Cross-UK and International eHealth Systems Interoperability

Approaches to Assurance and Accreditation for the NHS (England)

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Introduction

- Richard Dobson - Assurance Manager within HSCIC Solution Assurance

- HSCIC Interoperability Toolkit initiative (ITK)

- Interop Strategy accreditation/assurance perspective

HSCIC

- Setup April 2013 - Executive Non Departmental Public Body

- The HSCIC responsibilities have been set out within the Health and Social Care Act 2012

HSCIC Strategic Themes

- Support for Patient Centric pathways of care using technology as a unifying force

- Data providing Information and Knowledge which must be recorded and shared

- Focus on social care and community services

- Greater integration of services

Underpinned by Interoperability

Challenges

Shift towards locally held and controlled records brings a number of challenges…

- Information Consistency
- Locating Information
- Retrieving Information
- Managing Changes
- Knowing when things change

Data Standards

HSCIC deliver Data Standards

- HL7v2 and HL7v3 (MIM), and HL7v3 CDA
- HL7 UK board membership
- HL7 FHIR working groups
- RCP Standards Adoption - CDGRS

Local Interoperable Solutions

- Interoperability Toolkit (ITK) launched in 2010
  - XML, HL7, Web Services, ….
- National Specifications using HL7 at the heart
- Focused on the push pattern
- Mapping to Antilope ALT Model:
  - Technical Level (explicit), Logical Level (partly), Application level (guidance)
- ITK Accreditation forms part of the offering

ITK Accreditation - Test Tooling

- Testing tool – ITK Toolkit Workbench (TKW) which is open source
- Supplier selects Profile and Transport
  - e.g. Discharge Summary over Web Services
- Automated test suite based around prescribed test plan
- Generates evidence of technical conformance

ITK Accreditation

- Service provided by HSCIC
- Over 60 accredited systems

ITK Accredited Systems
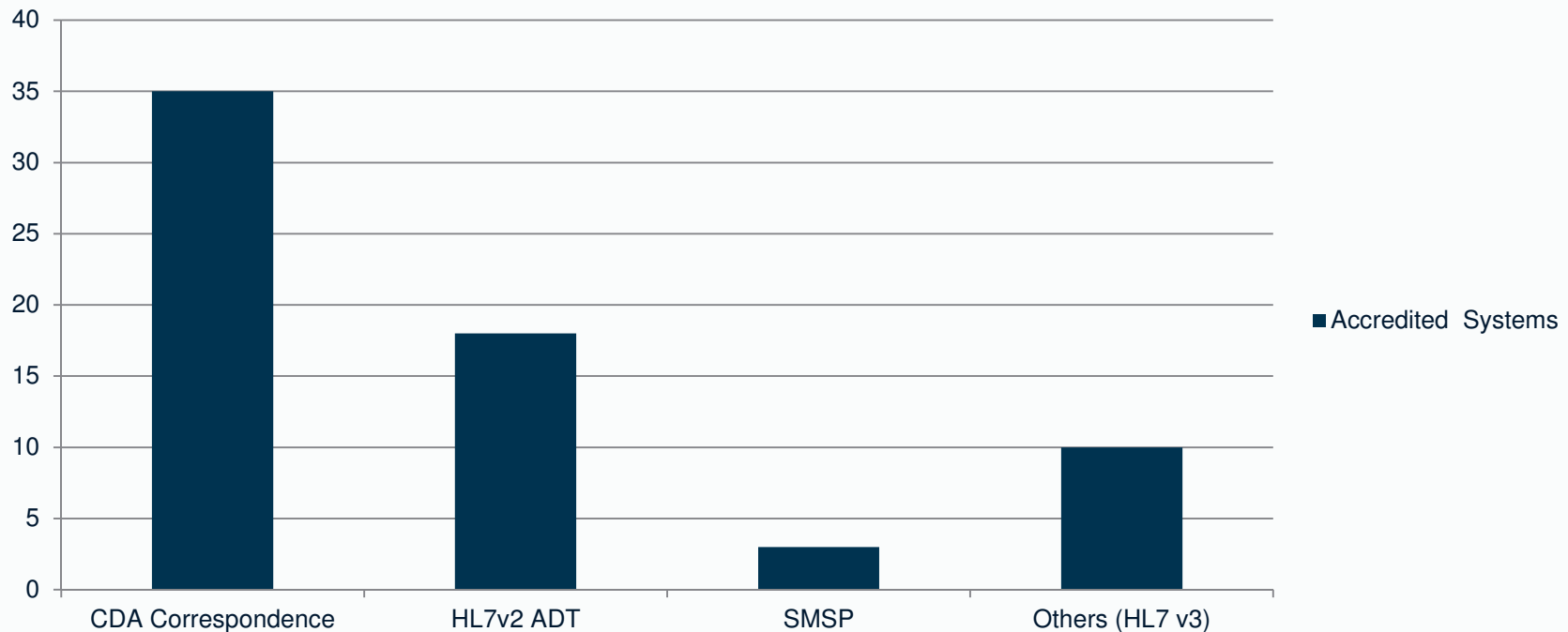
Challenges – Local Integration

