

Medical Device Safety: What does “the future” really mean?

Sarah Jennings: Patient Safety Clinical Lead for Medical Devices at NHS Improvement

NAMDET Conference 2018

Progressively wider definitions of safety....

“The simplest definition of patient safety is the prevention of errors and adverse effects to patients associated with health care.” WHO website

“...avoiding injuries to patients from the care that is intended to help them”
Institute of Medicine



Safety is a moving target



“Patient safetyis concerned with errors of commission (doing the wrong thing) and errors of omission (failure to do the right thing) and is inextricably linked with the other aspects of quality”

Clinical effectiveness = the right thing to do

Patient safety = doing the thing right

QI = continual efforts to ensure we always do the right thing the right way?

Paradigm Shift



Pictures courtesy of Imaginarium Productions

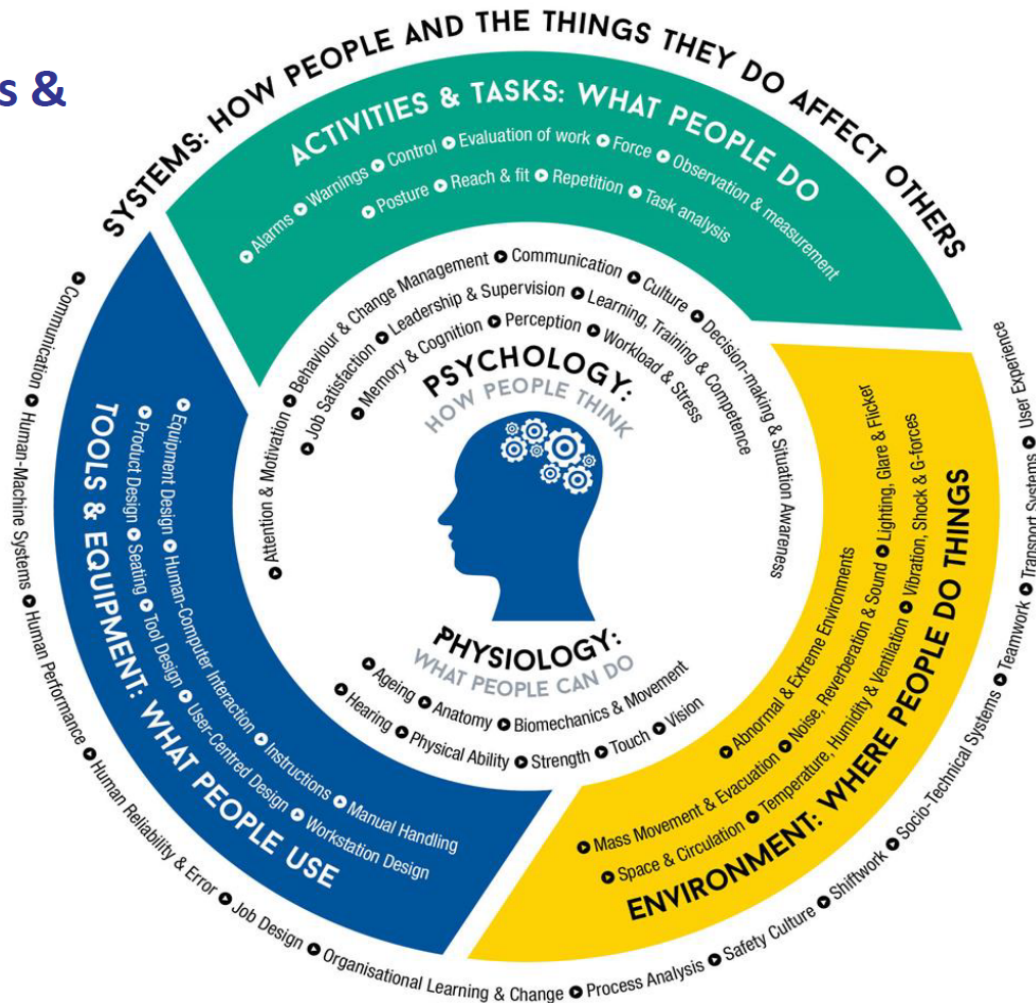
Can it go wrong?

