

Deploying a "next generation" EPR

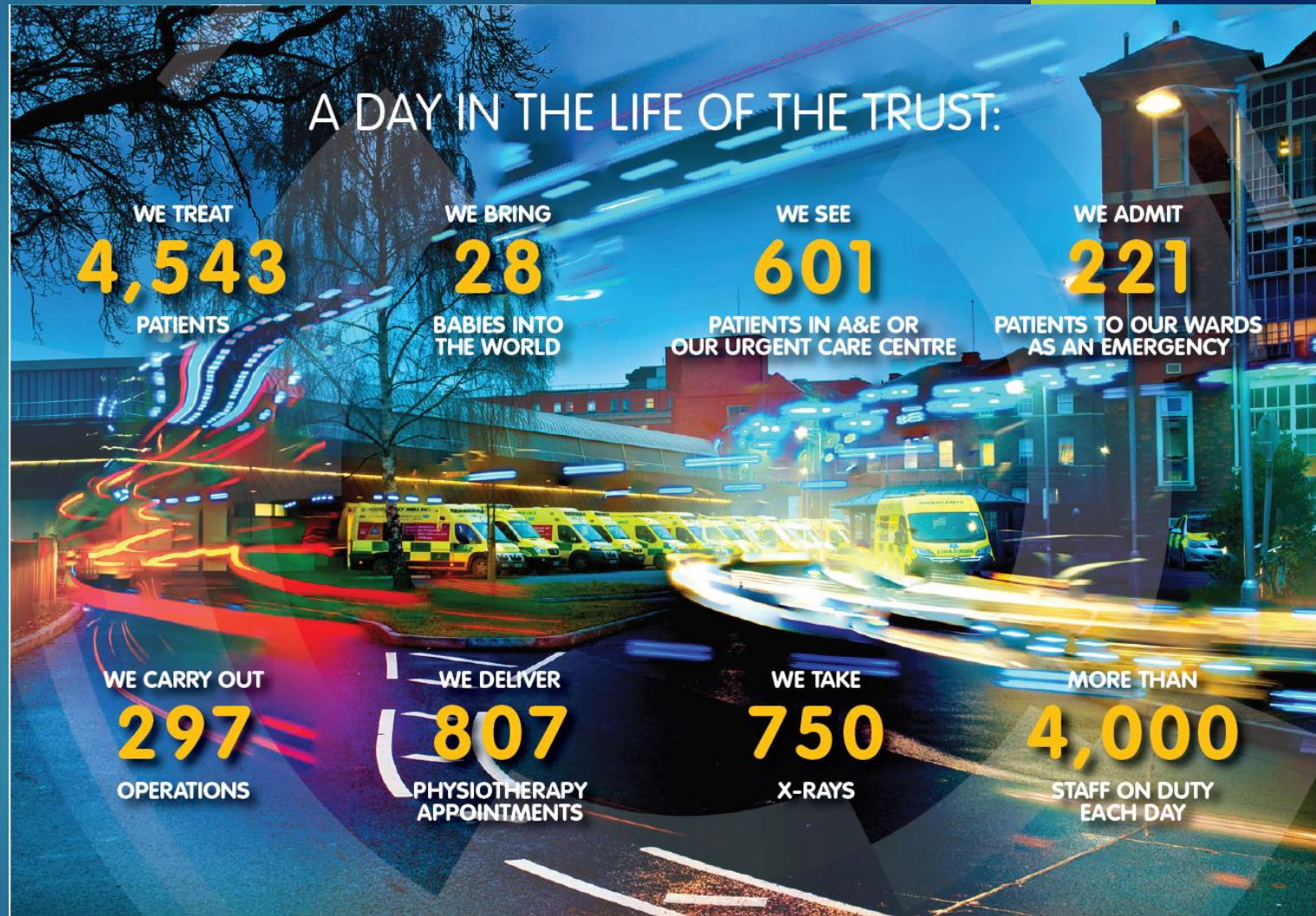
PUTTING USABILITY FIRST

hello my name is...

