

NYHDIF 2018

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Nov 2018



NHS
England



vodafone UK 16:02 19%

Take a look at this picture of 5th Avenue in New York in 1900. Can you spot the car?



Now look at this picture from 1913. Yes, this time where's the horse?



Philip Graham @PhilipGrahamNHS · Oct 10
Saw this today and thought it worth a tweet... this is a fun little technology in pictures....
Faster Horse? Why not? ... I hope it takes less than 13 years to see the Library of Congress!!!!
#SeeYouInTheFuture



The first time a **railway** used a true steam locomotive running on rails **was** the Liverpool to Manchester **railway** in 1830. ... Indeed, the **owner** of the **canal** had opposed the **railway** to protect his **investment**. 28 Jan 2018

Digital Child Health

NHS
England



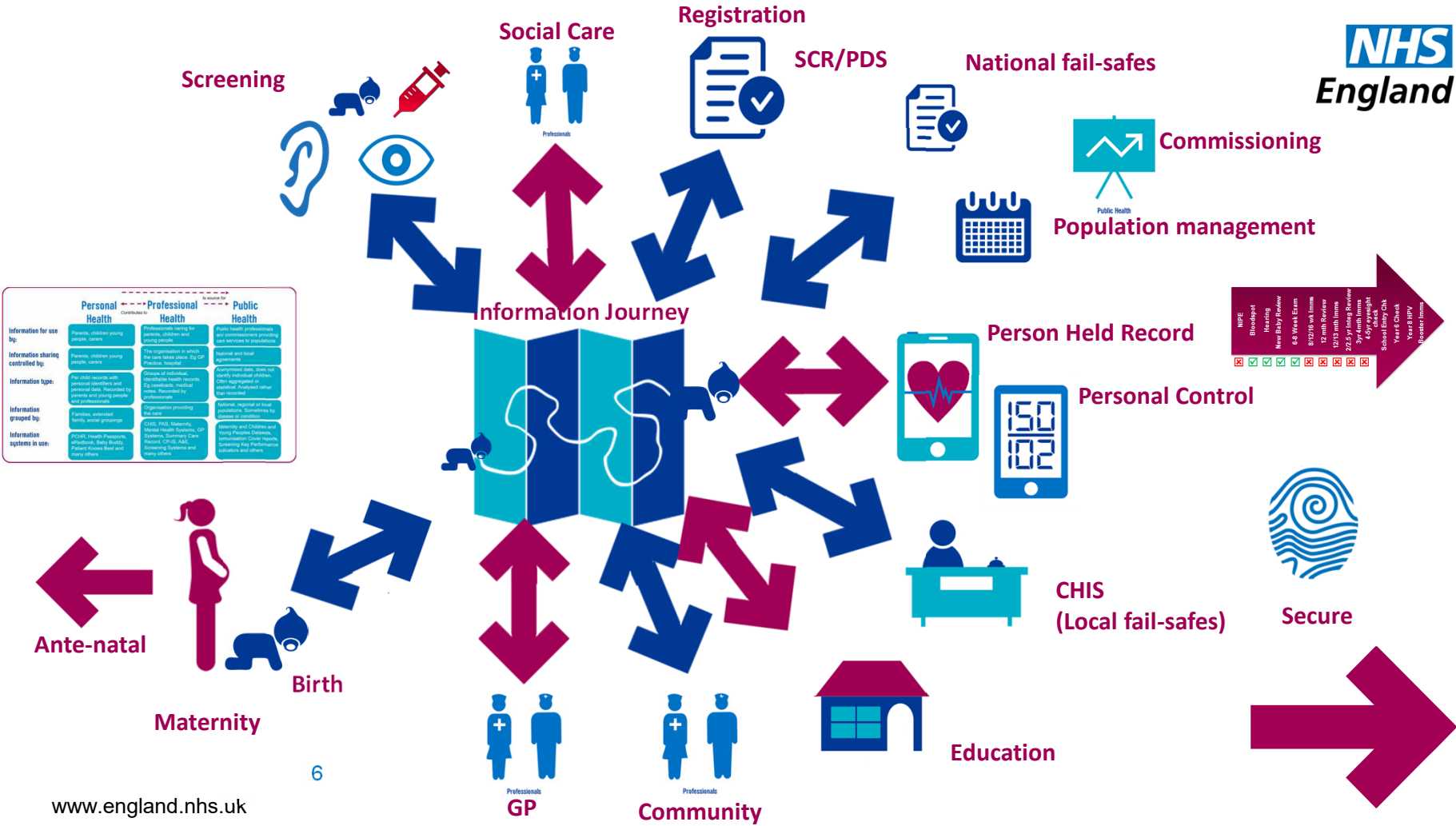
Strategy

<https://www.england.nhs.uk/digitaltechnology/child-health/>

- To know where every child is
- And how healthy they are
- And what are we doing about it?

NHS
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	Personal Health	Professional Health	Public Health
Information for use by:	Parents, children, young people, carers	Professionals caring for people, children and young people	Public health professionals and commissioners providing care services to populations
Information sharing controlled by:	Parents, children, young people, carers	The organisation in which the work takes place, e.g. GP Practice, hospital	National and local agencies
Information type:	For child records with parental data. Records by parents and young people. GP professionals	Case notes, records, identifiable health records. 12 month, medical notes. Recorded by professionals	Aggregated data. Does not identify individual children. Often aggregated or anonymised. National cancer data recorded
Information grouped by:	Parents, children, young people, carers	Organisation providing the data	National, regional or local population. Sometimes by gender or ethnicity
Information systems in use:	CHS, Health Passports, MyBook, Baby Health, Infant Home Exam and Baby Online	CHS, NHS, Maternity, Mental Health Systems, GP Systems, Summary Care Record, CPAS, ABC, Screening Systems and Baby Online	Identify and Children and Young Peoples Database, Immunisation Central, Screening Key Performance Indicators and others

Review Type	Review Status
NICE	✓
Blueprint	✓
Healthcare	✓
New Baby Review	✓
6-8 Week Exam	✓
8-12 16 wk Exams	✓
12 mth Review	✓
12-13 mth Exams	✓
20-24 mth Review	✓
24-30 mth Review	✓
30-36 mth Review	✓
School Entry Chk	✓
Year 6 Check	✓
Year 8/9/10	✓
Annual Exams	✓

Personal Health

Info for use by: Parents, Children, Young People, Carers

Info sharing controlled by: Parents, Children, Young People, Carers

Info type: per child records with personal identifiers and personal data. Recorded by parents and young people and professionals

Info grouped by: families, extended family, social groupings

Info Systems in use: PCHR, Health Passports, eRedbook, Baby Buddy, Patient Knows Best and many others

Professional Health

Info for use by: professionals caring for parents, children and young people

Info sharing controlled by: the organisation in which the care takes place, e.g. GP practice, hospital.

