

Headline Sponsors:



Hive – our EPR Journey

Manchester University NHS Foundation Trust

Our EPR Journey



Welcome





Dan Prescott Group Chief Informatics Officer



Dave Pearson Hive Programme Director



Sarah McGovern Chief Transformation Officer



Clinically Led, Operationally Delivered, Digitally Enabled

Hive is a major clinical transformation programme that has an innovative Electronic Patient Record solution at its heart, powered by Epic, and means wide-spread change and improvement in every part and process our the organisation.

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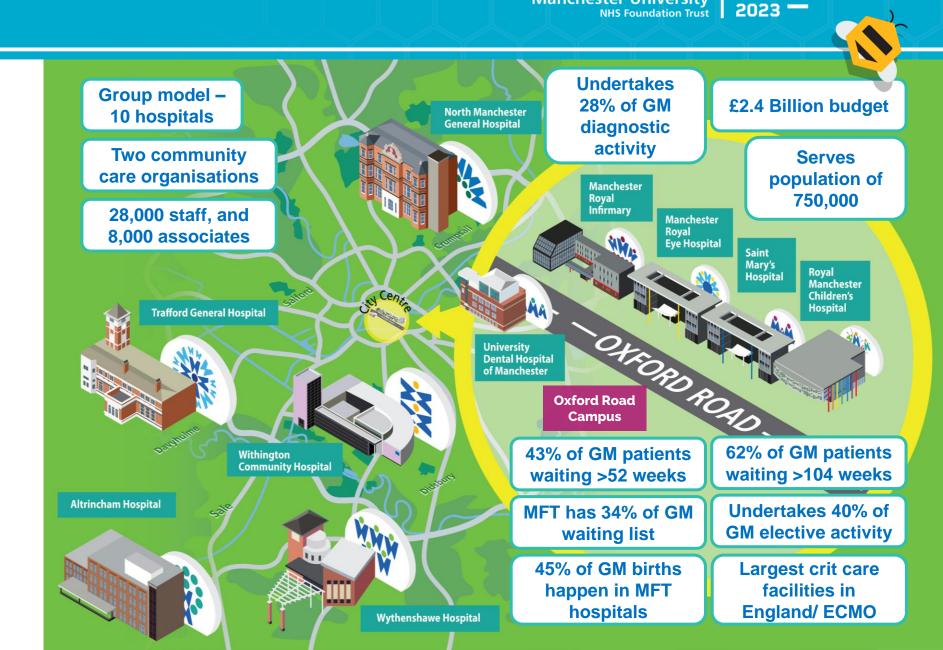
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Epic is a tried and tested software solution that that been tailored for MFT and brings all our **patient information together** enabling us to hold a **single trust-wide hospital record** for each patient with <u>all</u> information accessible across <u>all</u> sites.

About MFT

Largest provider of specialist services in England, covering a population of 2.8 million. Sole provider for several tertiary services across Greater Manchester

- Leading Trust in the North-West for research and teaching
- Unique clustering of clinical services with life sciences and academia
- An 'anchor' organisation supporting the transformation of public service provision.



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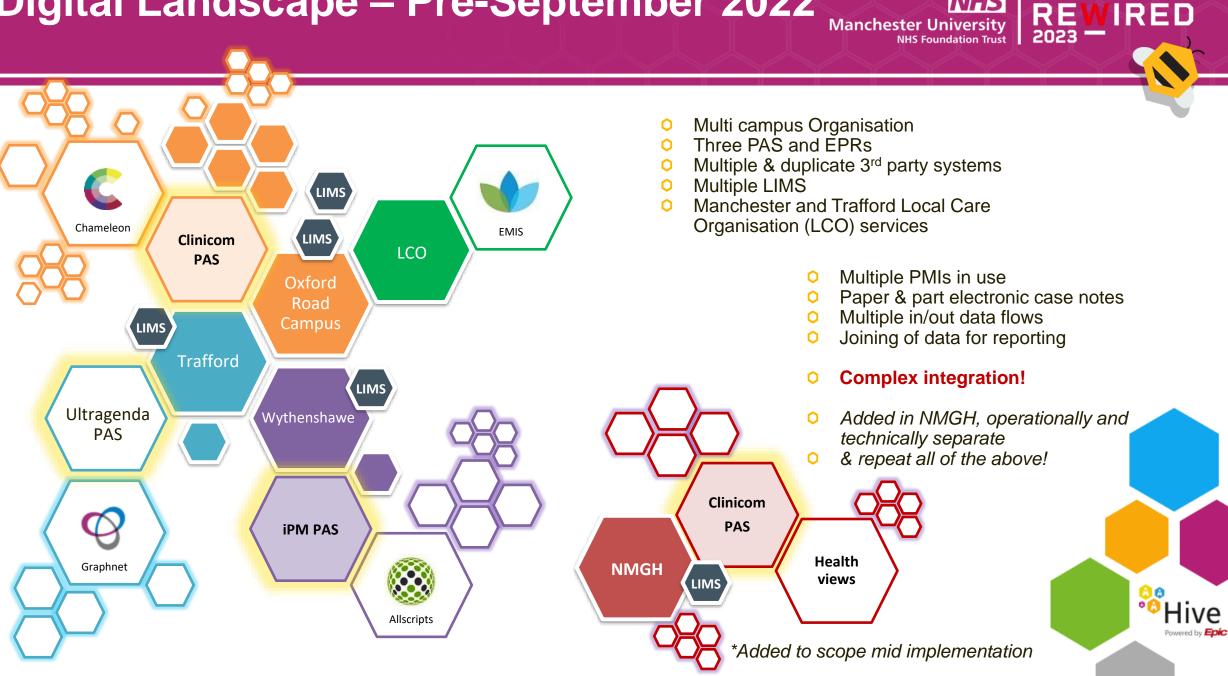
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Our journey to Hive EPR