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Context

- ▶ University Hospitals of Leicester
 - ▶ Acute teaching trust
 - ▶ c2000 beds across 3 main sites
 - ▶ 17,000 staff
- ▶ EPR contract signed 2019
 - ▶ Initial 3 year programme
 - ▶ Target HIMSS EMRAM 6
 - ▶ Wave 1 digital aspirant & trust funded

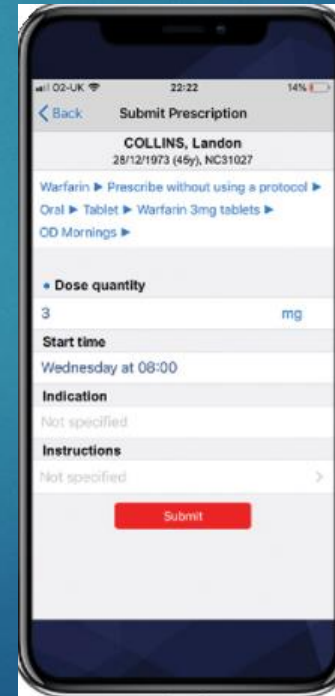


EPR Approach

- ▶ Aiming for balanced coverage across care settings (ED, inpatient & outpatient areas)
- ▶ Mobile first, PAS last, standards based
- ▶ Multi disciplinary, collaborative co-design process
 - ▶ Senior clinical leadership via CMIOs, CNIO, CPIO
 - ▶ Clinicians, technology professionals, clinical safety, operational teams, patient representatives
- ▶ Programme phase delivers core EPR functions
- ▶ Parallel continuous improvement / digital product management approach to incrementally enhance clinical functionality

Usability

- ▶ What do we mean by usability for an acute EPR?
 - ▶ Speed of data entry
 - ▶ Intelligent workflow
 - ▶ Information visible when needed
 - ▶ Making it easy to do the right thing
- ▶ Fast, efficient, intuitive
- ▶ Record sharing



EPR Maturity

- ▶ 2019: EMRAM baseline & gap analysis

Sample ePMA benefits

- ▶ Pharmacists are able to identify re-order requests more easily which has reduced the time to fulfil medication re orders by 69% (over a 3 month period in 2021, reduced from average 9.5 to 3 hours to fulfil). Reducing the risk of missed doses.
- ▶ Antifungal Smartlist - (patients with invasive IPPV/ECMO at greater risk of fungal infections) Real time ability to review at risk patient groups meaning all can now be seen during the working week
- ▶ Real time view of patients for Antimicrobial Stewardship round - saving of 80 hours per year
- ▶ Force medications with an end date without compromising patient safety. Supporting reduction in antimicrobial resistance
- ▶ Greater stewardship of high risk medications: Diabetes Team able to view all inpatients on all Insulin prescriptions in real time alongside blood sugar monitoring and ketone levels
- ▶ Safer Prescribing/Administration of Medication - Clinical staff being presented with Vital Sign Observations / Blood Sugar Levels at the point of prescribing and administration.

EPR Maturity

- ▶ 2019: EMRAM baseline & gap analysis
- ▶ Expect to achieve **stage 5** summer 2022

