Health Innovation East Midlands

East Midlands Digital Health Accelerator 2023 Showcase Event

Thursday 30th November 2023

Health Innovation East Midlands

Introduction

Tim Robinson

Commercial Director - Health Innovation East Midlands

Health Innovation East Midlands

Welcome!

East Midlands DIGITAL HEALTH ACCELERATOR

Schedule

Health Innovation East Midlands

Time	Item	Lead
13:00 – 13:10	Introductions and overview of Health Innovation East Midlands	Tim Robinson
13:10 – 13:20	Overview of East Midlands Digital Health Accelerator	Dawn Plummer
Innovator showcase		
13:20 – 13:35	Compassly	Jonathan Knight
13:35 – 13:50	Download Learning / Atrainability	Adam Beard / Trevor Dale
13:50 – 14:05	Fika	Nick Bennett
14:05 – 14:20	MyOpNotes	Grant Nolan
Break		
14:30 – 14:40	Digital and Data Transformation providing effective solutions to the challenges faced in the NHS	Will Monaghan
14:40 – 15:10	Open forum / audience Q&A	All
15:10 – 15:20	Looking ahead to East Midlands Digital Health Accelerator 2024	Nick Hamilton
15:20 – 15:30	Closing remarks	Tim Robinson

East Midlands DIGITAL HEALTH ACCELERATOR

Our support and expertise

Health Innovation East Midlands

- One of 15 health innovation networks across England, we are the East Midlands NHS innovation arm.
- With 10 years expertise at adoption of transformative technologies and pathways, via our pipeline we help identify and import solutions to their challenges
- We are funded by the NHS – our core support and services are free to local NHS partners
- Outside our core support we take on additional paid commissioners via our commercial vehicle ‘Ignite’

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A unique role

Health Innovation East Midlands

- The value of the health innovation network lies in the collective expertise and knowledge of its 15 members
- We have agility within our local regions and an ability to respond to local needs, coupled with a drive to tackle national priorities at pace and scale
- We are the only NHS agencies that collaborate across all sectors with a role in health innovation, transformation and improvement.

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Our mission

Health Innovation East Midlands

Our continuing mission is to spread healthcare innovation at pace and scale

Improving health

Driving down costs

Stimulating economic growth

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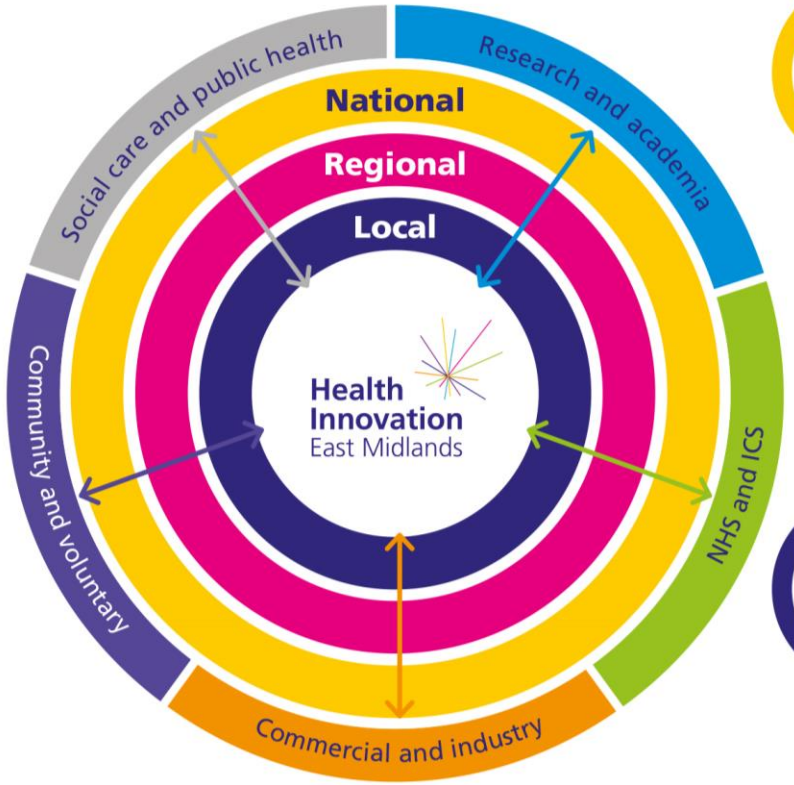
East Midlands region

- Population of **4.9 million**
- **5** Integrated Care Systems (ICS)
- **93** Primary Care Networks (PCNs)
- **1** Ambulance Trust
- **8** Acute Trusts
- **5** Mental Health Trusts
- **2** Community Trusts
- **10** Upper Tier / Unitary Councils
- **9** Universities

East Midlands
DIGITAL HEALTH
ACCELERATOR

Innovation landscape

Health Innovation East Midlands



National

Commissioners:
- Innovation, Research and Life Sciences and Accelerated Access Collaborative, NHS England
- Office for Life Sciences
- Health Innovation Network (15 HINs)

Regional
- NHS England - Midlands
- Health Innovation West Midlands
- Midlands Engine
- Midlands Health Alliance
- Health Education England (Midlands)
- Centre for Ethnic Health

Local

Serving the innovation needs of 5 Integrated Care Systems
- Joined Up Care Derbyshire
- Leicester, Leicestershire and Rutland ICS
- Lincolnshire ICS
- Northamptonshire ICS
- Nottingham and Nottinghamshire ICS

Cross-sector Local Partners
- Ambulance Trust x 1
- Acute Trusts x 8
- Mental Health Trusts x 5
- Community Trusts x 2
- Care homes x 1550
- Upper Tier Councils / Health and Wellbeing Boards x 10
- Primary Care Networks x 93
- National Institute for Health and Care Research Clinical Research Network (NIHR CRN)
- NIHR Applied Research Collaboration (NIHR ARC)
- Universities x 9
- Midlands Clinical Senate
- East Midlands Imaging Network (EMRAD)
- Midlands Mental Health Alliance
- Midlands Cancer Alliance
- Medilink Midlands
- Healthwatch x 6
- East Midlands PPI Senate
- Centre for Healthcare Equipment & Technology Adoption (CHEATA)
- Science and technology parks
- Office for Health Improvement and Disparities

East Mi
DIGIT

Our 10-year impacts 2013 to 2023

Health Innovation East Midlands

780,000

Patients have been positively impacted through our work

£153.7M

Our value to the East Midlands health & care system – achieved against a funding envelope of £46.7M

1,082

East Midlands organisations benefiting from our expertise

East Midlands DIGITAL HEALTH ACCELERATOR

Our next licence: Same support and expertise, new name

- The Department for Health and Social Care announced on 26 May that England's 15 AHSNs will be relicensed for five more years from October 2023
- Our name also changed to **'Health Innovation East Midlands'** to better reflect our role as the innovation arm of the NHS for the region
- We will build on our positive contribution since we were set up in 2013 – over the past 10 years across the East Midlands we have benefited over 1.1M patients and generated £133M of value for the East Midlands health and care system, achieved against £46.7M funding.
- Our remit will stay the same – providing you with access to proven innovations and expert services.

Health Innovation East Midlands

Health Innovation East Midlands

East Midlands DIGITAL HEALTH ACCELERATOR

East Midlands Digital Health Accelerator

Dawn Plummer

Digital Health Innovation Lead – Health Innovation East Midlands

Purpose

The East Midlands Digital Health Accelerator (EMDHA) is designed to help high potential start-ups and SMEs to refine, develop and scale their digital innovations in the East Midlands

The programme provides tailored support to these high potential start-ups, such as:

- **1 to 1 advice**
- **Guidance and direction**
- **Masterclasses with subject matter experts**
- **Opportunities to showcase their innovations with stakeholders**
- **Brokering connections and providing resource to support adoption**

We have successfully supported a number of companies to scale their business and created spread and adoption opportunities in the region and nationally across the Health Innovation Network

Alumni

Health Innovation East Midlands

iethico

Surgery Hero
(formerly Sapien Health)

spirit digital

howz

VOLMO MEDICAL
Striving for excellence in digital diagnostic and patient specific implants

R CARE

KIDS SPEECH LABS

TCC
colorectal . cardiovascular . orthopaedic . neuro . vascular . general . derm.

MEMORY LANE GAMES

ISLA

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East Midlands Digital Health Accelerator highlights

19
companies supported since the East Midlands Digital Health Accelerator programme began in 2018

9
connections brokered into the East Midlands health and care system as part of our current cohort

8/10
companies have used our support to spread their innovations outside of the East Midlands

Supported the economic growth of:

17
jobs created or safeguarded

£789k
public investment secured

£4.58m
private investment secured

EMDHA desired outcomes (ABC!)

Health Innovation East Midlands

Adoption

Supported digital health innovations are adopted and used in the East Midlands health and care system.

Benefit

Innovators produce credible and generalisable evidence of benefit and efficacy to support wider spread and adoption.

Commercialisation

Supported companies grow and are able to sustain their innovation, generating economic growth and investment into the sector.

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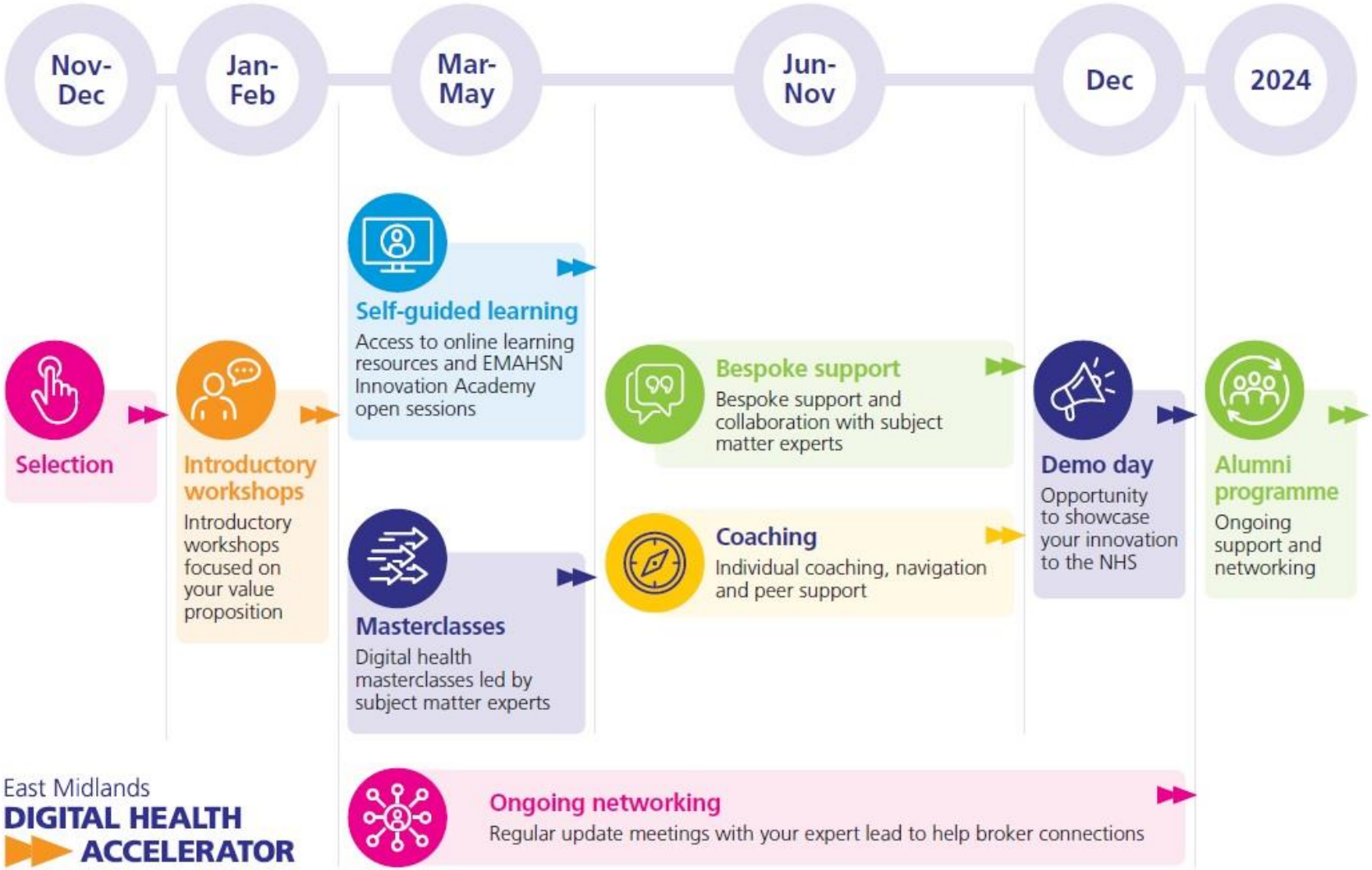
Accelerator programme



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ACCELERATOR

Health Innovation East Midlands

Pioneer

MILLS & REEVE
Achieve more. Together.

ETHOS

ORCHA

Waymark®
Dynamic Digital Futures™

Impacts – what have we delivered this year?

