

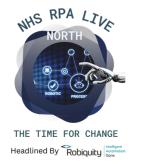
## WELCOME TO

#### **The NHS RPA Live Conference**





9th March 2023 - 08:00am – 16:00pm – Manchester Hall Conference hosted by Convenzis Group Limited



### **Event Day Overview**



Morning Sessions: 9am – 10:40am Morning Break: 10:40am – 11:40am Midday Sessions: 11:40am – 13:15pm Networking Session: 13:15pm – 14:00pm Afternoon Sessions: 14:00pm – 15:45pm Drinks Reception: 15:45pm –

Slido is being used to collect feedback, run polls and gather questions across the day, the next slide will have joining instructions.

The event is CDP accredited and your points will be sent within around 6 weeks of the event date.



## **Our Commitment to the Planet**

## For Each Delegate Attending Our In-Person Event Today, we will be planting 1 tree with our Key Sustainability Partner





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THE TIME FOR CHANGE Headlined By Robiquity **THE NHS RPA LIVE CONFERENCE 2023** 



## **Event Chair – Opening Address**



## **Darren Atkins**

Chief Technology Officer - Intelligent Automation The Royal Free London NHS Trust



THE TIME FOR CHANGE

#### **THE NHS RPA LIVE CONFERENCE 2023**



## **SPEAKING NOW**



## I will be discussing...

#### "The Future of Automation"

#### **Darren Atkins**

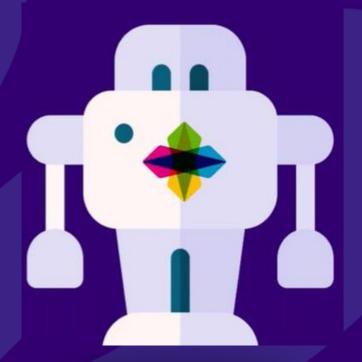
Chief Technology Officer - Intelligent Automation The Royal Free London NHS Trust



Royal Free London NHS Foundation Trust

# Welcome!

### NHS RPA Live! #NHSRPALIVE





Innovation and Intelligent Automation Darren Atkins Chief Technology Officer

Royal Free London NHS Foundation Trust

# The Future of Automation





Innovation and Intelligent Automation NHS RPA Live! #NHSRPALIVE



The NHS should standardise on a common **RPA platform to encourage collaboration and** sharing, and accelerate the adoption and scaling of processes using NHS talent. By the NHS for the NHS



Innovation and Intelligent Automation

### - Darren Atkins 2016

### **The Automation Reset**



- RPA isn't a magic wand to fix all problems
   Take a step back from the UI
- Work in partnership with Digital Strategy
- Create realistic business cases for RPA
- Many bot platforms are not delivering value
- Virtual smartcards for RPA
- Capability gap in the NHS / Citizen Devs

Innovation and Intelligent Automation



### **An Evolving Toolset**

- Hyperautomation & IA
- IDP, Chatbots, NLP, do we need these?
- Conversational AI another tech island?
- Al and machine learning
- Process mining
- The Two Layer Strategy
- Rapid changing market best of breed?

Innovation and Intelligent Automation

Royal Free London NHS Foundation Trust

# Is There Another Way?



Innovation and Intelligent Automation



### NHS RPA Live! #NHSRPALIVE



The Royal Free London will reimagine automation for the whole public sector by offering innovative outcome-based ROI driven solutions to EVERYONE, regardless of size, financial standing and technical capability.

## By the NHS for the NHS Innovation and - Darren Atkins 2023

### **RPA v2.0** The Reset



Black Box processes – no cost of entry, centrally hosted, pay per transaction, common inputs and outputs

A library of integrated APIs with supporting RPA code. Speeds up automation, reduces bot usage by up to 95%, requires less operational support

Pre-built, user triggered automation macros for common tasks and activities across a range of clinical applications



Evaluating process flows, resource usage and efficiency savings linked to patient flows



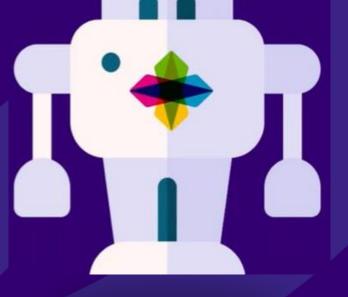


### Questions?



Royal Free London NHS Foundation Trust

## Goodbye! NHS RPA Live! #NHSRPALIVE



www.somethingincredible.co.uk Innovation and Intelligent Automation Darren Atkins Chief Technology Officer



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#### **THE NHS RPA LIVE CONFERENCE 2023**



## **SPEAKING NOW**



### I will be discussing...

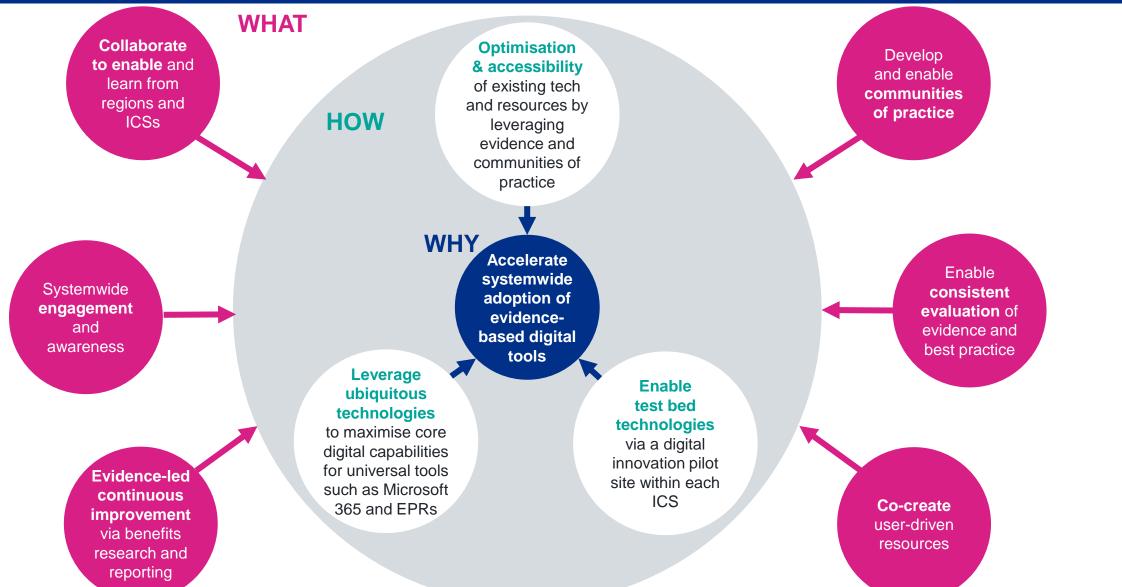
"The National Ambition for RPA"

#### Lucy Rose Hewitt

Senior Programme Manager NHS Digital Productivity Team

# Digital Productivity programme within Digital Enablement portfolio





### Our automation transformation journey



RPA) programme launched, and <u>National RPA</u> <u>Community of</u> <u>Practice</u> created

Centres of Excellence (CoE) During 2021, the CoEs built over 47 automations across 21 NHS organisations & 5 core business functions within 12 weeks, resulting in

**142,547 hours** repurposed, equivalent to **79 FTE** or £2.7m savings National RPA Advisory Board established to guide national RPA strategy, focused on delivering better experience and outcomes for staff and patients

Iaunch of national NHS RPA e-learning programme with HEE, with over 700 course enrolments

- 1. optimise productivity realisation of RPA via evidence based tools and resources
- 2. leverage ubiquitous technologies to maximise core digital capabilities
- **3. act as a test bed** for innovative technologies, including evolution from RP to Intelligent Automation (IA)



#### The NHS England operating framework: the foundations

Why we are here To lead the NHS in England to deliver high-quality services for all