Driver for Adoption

- NHS marketing drive to push adoption through procurement

- 2013 Information Challenge Sharing Fund

- Technology Fund 2 (standards adoption)

National Services - Contrast with Local

Greater Emphasis on

- IG and Security
- Programme Requirements
- Prescriptive technical integration (HL7v3, ebXML, Web Services)

The Assurance Balancing Act

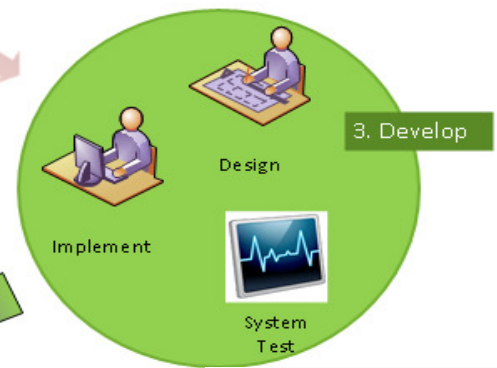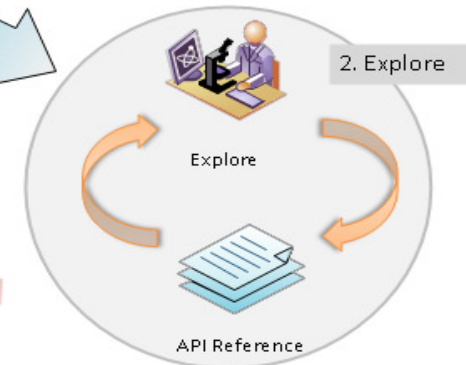| Integration Time	Assurance