Health Innovation East Midlands

- Delivered 5 masterclasses to the group on a range of topics
- Pre-accelerator 3 day session covering topics including customer discovery, value proposition and elevator pitch
- ORCHA subscriptions for DTAC accreditation for 3 innovators
- Brokered conversations to interested stakeholders within our region

East Midlands DIGITAL HEALTH ACCELERATOR

Projects emerging from this years cohort…

- Download Learning / EMAS
  - Transforming the practice educator training module to condense from 2 days to a half day session.
  - HIEM are evaluating the impact on training times and acceptability during 23/24.
- Compassly
  - Aiming to evaluate the impact of their upcoming roll out at NGH
  - Exploring other Acute trust implementations

Our 2023 theme and cohort

Health Innovation East Midlands

- Our theme for 2023 was ‘workforce’ recognising that recruiting, supporting and retaining our staff is one of the biggest challenges for health and social care currently
- Our cohort provide a wide range of innovations that aim to improve the experience of our staff within their working environments and reduce some of their burdens
- Our innovators are here today to introduce their solutions and the benefits they can offer to our local organisations

East Midlands DIGITAL HEALTH ACCELERATOR

Health Innovation East Midlands

Innovator Showcase

East Midlands Digital Health Accelerator 2023 Cohort

Health Innovation East Midlands

Compassly

Jonathan Knight – CEO & Co-Founder

Compassly

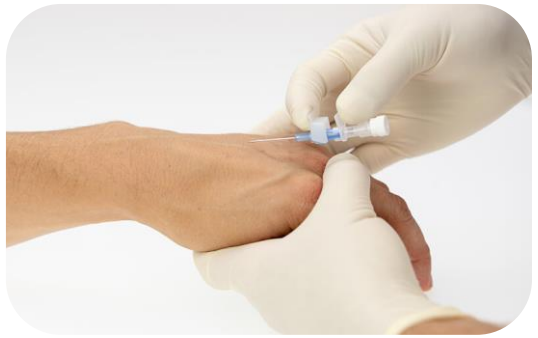
Competency Passport

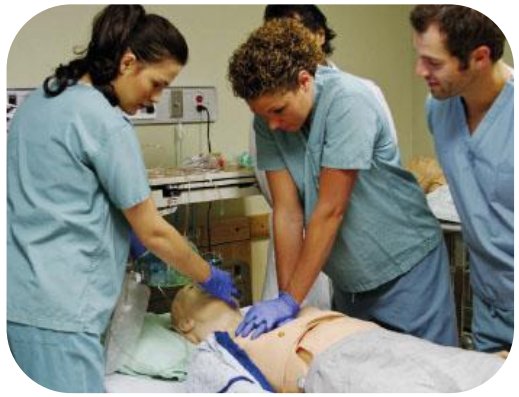
Jonathan Knight
CEO & Co-founder

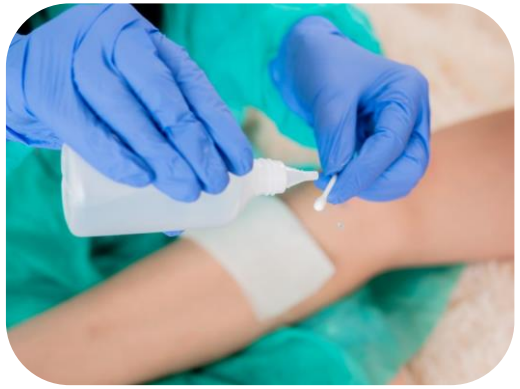
Tefogo

jonathan@tefogo.com

What are clinical competencies?







Competencies are critical for:

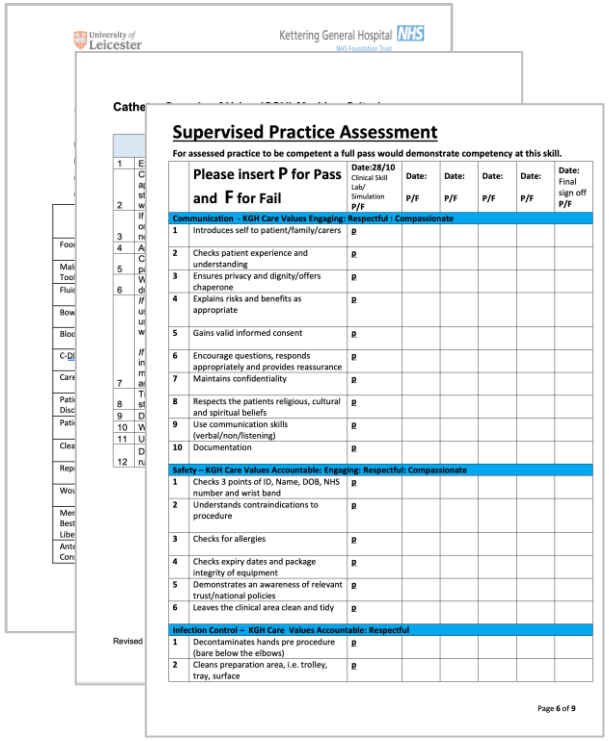
- Safety and care of patients
- Professional development of staff
- Understanding skills of workforce

A major challenge:

- Hundreds of competencies
- >1 million UK HCPs, thousands in each provider
- All healthcare settings

Why is this a challenge?

Forms are printed for each staff member



University of Leicester — Kettering General Hospital NHS

Supervised Practice Assessment

For assessed practice to be competent a full pass would demonstrate competency at this skill.

	Please insert P for Pass and F for Fail	Date:28/10 Clinical Skill Lab/ Simulation P/F	Date: P/F	Date: P/F	Date: P/F	Date: P/F	Date: Final sign off P/F
Communication - KGH Care Values Engaging: Respectful : Compassionate							
1	Introduces self to patient/family/carers	p					
2	Checks patient experience and understanding	p					
3	Ensures privacy and dignity/offers chaperone	p					
4	Explains risks and benefits as appropriate	p					
5	Gains valid informed consent	p					
6	Encourage questions, responds appropriately and provides reassurance	p					
7	Maintains confidentiality	p					
8	Respects the patients religious, cultural and spiritual beliefs	p					
9	Use communication skills (verbal/non/listening)	p					
10	Documentation	p					
Safety – KGH Care Values Accountable: Engaging: Respectful: Compassionate							
1	Checks 3 points of ID, Name, DOB, NHS number and wrist band	p					
2	Understands contraindications to procedure	p					
3	Checks for allergies	p					
4	Checks expiry dates and package integrity of equipment	p					
5	Demonstrates an awareness of relevant trust/national policies	p					
6	Leaves the clinical area clean and tidy	p					
Infection Control – KGH Care Values Accountable: Respectful							
1	Decontaminates hands pre procedure (bare below the elbows)	p					
2	Cleans preparation area, i.e. trolley, tray, surface	p					

Page 6 of 9

… and stored in folders on the ward

Real-life example from a single ward – each folder represents an individual person

Competencies are not portable

Organisation 1

Build up competencies

Documentation paper-based on the ward

Organisation 2

Move to a new hospital

Paper records cannot move

Organisation 2 must make a choice…

Take it all on trust

--- Or ---

Waste their & supervisor's time repeating

These records too will stay on the ward…

The workforce issues caused by competencies are widespread

Poor competency management…

Paper records lead to haphazard competency management

Causes numerous issues…

Staff repeat competencies – a waste of time and insulting

Assigned competencies are not completed and drift over time

Prejudice and unequal opportunities are easily hidden

Competencies inconsistently assigned, creating uncertainty

Impacts on staff…

Nurses fail to progress and professionally develop

Teamwork breaks down, resentment builds

Staff become disengaged and disheartened

Impacts on hospitals

Staff get stuck, and cannot operate at their full potential

Retention and recruitment even more challenging

Remaining staff come under greater pressure

Compassly (Competency Passport) makes all of this simple

Each organisation can easily add competencies to their digital library...

... or use shared libraries from other organisations and standards bodies

Libraries are live and dynamic, easy to update and maintain

Rules help build "Job Descriptions" as competency portfolios for each role

New staff can join quickly and easily

Each staff member instantly gets a consistent, perfectly suited set of competencies

Assessments can be carried out on phones, tablets or computers

Competencies are also saved in each a personal passport for future use

Leaders can access reports to understand competencies and ensure appropriate skill mix and staff professional development

It also works across organisations

Single set of expert competencies

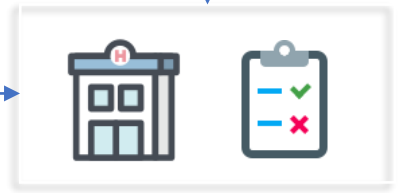
Update live

...shared nationally

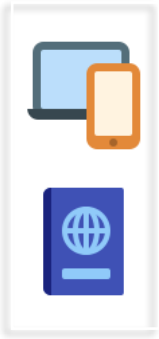
Users create login, join org

Choose modules

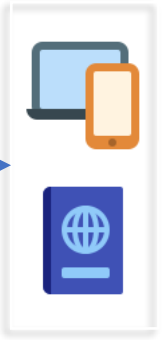
New org, same passport



Choose modules



Competencies digitally saved in passport

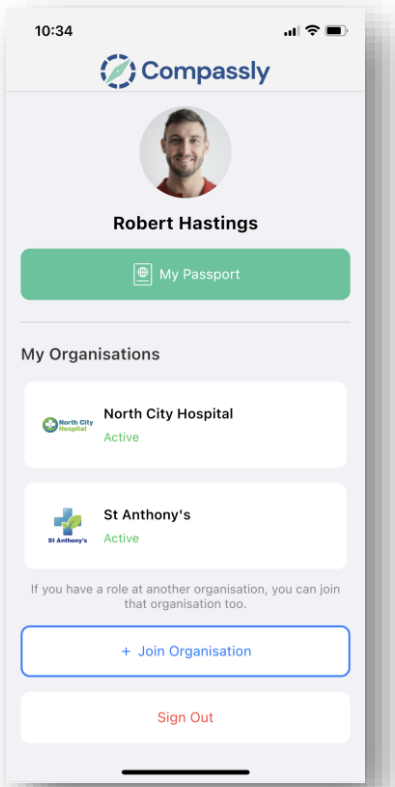


Continue, localise, renew

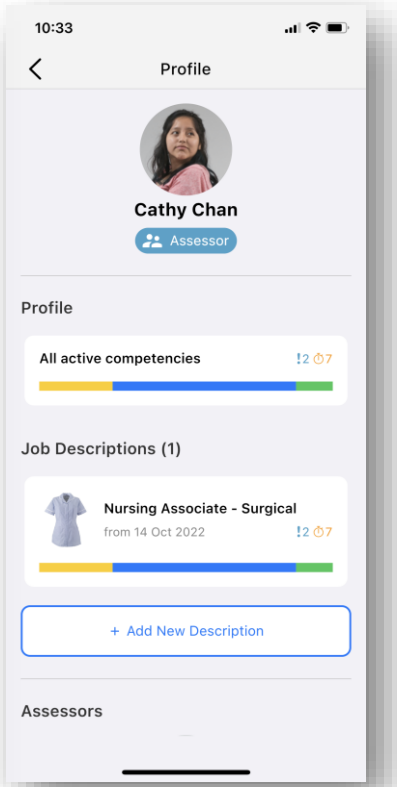
Compassly
Competency Passport

Beautifully simple. Incredibly powerful.

