnect-profiles development by creating an account on GitHub.

[read more on github.com >](#)**David Stables** Thu 6:28pm

The methodology for contributing to profiles is described in <https://github.com/HL7-UK/CareConnect-methodology>

**HL7-UK/CareConnect-methodology**

Contribute to CareConnect-methodology development by creating an account on GitHub.

[read more on github.com >](#)**David Stables** Thu 6:43pm

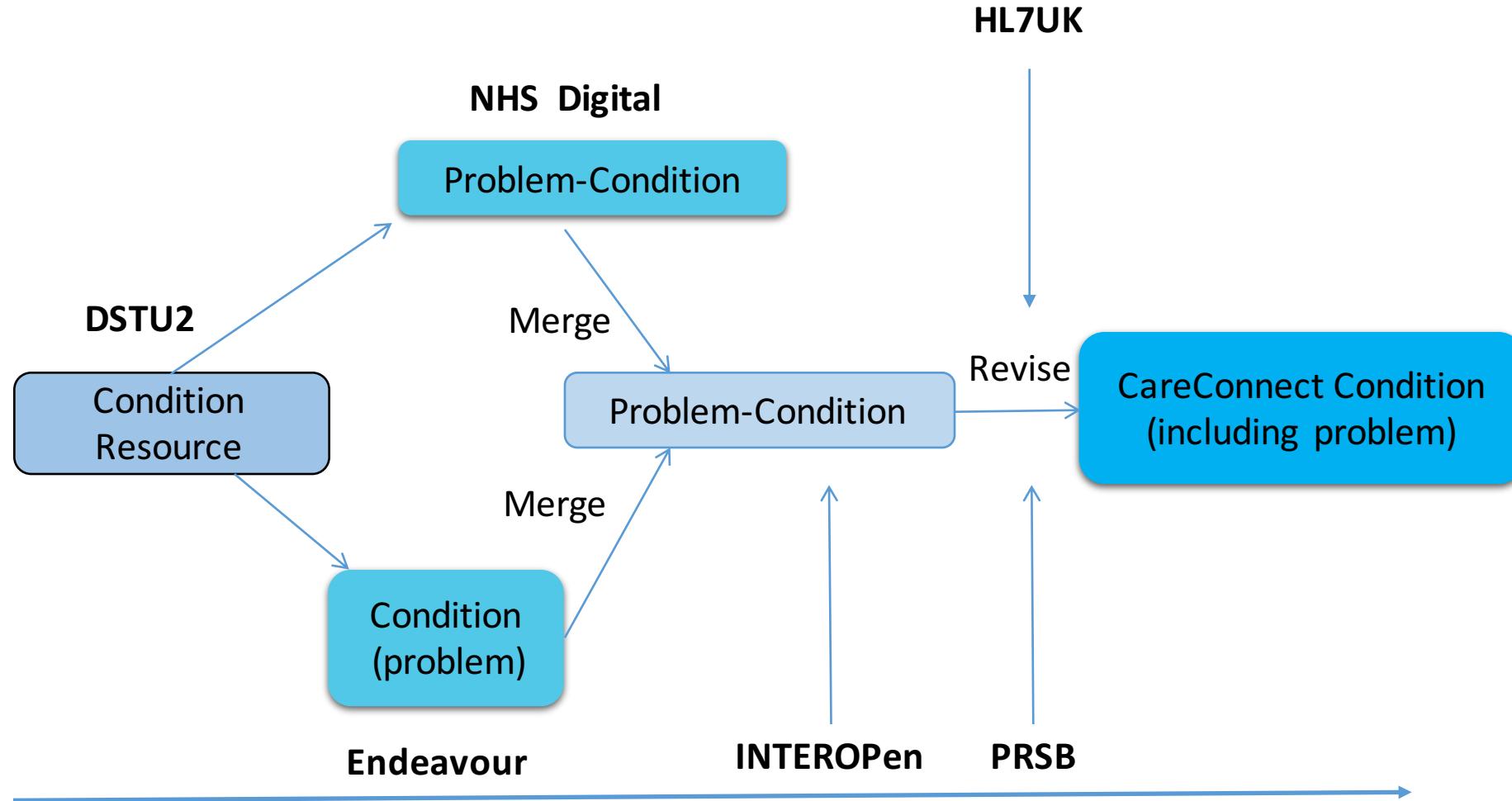
To summarise the process, members can branch and create pull requests containing proposed changes to one or many profiles and make them available for viewing via the INTEROPen web site which will be updated to point to your profiles using one of the available viewers such as the in house viewer, simplifier or ClinFHIR

Thursday, September 22nd 2016**David Stables** Thu 7:21am

Folks.. Important change in that the "problem-condition" profile in the convergence group has now been removed and replaced with Condition that includes an additional category code for "problem" together with the episode indicators (First, new etc) On INTEROPen Full Consideration is given to the new specification and from the Web site contains 3+2 in mind and the title Change the



Problem profile History

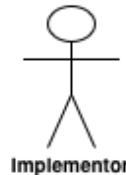




Michael



Contributors develop profiles within own domain of interest



Implementors use profiles within own domain of interest