Digital Landscape – Pre-September 2022



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Digital Landscape – Post-September 2022



Multi campus Organisation +1

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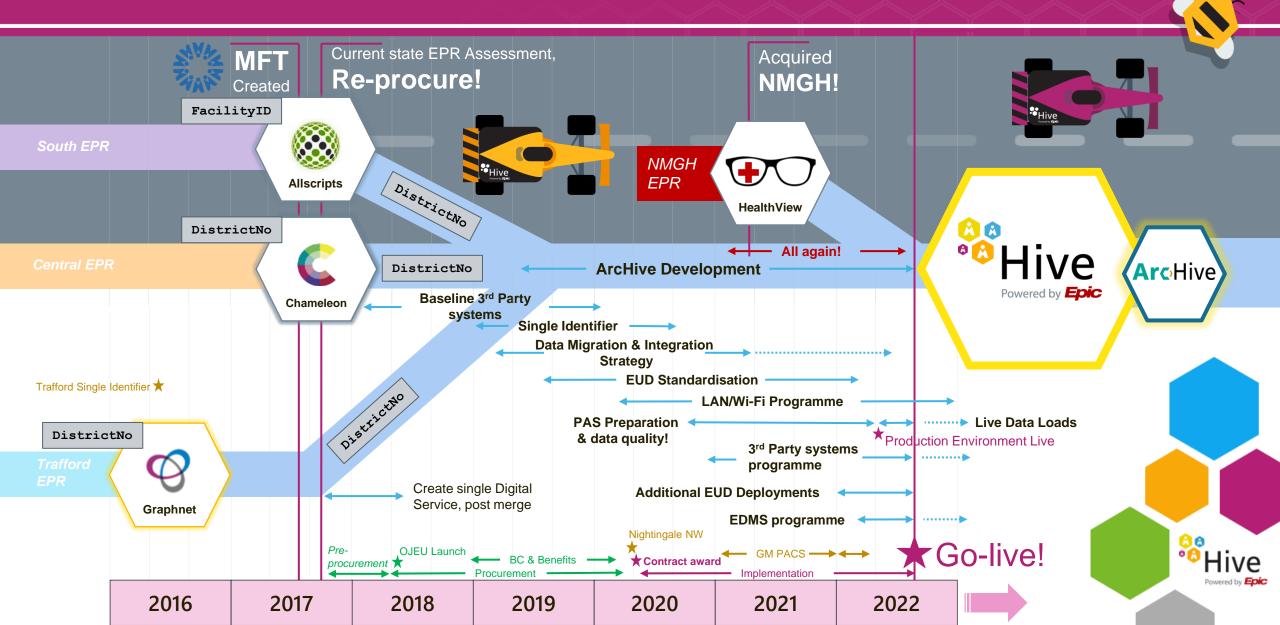
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- Single PAS and Core EPR
- Consolidated 3rd party systems
- +additional 3rd party systems
- Single LIMS
- O Medical Device integration
- LCO Services
- Single PMI
- Not creating paper casenotes
- Consolidated in/out data flows
- Combined reporting data
- Simplified integration
- In Patient context electronic archive
- NMGH fully integrated

Journey to EPR (Core dependencies)

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Deployment and PAS Data Migration