Info type: groups of individual, identifiable health records e.g. caseloads, medical notes. Recorded by professionals

Info grouped by: organisation providing the care

Info Systems in use: CHIS, PAS, Maternity, MH Systems, GP Systems, SCR, CP-IS, A&E, Screening Systems and many others

Public Health

Info for use by public health professionals and commissioners providing care services to populations

Info sharing controlled by: national and local agreements

Info type: anonymized data, does not identify individual children. Often aggregated or statistical. Analysed rather than recorded.

Info grouped by: national, regional, or local populations. Sometimes by disease or condition

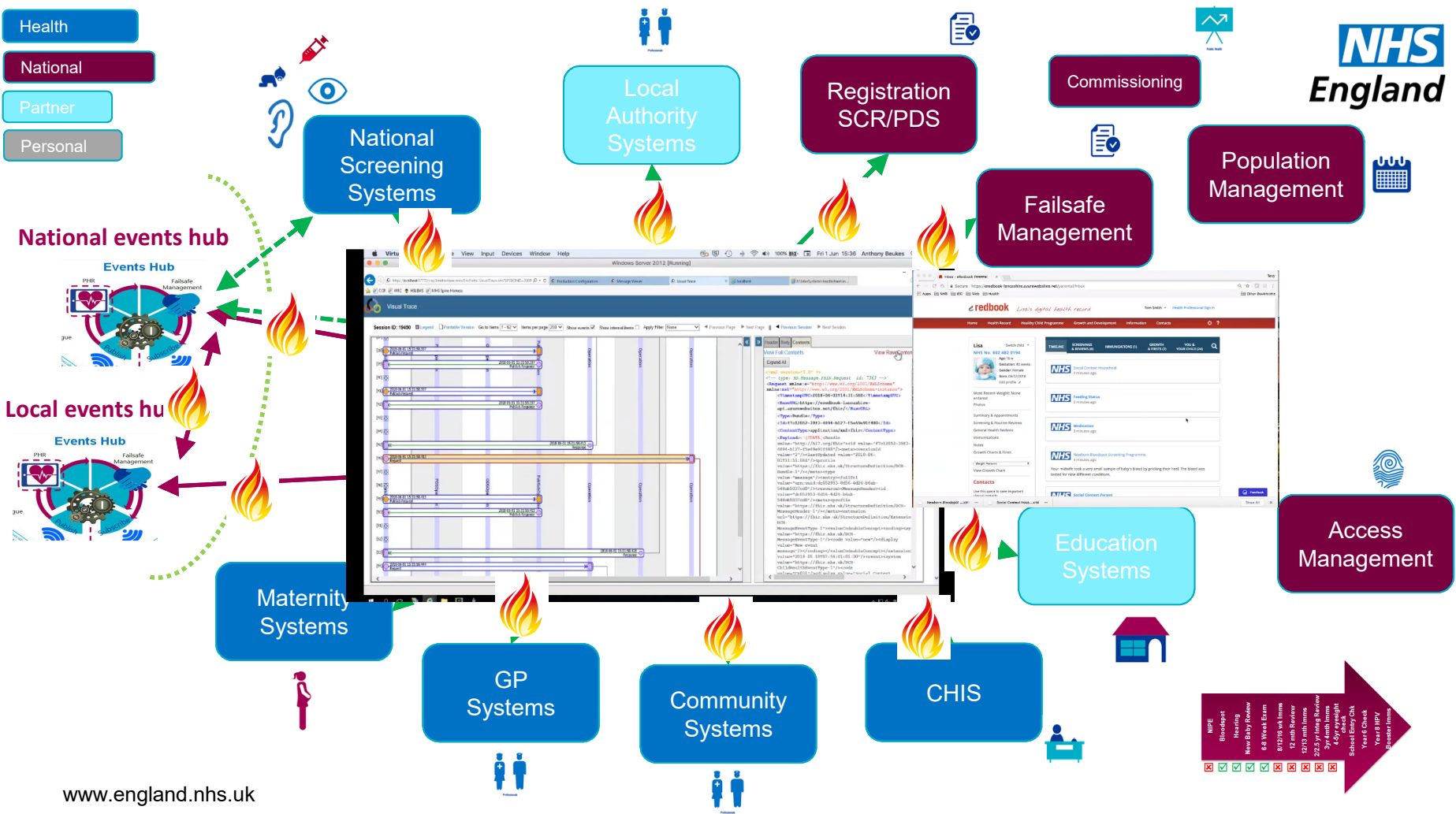
Info Systems in use: Maternity and Children and Young People's Datasets, Immunisation Cover reports, Screening Key Performance Indicators and others