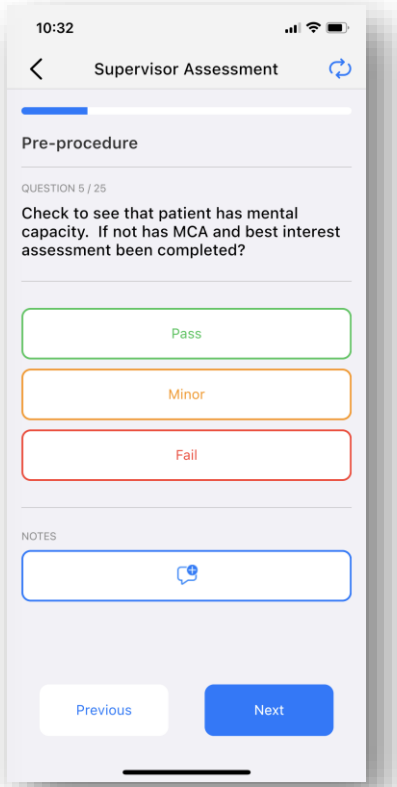
Portable



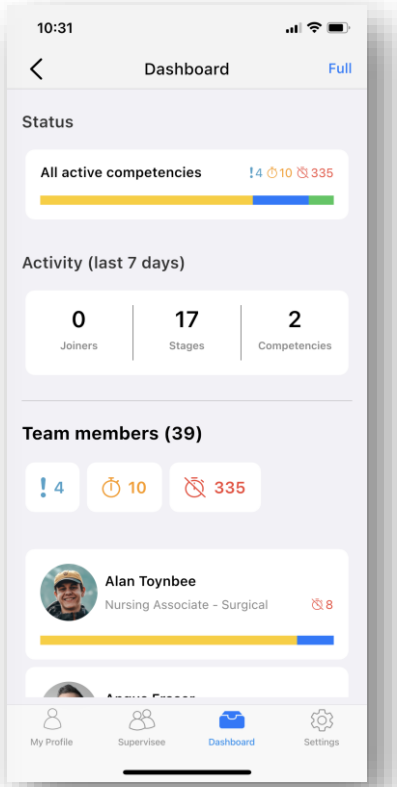
Personalised



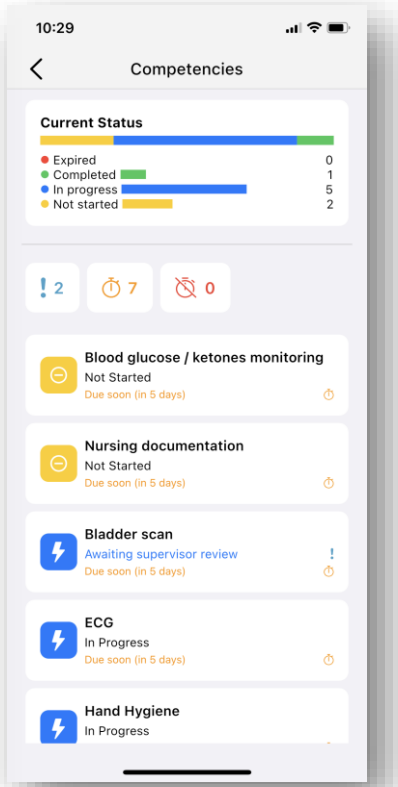
Quick



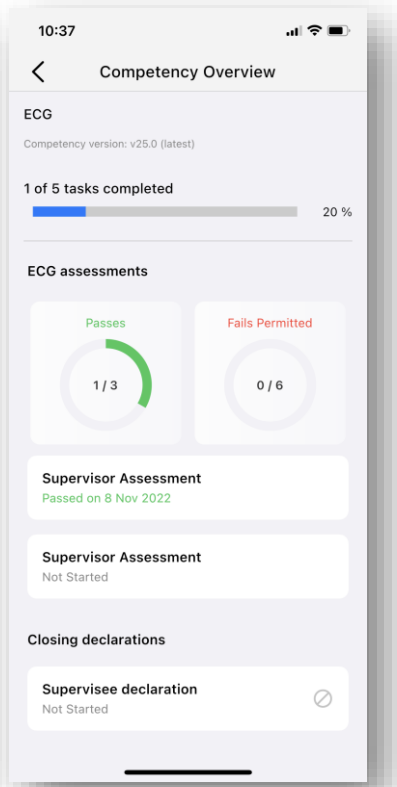
Live



Actionable

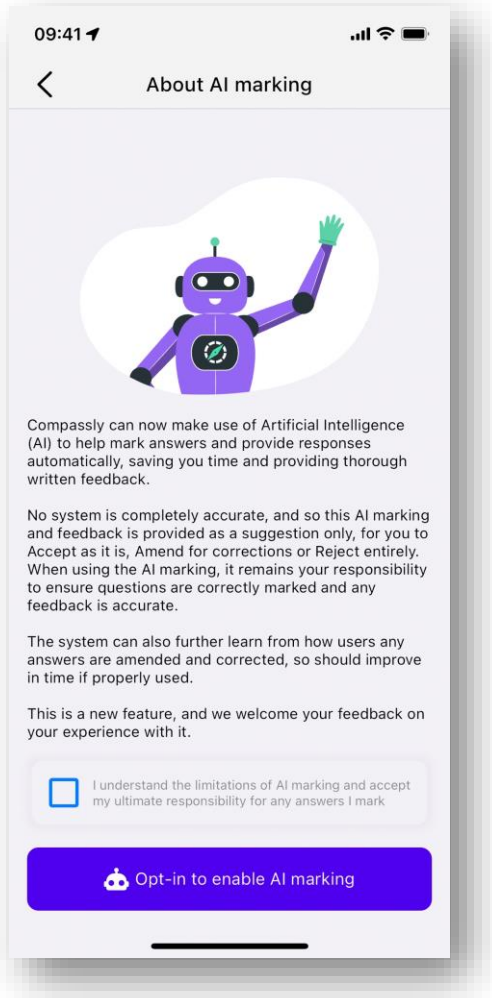


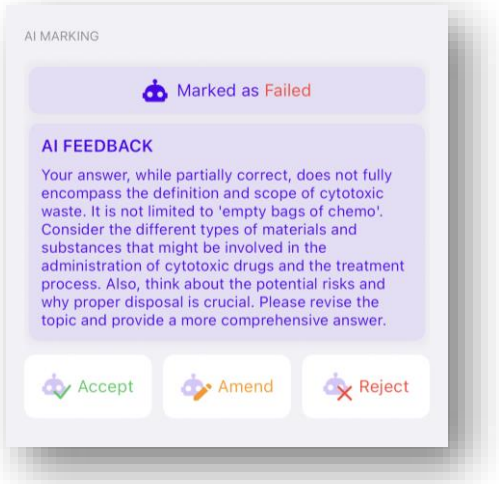
Configurable



Compassly
Competency Passport

Innovative use of Artificial Intelligence





- Releases tons of time
- Detailed, precise feedback
- Rapid turnaround
- Consistently high standard
- Reduces drudgery

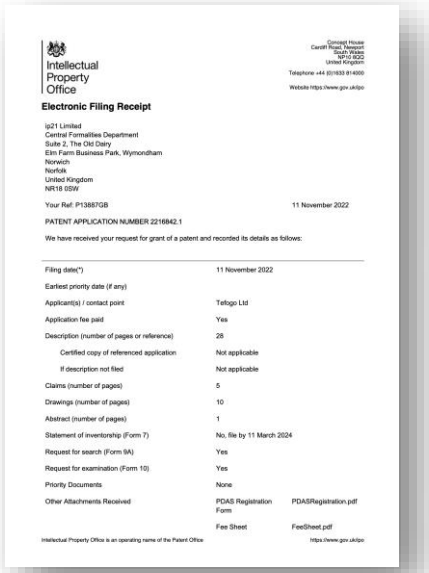
Innovative IP

Grant (2020)
Sustainable Innovation Fund

Winner (2021)
IP Audit Plus Scheme

Winner (2022)
IP Access Grant

Patent Pending
UK Patent 2216842.1
International Patent 1200509166


Intellectual Property Office

Electronic Filing Receipt

ip21 Limited
Central Formalities Department
Suite 2, The Old Dairy
Elm Farm Business Park, Wymondham
Norwich
Norfolk
United Kingdom
NR18 0SW

Your Ref: P13887GB

11 November 2022

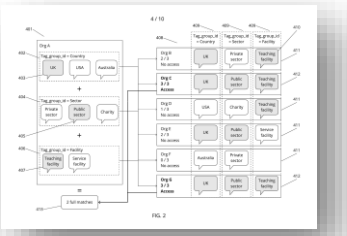
PATENT APPLICATION NUMBER 2216842.1

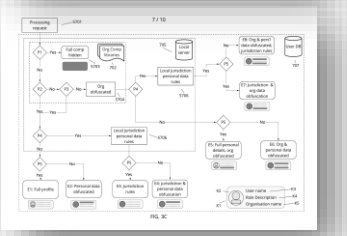
We have received your request for grant of a patent and recorded its details as follows:

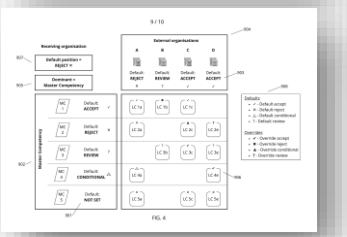
Filing date(*)	11 November 2022
Earliest priority date (if any)	
Applicant(s) / contact point	Tefogo Ltd
Application fee paid	Yes
Description (number of pages or reference)	28
Certified copy of referenced application	Not applicable
If description not filed	Not applicable
Claims (number of pages)	5
Drawings (number of pages)	10
Abstract (number of pages)	1
Statement of inventorship (Form 7)	No, file by 11 March 2024
Request for search (Form 9A)	Yes
Request for examination (Form 10)	Yes
Priority Documents	None
Other Attachments Received	PDAS Registration Form: PDASRegistration.pdf
	Fee Sheet: FeeSheet.pdf

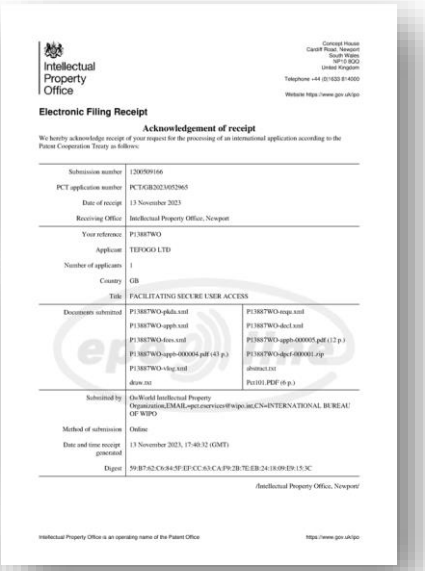
Intellectual Property Office is an operating name of the Patent Office

https://www.gov.uk/ipo








Intellectual Property Office

Electronic Filing Receipt

Acknowledgement of receipt

We hereby acknowledge receipt of your request for the processing of an international application according to the Patent Cooperation Treaty as follows:

Submission number	1200509166
PCT application number	PCT/GB2023/052965
Date of receipt	13 November 2023
Receiving Office	Intellectual Property Office, Newport
Your reference	P13887WO
Applicant	TEFOGO LTD
Number of applicants	1
Country	GB
Title	FACILITATING SECURE USER ACCESS
Documents submitted	P13887WO-pkda.xml P13887WO-appb.xml P13887WO-fees.xml P13887WO-appb-000004.pdf (43 p.) P13887WO-vlog.xml draw.txt
	P13887WO-eqas.xml P13887WO-decl.xml P13887WO-appb-000005.pdf (12 p.) P13887WO-dpcf-000001.zip abstract.txt Pat101.PDF (6 p.)
Submitted by	OnWorld Intellectual Property Organization,EMAIL=epct.eservices@wipo.int,CN=INTERNATIONAL BUREAU OF WIPO
Method of submission	Online
Date and time receipt generated	13 November 2023, 17:40:32 (GMT)
Digest	59:B7:62:C6:84:5F:EF:CC:63:CA:F9:2B:7E:EB:24:18:09:E9:15:5C

/Intellectual Property Office, Newport/

Intellectual Property Office is an operating name of the Patent Office

https://www.gov.uk/ipo

Compassly
Competency Passport

Brings a wide range of benefits

Empowers the workforce


Transferable & recognised skills


Motivation, reducing attrition


Clear role expectations


Competencies completed on time


Transparent and fair for all staff

Supports the organisation


Frees up time to care


Teams operate at full capability


Full workforce oversight


Optimal workforce deployment


Eliminate all paper

Across the whole system


Maintain latest standards


Easily scalable, hospital to national


Full assurance for regulators


Sharing best-practice


Relevant & consistent skills

Safer, more effective care

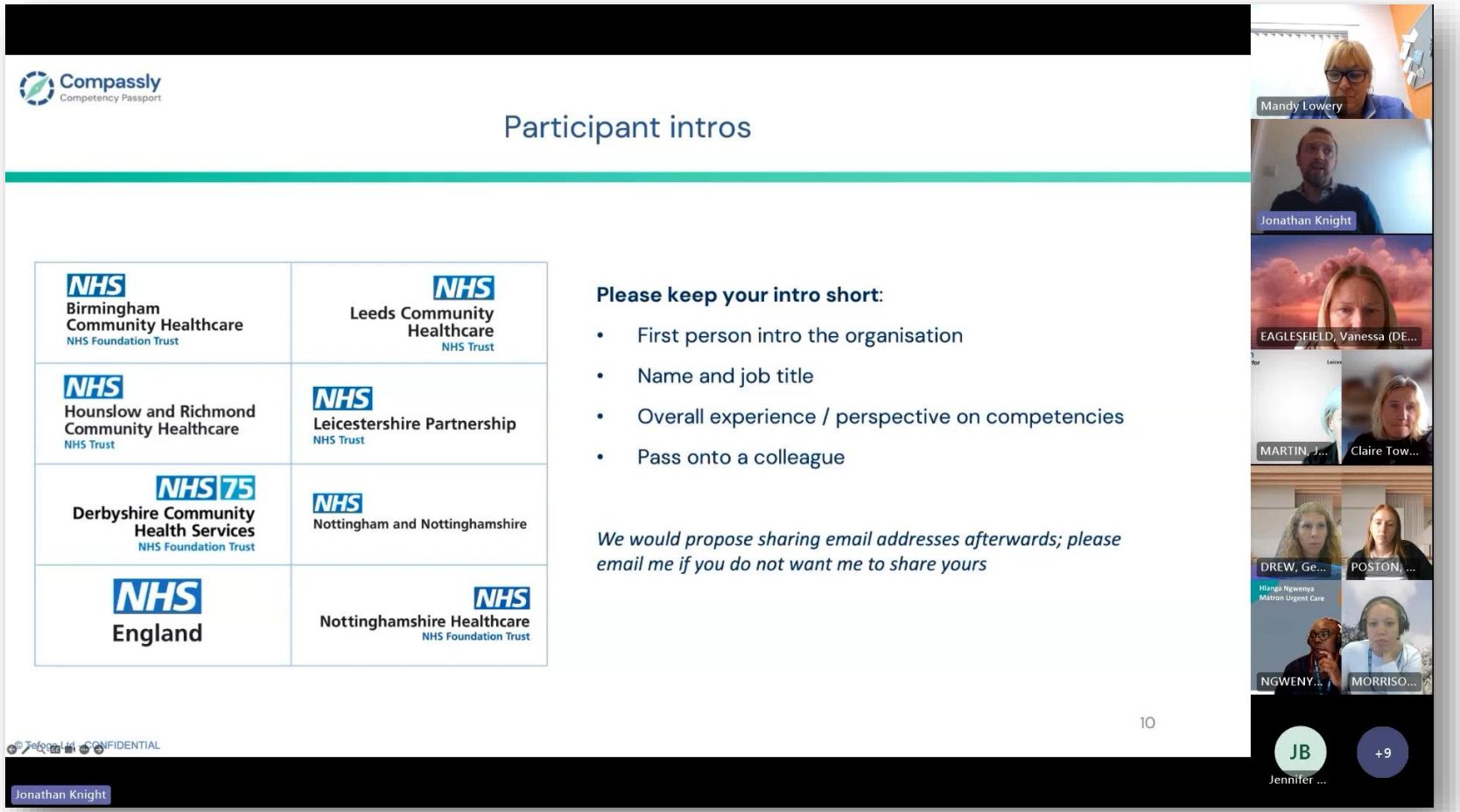
EMDHA highlights: Working in the region

NHS
Kettering General Hospital
NHS Foundation Trust

NHS
Northampton General Hospital
NHS Trust

EMDHA highlights: NHS Confed Expo innovation zone

EMDHA highlights: Round table events in the region



Launch of national passports

Compassly
Competency Passport

Compassly is already in use in more than 60 NHS organisations

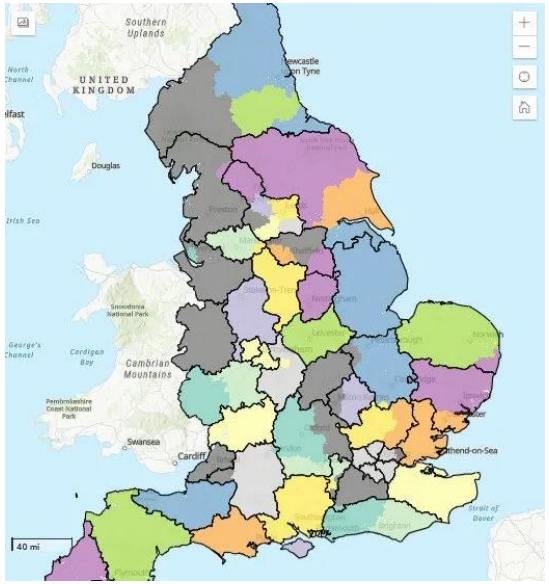
2024: Reaching more healthcare professionals