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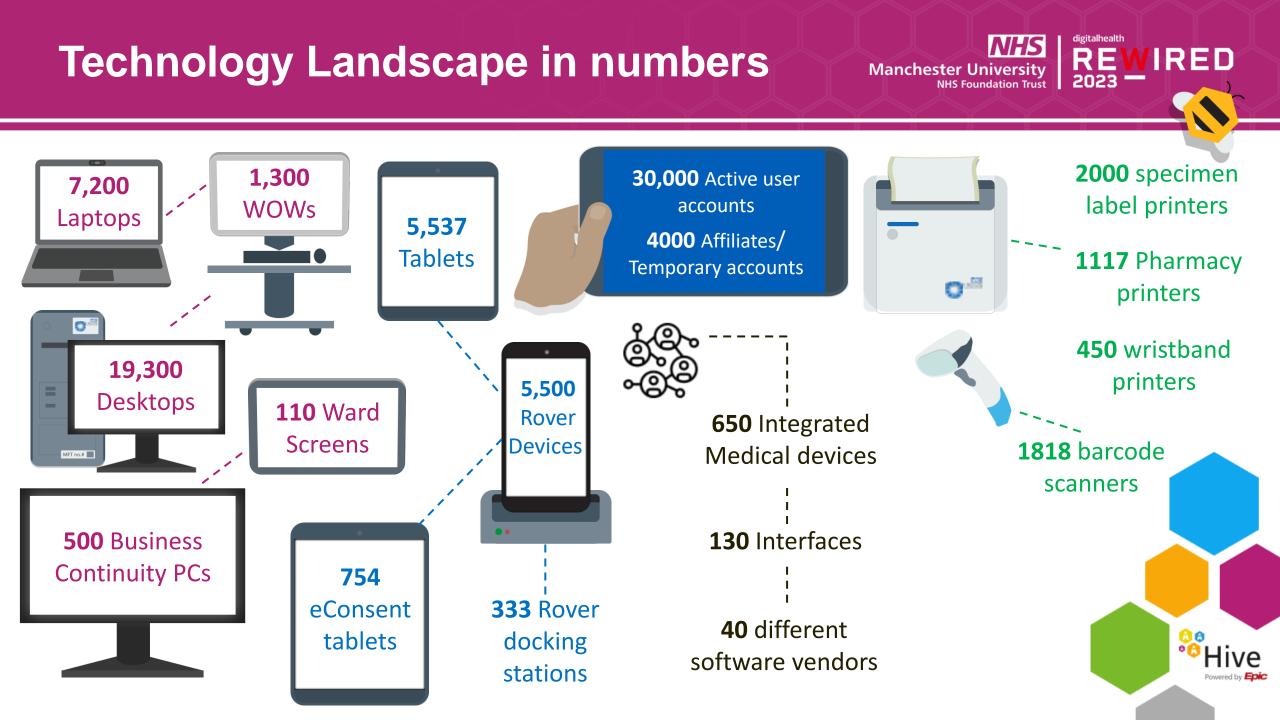
Data Migrated	Testing	Infrastructure	Interfaces
Records: 4,000,000+ Different Systems: 80	Mapped Record: 32,000 App/Integ. Scripts: 800+	Physical VM Host: 180 Virtual Machines: 2200+	Developed: 130+ Different Vendors: 40+

Data Type	Electronic migration	Final Success load %	Manual migration
Future appointments	137,880	90.9%	12,505
Pathways	1,072,781	99.5%	5,415
Referrals	1,032,822	99.1%	8,882
Waiting Lists Day Case & Surgical	559,179	92.6%	33,803
Waiting List – Outpatients	559,182	99.96%	N/A
Waiting List – Invasive cardiology	944	98%	N/A
Grand Total	2,739,950	98%	60,605

	*MPI total	% Duplication
January 2022	7,022,691	17%
September 2022	5,748,509	2.8%