Contributes to

Is source for



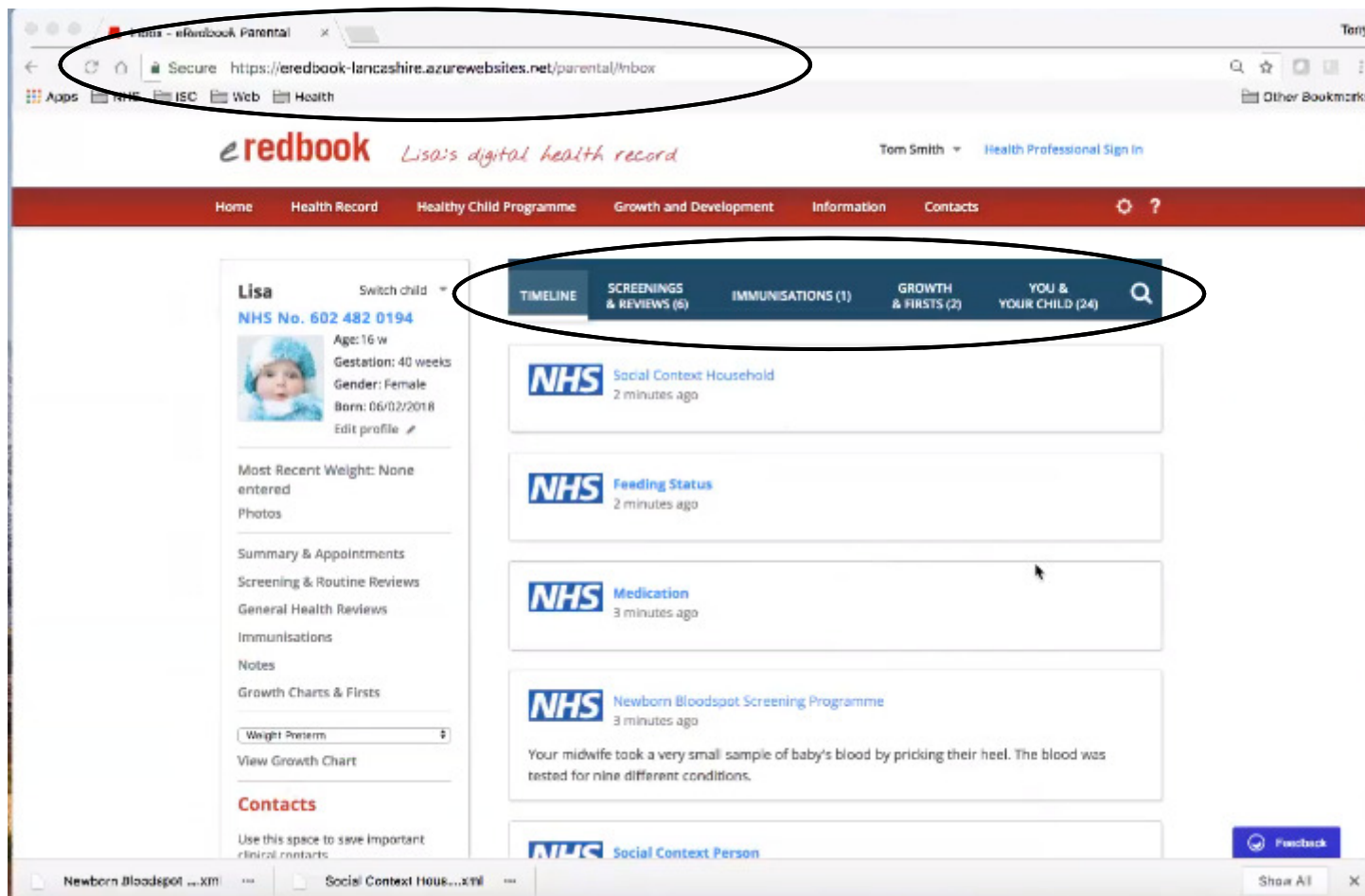
- Health
- National
- Partner
- Personal



www.england.nhs.uk

The screenshot displays a Visual Trace interface for a Windows Server 2012 VM. The top window shows the VM's desktop environment with a browser displaying a Visual Trace page. The main interface shows a sequence diagram for Session ID: 19450. The diagram illustrates a series of messages between participants, with a prominent orange message labeled 'Request' at the bottom. To the right, the 'Raw Contents' pane shows the XML body of the message, which is an HL7 v2.3 message. A cloud icon is overlaid on the top left of the interface, and a flame icon is overlaid on the XML content.

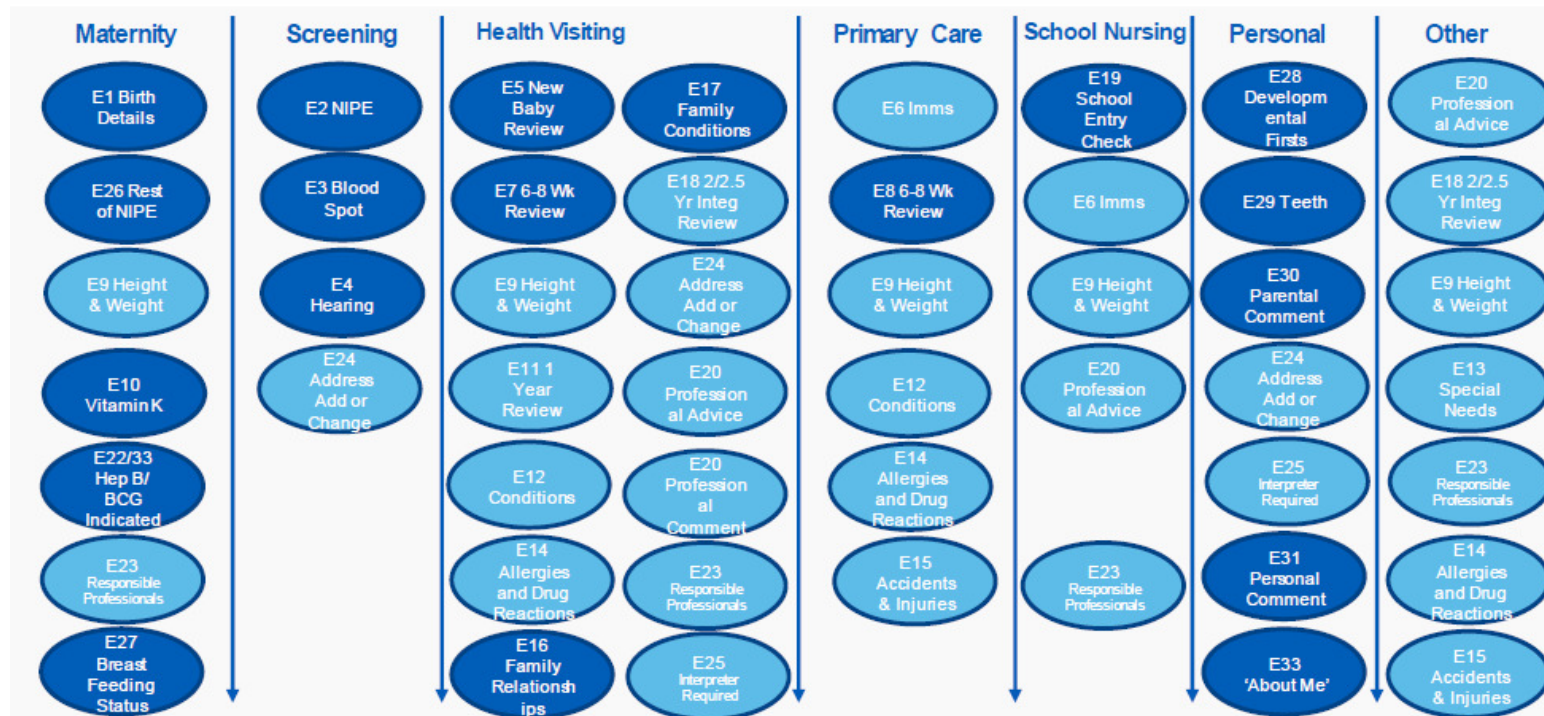
```
<?xml version="1.0" ?>  
<type M:Message.FHIR.Request id: 7363 -->  
<Request xmlns:a="http://www.hl7.org/2001/XMLSchema" xmlns:x="http://www.hl7.org/2001/XMLSchema" instanceid="TimeStampTC=2018-06-01T14:31:58Z" />  
<BaseURL>http://azadbook-lanzahize-azadwebsites.net/fhir/</BaseURL>  
<BundleType>  
<Id>fhir-01-2018-06-01T14:31:58Z</Id>  
<ContentType>application/xml</ContentType>  
<Payload><!--CDATA--<Bundle xmlns="http://hl7.org/fhir" ><id value="F012052-39E1-4894-b127-E569e91f48D"><meta-cversionid value="2"/><lastUpdated value="2018-06-01T14:31:58Z"/><value="https://</Bundle-1"/></meta value="urn:uuid:548ab5037ed0"/><value="d0f52953548ab5037ed0"/><value="https://</MessageHeader-1 url="https://fhir.nhs.uk/DCH-MessageEventType-1" valueCodeableConcept<coding><ay value="https://fhir.nhs.uk/DCH-MessageEventType-1" /><code value="new" /><display value="New event" message"/></coding></valueCodeableConcept></extension value="2018-05-18T01:56:01-01:00" /><event><system value="https://fhir.nhs.uk/DCH-ChildHealthEvent-1" /><code value="rs011" /></meta></Bundle-1" /></Payload>
```