National roll-out

>150 NHS Trusts
(90% of acute providers)

>10,000 clinical users

ICS-level projects



Trust-level implementations

NHS Foundation Trust

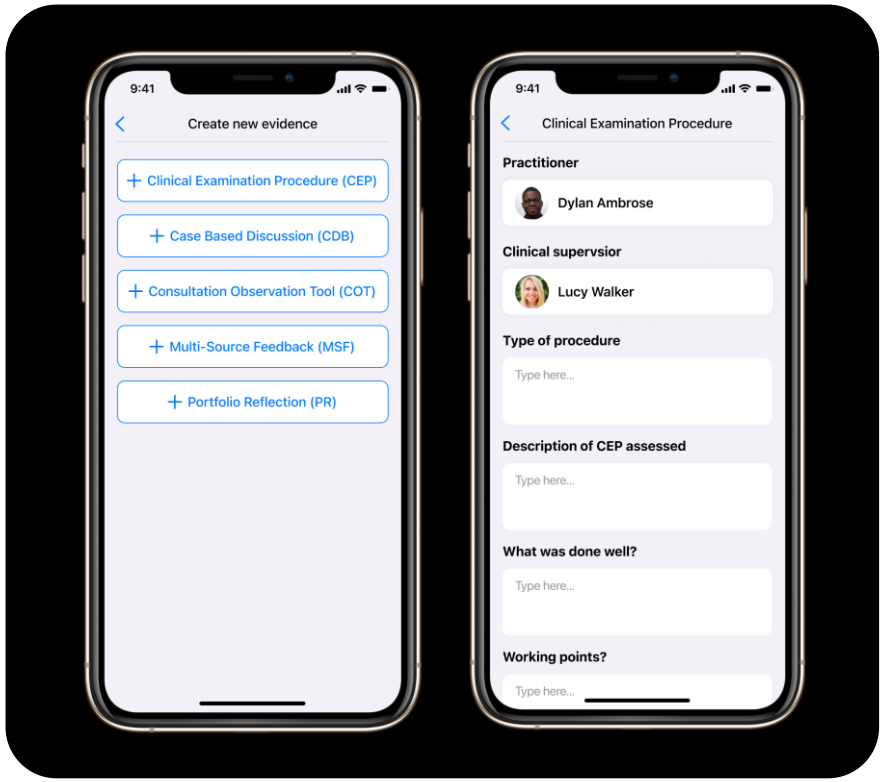
NHS Foundation Trust

NHS Foundation Trust

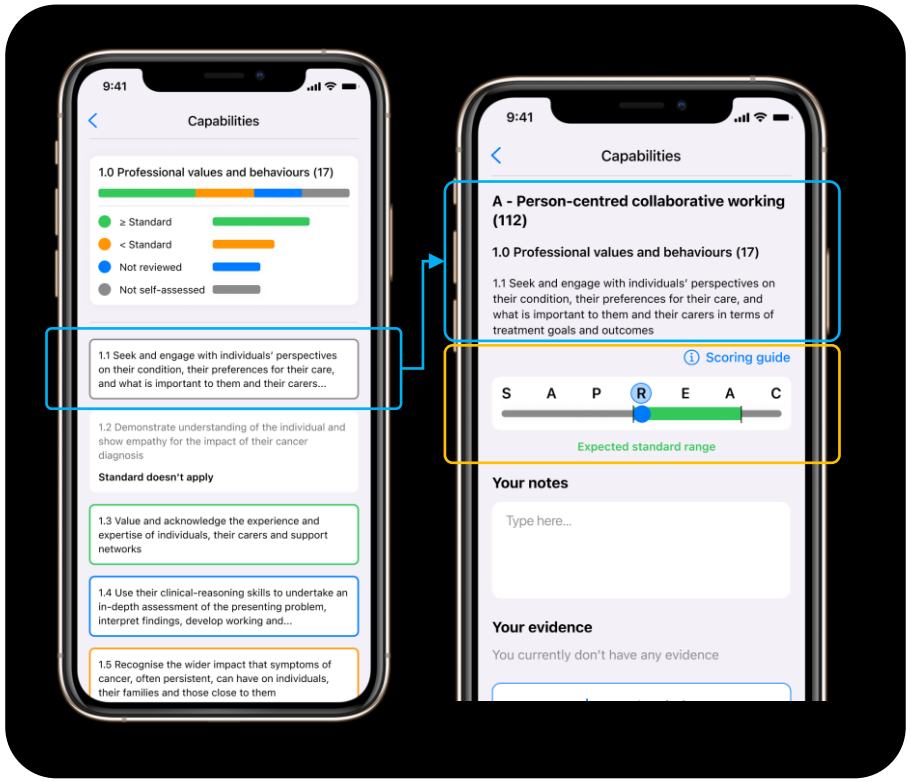
Compassly
Competency Passport

2024: Product extension

Preceptorship
(Induction and other programmes)



Capability frameworks
(Local & national)



Our ask to you today

The response has been fantastic…

It's a great app and the whole thing has been set up very well.

I feel like you've looked into my soul, found our greatest problems and answered them all

It's so easy to use. Love that the references are in the app

It's amazing - marked the core section in 20 mins while drinking tea

… but we want to reach more people

Our asks today:

- Contacts in your Trust or ICS
- Nursing, workforce, practice development
- Make the introduction & we will send them this overview

Our promise to you:

- Respectful of their time
- Interesting and valuable
- No hard sell

Thank you – and any questions?

Ask me now

Send me an email

Jonathan Knight
CEO & Co-founder

Tefogo

jonathan@tefogo.com

Compassly
Competency Passport

Health Innovation East Midlands

Download Learning Atrainability

Adam Beard – Managing Director & Co-Founder

Trevor Dale - Director

Changing the Learning Paradigm

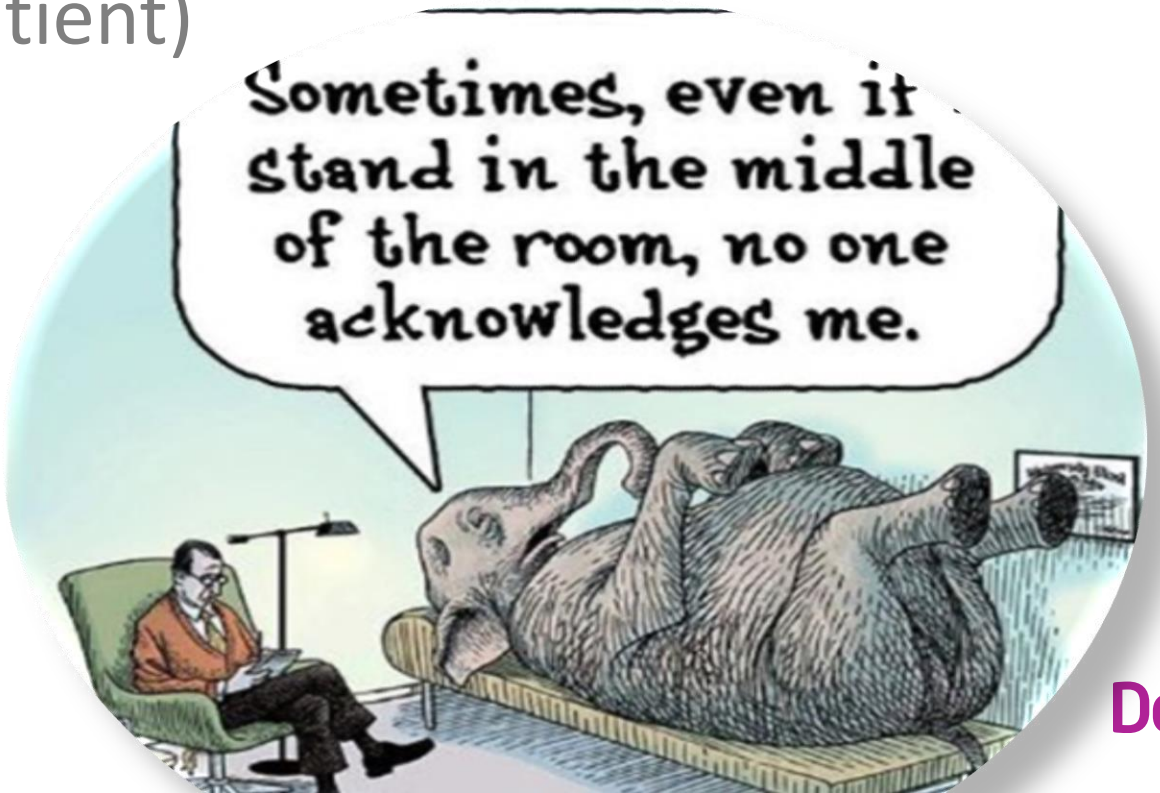
in Order to Improve Patient Safety

Are Current Training Methods Working?

Compensation claims cost the NHS £2.5bn in 2021/22

Recurrent avoidable patient safety issues;

- Sepsis (Deteriorating Patient)
- Medicine management
- Surgical errors
- Maternity…



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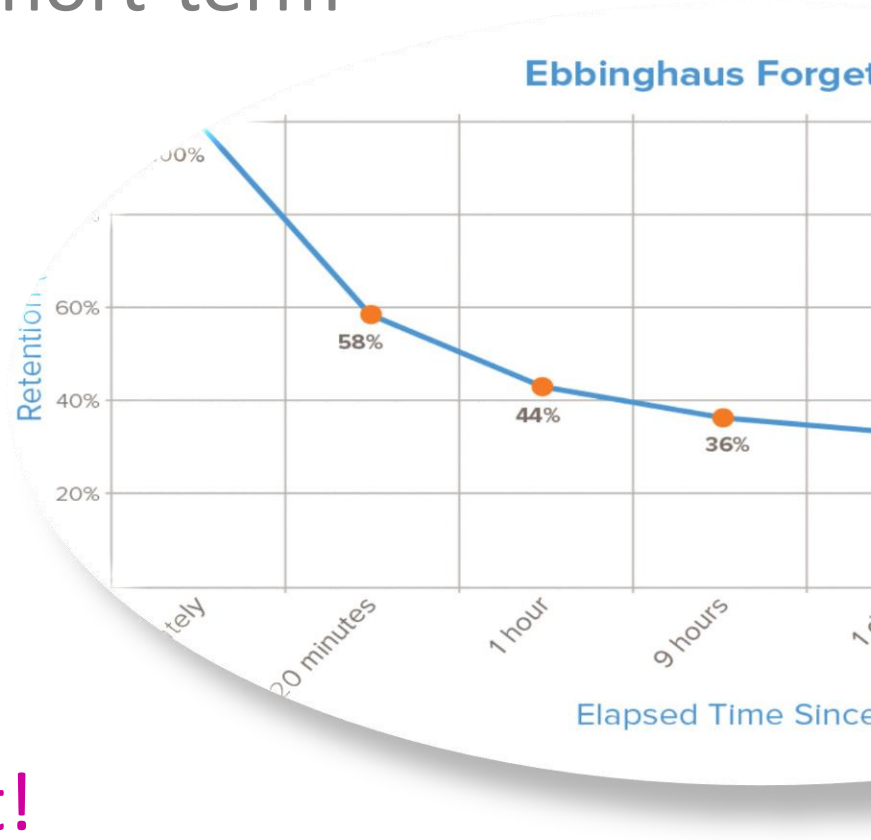
The Current Learning Paradigm

All current learning methods address the short-term (working) memory

The short-term memory:

- Degrades (Ebbinghaus Forgetting Curve)
- Has limited capacity (Magic Number 7)

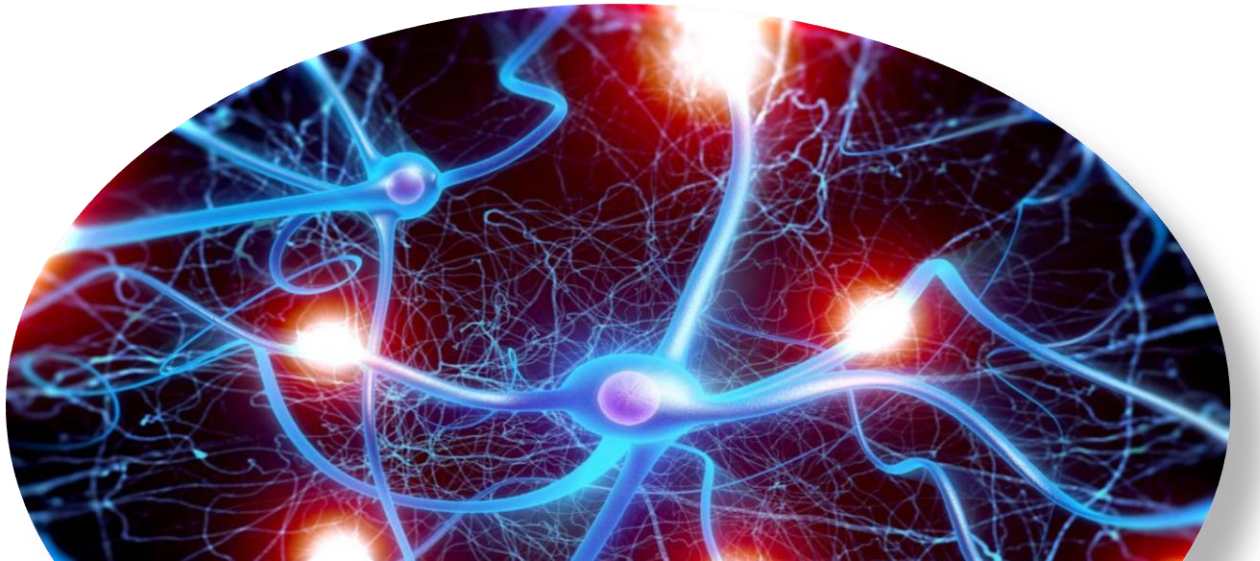


If you can't remember it, you can't apply it!