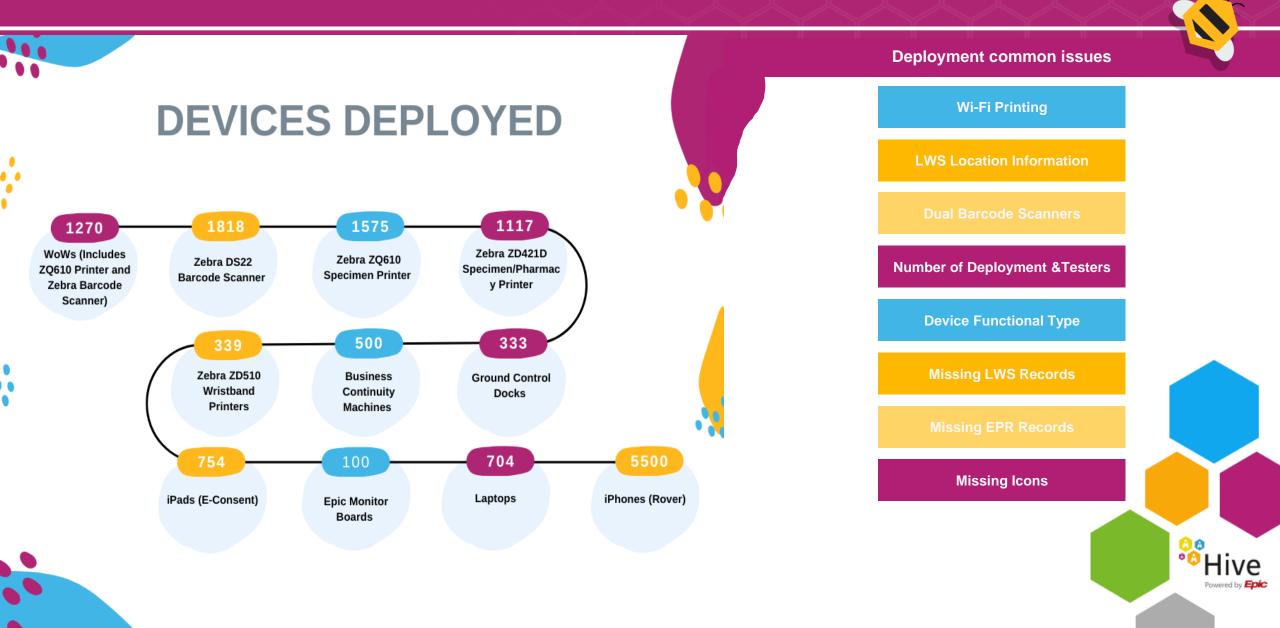
NMGH addition generated significant duplication!

Labs & Pharmacy validation was a huge undertaking that had weekly Executive oversight



Technology Deployments in numbers





Hive Implementation





The Journey to Go Live

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May 2020: contract awarded to Epic following co mpetitive dialogue procurement process.

Comprehensive and wide-ranging communication strategy which includes workshops, drop-in sessions, intranet messaging, social media... Robust risk management strategy ensured 'Board to Ward' oversight of key risks -Training, NMGH complex pathways, staff capacity for manual data migration, reporting and LCO

Julia Bridgewater (Executive Chief Operating Officer) appointed as full time Hive SRO September 2021

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The programme team worked on a comprehensive critical path to deliver a safe & efficient Go Live

Vision

Our vision for Hive is to transform the quality of care and the experience for our patients and staff by having the right information in the right place at the right time; first time, every time.

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Significant Operational Readiness programme with dedicated Hospital and Corporate resource from clinical, nursing, transformation and operational teams.

Day-120, 90, 60 and 30 face-to-face Go Live Readiness Assessments (GLRAs) took place with each Hospital to ensure we were ready!

Hive Governance (Design & Implementation Phase)



Hive in numbers

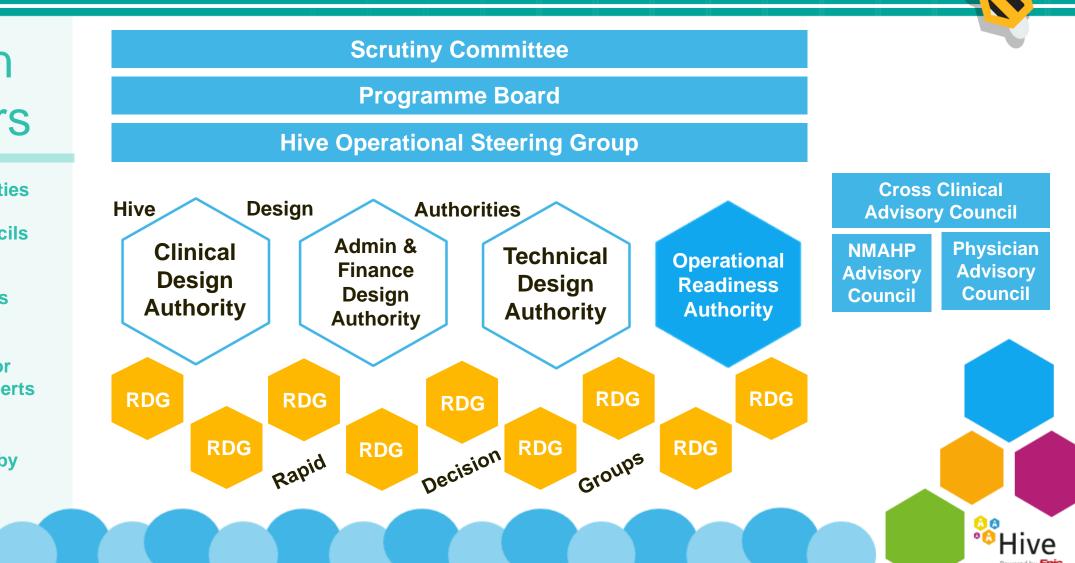
3 Design Authorities

3 Advisory Councils

100+ Rapid Decision Groups

1500+ RDG members or Subject Matter Experts

5000+ Decisions made by RDGs



The Journey to Go Live – the final steps!