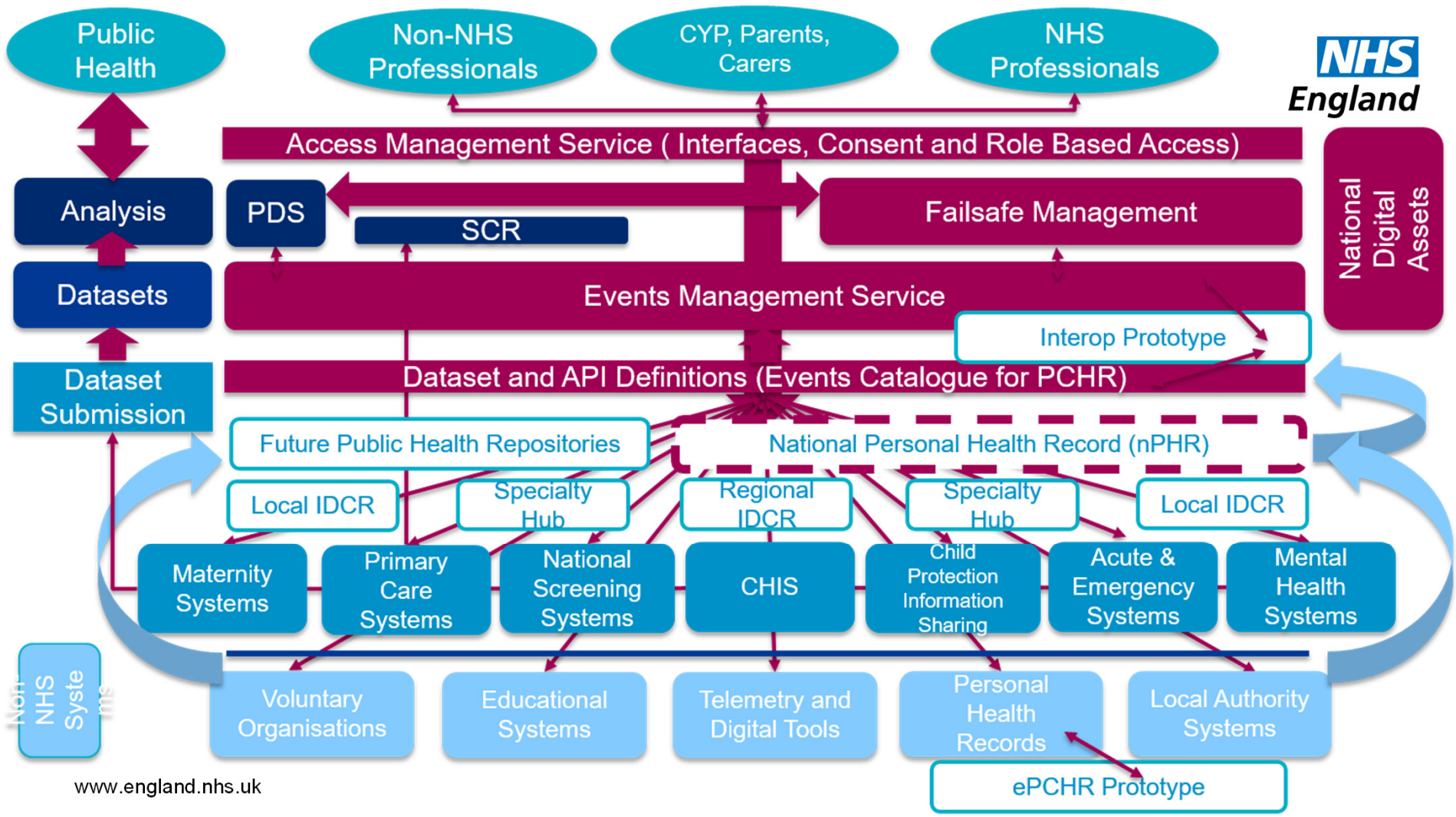


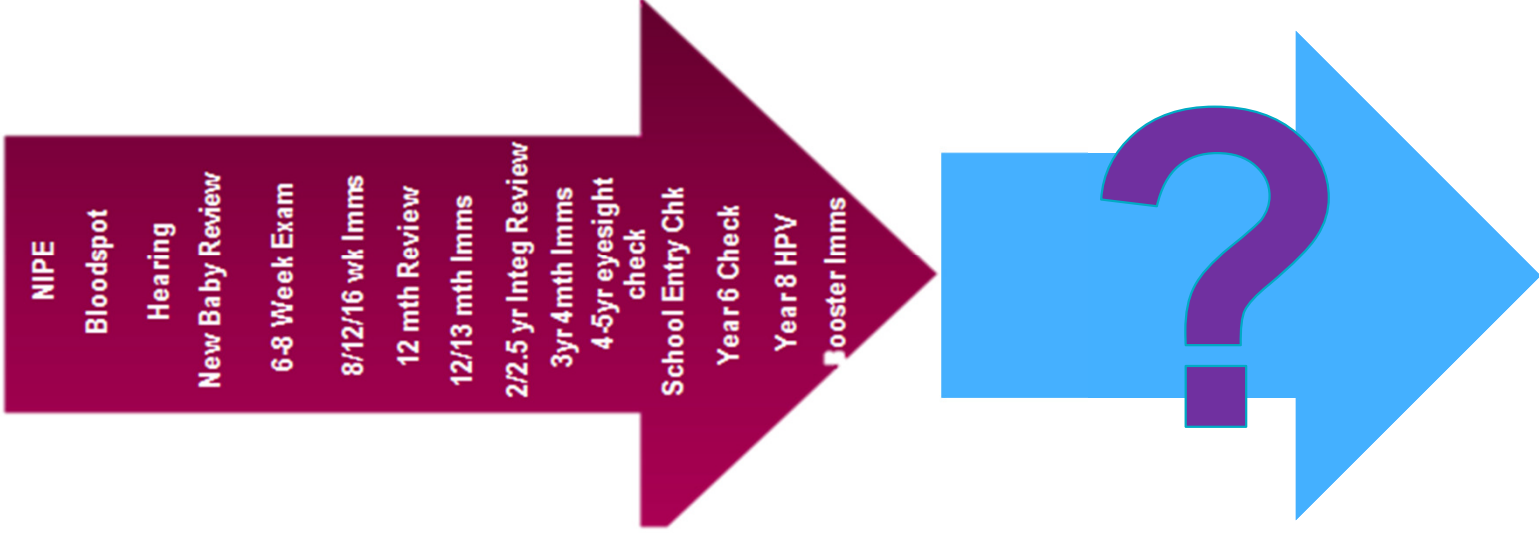
Event recorded once

Multiple Events across Systems