1



What we do to add value Spheres of 2 Set direction Allocate Drive Ensure Support and **Mobilise expert** Enable Deliver operation accountability develop people resources networks transformation improvement services Nation Plan workforce Accountability Leadership culture Policy and strategy Expert knowledge Support improvement Digital Medium-term NHS England Relationship with strategy with Standards and development and consensus Deploy improvement Data and priorities Culture and Outcomes Goals and government partners support analytics Transformation Providers Workforce innovation behaviours Benchmarks Agree mandate expectations Intensive support Commercial & enablers Region **Financial structures**  Inclusion and Set annual planning Best practices Monitoring and Regulatory procurement Partner with life and incentives diversity New products and Integrated guidance and assurance intervention. support sciences Care Systems Financial stewardship Training and services Regulation ntegrated Care Boards priorities Direct Population health of NHS National stakeholders education. Health protection. commissioning. Provide leadership. and prevention. System development. Financial allocation. How we do it Leadership Working to We are inclusive -Working as one **Getting things** Learning and Compassion behaviours improve lives improving and respect done everyone counts team ..... Accountabilities **Providers ICBs NHS England** and Statutory responsibilities for safe, effective, Effective system leadership which balances immediate and longer • Use input from ICBs, providers and their partners to agree the responsibilities efficient, high-quality services mandate for the NHS with government and secure required term priorities Effective system working and delivery of their Overseeing NHS delivery of strategies and plans, ensuring resources contribution to ICS strategies and plans progress toward and achievement of objectives for annual National NHS performance and transformation as set out in NHS Financial performance and requirements set out planning and Long Term Plan priorities. mandate and constitution in NHS planning guidance, including guality and • Overseeing the budget for NHS services in their system Contribution to effective system working and delivery, including Ensuring delivery of the ICB core statutory function of arranging statutory intervention if required access Compliance with provider licence, Care Quality health services for its population and compliance with other Foster relationship and alignment with government Commission standards Stewards of the NHS statutory duties Reducing unwarranted variation, especially Work with local authorities to act as the stewards of local Set strategy for the future through Provider Collaboratives. Foster productive relationships with partners and major stakeholders. population health outcomes and equity. What we need 4 **STOP** avoidable illness Medium term **SHIFT** to digital SHARE **STRENGTHEN** the hands SUPPORT our local to achieve objectives the best of the people we serve and intervene early and community partners ...... **Outcomes** • Longer healthy life expectancy Excellent access and experience • Value for taxpayers' money Excellent guality, safety and outcomes • Equity of healthy life expectancy, guality, safety, outcomes, access and experience Support to society, economy and environment

\* Partnerships between ICBs, NHS providers, local authorities and other partner agencies are now a core component of the NHS's operating framework and ways of working. NHS England will support NHS leaders to embed partnership working locally, and we will work with partners to support wider ICS development.

### The importance of collaboration



## A collaborative approach based on shared learning and insight will ensure we maximise and optimise our digital transformation across the NHS.

3. PROMOTE

What channels can we

share and publicise our

leverage to promote,

work and solutions to

ensure they are easy

to find and top of mind?

**& SHARE** 

### Leveraging experience from the Automation in healthcare community



Accessible and practical guidance, best practices and lessons learnt



Shared infrastructure for faster set up and lower total cost of ownership (TCO) across NHS; NHS is pushing for a SaaS-first approach



Shared license capacity and ability to leverage national scale for best deals on technology



Use case / process / component / reusable assets catalogues, enabling faster set up, delivery and quicker national return on investment

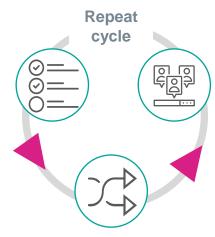


Easily accessible, centralised guidance on regulations, clinical safety assurance and data governance

#### 1. DISCOVER

Has someone done this before within the NHS?

What business areas / functions / use cases have proven potential?



#### 2. ADAPT & ADOPT

Can existing solutions / codes / assets be repurposed or adapted to fit our requirement, making our implementation faster and cheaper?

# Key Digital Productivity projects within Digital Enablement portfolio



#### 1: optimisation & accessibility

#### We are working to:



Enable standardised measurement & collation of evidence via unified metrics



Develop communities of practice and user-driven resources



Enable University College London Industry Exchange Network as a free PoC resource



**Catalogue & optimise** key national 'productivity improving' artefacts



Enable systemwide engagement and input via regions and ICBs



Leverage automation **communities** of practice via strategic collaborative problem solving events i.e. hackathons

#### 2: ubiquitous technologies

#### We are working to:



Develop a beta **digital levers** economic menu to maximise capabilities of ubiquitous technologies

Build a beta **M365 catalogue** describing functionality & optimisation

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Create a beta **EPR catalogue of modalities** with potential to provide productivity benefits including automation opportunities



Work with communities of practice to ensure collaborative outputs and optimisation of existing automation work

#### 3: test bed technologies

#### We are working to:



Identify and evaluate national test bed sites for innovative technologies, including intelligent automation



Explore EPR e-bed management modules and stand-alone e-bed management systems/patient flow

solutions, including how automation can support optimisation of e-bed management

**Investigate EDMS** to support digitisation of paper records

#### INHS **1. Optimisation and accessibility showcase** Existing support and resources: communities of practice Core resources Getting started Community and support **Existing tools:** Resources to help you start your automation journey Explore our community forums and find out more about the RPA Centres of Excellence <u>+N|17+</u> **Digital Productivity** Are you part of an RPA Network? Explore POC support from Discover our RPA Centres ☆ Read our National RPA Guidance About RPA of Excellence 🗂 the UCL IXN

Evidence Based Library (EBL), with over 800 use cases, case studies etc., and a standardised evidence submission form

#### **Upcoming tools:**



Unified metrics for Digital productivity, including technologyspecific measures



#### Templated business cases for key digital productivity technologies



Database of strategic documents, with clear productivity alignment highlighted

#### Learn more about the support on offer from Access 800+ UCL Computer Science Email us to let us know about your RPA A comprehensive "how to" guide An introduction to RPA NHS RPA CoEs students to help develop your POC Network Discover other useful Suppliers RPA funding updates Regulation and Guidance 🛜 Knowledge Hub Discussion Forums communities That means RPA is augmenting Evidence and benefits management Data indicates that around our amazing workforce to provide 1.7m hours Evidence and insights underpin our work, so we've developed resources to help you articulate the value of RPA. You will find this section useful for 7/7 the equivalent to an additional developing your business case. have been repurposed c.850 staff regions and via RPA in health and care across health and care **ICSs** have RPA Benefits Case Studies Database JUTF Sites RPA live in at least one organisation Templates and tools These resources will help you follow best practice and support stakeholder engagement. RPA training and courses There are various internal and external training tools online to support you and your team, from novice to expert. Most vendors include access to their Templates training within your RPA licence fee, and some offer a free starter course with no licence required. If you're a LinkedIn Premium member, you can access LinkedIn Learning RPA courses - including vendor specific certifications Presentations, events, and news Latest automation news and presentation decks / recordings from automation events Discover Northampton General Hospital's RPA Complete our foundation RPA training raining programme Co-created with Health Education England Developed with Automation Anywhere Upcoming Events Events & presentations News NHS RPA Live North Conference 2023: The Time for Change Automation Anywhere ଟ UiPath RPA Academy Blue Prism University March 2023 at 09:00 University

### 2. Ubiquitous technologies: Discovery report overviews



#### EPR discovery report

#### Key findings:



By 2025 **all Trusts will have EPRs** with access **key modalities** supporting patient flow, operational efficiency, and workforce support



Organisations will require **guidance and training** to optimise this



We require **evidence** to support longterm strategies and maximise benefit

#### **Recommendations:**



Share internal summary report –

with future recommendations – with Frontline Digitisation and Digital Enablement central teams, to support ongoing EPR projects

#### Ubiquitous technologies catalogue

#### Key findings:



There is currently **no catalogue of the full range of Ubiquitous Technologies available and accessible** to the NHSE ecosystem

Currently, users must exploremultiple sites / pages for key info



FutureNHS is **safe, easy to use** and **supports a growing community of practice** 

#### **Recommendations:**



Host the ubiquitous technologies menu on the **Digital Partnering Hub** on FutureNHS



Digital Productivity Programme will design, develop, implement, and test a prototype catalogue for ubiquitous technology digital levers

#### Microsoft discovery report

#### Key findings:



The N365 bespoke agreement is **due for renewal in April 2023,** and is likely to include **PowerAutomate** 



**94%** of NHS orgs reported increased user efficiency as a result of N365



98% of users anticipate negative impact on operations if current licenced products are removed, with52% expecting "catastrophic" impact

#### **Recommendations:**



**Share internal summary report** – with future recommendations – to support existing M365 projects



Develop summary report for external educational use, focused

on key current licence information / options, what apps are available, what it does, and case studies

### 3. Preview: eBed Management Systems

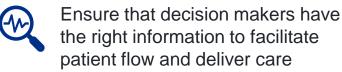
#### Initial programme vision

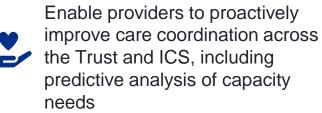
The <u>Urgent and Emergency Care (UEC)</u> recovery plan includes an NHSE commitment to support Trusts without basic bed management capabilities and to implement appropriate solutions by the end of this year