TESTING our equipment - every piece of equipment was tested to ensure it was Hive ready, 16,000 pieces of IT equipment tested.

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DATA transfer began in July – loading live data into Hive.

DRESS REHERSALS – took place - comprehensive practice using simulation, scenarios and shadowing current patients.

Huge TRAINING programme for our ~30,000 staff. Face to face across 80+ rooms, provided by 120 full-time trainers plus MFT Peer Trainers, supplemented by eLearning sessions.

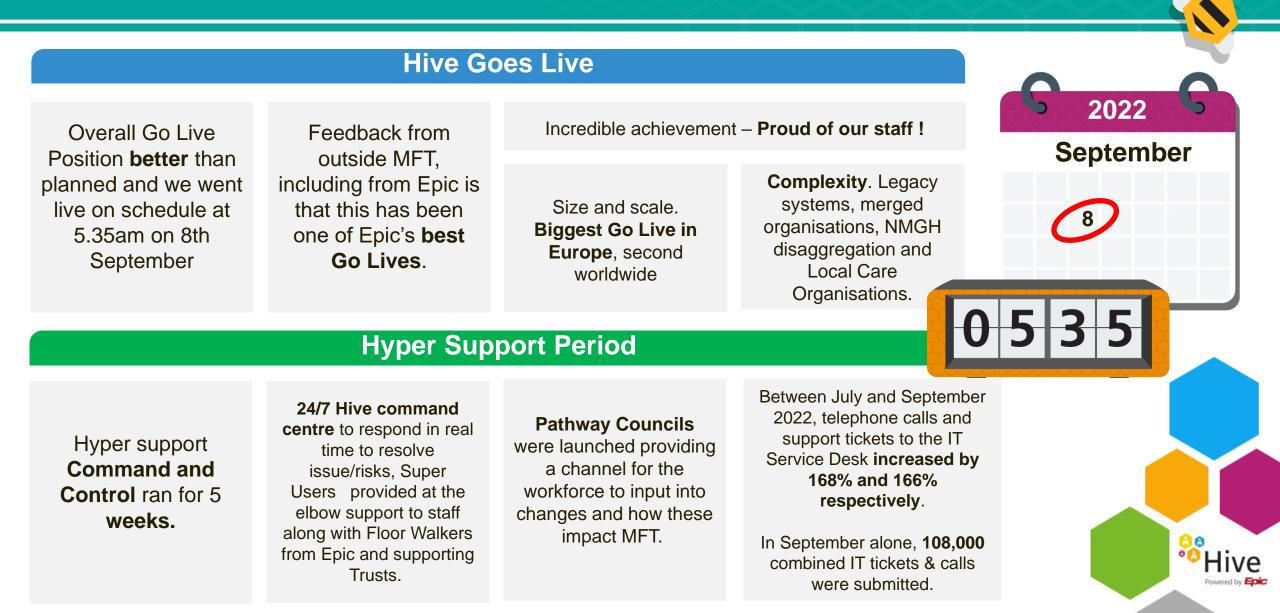
GO LIVE - Floor Walkers and Super Users provided 'at the elbow support' during Go Live. ~3,000 Super Users, 230 external NHS Floor Walkers and 200+ Epic Floor Walkers!

We implemented command centres for 5 weeks post Go Live...

Go Live & Hyper Support Phase

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Key themes and issue resolutions



As **expected and planned** for, we responded to and **resolved** a huge number of **escalations**:



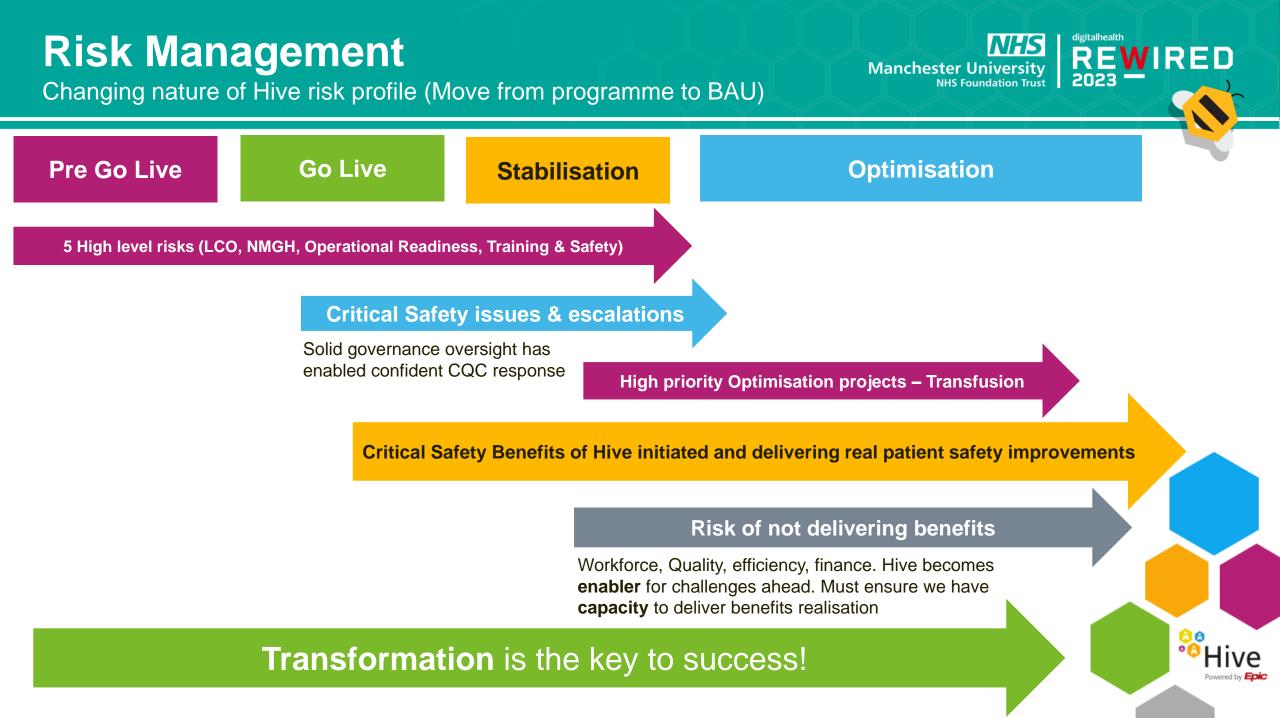
Build fixes (Referral routing, scheduling of pre prescribed medications, results routing, consultant pools, medical task list assignments, link to NHS spine).

Technical and kit (NMGH downtime, Wi-Fi coverage, **printing configurations**, rover device configuration/access.

A number of **key themes** are being overseen by the Pathway Councils, **Pathway Council Oversight Committee** and bespoke Task and Finish Groups.







Stabilisation and beyond: Governance & Structures

Stabilisation Phase

• To ensure we are stable, safe and preparing for business as usual **Robust Stabilisation Governance** followed the Command Centre phase:

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- Oct-Dec: Phase 1: Ensuring we are stable and delivering critical safety changes
- Jan- end Mar: Phase 2: Commencing implementation of BAU processes and sign off 2023/24 plan
- Post Live Readiness Assessments (at 60, 90, 120 days) informed by Stabilisation metrics ensuring operational process embedded
- Stabilisation marks the transition from Hive being a programme to the key vehicle for facilitating our clinically led digital transformation and delivery of our full safety, efficiency and workforce benefit.

2023-24 Governance

- Scale, complexity and journey of culture change to deliver **Hive Benefits** is significant
- 2023/24 Transitional year is agreed in recognition of delivery challenge (Hive/Informatics organisational leadership structure agreed)
- Built on successful leadership partnership between Hive/Informatics/Transformation
- Board level dedicated Hive SRO remains in place.

"Don't take your foot off the gas..."