33 events in first interop layer





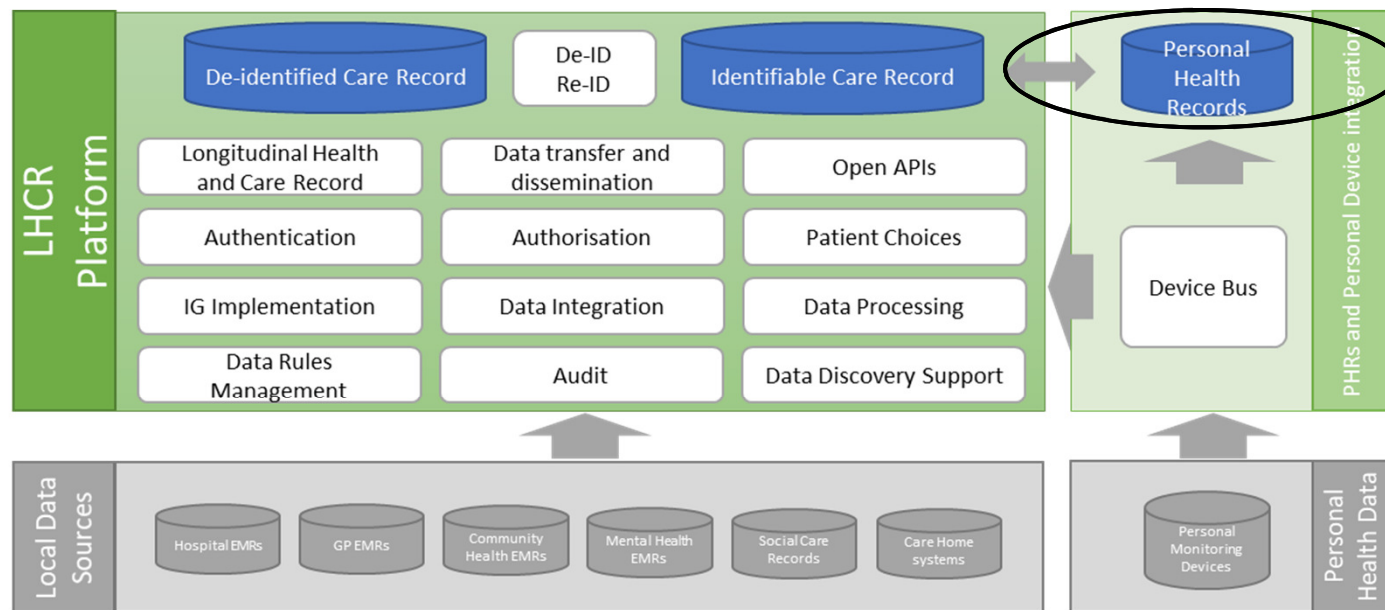


Strategic fit

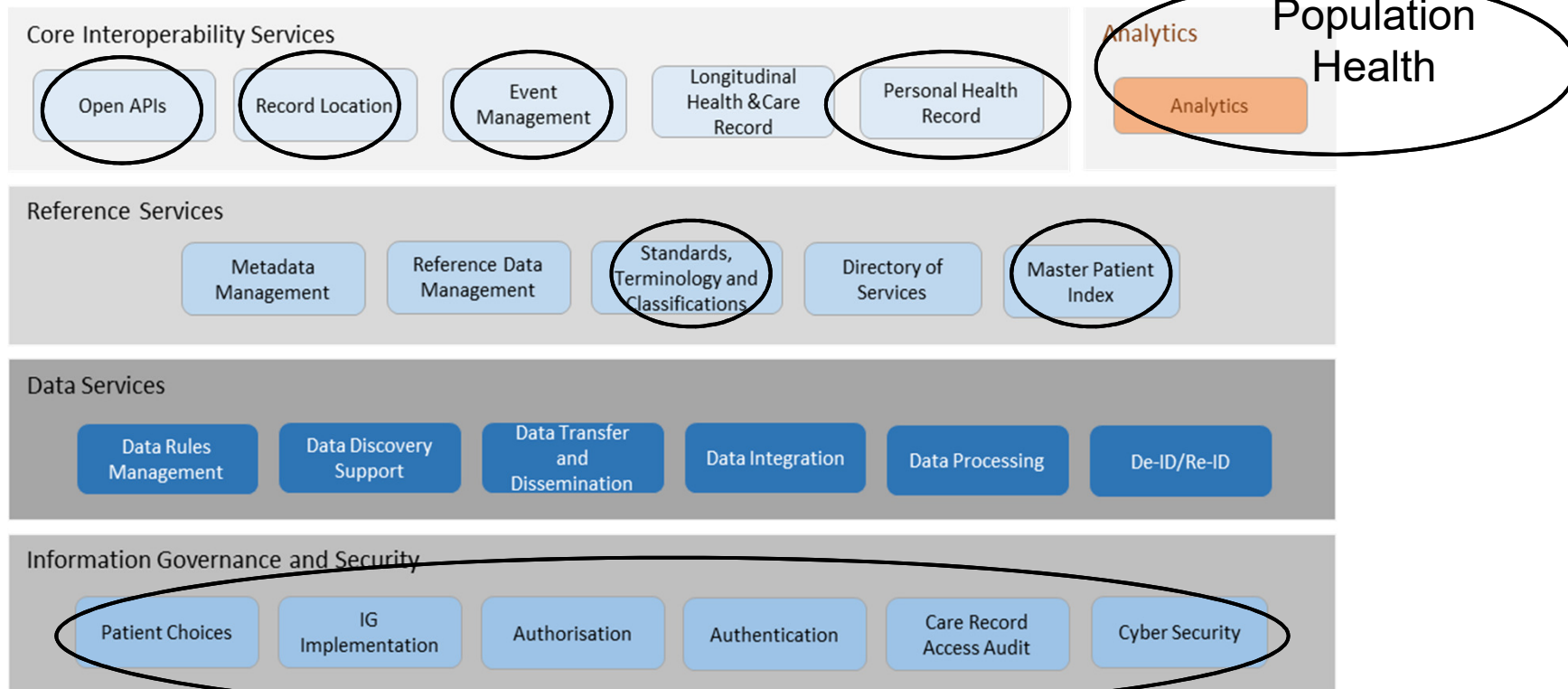