Changing Face of Assurance

- The NHS e-Referral System (e-RS) will replace Choose and Book this year

- New API will be exposed, heavily influenced by HL7 FHIR

- New assurance approach being developed as part of an overall e-RS ecosystem
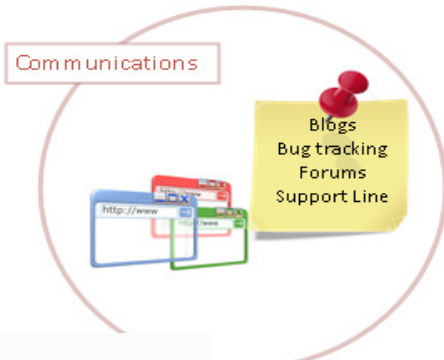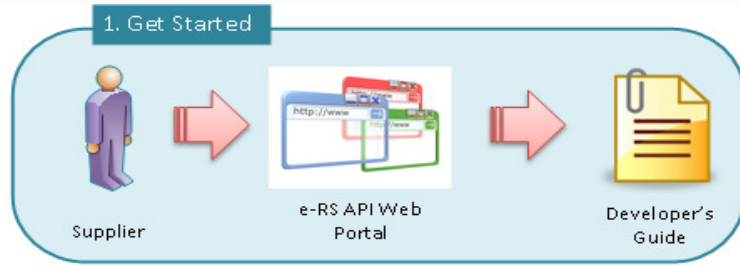
NHS e-RS Ecosystem
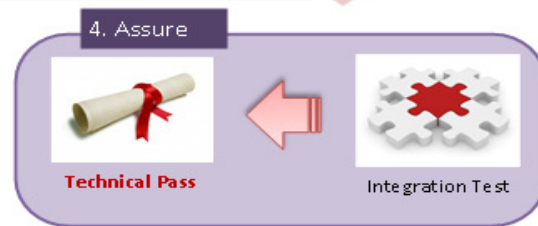
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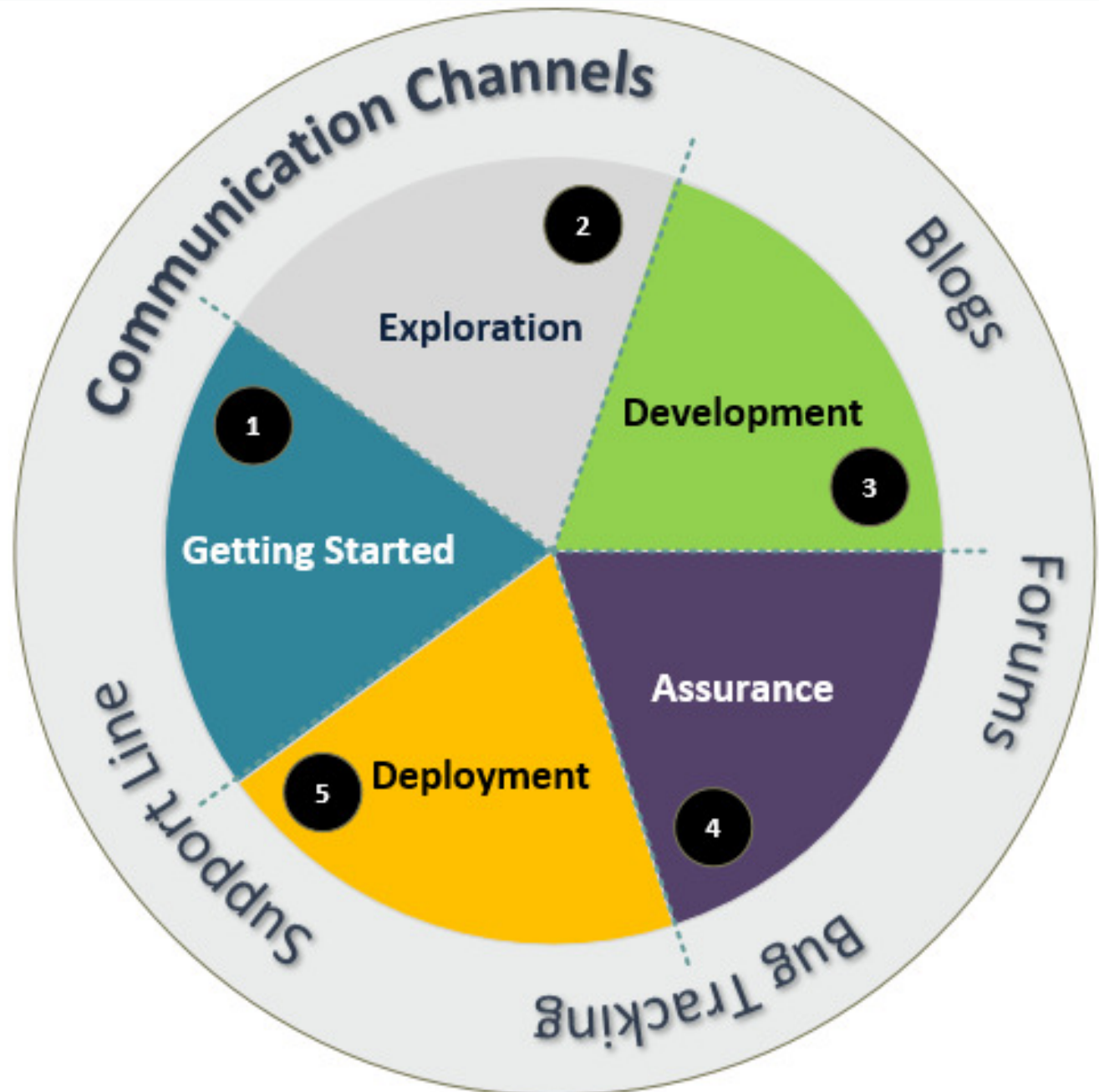
NHS e-RS API Ecosystem – Journey

Thank You

HSCIC Interoperability - http://systems.hscic.gov.uk/interop

TRUD (ITK Specifications) - https://www.uktcregistration.nss.cfh.nhs.uk/trud/

ITK Accreditation Catalogue - http://systems.hscic.gov.uk/interop/accred/catalogue

Contact – itkaccreditation@hscic.gov.uk

NHS Developer Network - http://developer.nhs.uk/library/interoperability/nhs-interoperability-framework/