The Neuroscience of Learning

Short-term Memory

- Dedicated synapses
- Synapses randomly reset
- Memory lost



Long-term Memory

- Dedicated synapses
- Reset in a set sequence
- Three stimuli to ‘fix’ a synapse
- Memory embedded
- 300,000 times more powerful than the short-term memory

Time Sequenced Learning (TSL)

- Embeds knowledge directly into the long-term memory within one learning period
  - Reduces learning times by 75-96%
    - Improved knowledge acquisition
      - Improved knowledge retention
        - Improved application
        - Improved confidence

Validation

- Douglas R Fields; the neuroscience
- Dr Paul Kelly; the application
- University of Surrey Learning Tournament
- UCL Time Sequenced Learning Action Research
- Case Studies
- EMAS pilot
- PubMed;
  - Spaced education Improves the Retention of Laparoscopic Suturing Skills
  - Spaced learning for continuous professional development in primary care

Download™

Benefits

- Improved learning outcomes = improved behaviours
- Reduced training time;
  - reduces operational impact of training
  - reduces backfill with cost and continuity benefits
  - reduces time pressures (stress) on learners

Reduced training time + better learning outcomes = improved patient care

Time Sequenced Learning in Action

Private Healthcare Provider

- High level of patient safety incidents
- CQC threat of licence withdrawal
- Download HF and Just Culture modules made mandatory
- Dramatic drop in incidents

Police Stop & Search

- Two-day classroom-based course
- One-hour TSL module
- 17,000 training days saved (3 Forces)
- No loss of learning outcome

Download™

Offering

- Identification of training needs and scalable solutions
- Business case development
- Co-creation of solutions
- Testing and metrics

- £2-20 per head training cost

Download™

Any Questions?

Health Innovation East Midlands

Fika

Nick Bennett – Co-Founder & Co-CEO

fika

Micro-training performance platform
Trusted by the leaders of 50 organisations

Allianz ZURICH NHS The ROYAL MARSDEN NHS Foundation Trust The Newcastle upon Tyne Hospitals NHS Foundation Trust

Nick Bennett
Co-Founder & Co-CEO

nick@fika.community

fika

What is declining performance and staff attrition costing your NHS trust?

fika

Fika predicts the risk

Burnout	59%
Disengagement	45%
Job satisfaction	6/10
Productivity	74%
Thinking of quitting	54%

All of the science references and conditions

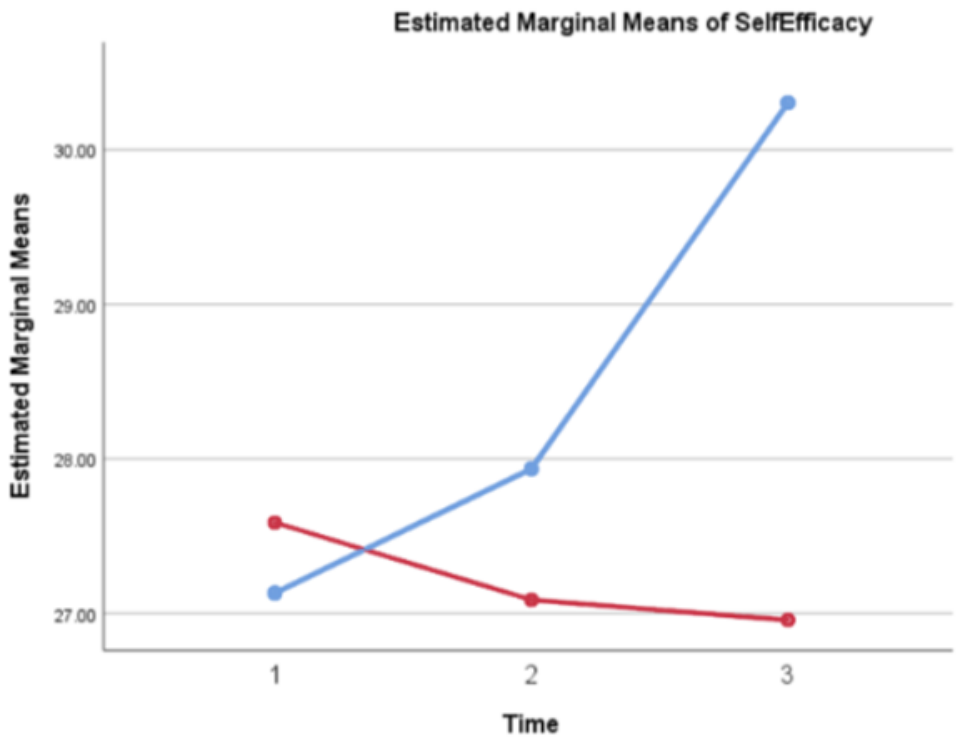
fika

Fika predicts the risk		Prevents the risk with micro-training	
Burnout	59% ↓	20%	Reducing teams mental overload builds stamina and focus
Disengagement	45% ↓	13%	Boosting engagement helps your teams thrive and hit targets
Job satisfaction	6/10 ↑	8/10	Happy teams who respect and trust each other stay together
Productivity	74% ↑	78%	Help your teams work at peak and win without burning out
Thinking of quitting	54% ↓	21%	Reducing impact of quiet quitting and save on re hiring costs

All of the science references and conditions

Fika predicts the risk		Prevents the risk with micro-training		Calculates the cost avoidance
Burnout	59% ↓	20%	Reducing teams mental overload builds stamina and focus	750 Employee number
Disengagement	45% ↓	13%	Boosting engagement helps your teams thrive and hit targets	30 Avg. Hours worked per week
Job satisfaction	6/10 ↑	8/10	Happy teams who respect and trust each other stay together	£30k Avg. Annual salary
Productivity	74% ↑	78%	Help your teams work at peak and win without burning out	Annual cost avoidance **£904k** ROI of 1:47
Thinking of quitting	54% ↓	21%	Reducing impact of quiet quitting and save on re hiring costs	

All of the science references and conditions



fika

RCT evidence base

Fika prevents performance and health decline and increases performance.

Prevention not treatment

fika

Reach out to see how we can reduce risk for the people of your NHS trust

Allianz · ZURICH · NHS · The ROYAL MARSDEN NHS Foundation Trust · NHS The Newcastle upon Tyne Hospitals NHS Foundation Trust

Nick Bennett
Co-Founder & Co-CEO

nick@fika.community

Health Innovation East Midlands

MyOpNotes

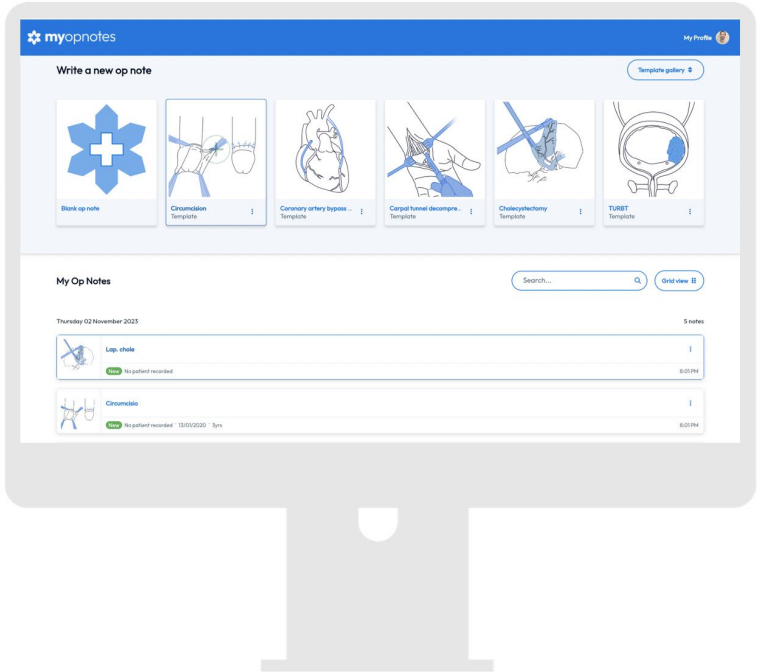
Grant Nolan – Co-Founder

myopnotes

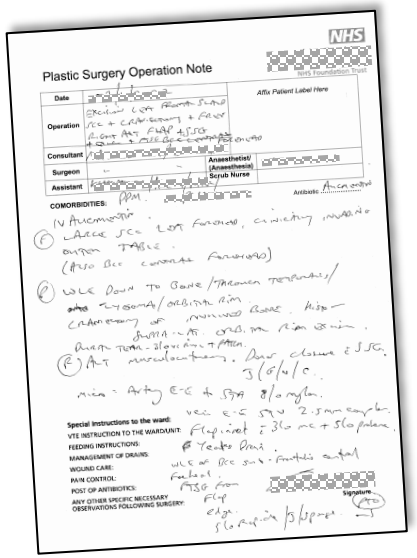
We help hospitals get fairly paid for surgery

Digital surgical documentation that:

- Saves surgeons' time
- Improves patient outcomes
- Increases revenue



Clinical coding is how NHS hospitals get paid



J19
GA0

£

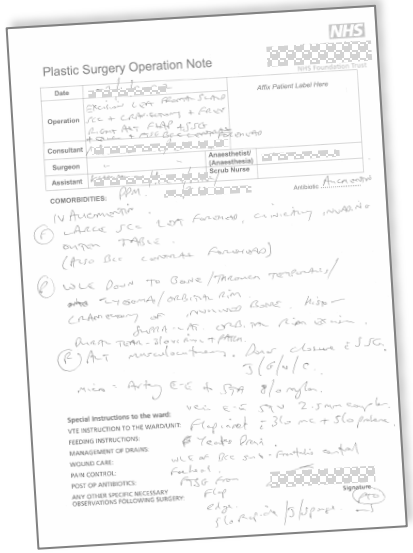
1. Patient discharged

2. Notes reviewed

3. Codes assigned

4. Hospital reimbursed

Clinical coding is how NHS hospitals get paid



Up to

67%

inaccurate

£

1. Patient discharged

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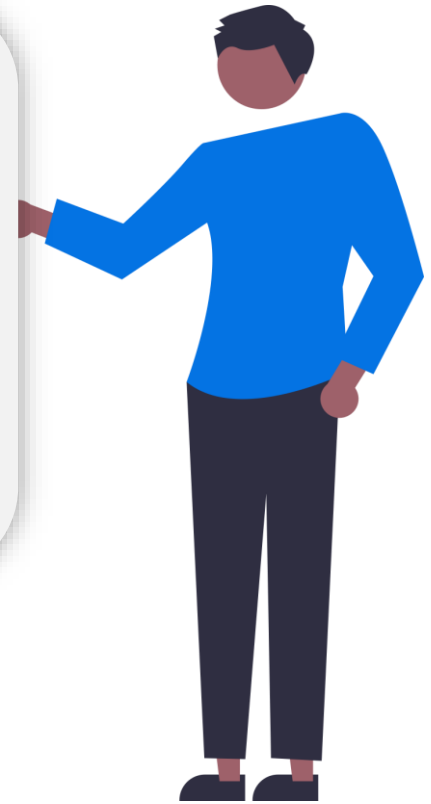
The cost of inaccurate clinical coding

-£6.7M

Per NHS Trust

-£1.52Bn

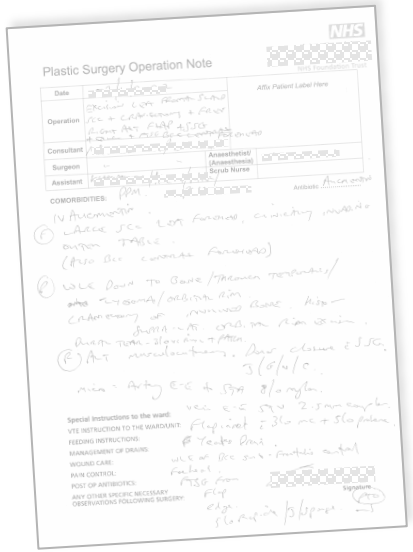
Across the NHS



Dr Grant Nolan

Plastic Surgery Registrar

Clinical coding is how NHS hospitals get paid



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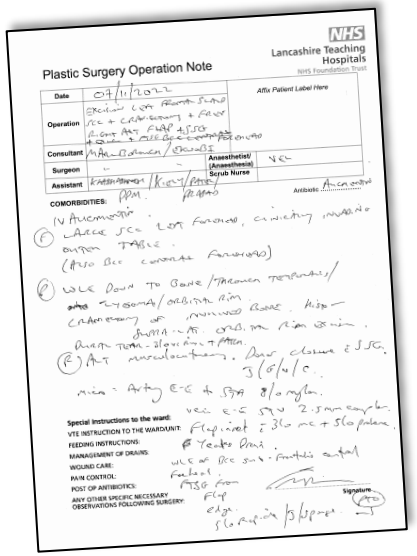
Plastic Surgery Operation Note

NHS Lancashire Teaching Hospitals NHS Foundation Trust

Date 04/11/2022

Affix Patient Label Here

Operation

Consultant

Surgeon

Assistant

Anaesthetist(s) (Anaesthesia)

Scrub Nurse

COMORBIDITIES:

Special Instructions to the ward:

VTE INSTRUCTION TO THE WARD/UNIT:

FEEDING INSTRUCTIONS:

MANAGEMENT OF DRAINS:

WOUND CARE:

PAIN CONTROL:

POST OP ANTIBIOTICS:

ANY OTHER SPECIFIC NECESSARY OBSERVATIONS FOLLOWING SURGERY:

Signature

Up to

67%

inaccurate

£

1. Patient discharged

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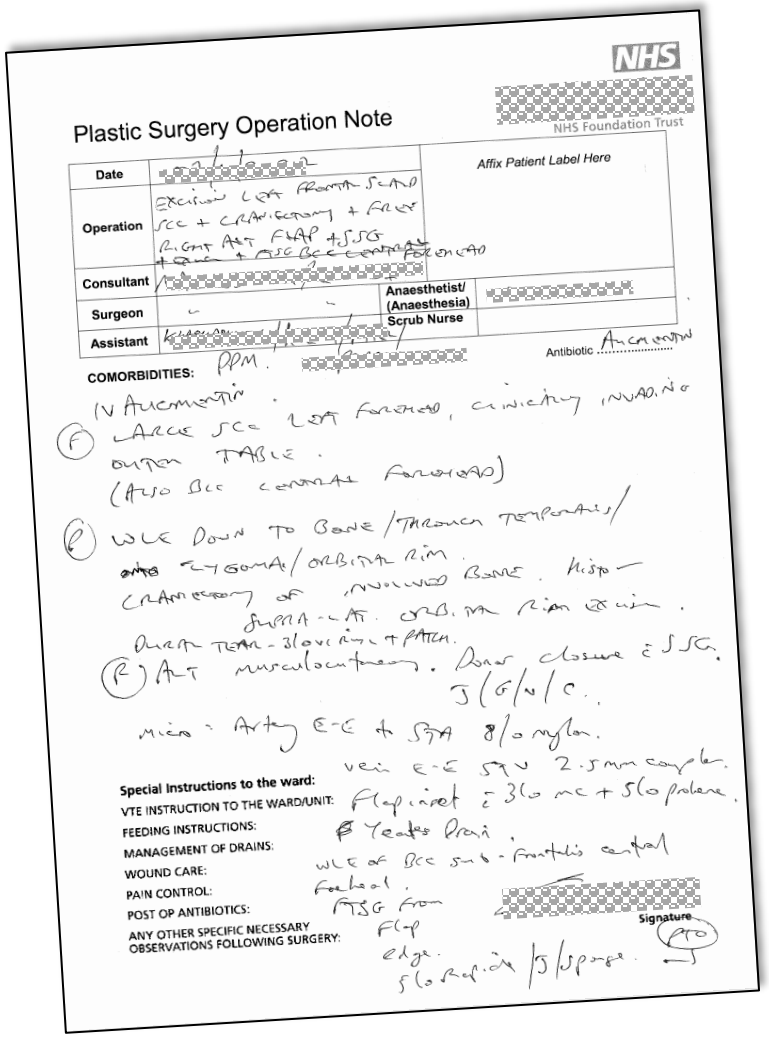
For clinical coding, Sh*t in = Sh*t out



NHS

NHS Foundation Trust

Plastic Surgery Operation Note

Date	Affix Patient Label Here
Operation	
Consultant	
Surgeon	Anaesthetist/ (Anaesthesia) Scrub Nurse
Assistant	

COMORBIDITIES:

Antibiotic

Special Instructions to the ward:
VTE INSTRUCTION TO THE WARD/UNIT:
FEEDING INSTRUCTIONS:
MANAGEMENT OF DRAINS:
WOUND CARE:
PAIN CONTROL:
POST OP ANTIBIOTICS:
ANY OTHER SPECIFIC NECESSARY OBSERVATIONS FOLLOWING SURGERY:

Signature

"If it wasn't written down, it didn't happen"

Omissions & Inaccuracies

- 90% of unstructured surgical documentation

Unstandardised nature

- Makes it easy to forget key details

~~Illegibility~~

- ~~Up to 70%~~ in some cases

<u>Only</u> part that is solved by an EPR!

Introducing:

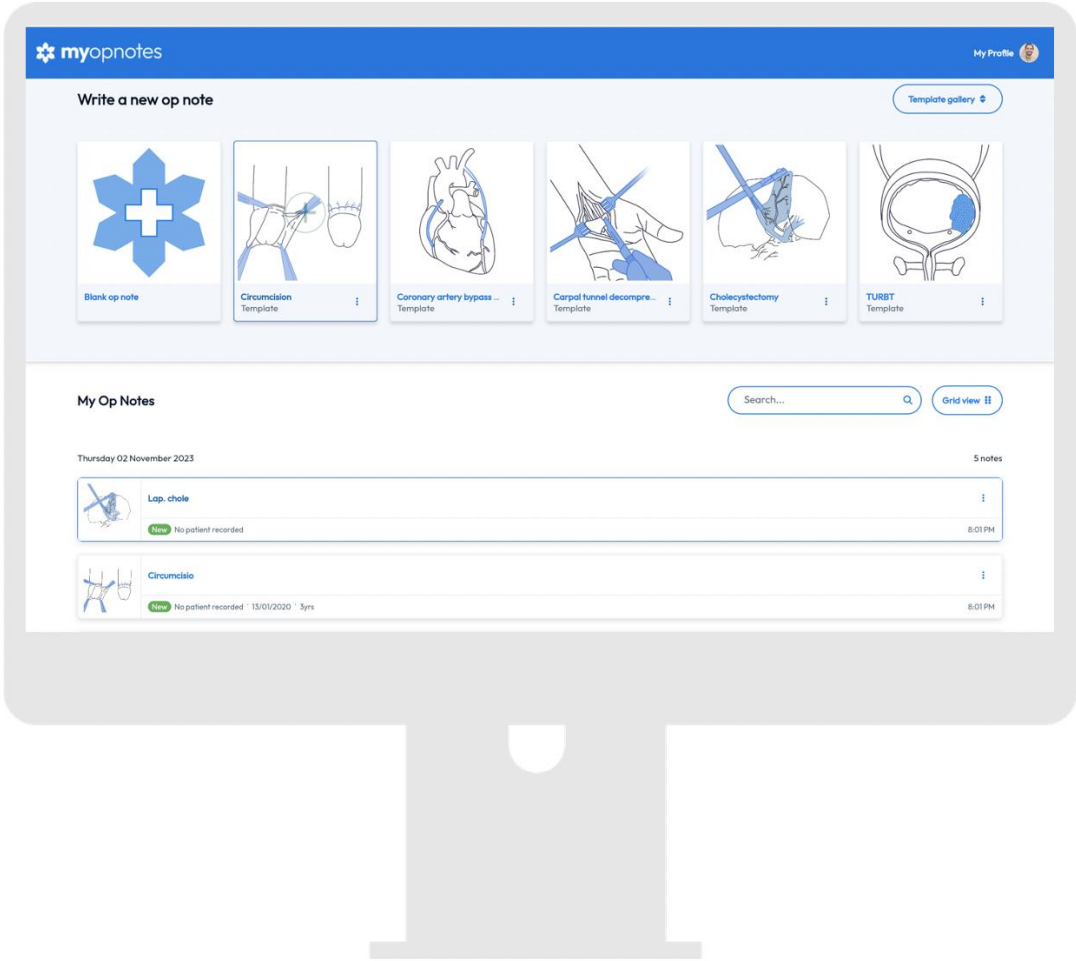
myopnotes

- **my**opnotes is a **digital platform** containing a **library** of standardised **smart templates.**
- These are designed by surgeons for surgeons to **address inaccurate reimbursement.**

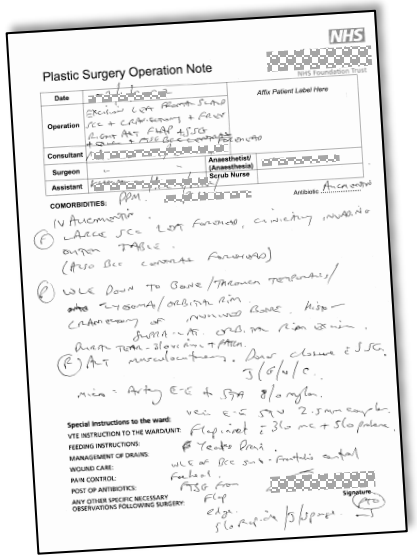
USP: *Captures high-accuracy & complete data*

Improved patient care

Enhanced hospital reimbursement via improved Clinical Coding



With **my**opnotes



Plastic Surgery Operation Note

NHS

J19
GA0

£

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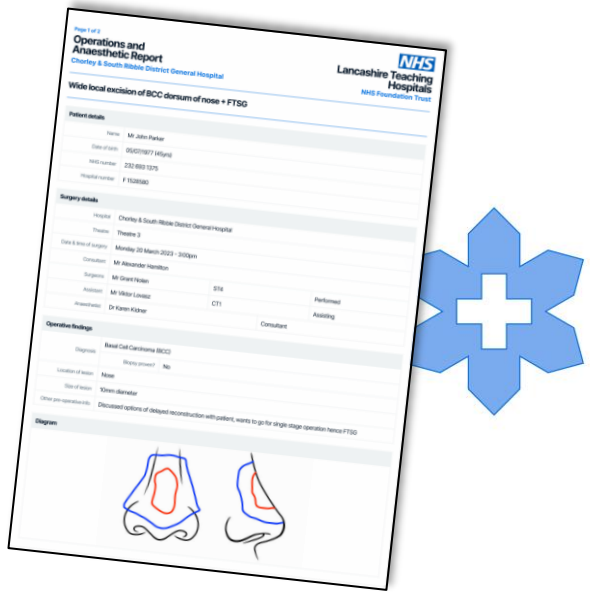

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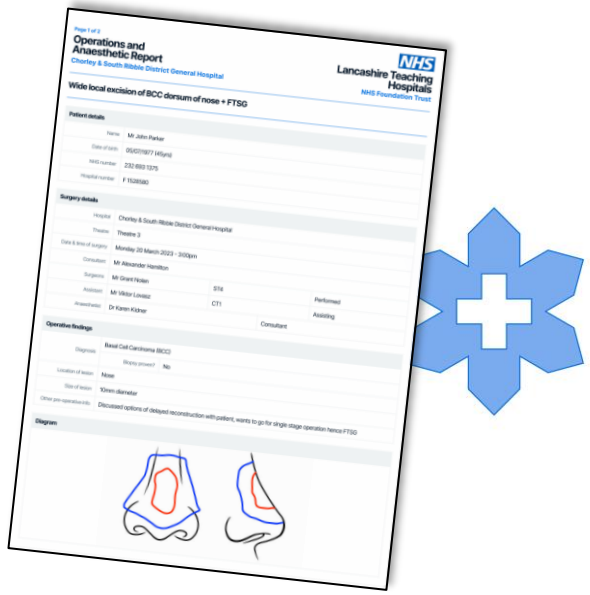

J19.**2**
GA0.**5**
N30.4
M81.4

£

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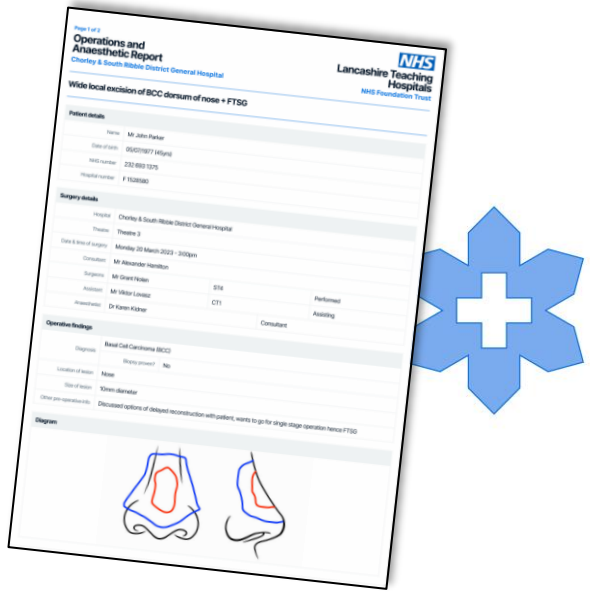
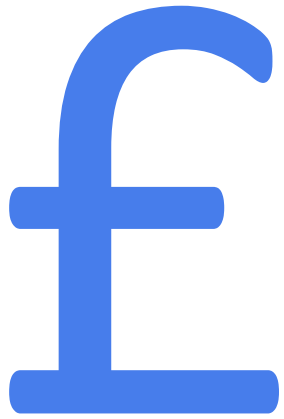
With **my**opnotes



J19.**2**
GA0.**5**
N30.4
M81.4



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3. Codes assigned

4. Hospital reimbursed

Does **my**opnotes only improve clinical coding?

Healthcare professionals

- Time savings
- Reduces complaints and litigation
- Safe task delegation
- Data for research / audit

myopnotes

Patients

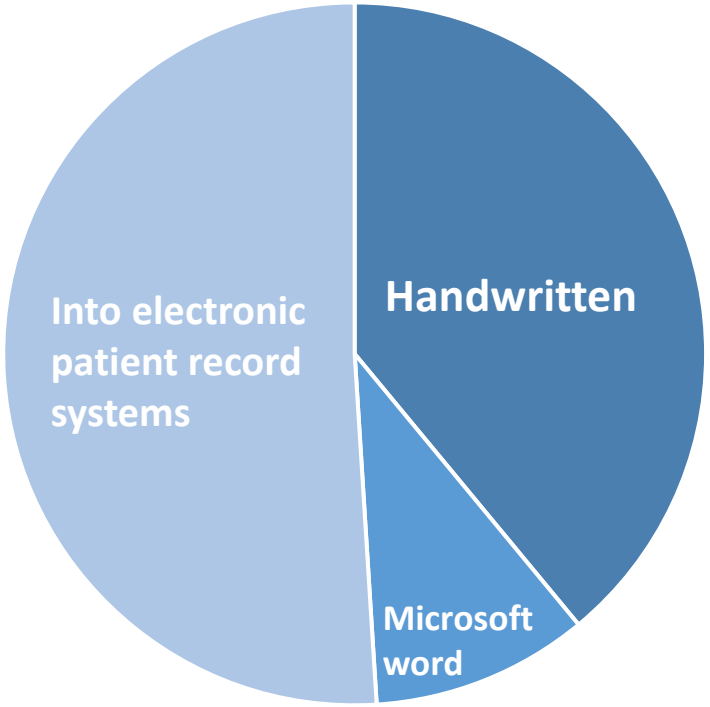
- Improved care
- Less ambiguity in care

Healthcare systems

- Reduced medico-legal risk
- Standardisation of care
- Data driven decision making
- Accurate financing

Competitors

How surgical documentation is currently written:



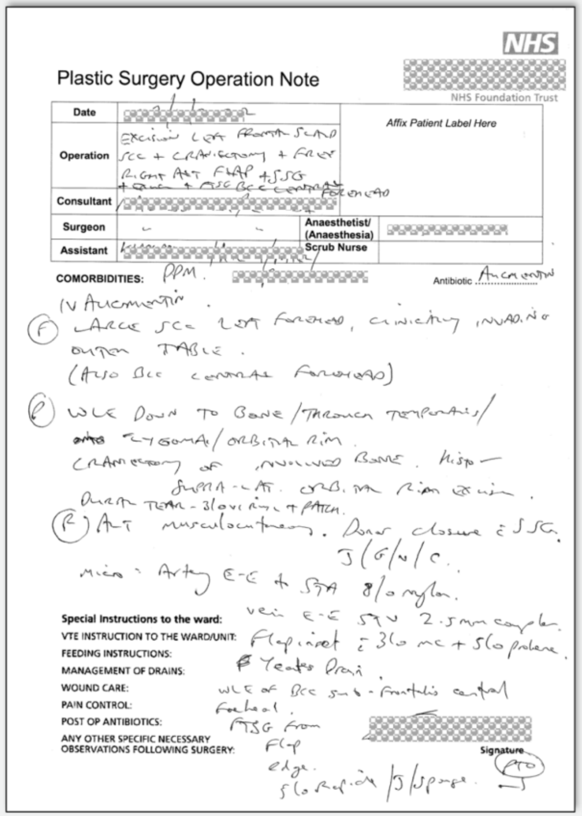
n = 668 doctors

All competitors = **unstructured** and **unstandardised** format.