To support recovery and winter pressures in the NHS, Electronic bed management systems (EBMS) have been identified as a key technology enabler and links into a number of ambitions within the UEC recovery plan

#### **Expected outcomes**

Improve patient experience, ensuring they receive the right care, in the right place in a timely manner





#### System input required

Based on the EBMS DMA survey, we are seeking contact details for Trusts who indicated that they have an EBMS control centre akin to Maidstone in place. We would like your input to inform creation of functional / technical spec

We are collating evidence systemwide relating to EBMS productivity projects into the Evidence Based Library (EBL) so that this can be used to support user- and data-driven strategies moving forward

### Working collaboratively: what next



Join communities of Take advantage of the practice and provide UCL Industry 1. Optimisation & feedback on content Exchange Network: accessibility / resources via submit PoC project feedback forms proposals before May 2023 (ongoing) When live on When live on FutureNHS, explore FutureNHS, explore 2. Leverage Microsoft report and and give feedback on ubiquitous inform us of any the beta technology technologies resource catalogue requirements (launching April) (launching April) Share existing Speak to us if you evidence of have an EBMS 3. Enable automation projects command / control test bed relating to EBMS, so centre, to inform our technologies we can celebrate and functional / technical learn from your work

(ASAP)

Share any evidence where automation has improved **Diagnostics** processes, including business / use cases (ASAP)

Within your region, identify potential **SMEs** (i.e. clinical) to potentially join a Microsoft hackathon taking place 9 June 2023

spec (ASAP)

**Further info** 

**Key contacts:** 

Email england.digital.productivity@nhs.net

**Communities of Practice:** 

**Robotic Process Automation (RPA) Community of Practice** 

**Digital productivity and Automated Data Capture (ADC) Community of Practice** 



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THE TIME FOR CHANGE Headlined By Robiquity

#### **THE NHS RPA LIVE CONFERENCE 2023**



## **SPEAKING NOW**



## I will be discussing...

"In the Trenches - Reflections on Automation in the realworld"

#### **James Davies**

RPA Product Manager The Royal Free London NHS Trust



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## UP NEXT...





Headlined By Robiquity

#### **THE NHS RPA LIVE CONFERENCE 2023**



## **SPEAKING NOW**



## I will be discussing...

#### "Automating at Scale"

#### **Tom Davies**

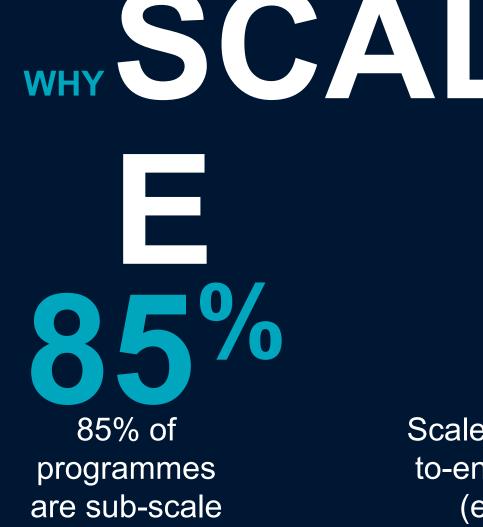
Chief Executive Officer Robioquity

Confidential©2023

#### Automating at Scale







#### **IS IMPORTANT**



Scale enables endto-end automation (e.g. patient journeys) Scale means exponential value





#### **MEAN?**

## Looking right across the organisation and separating out:

What skilled NHS workers do best

What they're trained for

What they build careers around

VS

What can and should be automated

#### What does scale mean >

### TRANSFORM YOUR BUSINESS WITH INTELLIGENT AUTOMATION





# HOW DO WE GET THERE 7

Look beyond the low hanging fruit

Identify the big benefit opportunities in productivity, patient experience, employee experience

Build with an end to end target in mind - every automation makes the next one faster



# **NEEDS TO BE** INVLOVED

The WHOLE business - this is a mindset shift - AUTOMATION FIRST

Communicate, share, involve everyone

Create momentum, celebrate success, accelerate to benefits



# KAYLEIGH BRADFORD

# THE E18 PARTNERSHIP

# Specialising in delivering digital transformation for public and private sector organisations

*"e18 Consulting is focussed on identifying innovative digital solutions that deliver defined outcomes and measurable value to our customers.* 

Committing to a transformational digital technology roadmap can dramatically enhance the way businesses across both the private and public sector deliver their services."

Louise Wall - Founder & Managing Director



# NHS

# THANK YOU





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#### **Preassessment Automation - A Service View**



Rob Child

Camilla Gow

Programme Manager Leeds Teaching Hospitals NHS Trust RPA Business Manager LTHT Lesley Case

RPA Developer LTHT

### **Leeds Teaching Hospitals NHS Trust**

### RPA Live 9<sup>th</sup> March 2023



### Summary

- Platform is Blueprism Cloud
- 5 production & 1 Dev Bots
- Team of 4 members (Programme Lead, Business Manager, Developer & Control Room Operator)
- Agile Delivery Methodology (3-week development spirits)
- Managed & monitored through DevOps & PowerBI
- Governance & Leadership (inc IG & CS)
- Trust-wide Engagement
- 43 processes live covering 23 CSUs/Departments incl. HR, Finance, Elective Recovery, Diagnostics (@Feb 23)
- 16 Years Saved (approx. £345k cost avoidance)
- 23/24 Expansion Plans



### **Preassessment Automation**



**Microsoft Teams** 

### **RPA Event - Preassessment Automation** Discussion

2023-02-28 09:39 UTC

Recorded by

CHILD, Rob (LEEDS NHS TRUST)

Organized by CHILD, Rob (LEEDS TEACHING HOSPITALS TEACHING HOSPITALS NHS TRUST)



### What's Next at LTHT



### **Any Questions**





**THE NHS RPA LIVE CONFERENCE 2023** 



# MORNING BREAK, NETWORKING & REFRESHMENTS



THE TIME FOR CHANGE

#### **THE NHS RPA LIVE CONFERENCE 2023**



### **Event Chair – Chair Morning Reflection**



### Darren Atkins

Chief Technology Officer - Intelligent Automation The Royal Free London NHS Trust



**THE NHS RPA LIVE CONFERENCE 2023** 



## UP NEXT...





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#### **THE NHS RPA LIVE CONFERENCE 2023**



# **SPEAKING NOW**



### I will be discussing...

"Accelerating time to value with a full-service automation management platform"

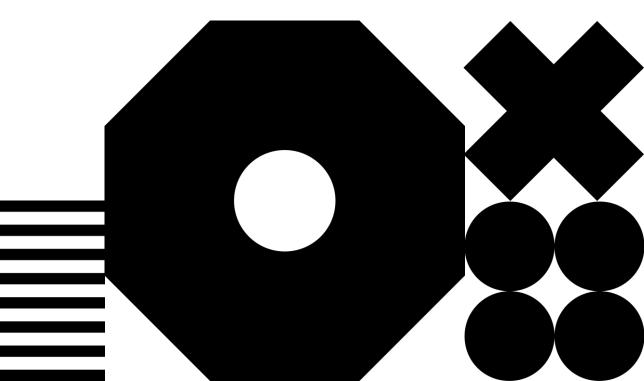
#### Nikki North

IA Digital Product Owner NewDay C TWO

### Accelerating time to value with a full-service automation management platform

Nikki North IA Digital Product Owner

New

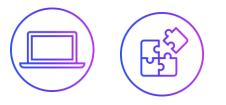


#### Evolution of our RPA Control Room



- Version 1 of Blue Prism
- Desktop PCs and Switch Boxes
- SQL DB Tables and Queries
- Process = Scheduler

### 2006



- Version 4 of Blue Prism
- Virtualisation of Environments
- Introduction of Work Queues
- Introduction of Schedulers

2012



- Version 7 of Blue Prism
  - **C TWO** (formerly RPA Supervisor)
  - Intelligent Orchestration
  - Automated Operations
  - Human in the Loop
  - Business Intelligence Dashboards
    - Today

#### NewDay & Intelligent Automation

#### Intelligent Automation Team

- Inhouse COE capability established with partner (ISG)
- Small team of 6 resources
- Over 5 years approx.80 processes have been successfully automated
- Average of 120,000 pieces of automation handled by robots c6,500 Hours each month across the 52 processes
- Very low exception rate of < 5%.
- Now created a Strategic view of Core RPA and decommissioning robots

#### 2022 Problem Statement

Mid 2021 we had 2 controllers full time to manage our processes, one of these left the business at the same time as a developer. The remaining controller was promoted into the developer role leaving no dedicated support resource.



