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The ePrescribing Digital Maturity Tool

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Outline:

- EPMA Systems
 - Adoption
 - Availability
- Digital Maturity
 - Existing Solutions
- The Tool
 - Aim
 - Objectives
 - Method
 - Development
 - Pilot
 - Benefits
 - What Next

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EPMA (Electronic Prescribing Medication Administration) Systems

Clinical systems that utilize data from pharmacy, laboratory, radiology, and patient monitoring systems to relay the physician's or nurse practitioner's diagnostic and therapeutic plans, and alert the provider to any allergy or contraindication that the patient may have so that the order may be immediately revised at the point of entry prior to being forwarded electronically for the targeted medical action.

PREVENTING MEDICATION ERRORS

Wolcott J, Bootman JL, Cronenwett LR. Preventing medication errors (pp. 367-406). Washington: National Academies Press; 2007.

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EPMA Systems: Adoption

Drivers

- National Program for IT
- NHS Technology Fund
- Patient Safety

INNOVATION ADOPTION LIFECYCLE

Category	Percentage
Innovators	2.5%
Early Adopters	13.5%
Early Majority	34%
Late Majority	34%
Laggards	16%

Ryan B, Gross NC. The diffusion of hybrid seed corn in two Iowa communities. *Rural Sociology* 1943; 8(1): 15-24.

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EPMA Systems: Availability

alert Allscripts ASCRIBE Cerner
 CIVICA CSC LORENZO PICS Epic
 JAC MEDITECH NOEMALIFE WE CARE QuadraMed
 SYSTEM C CONNECTED CARE tpp Cambio+ Healthcare Systems TO NAME JUST A FEW!

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Digital Maturity

Digital Maturity:
'Measure of electronic/ informatics capability.'

ePrescribing Digital Maturity:
'Measure of EPMA system capability.'

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Digital Maturity: Existing Solutions

- Electronic Medical Record Adoption Model (EMRAM) – HIMMS
- European EMR Adoption Model – HIMMS
- Clinical Digital Maturity Index (CDMI) –EHI

EXISTING SOLUTIONS

DIGITAL MATURITY TOOL

Aim

To establish a technological audit and quantifiable measuring methodology across settings to provide a digital capability position of NHS organisations in England and allow this to be tracked over time

Objectives

- Building on work
- Ensuring academic methodology
- Comparability (where possible)
- Detailing capability, deployment, use, benefits and outcomes
- Buy-in
- Proof of Concept
- Creating open data repositories

Method

Development: Key Levels

Development: Individual Component Maturity

Development: Matrix

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Development: Refinement

- Formed Component Groups
- More detail
 - Definitions included
- Identified measures
 - Capability available
 - Capability in use
 - Effective use/reach

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Development: Spreadsheet

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Development: Example Output

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Development: Additional Outputs

- Percentage Scores for:
 - Enabling Capabilities
 - Functional Components
 - Mature Components
 - Total Maturity
- Area summary
 - Overall maturity
 - Maturity breakdown
- Maturity overview radar plot

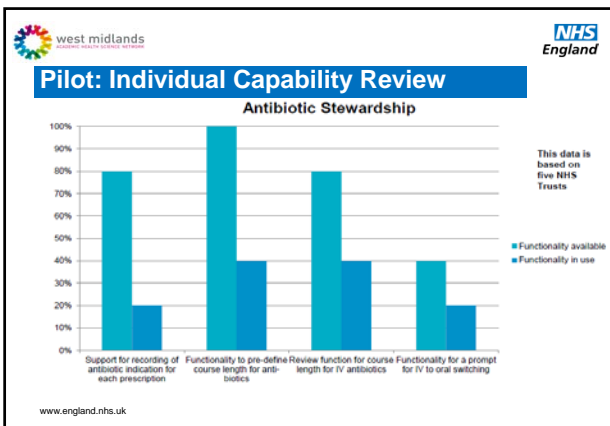
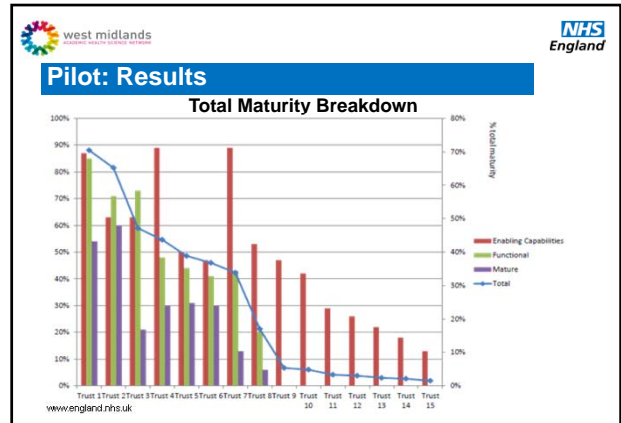
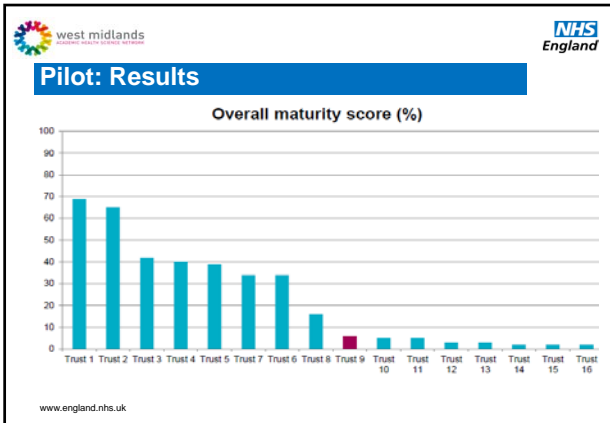
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Pilot: Summary

RESPONSES: 16


Trust Type: 8 ACUTE, 6 COMMUNITY & MENTAL HEALTH, 2 SPECIALIST

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Potential Benefits


- Comparative judgement of healthcare providers
- Identify gaps in current clinical configuration
- Benchmarking
 - Beacon sites
 - Sites needing help
- Realign user expectations
- Easy to use



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What Next?

- Feedback
- Web Portal launch
- Clarification



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