Post-

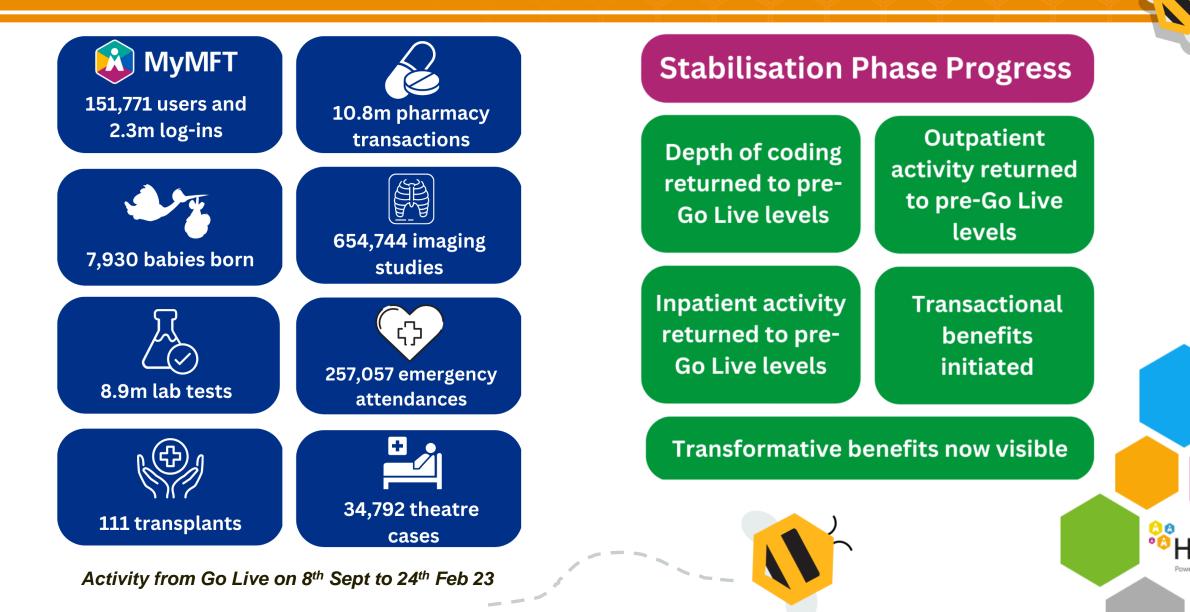
Go Live



Trust activity since Go Live

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Transformation & Benefits Realisation

- Transformation plans identified in the Pre-Go Live period ~100 projects!
- O Many progressed/implemented prior to Go Live, but many relied on the implementation of Hive
- Support on the frontline over Go Live period
- Ongoing implementation of Change projects through Go Live and Stabilisation periods.
- Change plans now aligned across Hive and Organisation to deliver:
 - Hive Benefits
 - Operational priorities
 - Clinical priorities
 - Waste Reduction Programme

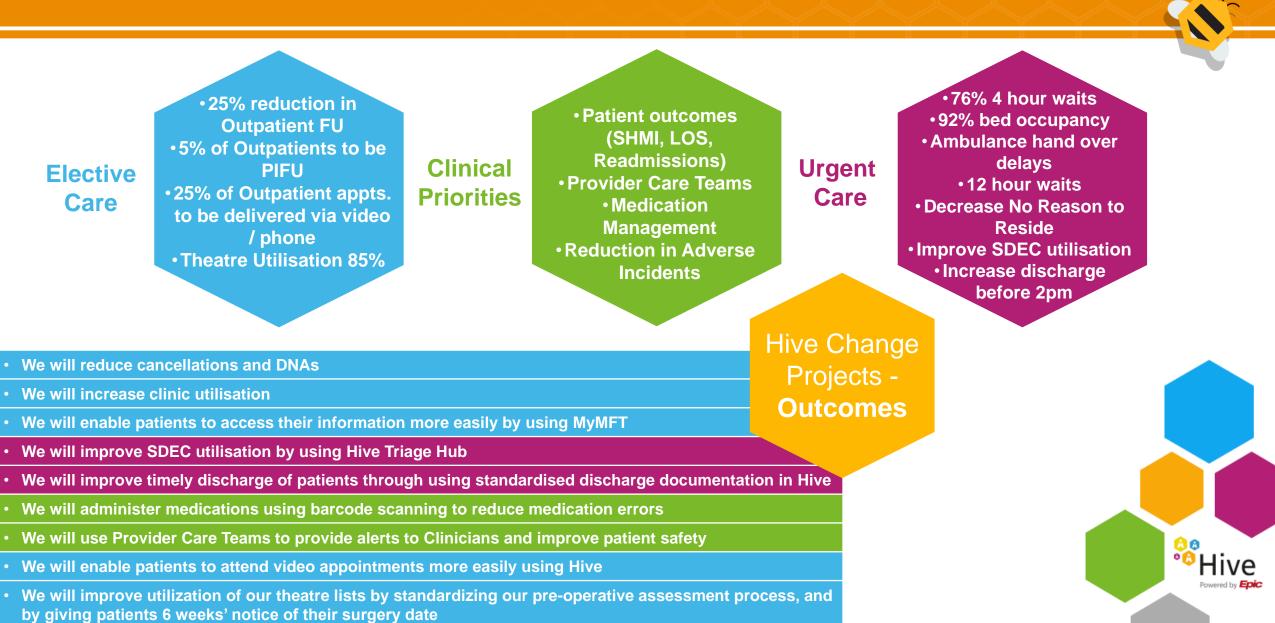


Hive is our enabler for change...