# 1 in 6

customers in the UK

UK Credit Cards issued by NewDay

c2<sub>м</sub>

customers with improved credit scores

**146**<sup>M</sup>

Transaction processed each year

#### Implementation and Speed to Value

٠

Week 1

Week 2

Day 1 **CTWO** software fully implemented

- Day 2&3 A small number of processes onboarded & tested
- Day 4 Full suite of processes onboarded and instant benefit realization

- Reduced efforts for morning checks
- Developers confidence build in the tool
- Further reduction in manual review

Week 3

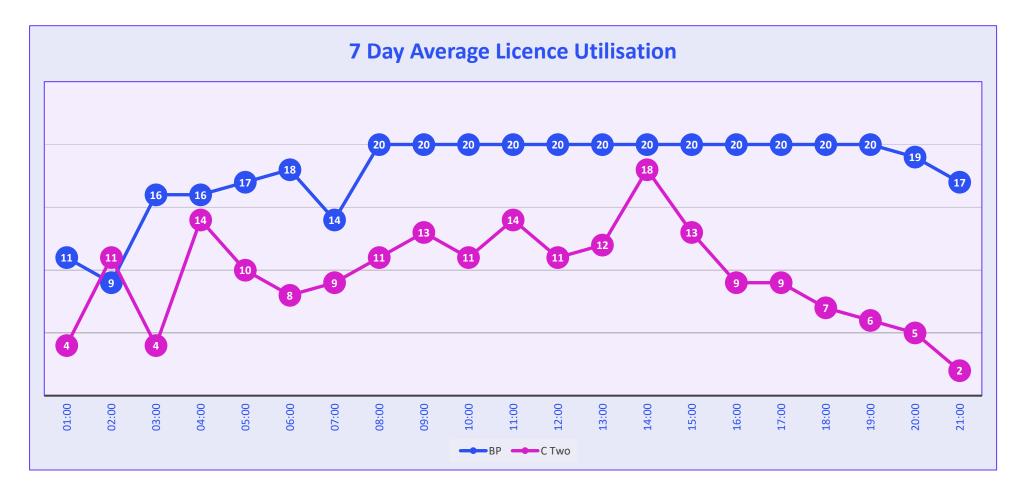
 Saturday control room checks removed

Week 4

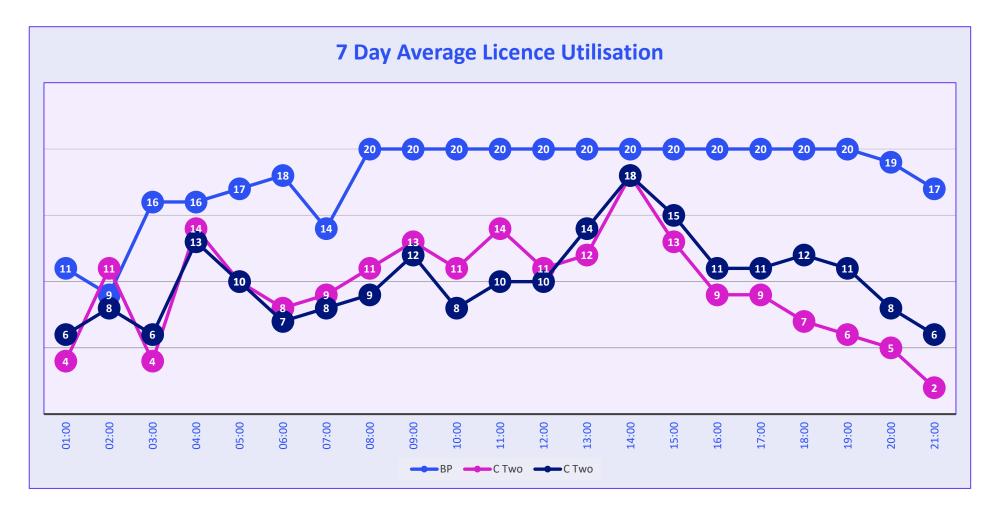
#### **Target System Outage**

- Manual Effort usually required circa 6 hours including out of hours cover and processes caught up within 24hours to protect SLA's.
- C TWO Zero developer hours required; all processes caught up within 2.5 hours with 100% SLA adherence.

#### Implementation and Speed to Value



#### Implementation and Speed to Value



#### What's Up Next?



**Trust Portal – enhanced offering** Migrate current Trust Portal to new SaaS with Mini-Bots



**API Integration** Migrating RPA mainframe or UI interaction to API integration



**File Triggers** Migrating time scheduled processes to file triggered



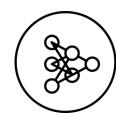
Power Automate

Exploring opportunities for hybrid Power Automate and Blue Prism processes.



Human in the Loop

Exploring opportunities for better exception management



### Process Re-design

Review of processes to ensure optimal scheduling and run times

#### Thank you

For any questions or to discuss further, please contact

Nikki North Intelligent Automation Product Manager

NewDay

e nikki.north@newday.co.uk



**THE NHS RPA LIVE CONFERENCE 2023** 



# UP NEXT...





Headlined By Robiquity

#### **THE NHS RPA LIVE CONFERENCE 2023**



# **SPEAKING NOW**



### I will be discussing...

"RPA in Patient-facing Processes and the Digitally Included Patient"

#### Paul Boland

Healthcare Director EBO.ai



RPA in Patientfacing Processes and the Digitally Included Patient

Paul Boland, Healthcare Director EBO

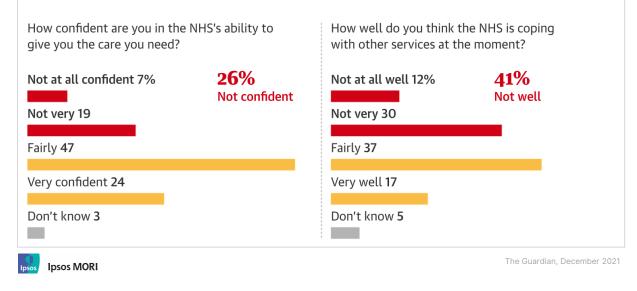
9<sup>th</sup> March 2023

NHS RPA Live North Conference, Manchester

### A Challenge: Making the NHS Accessible & Effective



### One in four people in Britain are not confident in the NHS's ability to provide the care they need



### **Inclusive Access & Engagement**

I have been treated as a partner in my care or treatment, including when decisions have been made	18.0		30	).1	21.1		17.5		13.4
The professionals I have dealt with have been competent and knowledgeable	2	.6.7		38.8			14.7	10.5	9.3
The staff I have dealt with have been understanding and compassionate	25	5.5		43	3.2		14.	6 10.	.4 6.3
I have not had to wait too long for health and care services	12.7		26.4		26.1		26.8		8.0
My care has been well co-ordinated	11.8		21.1	27.7	1		26.1		13.3
have been kept informed about what is happening with my care	12.6 12.0		25.7		76 7 20.7		25.4		9.5
I have been provided with the right information to care for myself, or been able to access it easily	15.3		29.9		24.3		20.0		îû.5
I have been able to access the services I need	14.5		25.4		30.3			25.8	4.0
I have been treated with respect	24	4.9		43.1			15.1	10.0	6.9
I have been listened to and taken seriously	20.	2		37.3		16.7		17.8	8.0
0	% 10%	6 20	% 30%	40% 50	)% 60	ا % 70	% 80	ا % 90	)% 10
Strongly agree Agree Disagree	Stro	ongly	disagr	ee ∎No	t sure/	'can't	say		

cbo

# What has that got to do with RPA?



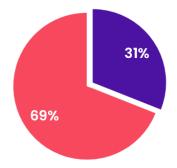
## We must not forget...