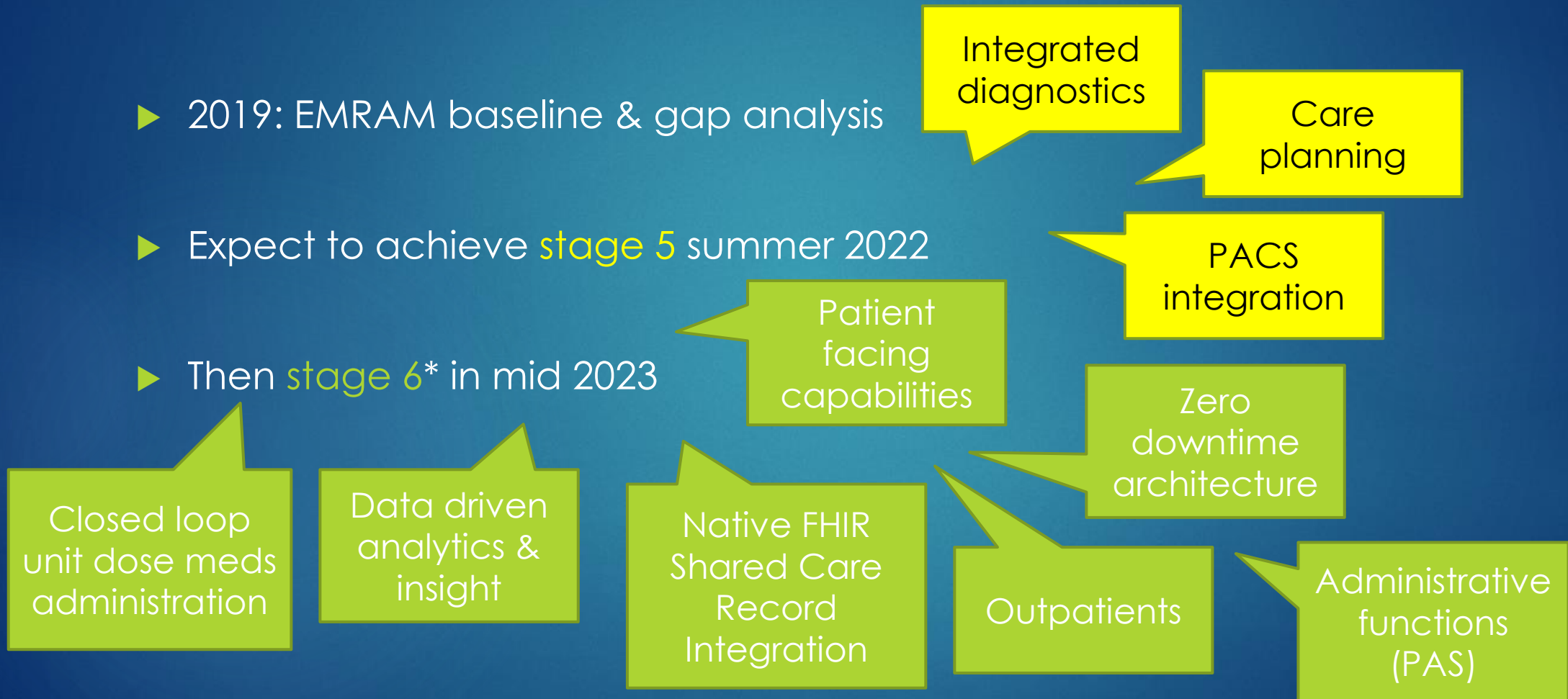
Integrated
diagnostics

Care
planning

PACS
integration

EPR Maturity

- ▶ 2019: EMRAM baseline & gap analysis
- ▶ Expect to achieve **stage 5** summer 2022
- ▶ Then **stage 6*** in mid 2023



* Subject to confirmation of criteria for EMRAM 22

Key messages

- ▶ Usability and co-design are proving critical to successful EPR adoption under post COVID-19 operational pressure
- ▶ A better user experience and better product(s) can realise additional benefits even when moving system to system
- ▶ Understanding and addressing capability gaps can enable rapid progress to higher order EPR maturity (EMRAM stage 5+)
- ▶ Real world testing of business continuity capabilities and organisational readiness whilst aiming for near zero downtime crucial for risk assurance
- ▶ Convergence onto platforms that can adapt and deliver standards based interoperability at the right geography for our patient pathways should be our aim

Thank You!

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NEXT GENERATION EPR



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