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LHCR Platform



Technical Capabilities

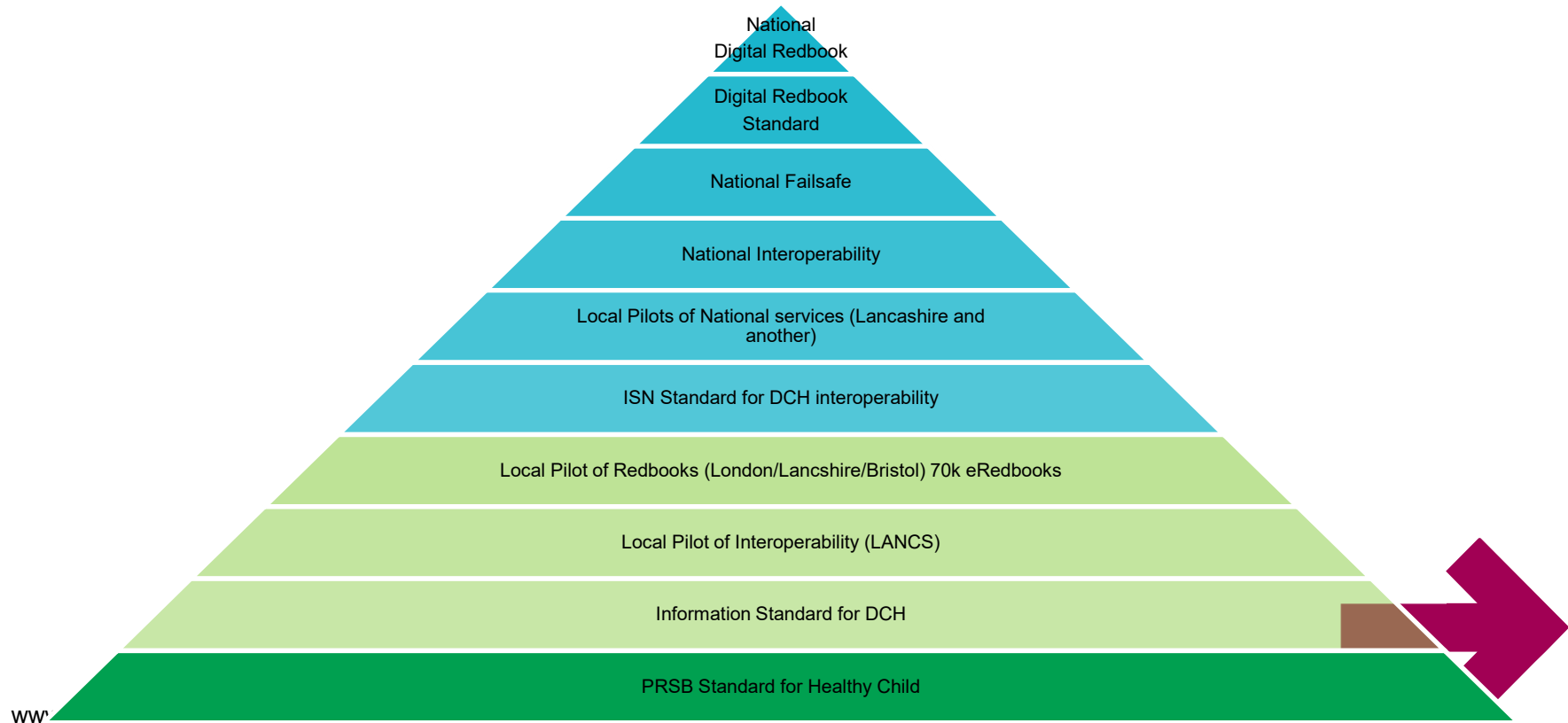


What next for DCH?