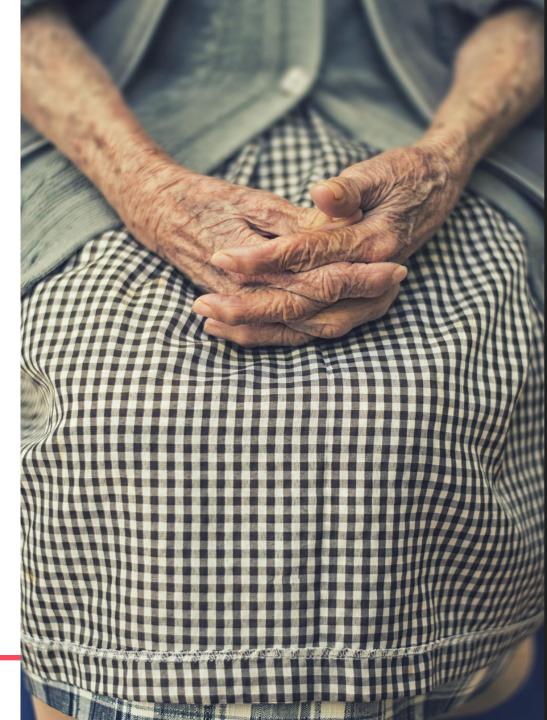
#### **Inclusive Access**

Those most in need of health services are often excluded due to a digital literacy barrier

While healthcare providers have raced to digitise their processes, **only 69% of those aged 55+ have the basic digital skills** necessary for the interaction with such systems<sup>1</sup>.

cb





### **Conversational AI & RPA Automating the front-end**

#### PATIENTS

Helping them to easily access and navigate their pathways.



Transform patient-facing processes.

#### WORKFORCE

Automating admin, repetitive workload, freeing up capacity, delivering efficiencies.

cbo

## **Data Rich & Contextually Aware**

#### Meet Claire, your NHS Trust's Al-powered Virtual Assistant

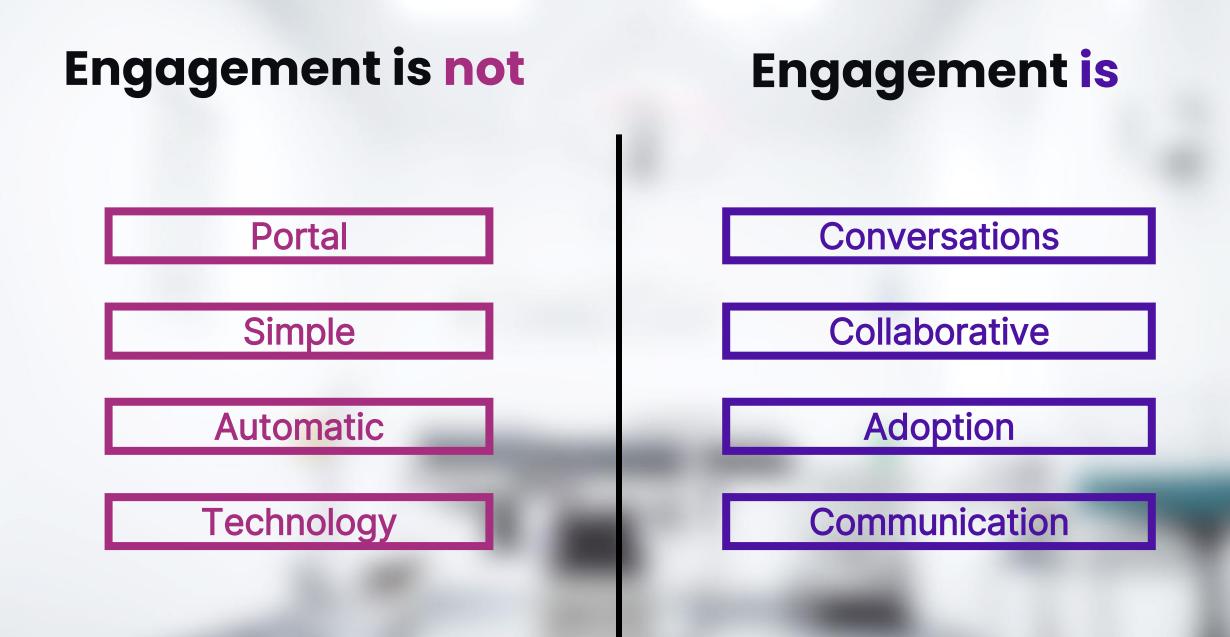


Retaining human traits in automation and building data richness:

- ✓ Empathy=> contextual awareness
- ✓ Sensitivity=> data reuse & conditional analysis
- Intent & Sentiment analysis=> data augmentation & rich actionable insights



The Digitally Included Patient at the centre of an accessible and inclusive NHS





EBO removes the necessity for patients to have a high level of digital literacy.

We offer a dependable, user-friendly and trustworthy solution that enables interaction of patients with trusts through pre-defined patient pathways.

## **Conversational AI & RPA in action Patient Pathway Automation**

- 1. Automating Appointment Booking
- 2. Auto-assignment of freed-up slots
- 3. Automated Waiting List Validation
- 4. Large-Scale Conversational PIFU
- 5. Forms/Assessments through

Conversations

- 6. E-Referral Pathway automation
- 7. Signposting to self-management resources

Imogen activates her GP referral on the NHS App. John has been working with the EBO team and is excited by the prospect of being wholly integrated to the NHS App.

> Robbie notifies Imogen on her mobile to self-schedule her appointment. She asks several questions about parking before she books her appointment. Imogen remarks to her friends how "human" Robbie was.

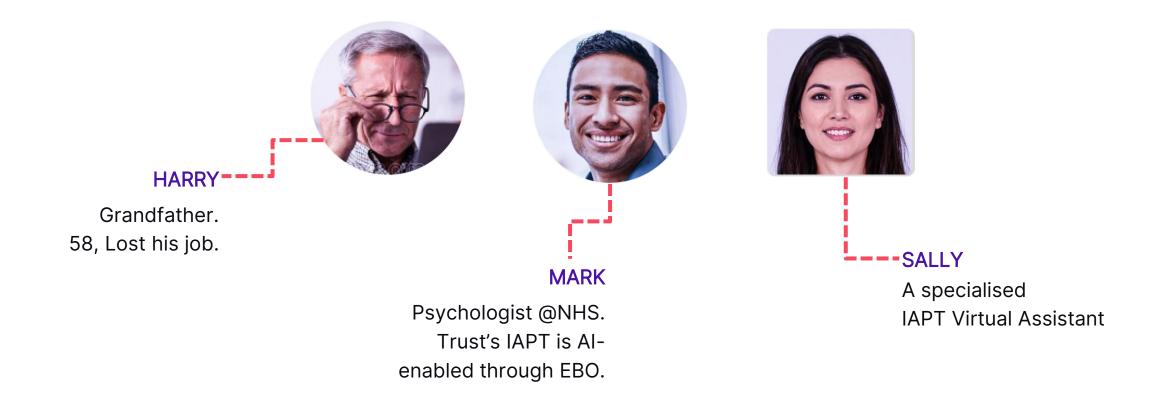
NHS

Another of John's ideas was to use Robbie to share Imogen's care record with her. Because of this, Imogen can ask Robbie to view her CT scan results as she prepares for an early night.

> Robbie guides Imogen through the completion of a pre-assessment form through a natural conversation. The solution has already saved 40% of the time previously spent completing forms.



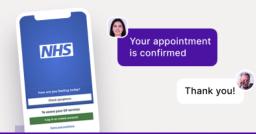
## **The Digitally Included Patient**





#### 01

Harry receives a message from Sally, the Virtual Assistant, to activate his GP referral on the NHS app. He books a time to suit him and Sally confirms this with him.



#### 03

Mark is notified of the assessments which flag worrying symptoms. Sally contacts Harry and confirms a new prioritised appointment by text and email.



#### 05

Harry attends the IAPT service for 6 weekly sessions with Mark. Before each session Sally guides him in completing the anxiety and depression score to monitor the impact of his therapy.



#### 07

He is discharged by the service and Sally signposts him to information to help him remain well. Sally continues to check how Harry is doing over the next three months.



#### 02

Sally guides Harry to complete three digital preassessment questionnaires in a "natural conversation", rather than Harry having to complete paper or digital forms on his own. He gets to instantly ask Sally any questions he has along the way.





Harry receives a reminder from Sally 48 hours before his appointment and confirms he will attend. He asks Sally about bus travel and is immediately provided with help.



06

After several weeks, Harry is feeling better. He has gained coping skills to manage his mood.

