

Robotic Process Automation: The National Picture

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Digital Productivity Programme





Reduce the burden on the workforce

Improve health and care productivity using digital technology

supporting national commitments of **Her Majesty's Treasury's** (HMT) yearly productivity target



Best practice and buyers guidance

Financial support

Communities of practice

Library of evidence-based case studies

enabling scale and spread of productivity-improving technology across the system



Robotic Process
Automation (RPA)

Radio-frequency Identification (RFID) Virtual/ Augmented Reality Clinical Communication Tools

supporting digital transformation using benefit-enabling technologies



VISION all health and care systems have automation capability to improve productivity and quality of care by 2023

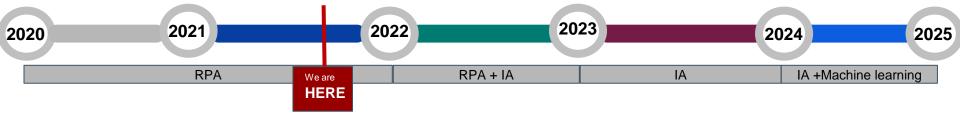
Objectives

- deliver care to more patients
- improve the quality of care
- ☐ improve patient safety
- improve financial and operational efficiency
- increase patient and staff satisfaction



Journey to Scale: moving from RPA to IA





Where did it start?

(Foundation FY2020/21)





Booking Staff's Antibody Testing

Booked over 6,000 tests

Saved over **52 hours** of admin work/day

Saving of £22k/month

System driven



Allocation of Social Care NHS mail account

Saved over **1,000 hours** of admin work with faster turnaround

NHSX driven



Situational Report to NHSEI

Saved over

Collated variety of data sets

4,400 hours

per year per staff

Reduced

human

error

Improved accuracy

NHSX driven



Oxygen Flow & Supply

24/7 accurate reading & monitoring of oxygen level

Created **1,500**

hours of capacity

100% accurate data

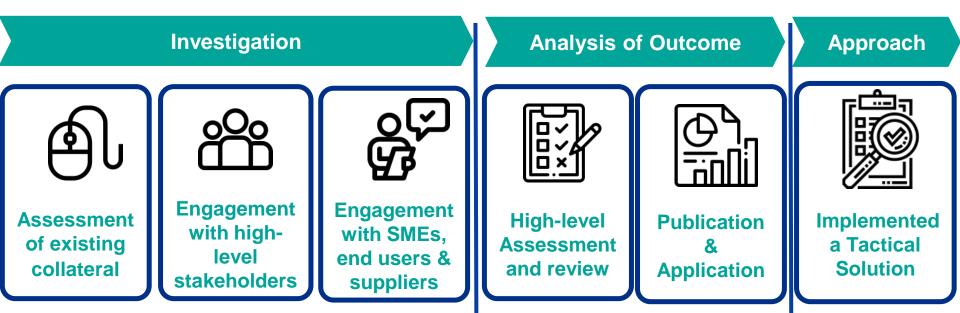
Reduced human intervention

Eliminated clinical risks

System driven

What was our approach? (Foundation FY2020/21) WHS





January 2021

March 2021

Commence of Centres of Excellence

What did we do? (Foundation FY2020/21)



Purposefully developed a **Tactical Solution** to spread expertise within the system



Who?

Commissioned

2 COE pilot sites to spread their knowledge & expertise

- → Northampton General Hospital NHS Trust
- → Royal Free NHS Foundation
 Trust



How?

Enabled organisations with existing automation solution to automate high ROI processes

- → built over **47 automated** processes
- → across 21 organisations
- → across 5 core business functions
- → within 12 weeks



What?

Developed a **VfM** case projecting the benefit of pilots and highlighted **potential future savings**

- → 142,547 hours of time saved annually
- → **79 FTE** equivalents saved annually
- → Year 1 annual saving of £2.7m,

What could be the impact?







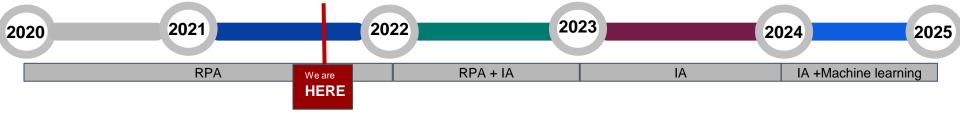
Operational Expenditure



- Improve operational efficiency- £777k per organisation annually, that's £202 million across the NHS and Social Care[1].
- A reduction of operational cost- averaging £364k per organisation annually, that's £90 million across the NHS and Social Care.
- Time release to patient care equivalent to 42 band 6 per organisation, that's equivalent to 5,460 band 6 nurses/admins across the NHS and Social Care.

Journey to Scale: moving from RPA to IA





Year of Structure (FY 21/22): Our Focus & Deliverable





- National Community of Practice for RPA
 - Over 25 case studies
 - 'How to' guidance
 - o RPA COEs







- GDE blueprint from Northampton General
 - O COE approach [ava

[available online by 6 Dec]

end-to-end automated process

GDE- global digital exemplar



 Directory of available processes across the NHS



National Guidance for RPA



 RPA processes as an open source on NHSX GitHub

Connect with us



Reach out to us if you have questions about or our work or to share your stories

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Join our National Community for Robotic Process Automation (RPA)





https://future.nhs.uk/RPA/grouphome