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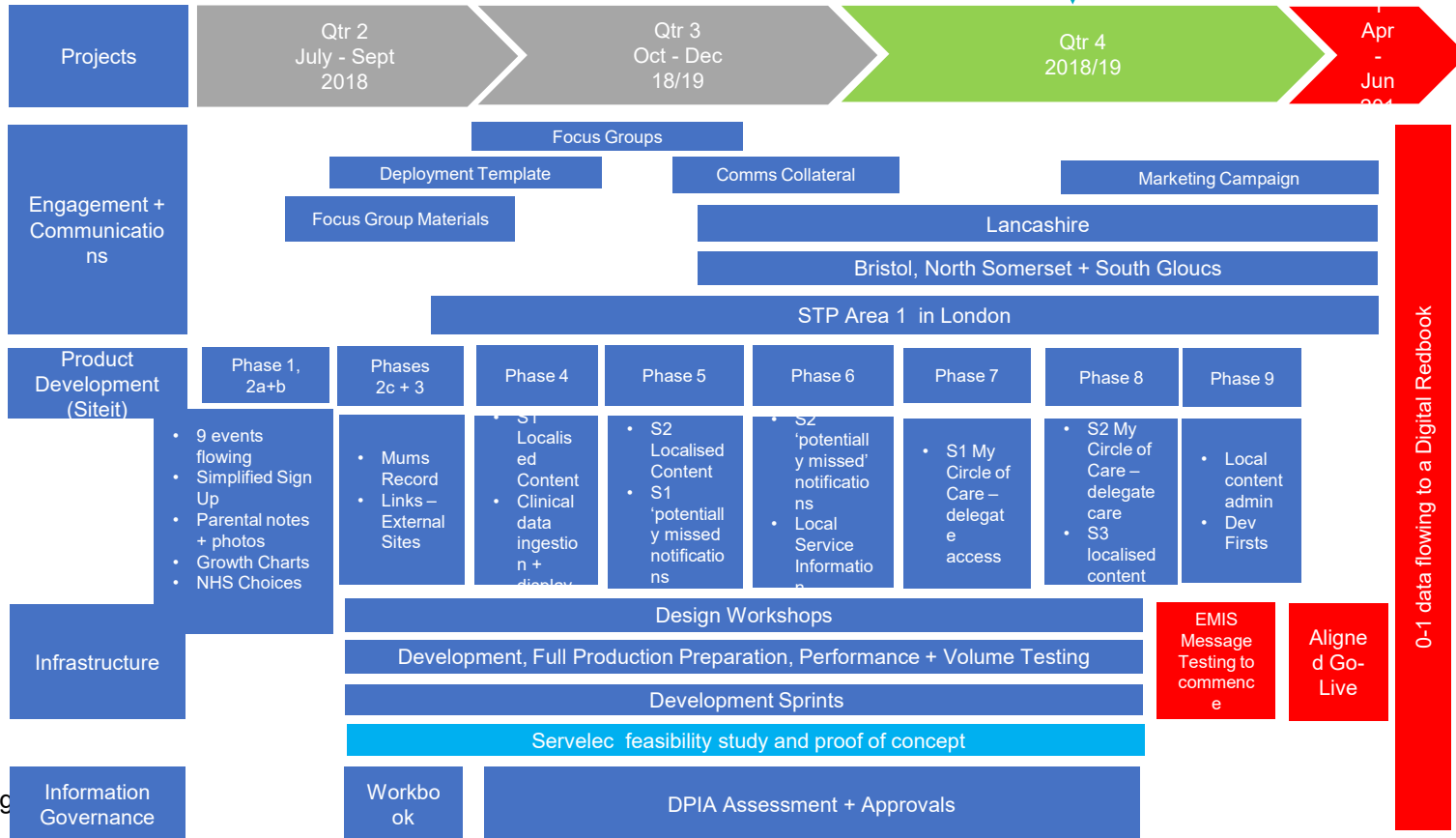
Pyramid of progress



18/19 Local Digital Child Health Programme Hi-Level Revised Programme Plan – Lancs, London and Bristol