# Patient Pathways we're Automating

Somerset NHS Foundation Trust

NHS

East London

- Requests for rescheduling & cancellations
- Automated cancellations & notifications
- E-Referral and PROMs
- NHS

Lincolnshire Partnership NHS Foundation Trust

- Memory assessment & management service Pre-Assessment Form
- Referral completion

#### NHS

- Shropshire Community Health NHS Trust
- eConsent for school-age vaccinations
- Automated appointment management

 GIG
 Bwrdd lechyd Prifysgol

 Betsi Cadwaladr
 University Health Board

- eConsent for children's school immunisations
- PROMs & PREMs
- Patient **demographic** information updates
- Trust-wide automated appointment management
- PIFU

NHS

NHS

**Midlands Partnership** 

NHS Foundation Trust A Keele University Teaching Trust

**NHS Foundation Trust** 

**Gloucestershire Health and Care** 

- Automated appointment management
- Steroid injection **e-consent** for MSK
- PIFU
- Automated Waiting List Validation



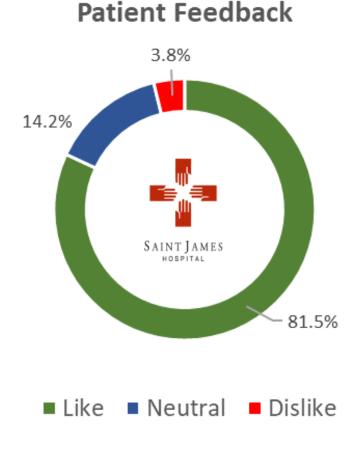
# Do patients welcome automation?

## **Al-enabled Appointment Management**



cbo

## **Automation leads to Transformation**



cbc

- Within 6 months: 35% of all Customer Centre 'calls' managed by Virtual Assistant
- Over 12% of bookings fully automated
- ✓ 10,000+ conversations per month
- ✓ Reduced 28% of all recorded admin time
- Helps manage fluctuations in demand; adoption increases when call volumes and waits increase
- Human handover activity

"Fast, convenient and amazing service"

"Very efficient"

"All quick and perfect"

"Fabulous. Much appreciated"

# How are we going to fund it?



## EBO's Health Fund 'Skunkworks' unlocks £10m in Innovation



- ✓ Co-production of patient pathway automation and true patient-first communications
- ✓ 20 new projects supported with up to 70% project costs covered
- ✓ NHS Trusts & ICSs invited to apply



# Thank you



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 $\square$ 

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Human Conversation Automated



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# **SPEAKING NOW**



## I will be discussing...

"Case Study - Automation in Workforce - North London Partners Shared Service"

#### **Gareth Jones**

Director of Employment Services North London Partners Shared Service - NLPSS





### Digitalisation and RPA in corporate services

Gareth Jones Director of employment services North London Partners Shared Services

Gareth.jones12@nhs.net

## The Vision



 $\rightarrow$  "Nobody joins an HR team to spend the whole day in front of a computer..."

 $\rightarrow$  "There are no more lean efficiencies to be had – it's time to move the dial..."

 $\rightarrow$ Get rid of paper processes, duplication and boring, repetitive data input

 $\rightarrow$  Reduce variation, error and time taken

 $\rightarrow$  Release staff to value-adding, customer-focused tasks

 $\rightarrow$ Improve staff and customer experience



## **Digital tools**



→ Existing systems and technology (TRAC, ESR, One-drive, MS Teams, e-forms...)

 $\rightarrow$ Interfaces

 $\rightarrow$ On-line services

→Automation (STU)

 $\rightarrow$  Workflow tools

 $\rightarrow$  Telephony and CRM systems



## How did we do it?



**Reviewing** applicant and manager feedback and business needs

Agreeing suitable processes for automation – standardised, high volume, low complexity

Involving our staff in process mapping and redesigning roles

Designing and building our processes in collaboration with the automation team

**Supervising**, maintaining and improving our automations

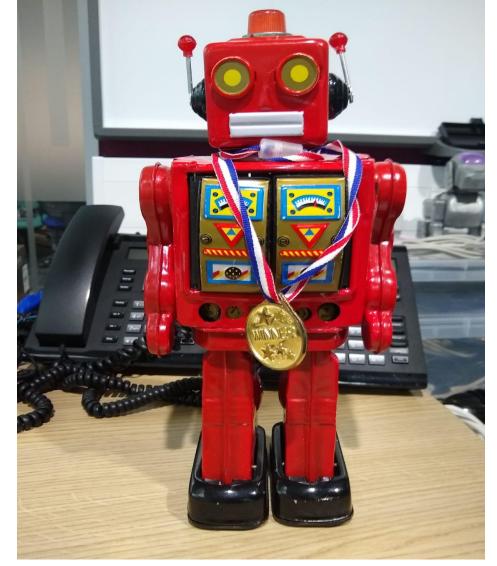


## Partnership – people and machines

- STU stands for "Speed Things Up" and he's our recruitment robot! (We also have robots in other departments, too.)
- We call our robot STU, but actually it's a number of robots that can work on multiple processes at the same time – 24/7, 365 days of the year! We schedule it once, then it runs by itself!
- STU's work is called "robotic process automation" (RPA)
- RPA uses a software programmed to do basic and repetitive digital tasks across multiple applications and systems
- RPA works well for high volume, straightforward processes, not for complex cases requiring human judgement
- RPA is based on pre-defined logic provided by us to RPA team when developing a new RPA process
- STU helps us with straightforward cases in the process, but any complex cases or those which require human judgement are processed manually by recruitment







## **RPA** in shared services



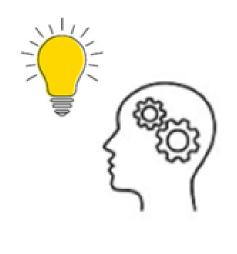
<ul> <li>Recruitment</li> <li>1. Creating e-files</li> <li>2. Conditional offer letters</li> <li>3. Professional registration checks</li> <li>4. Virtual ID checks links</li> <li>5. Virtual ID checks downloads</li> </ul>	<ul> <li>Medical staffing</li> <li>1. Saving TIS spreadsheets</li> <li>2. Trac uploads</li> <li>3. Conditional offers / contracts for new starters</li> <li>4. Rotational change contracts</li> </ul>	<ul> <li>Management support</li> <li>1. Absence reporting</li> <li>2. Employment references</li> <li>3. Amendment to contract letters</li> <li>4. Mortgage references (in progress)</li> <li>5. Appraisal input (in progress)</li> </ul>				
<ol> <li>Virtual ID checks downloads and uploads to Trac</li> <li>Chaser emails</li> <li>Customer satisfaction surveys</li> <li>Zipping (Trac application downloads)</li> <li>Sending e-files</li> </ol>	<ul> <li>Payroll and pensions</li> <li>1. Payroll input for rotational changes</li> <li>2. Payroll hires for new starters (in progress)</li> <li>3. Termination processes for trainees (in progress)</li> </ul>	Occupational Health <ol> <li>EPP form submission</li> <li>OH clearance update on Trac</li> <li>Reminders and chasers (in progress)</li> </ol>				

## How do the team work with STU?











Reviewing RPA business reports and processing exceptions

Reviewing RPA performance

Spotting updates needed/ problem-solving RPA processes Developing/updating RPA processes



## Benefits







RPA in numbers							on Partners				
R	eport Name		Recruitment Reporting								
R	eporting Period Start Date eporting Period End Date otal Processes Ran In Reporting Perio otal Processes Ran Year To Date	d	16/02/2023 23:59 24/02/2023 00:00 43 49					R	oyal Free London	1	
Year To Date Performance								Innovation and Intellig Automation	ent		
	Total Time Worked Year To Date		Total Items Worked - Year To Date		Total Items Complete - Year To Date		Total Business Exceptions - Year To Date		Total System Exceptions - Year To Date		
	453.03:23:38		202.270		148,017		48,263		7,099		
	455.05.25.38	0	203,379		72.8%		23.7%		3.5%		
	Days (24h), hours, mins, secs										

## One week's fully completed items on selected recruitment automations $\rightarrow$

RPA	Completed
Send e-files to partners	665
New starter e-form downloads	412
Virtual ID/RTW checks chasers	253
Zip Trac application	228
Create new e-files	259
Virtual ID/RTW checks PDF downloads	235
Virtual ID/RTW checks guest links	89
Send surveys to candidates & managers	154
Professional registration & HPAN checks	50