- Inaccurate data with omissions.

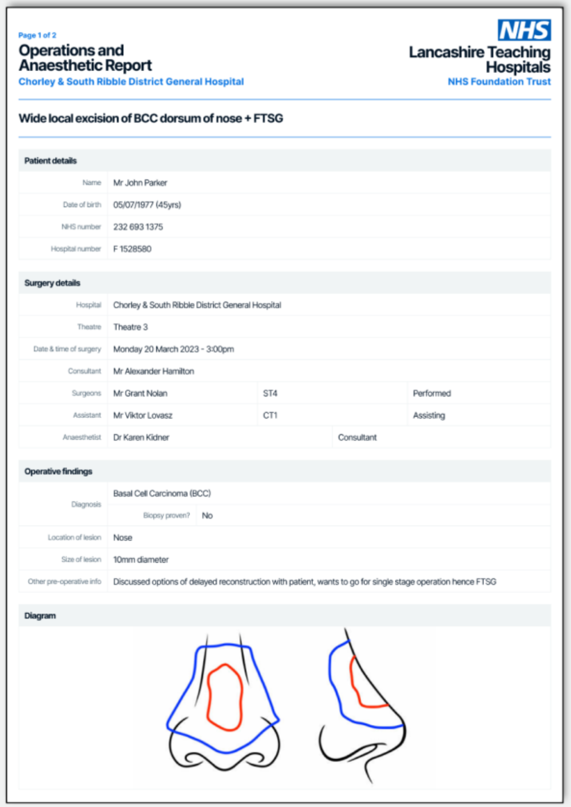
myopnotes is focus on data accuracy & completeness

NHS Practice Transformed



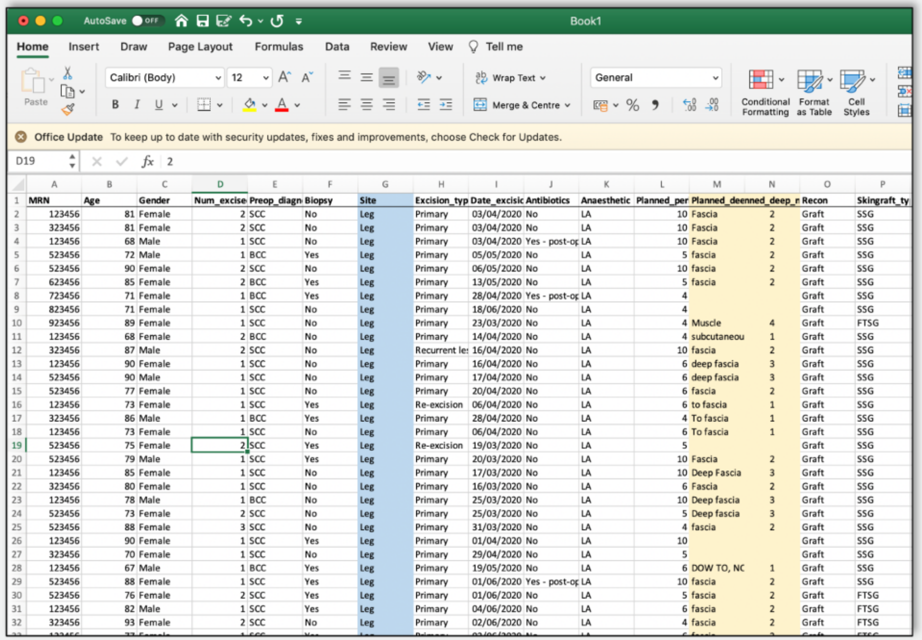
Current Practice

Unstructured, unstandardised data
with omissions/inaccuracies that is siloed



myopnotes

High accuracy, standardised, structured data
which is immediately fully accessible



myopnotes

Exported as a .CSV or Excel File
Data used to optimise coding

Our journey with EMDHA

Incorporated
October 22

Pilot confirmed
December 22

Accelerator
January 23

Our journey with EMDHA

NHS
Lancashire Teaching Hospitals
NHS Foundation Trust

Health Innovation East Midlands

Incorporated
October 22

Pilot confirmed
December 22

Accelerator
January 23

Pilot ‘paused’
April 23

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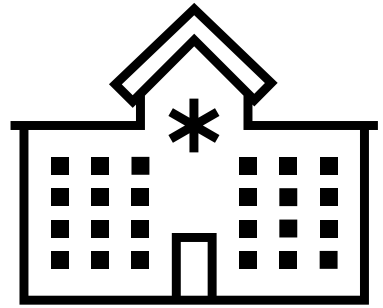


Incorporated
October 22

Accelerator
January 23

Wireframe
October 22

MVP developed
June 23

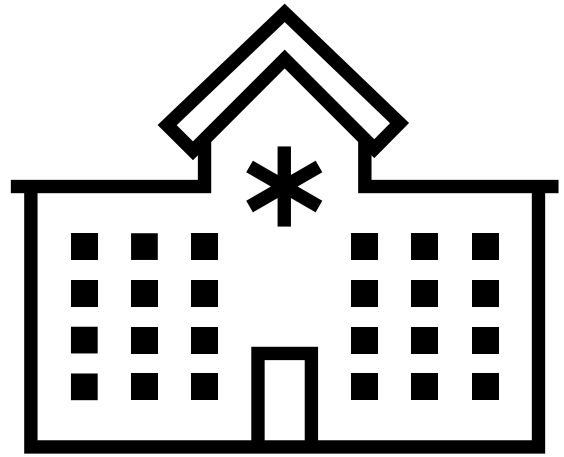
Automatic coding
August 23

30 templates (up to 50%)
November 23

myopnotes is actively identifying hospitals for deployment

Key benefits

1. Saves surgeons' time
2. Improves patient outcomes
3. Enhances revenue through clinical coding improvements



Platinum Innovation Partners

Up to 80% discount for initial 3 NHS Trusts

The journey continues in 2024

- 3-5 NHS Trust deployments
- Pre-seed investment round

- Coverage of 66% of surgery by volume
- Advanced automated clinical coding

Way forward?

Deployment process

1. Further exploration of local coding challenges
2. Demo experience and clinician sign-off
3. Pilot – one or two surgical departments initially
4. Initial engagement with widespread roll out

Includes

- **Connected**: Simplified integration with existing solutions & single sign on.
- **Education**: Training of surgeons and clinical staff
- **Confidence**: Clear success criteria for engagement – if not achieved then no obligation

myopnotes

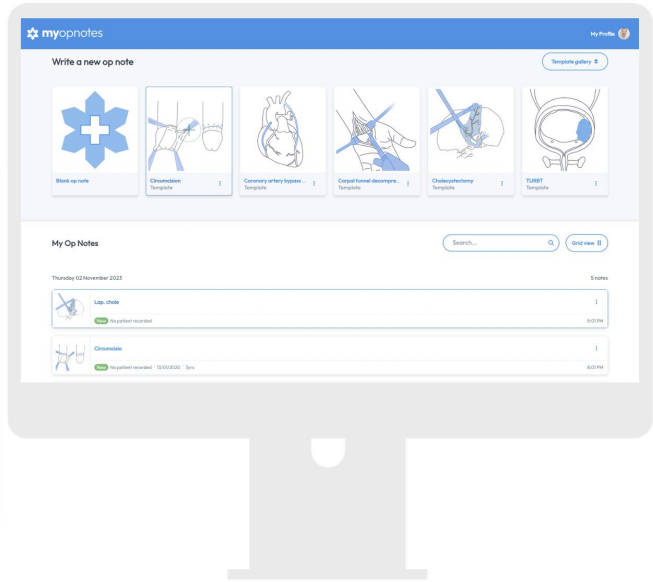
We help hospitals get fairly paid for surgery

Digital surgical documentation that:

- Saves surgeons time
- Improves patient outcomes
- Increases revenue

Dr Grant Nolan

Plastic Surgery Registrar



Health Innovation East Midlands

Break

10 minutes

Innovator follow-ups

Health Innovation East Midlands

Would you like a follow-up meeting with our innovators?

myopnotes

Compassly Competency Passport

https://www.surveymonkey.com/r/NNMPJ8V

fika

Download™

Atrainability

East Midlands DIGITAL HEALTH ACCELERATOR

Health Innovation East Midlands

Guest Speaker

Will Monaghan - Executive Chief Digital Information Officer

University Hospitals of Derby and Burton NHS Foundation Trust

Digital and Data Transformation providing effective solutions to the challenges faced in the NHS

NHS
University Hospitals of Derby and Burton
NHS Foundation Trust

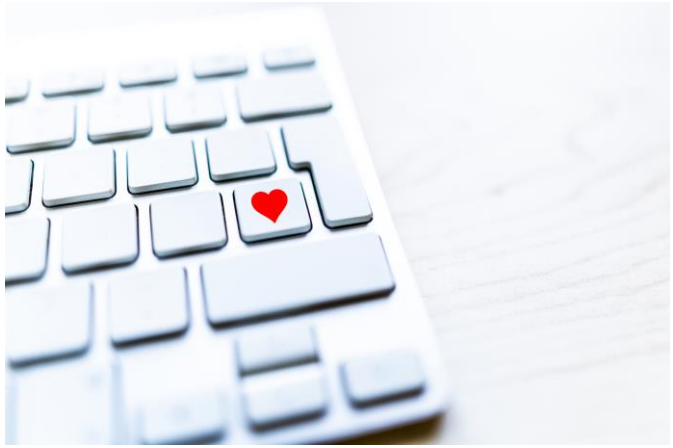
Will Monaghan
Executive Chief Digital Information Officer (CDIO)

Royal Derby DERBY | Queen's BURTON | Samuel Johnson LICHFIELD | Sir Robert Peel TAMWORTH | Florence Nightingale DERBY

The Challenge

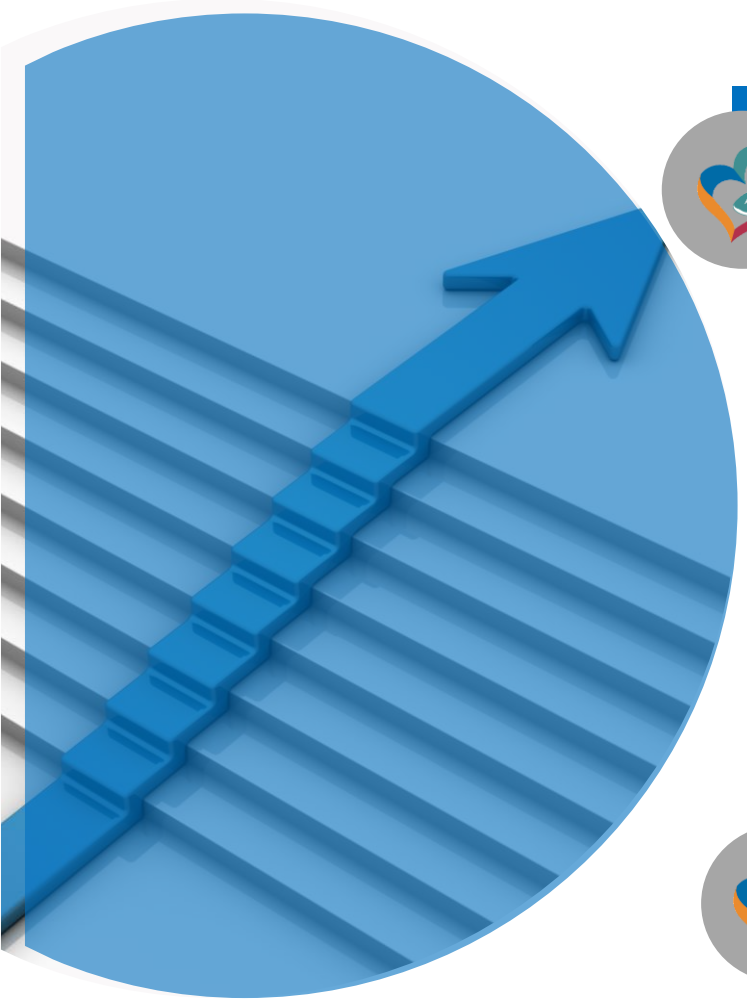
- NHS Waiting List
- Clinical Drag
- Paper and Processes
- Funding

Digital Transformation



- Communication
- Collaboration
- Safety

Digital Transformation



- Federated Data Platform
- Improving Elective Care Co-ordination Programme
- Patient Experience Portals
- Robotic Process Automation, Intelligent Automation and Artificial Intelligence

Federated Data Platform

- NHS Data
- Data Federation
- The Platform
- Individual Organisations
- Removal of Waste

The federated data platform programme represents a major strategic shift in the way that the NHS can use data to transform the delivery of healthcare services.