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Hive and MFT Priorities



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Hive opportunities and benefits

- 1 EPR giving rapid access and visibility across all areas teams, services, sites
- Standardisation of pathways
- Standardisation of Admin/Booking and Scheduling processes
- Reduced paper!
- Improved access for patients patient portal MyMFT
- Functionality to support clinical decision making e.g. use of Best Practice Advisories

The benefits realisation process



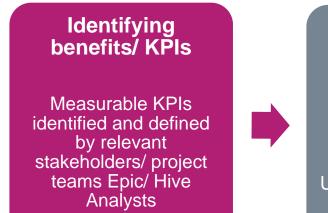
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Defining change projects

Aligned to capabilities from Hive benefits case and RDGs

- Supports operational and clinical priorities



Monitoring and tracking

Use of Hive/ Power BI dashboards used to track, monitor stabilisation metrics. Used to target areas for improvement



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Some of our early Hive benefits

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Improvement in Theatre Utilisation and steady reduction of 'late starts' is evident since Go Live.



Positive Patient Identification with **BCMA** avoided 36 critical medicine administration errors since Go Live.





Our new patient portal **MyMFT** launched with Hive - improving patient's access to their MFT clinical information.

days.

Letter turnaround in Outpatient clinics is now less than seven



Bespoke urgent care workflows have improved the transfer of patients between UEC services.

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Hive

owered by Epic



Improved

results

Secure Chat has been used to improve communication between teams e.g. Radiology vetting.



Hive has given us a clear sight of cancer pathways.

Single specialty patient tracking lists are now in place across the



Sharing patient records with other Epic sites is improving patient care.



management.

MyMFT: Empowering our patients

Currently over 25% of our patients use our new online patient portal - MyMFT.

Using Epic's MyChart solution, MyMFT is a customised portal that caters for our diverse population and will bring our patients greater access and control over their healthcare and health information - with more and more functionality rolled out on an ongoing basis.

MyMFT allows our patients to...

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Have their personal and family's health information at their fingertips with the mobile app and web-portal.



View appointments, clinical letters and results.



Attend online consultations and provide preappointment information.



Share their medical record safely and securely.



Easily communicate and engage with us as a Trust.



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Early Benefits – Service Information Maternity and Neonatal Safety Dashboard

What features on the dashboard?

Governance

- Incidents (including where ٠ harm has occurred)
- HSIB (Health Safety Investigation Branch) referrals
- STEIS reportable incidents

Patient experience

- Complaints .
- Compliments ٠

Work Force

- Training
- Safe Staffing
- Appraisal Rates ٠

Data Quality Assurance

- MSDS completion reports
- Data field completion reports

Perinatal morbidity and mortality

- Stillbirths Neonatal Deaths
- Unexpected admissions to
- Neonatal Unit
- Babies with suspected HIE Neonatal Apgar <7 at 5 minutes
- Skin to Skin rates
 - Infant feeding rates

Screening Program

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All screening program KPIs

Saving Babies Lives

- Birthweight less than 3rd centile
- Smoking Rates Booking & Delivery
- Antenatal steroids & intrapartum steroids for preterm birth

Operational Excellence

- Bookinas • Births

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- Type of Birth
- Average Length of Stay Mother & Baby
- Induction rate
- Bookings 12+6 weeks

Maternal morbidity and mortality

- Maternal Death
- Women requiring L3 critical care
- PPH
 - Hysterectomy
 - 3rd / 4th degree tears
 - C-Section at full dilatation
 - Maternal readmissions •

Demographics

- Deprivation
- Ethnicity
- Age
- Religion
- Employment status





The dashboard provides a view of over 200 key safety metrics and highlights areas for escalation.

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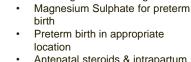
The dashboard focuses on:

- **Patient Safety**
- **Clinical Effectiveness**
- Leadership and Culture

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Training and Development





Early Benefits – Financial



Transactional benefits starting to deliver:



Printing consumable savings: £500k in 6 months



Legacy systems: process of decommission of legacy systems started (£300k to date)



Paper lite savings: on track for £1 million in 12 months

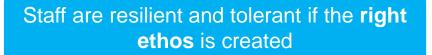


All contributing to our sustainability goals...



Key Learnings...

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Recognise the **funding required** to deliver effective implementation and timescale to do that

Maintain the *Clinically led*, *Operational delivered and Digitally enabled vision*

Performance manage the process of change

Keep all stakeholders involved in the programme

Start early and focus on benefit realisation

Maintain Executive oversight

Do not over engineer training and ensure you use your **own staff** where possible

Huge amount you can and need to do before even choosing your vendor

Don't be afraid to **de-scope**. 'Do we need this for a 'Safe and efficient Go Live?'

Start Data migration preparedness early!

ESR Cleansing

Hive

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