*“Despite the best selection, training, experience, competence and intentions, **all users of poorly designed** medical devices, equipment and technologies will at least operate inefficiently and, at worst, make errors that can contribute to harm or death”.* U.S. Food and Drug Administration 2015

IF THERE'S MORE THAN ONE WAY TO USE A DEVICE, AND ONE OF THOSE WAYS CAN RESULT IN PATIENT HARM, THEN SOMEONE WILL DO IT THAT WAY

WHAT CAN'T GO WRONG WON'T GO WRONG

Using a broad definition of Human factors & ergonomics



Key changes - increased traceability of devices

Improvement



Eudamed will be expanded - collating information on multiple pre- and post-market aspects



Increased focus on identification and traceability through a mandatory unique device identifier (UDI) that will be placed on all device labels



For devices other than class III implantable devices, health institutions will need to store and keep the UDI of the devices with which they have been supplied



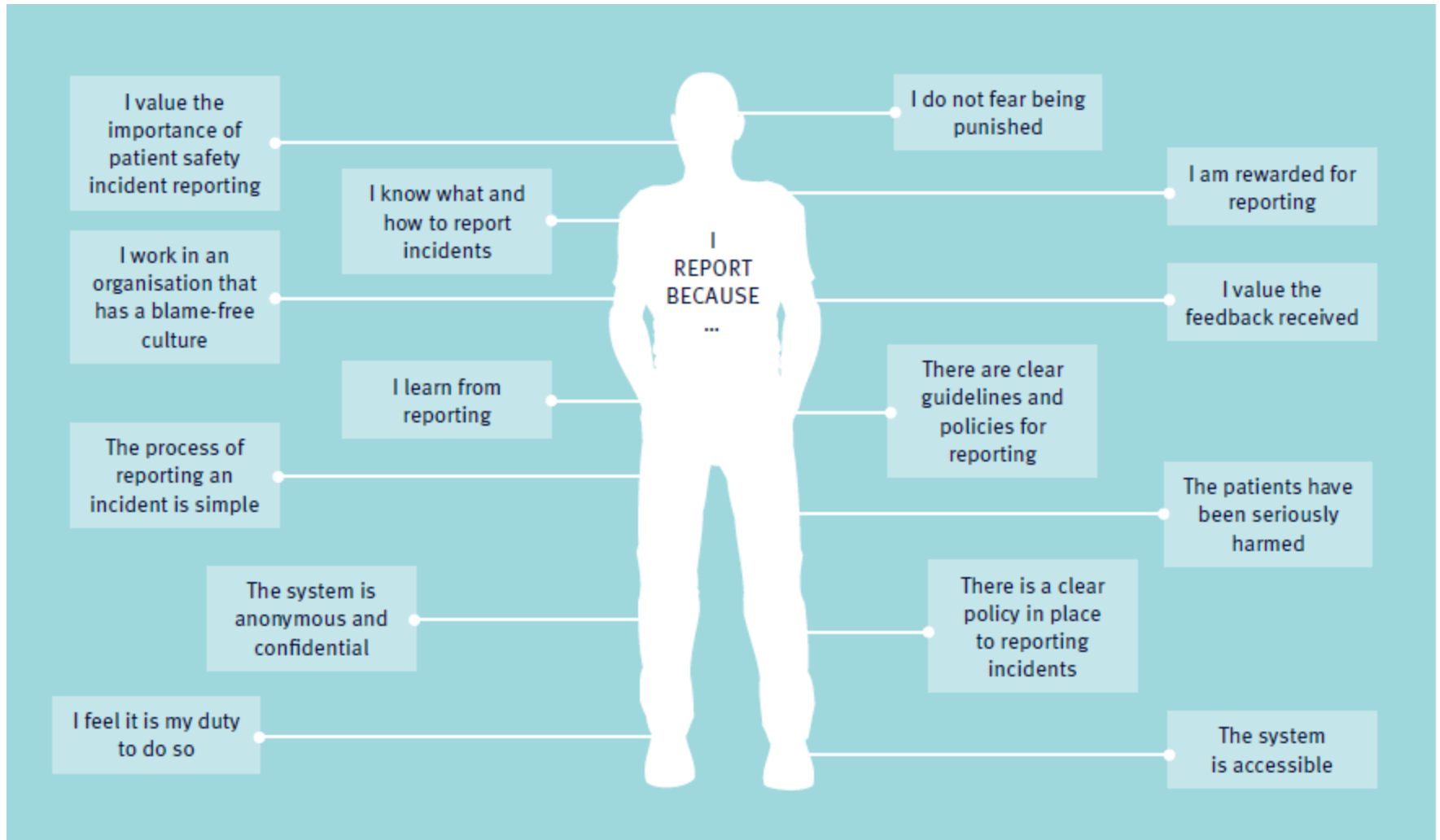
Patients with implantable devices will receive implant cards linking the device with their identity