Improving Elective Care Coordination Programme

Care Coordination Solution
- built by clinical staff for clinical staff

ICS Care Coordination Solution

Trust Care Coordination Solution

Inpatients (live)

Elective Waiting List | **Theatre Scheduling**

will provide….

Better Insights:
- Improved waitlist accuracy
- Greater waitlist visibility
- Clearer theatre informatics

Better Decisions:
- Easier priority scheduling
- Utilising unbooked minutes
- Coordinated 6-4-2 planning

Better Health:
- Treating the right patients, faster
- More procedures undertaken
- Cancellation risks mitigated

Outpatients (in pilot)

Waiting List Validation | **Cohorting**

Clinic Management

will provide….

Better Insights:
- Improved waitlist transparency & accuracy
- Clinic management & optimisation
- Patient cohorting

Better Decisions:
- Identifying priority patients for scheduling
- Improved clinic utilisation
- Reformed management of patient cohorts on longer pathways

Better Health:
- The right patients, receiving care faster
- More patients getting appointment type they need
- Better surveillance of chronic conditions & long waiters

Patient Experience Portals

- **Book, View and Cancel Appointments**
- **Advice and Guidance**
- **Clinical letters and Test Results**
- **Questionnaires**

Automation

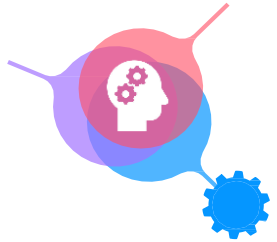
Automation can support and enable staff to digitise and/or enhance clinical and business processes across all levels of the organisation

Increasing technology and process complexity

Robotic Process Automation

Intelligent Automation

Artificial Intelligence



Example technologies

- Intelligent content recognition or extraction
- Natural language processing

- Natural language generation
- Machine learning

NHS
University Hospitals of Derby and Burton
NHS Foundation Trust

Thank you for listening

Any Questions?

Royal Derby DERBY | Queen's BURTON | Samuel Johnson LICHFIELD | Sir Robert Peel TAMWORTH | Florence Nightingale DERBY

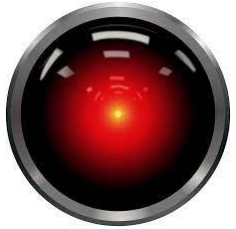
Health Innovation East Midlands

Open Forum

Tim Robinson

Commercial Director - Health Innovation East Midlands

Housekeeping



- This session is being recorded and will be shared publicly after the event

- Please mute your microphone if you are not speaking

- Either raise your hand (using the Teams function), or type in the chat while we are presenting

East Midlands Digital Health Accelerator 2024

Nick Hamilton

Digital Health Navigator – Health Innovation East Midlands

What's new in 2024?

Health Innovation East Midlands

A larger and more varied cohort of up to 8 digital health innovators with technologies that can support:

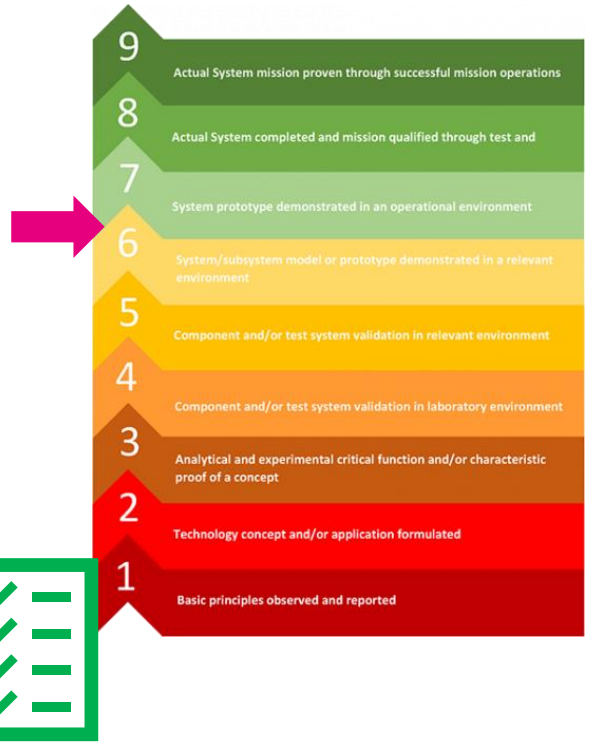
Theme 1: Self-care in the community

Theme 2: Tackling NHS waiting lists

Cross-cutting: Digital inclusion and accessibility

East Midlands DIGITAL HEALTH ACCELERATOR

What's new in 2024?



Refined selection criteria to target innovations that have been demonstrated in a live (ideally healthcare) environment

Increased flexibility and variety of subject matter expert support offers to participants

Who is the programme aimed at?

Health Innovation East Midlands

- **Open to new applicants now**
- **Closes midday on Friday 8th December**

Open to UK-registered small to medium enterprises with:

- ✓ Technology meeting the definition of a digital health innovation
- ✓ A solution to a clearly identified problem for the health and care system
- ✓ Clear application and benefit of the technology in at least one of the defined themes
- ✓ A minimum viable product that has been used in a live environment (ideally healthcare)
- ✓ Commitment to doing business and/or economic growth in the East Midlands
- ✓ Sufficient commitment in time and resource to effectively participate and benefit

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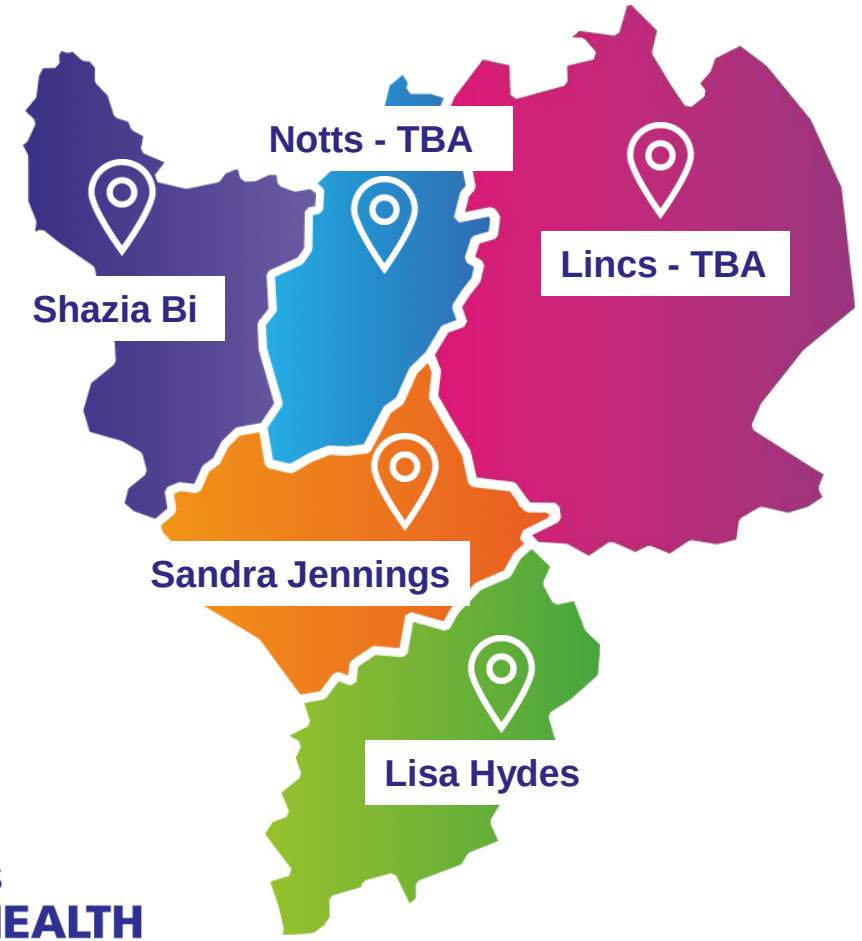
How did we identify our themes?

Health Innovation East Midlands



NHS Derbyshire Healthcare NHS Foundation Trust

Health Informatics Service • Leicestershire HIS • Health Informatics Service

Leicestershire County Council

Joined Up Care Derbyshire

NHS University Hospitals of Derby and Burton NHS Foundation Trust

NHS University Hospitals of Leicester NHS Trust

NHS Leicester, Leicestershire and Rutland Integrated Care Board

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triage
clinical
pain
respiratory
admissions
patients
resource
falls
prehab
consultation
automation
risk
copd
management
accessibility
supported
clinicians
guidance
inequalities
cohorts
emergency
wards
support
video
tackling
inclusion
right
voice
remote
observation
training
lists
maternity
health
discharge
oncology
booking
prompts
data
process
ai
robotic
advice
productivity
flow
care
targeting
home
self-care
transcription
time
recognition
allocation
office
deterioration
virtual
sharing
digital
efficient
asset
place
awareness
back
early
loneliness
waiting
decision
intervention
isolation
rehab
reminders
stroke

What were the responses?

Health Innovation East Midlands

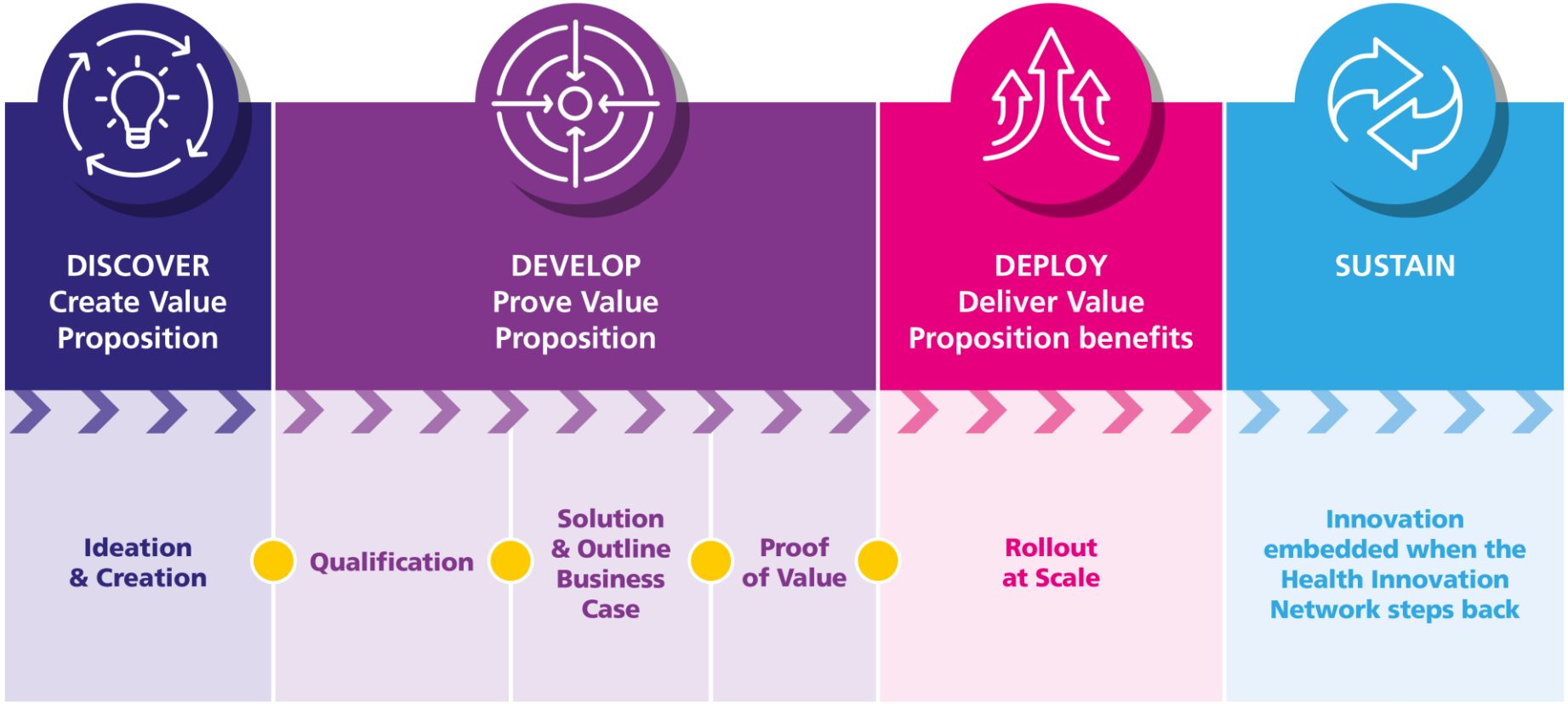
Rank	Topic	Frequency
1	Care at home / self-care / advice guidance and support	11
2	Inclusion / health inequalities / accessibility	6
3	Waiting lists	5
4	Remote observation / management	4
5=	Virtual wards / early supported discharge	3
5=	Efficient resource allocation / productivity	3

Ask of East Midlands ICSs

- Help us select the new cohort in January!
- Engage with ICS Innovation Leads
- Join our quarterly forum
- Identify local opportunities for adoption

Innovation pipeline

Health Innovation East Midlands



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What is the application process?

Health Innovation East Midlands

- Apply via our online portal by **Friday 8th December**
- Assessment – Stage I (screening)
- Assessment – Stage II (shortlisting)
- Panel interview:
  - Value proposition
  - Product demo
  - Panel Q&A

We plan to interview candidates w/c 8th January 2024

East Midlands DIGITAL HEALTH ACCELERATOR

Closing remarks

Tim Robinson

Commercial Director - Health Innovation East Midlands

Innovator follow-ups

Health Innovation East Midlands

Would you like a follow-up meeting with our innovators?

myopnotes

Compassly
Competency Passport

https://www.surveymonkey.com/r/NNMPJ8V

fika

Download™

Atrainability

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Health Innovation East Midlands

Thank you!

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#EMDigitalHealthAccelerator

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