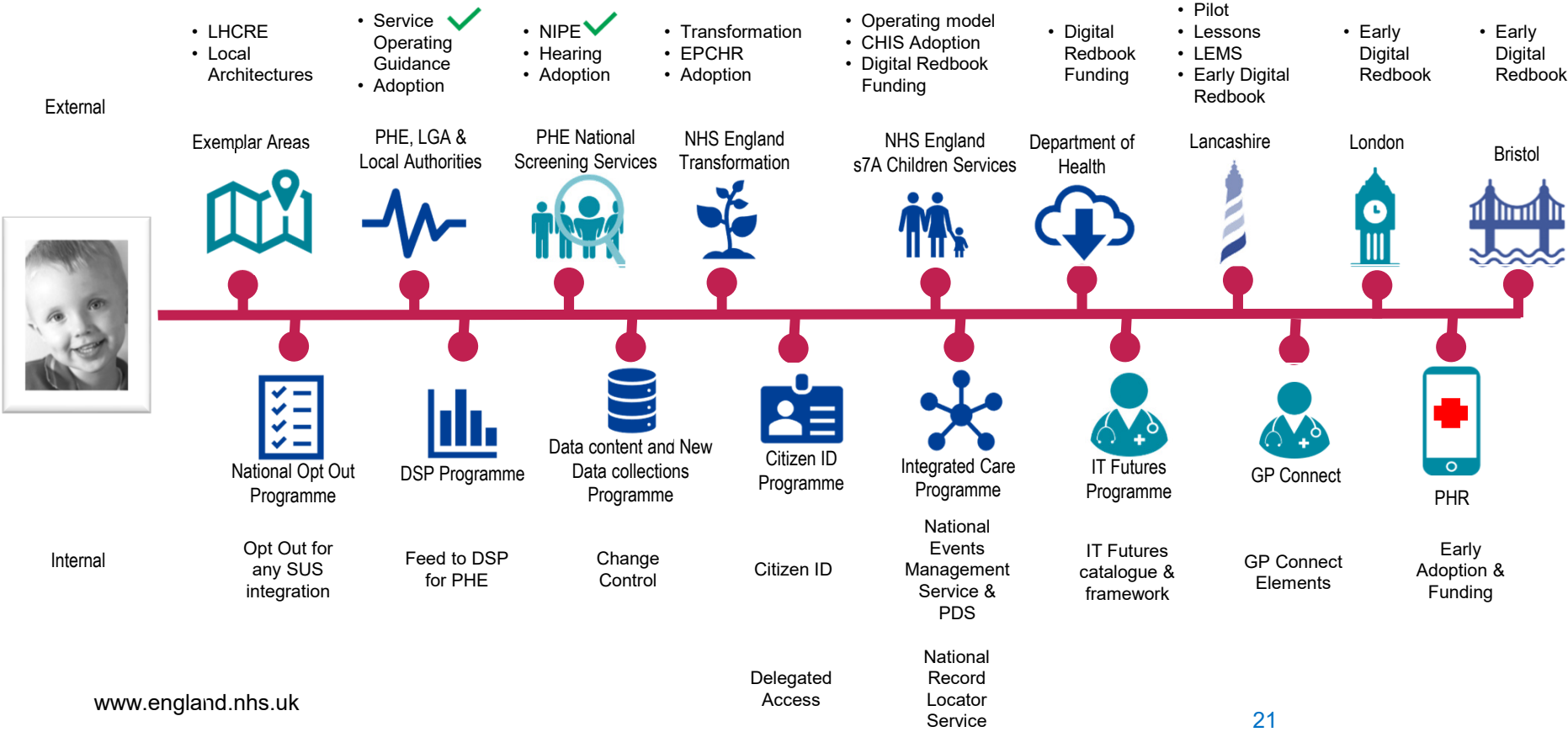


Target – Feb 2019



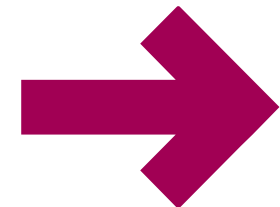
0-1 data flowing to a Digital Redbook

Dependencies



Key Dependencies for Revised Digital Redbook Plan

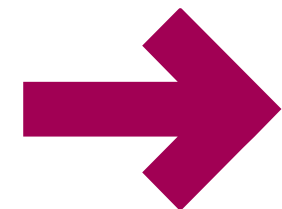
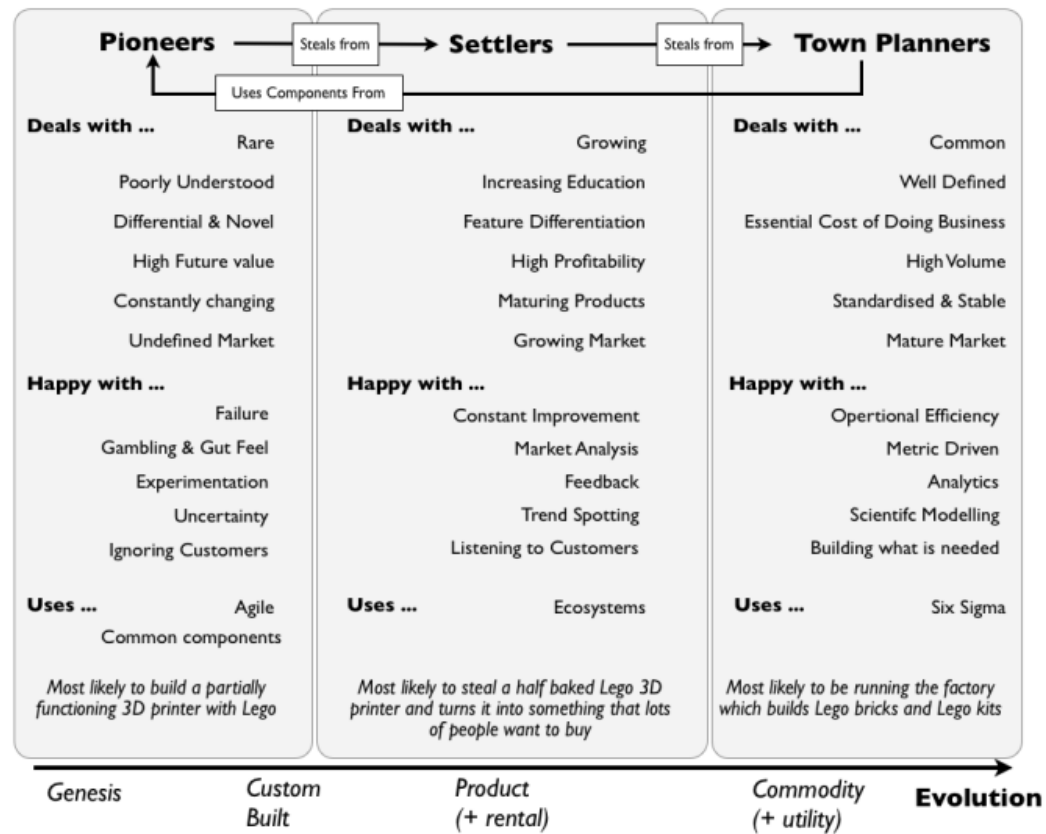
- EMIS messaging capability (Lancs & Bristol)
- FHIR messaging curation for clinical safety and national capabilities
- SiteKit software update
 - GDPR compliance
 - Product 'stickiness'
 - Will meet stated requirements from March 2019
- HV information digitisation (London)
- Approval of additional capital funding for 2019/20
 - For local activities



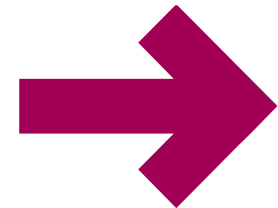
Leadership

- Pioneers
- Settlers
- Town Planners
- (S Wardley)





- Pioneers – Push the boundaries
- Settlers – Commoditise those boundaries
- Town Planners – create foundations
- Need brilliant people in all these roles



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Questions?

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