We want to support the NHS to become a system devoted to continuous learning and improvement of patient safety.

Increasing our understanding of what goes wrong in healthcare

Enhancing the capability and capacity of the NHS to improve safety

By tackling the major underlying barriers to widespread safety improvement



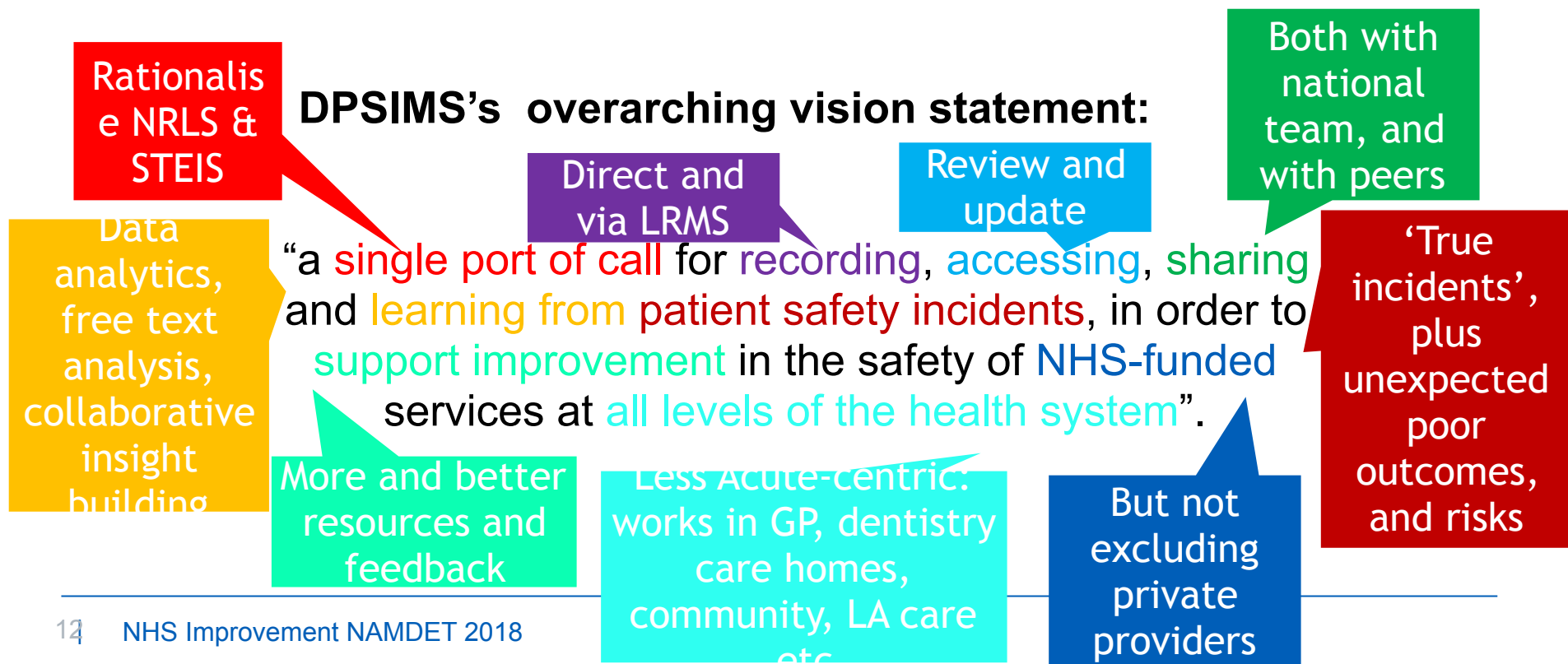


Development of the Patient Safety Incident Management System

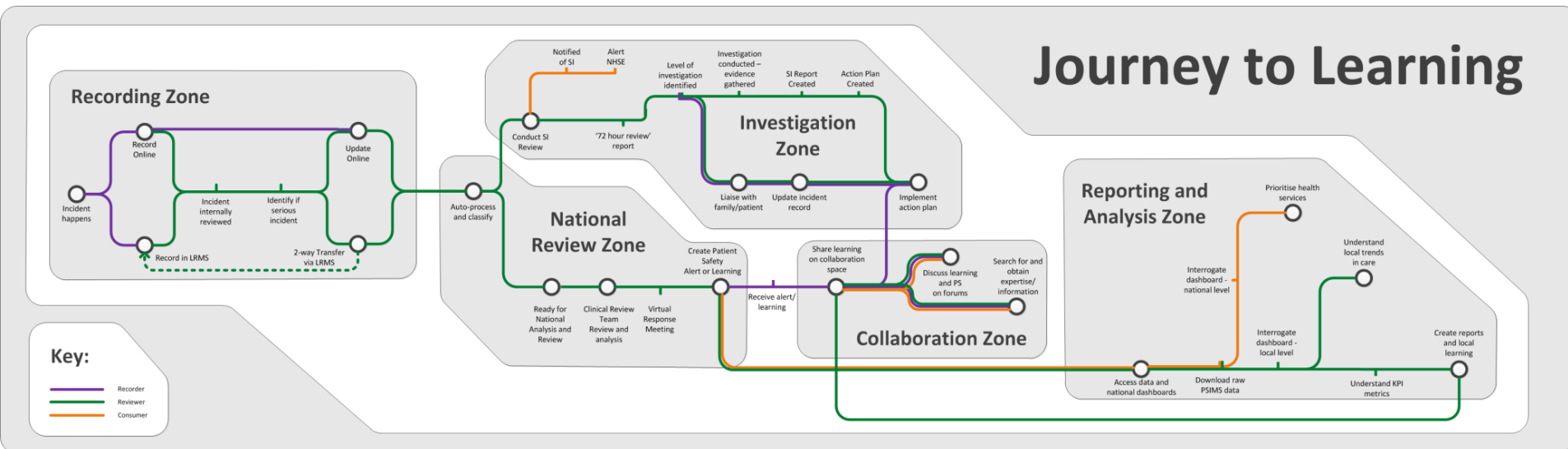
“a single port of call for recording, accessing, sharing and learning from patient safety incidents, in order to support improvement in the safety of NHS-funded services at all levels of the health system”.

Introducing DPSIMS

The DPSIMS project offers an opportunity to use modern technology to improve the health service for patients and carers, healthcare staff, NHS organisations and decision-makers, so that time and energy can be invested in the right things: **working to reduce harm**.



What will PSIMS offer?