## Some more numbers



80/20 rule

*Time period: January to October 2022* 



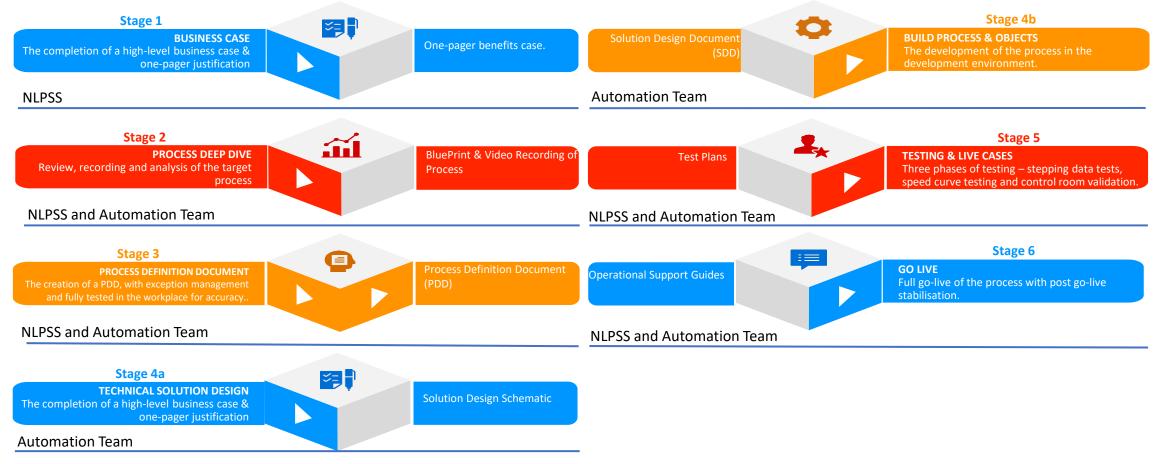
		Shared Services
Automation (snapshot of 8 out of 18 robotic processes in NLPSS recruitment)	Volumes*	Time saved (approx.)
ID/RTW document downloads and uploads to Trac	26 503	984 hours
Zipping	8 969	1 008 hours
Professional registration checks	8 030	816 hours
Virtual ID/RTW links	7 399	384 hours
Offer letters	6 219	816 hours
HEE rotating trainees contracts	4 225	96 hours
HEE rotating trainees ESR changes	3 483	552 hours

2184 hours of PEC time (2 WTE)
2472 hours of non-PEC time (2.3 WTE)
BUT STU is 30% faster, so actually 6053 hours saved (5.6 WTE)

## Robotic Service Developments



#### The Six Stages of Automation





## Implementing the digital agenda

- 1. Involve your staff and customers
- 2. Maximise use of existing technology
- 3. Streamline manual processes
- 4. Get rid of unwarranted variation
- 5. Consider costs vs benefits
- 6. Focus on high volume, low complexity processes
- 7. Create detailed process flows
- 8. Automate for most, not all scenarios (80/20 rule)
- **9.** Allocate resource for review, further development and maintenance









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# **SPEAKING NOW**



#### Leon Stafford

Country Manager for Digital Workforce in the UK - Digital Workforce

#### Juha Järvi

Director of Global Healthcare Digital Workforce

## We will discuss...

"The Time for Change in Healthcare Automation"

#### DIGITAL WORKFORCE SERVICES

# The Time for Change in Healthcare Automation



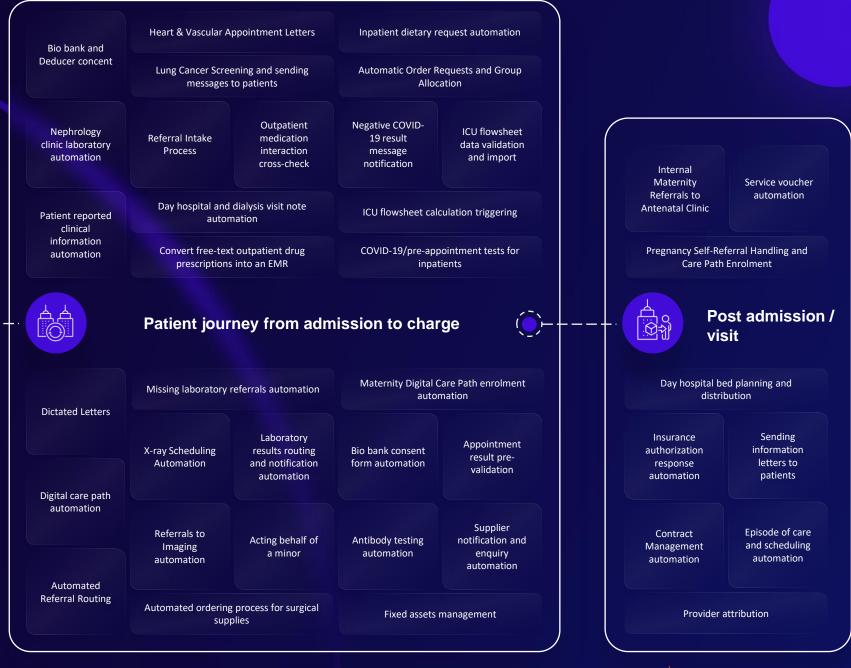
#### Digital Workforce Services plc is a leading pure play Business Automation specialist



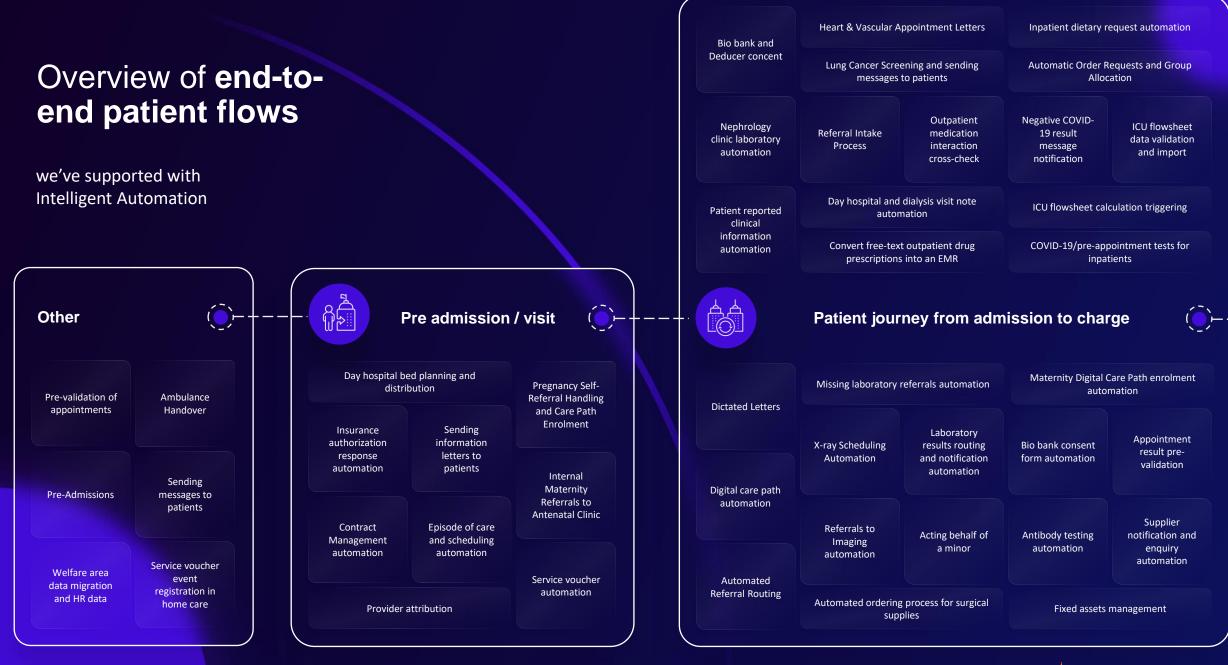
#### Overview of end-toend patient flows

we've supported with Intelligent Automation











Task automation

## provided great FTE savings

but task automation has its limitations to transform the way providers are able to treat their patients



However, less than 5% of job roles can be directly automated

#### McKinsey





## From task automation to Orchestrating Ionger running processes

TASK AUTOMATION RPA & AI: BPM ORCHESTRATION OF HUMANS & RPA & AI:





# Healthcare

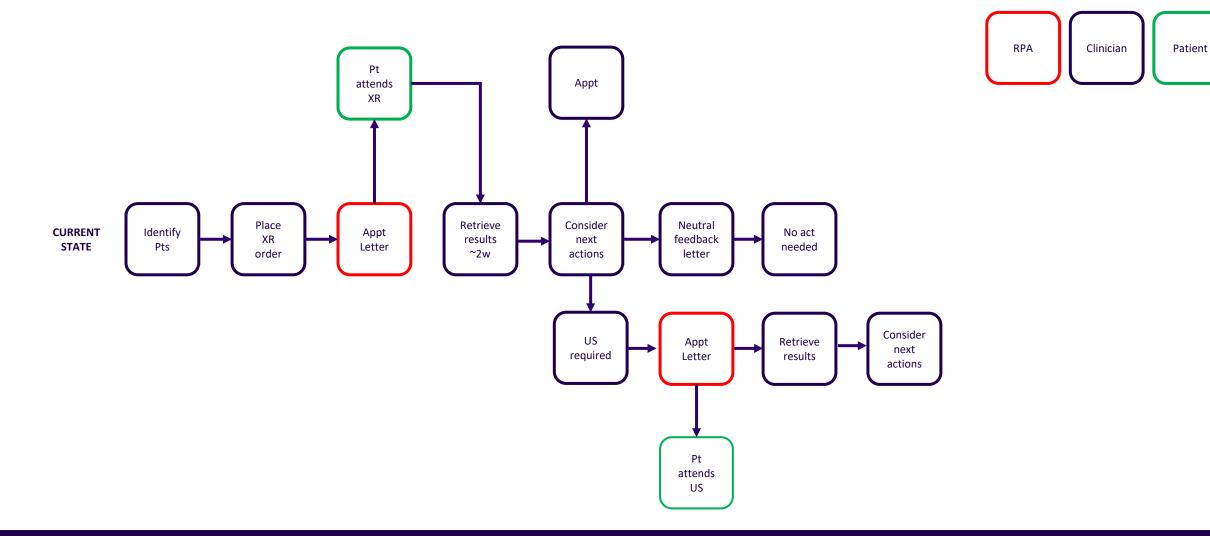
End-to-End automation: Breast Cancer follow-up



- Breast cancer is the most common cancer type. Luckily today over 90% of the patients are still alive after five years after the initial diagnosis
- This great achievement doesn't happen naturally, but it's an outcome of careful follow-up and monitoring throughout the five initial years at least, on top of the acute post-diagnosis treatment
- Follow-up is a process where an individual is subject to several sequential activities on a yearly basis including different actors across number of systems
- Each patient follows the same follow-up protocol:
  - Year 1: Mammography, laboratory tests and nurse's appointment
  - Year 2: Mammography and care feedback letter
  - Year 3: Mammography and nurse's appointment
  - Year 4: Mammography and care feedback letter
  - Year 5: Mammography and doctor's appointment

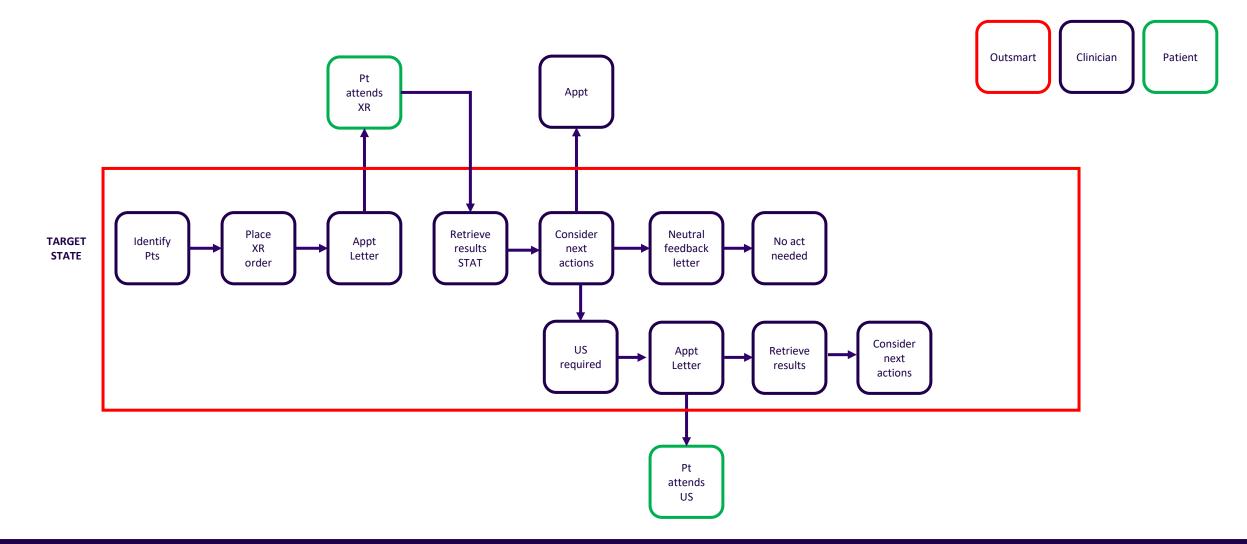
- However, still today even HIMMS hospitals level 5-6 (or similar maturity) rely on very manual and error prone black box processes. Even the most modern EMRs are not designed to facilitate this type of case management and follow-up which requires several manual steps outside the hospital's core EMR, resulting in
  - Poor lead times
  - Poor patient experience
  - · Error prone processes that one or only very few people could be solely responsible for
  - Not very cost effective
  - Zero insights provided to improve the operations or care outcomes or to support research

#### Background From manual repetitive, error-prone workflow





#### Background To fully managed, transparent and automated follow-up





- The management of breast cancer surveillance will be fully automated for the entire five-year period. Patients will be assured of consistent quality follow-up according to a defined protocol.
- The solution provides oncology and breast cancer physicians, nurses and other stakeholders with a **real-time view of the progress of planned care path for a patient group** as well as enabling data management and data utilisation in cancer care research.
- The solution allows providers to improve breast cancer surveillance based on patient preferences, new treatment practices or risk stratification, for example, by creating new care pathways.
- The benefits of our solution include patient safety, consistent care, transparency of monitoring, and the elimination of manual human resources in the areas where solution applies.
- No equivalent solution is reportedly available as a finished product or feature. It is not an automation solution for individual tasks, but **a holistic application to solve a key problem.**

# Digital Workforce UK

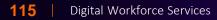
**NHS Service Delivery** 

solutions

Contact us J

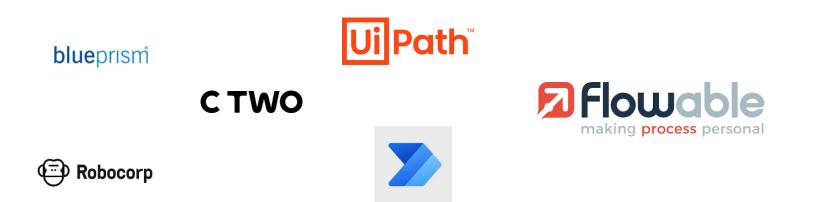
outsmart.app

20



#### Adding value to a mature CoE at University Hospital Birmingham

- The original RPA innovator in the NHS
- Vendor-relationship and CoE: Cycles of build, review and refine processes
- Digital Workforce value-add layer: Robots as a Service (RaaS)
- The **shortfalls of single-tool RPA**: When you only have a hammer, your useful function is limited to nails
- True Value-Add Consulting: What is the best tool for this job? Can we pay per Minute? Can we have a 2-hour fix Guarantee?



NHS

University Hospitals Birmingham NHS Foundation Trust



#### Automation as a Service in ED and Maternity at PHU

- Slow growth CoE with Vendor: Inconsistent Staffing
- Chose high-impact Automation: Emergency Department
- As a Service Delivery model: P1 Support Classification
- RaaS risk versus reward
- BadgerNet-wrapper in Maternity 11 FTE Cost avoidance; Reduced Decision Fatigue
- HIMMS Digitisation Agenda: Visit to HIMMS Digital examplars, HUS



Portsmouth Hospitals University NHS Trust



Please speak to the team today, we also have several of the UHB Team here.

Please also find our updated IA Whitepaper: How to Maximize the Productivity of Your RPA Program <a href="https://digitalworkforce.com/rpa-news/white-paper-how-to-maximize-the-productivity-of-your-rpa-program/">https://digitalworkforce.com/rpa-news/white-paper-how-to-maximize-the-productivity-of-your-rpa-program/</a>

Harriet Thomas-Bailey will be in-touch to get feedback





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## **Event Chair – Chair Afternoon Address**



## Darren Atkins

Chief Technology Officer - Intelligent Automation The Royal Free London NHS Trust



THE TIME FOR CHANGE

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### **Q&A PANEL**



GP Partner The Brooke Surgery

#### Shay Kuponu

GP Partner The Brooke Surgery

### We will discuss...

"How can Automation can help Primary Care?"



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# Q&A Session Automation in the Real World



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## **THANKS FOR ATTENDING**



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#### **THE NHS RPA LIVE CONFERENCE NORTH 2023**



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