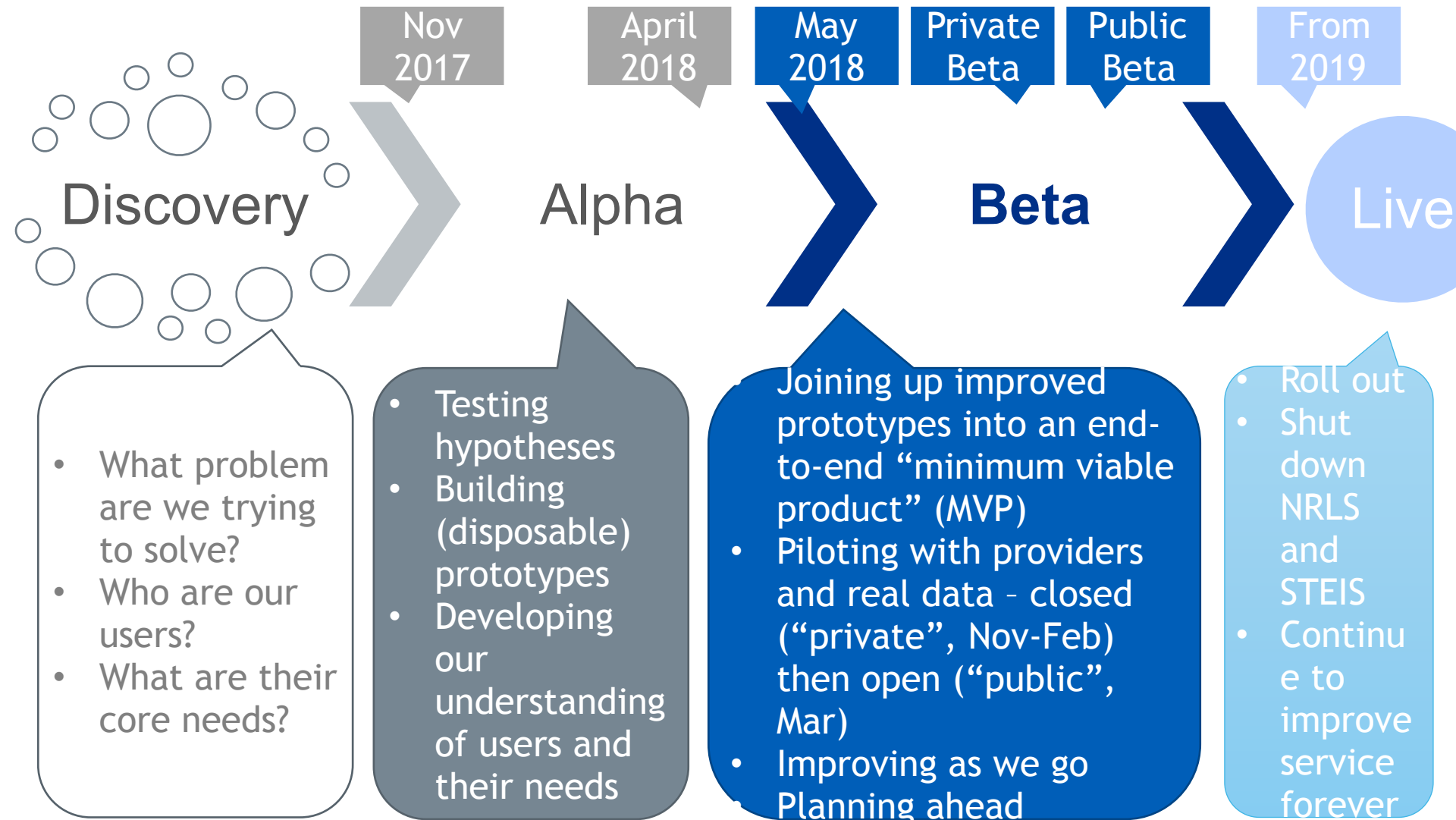


5 main “zones” of functions to support NHS Improvement’s statutory patient safety duties:

- *To collect and analyse information about what goes wrong in the NHS*
- *To provide advice and guidance on reducing the risks to patients...*
- *To help providers better understand what goes wrong in care*
- *To support increased transparency around patient safety data*

(NHSI 2017-19 Business Plan)

High level plan



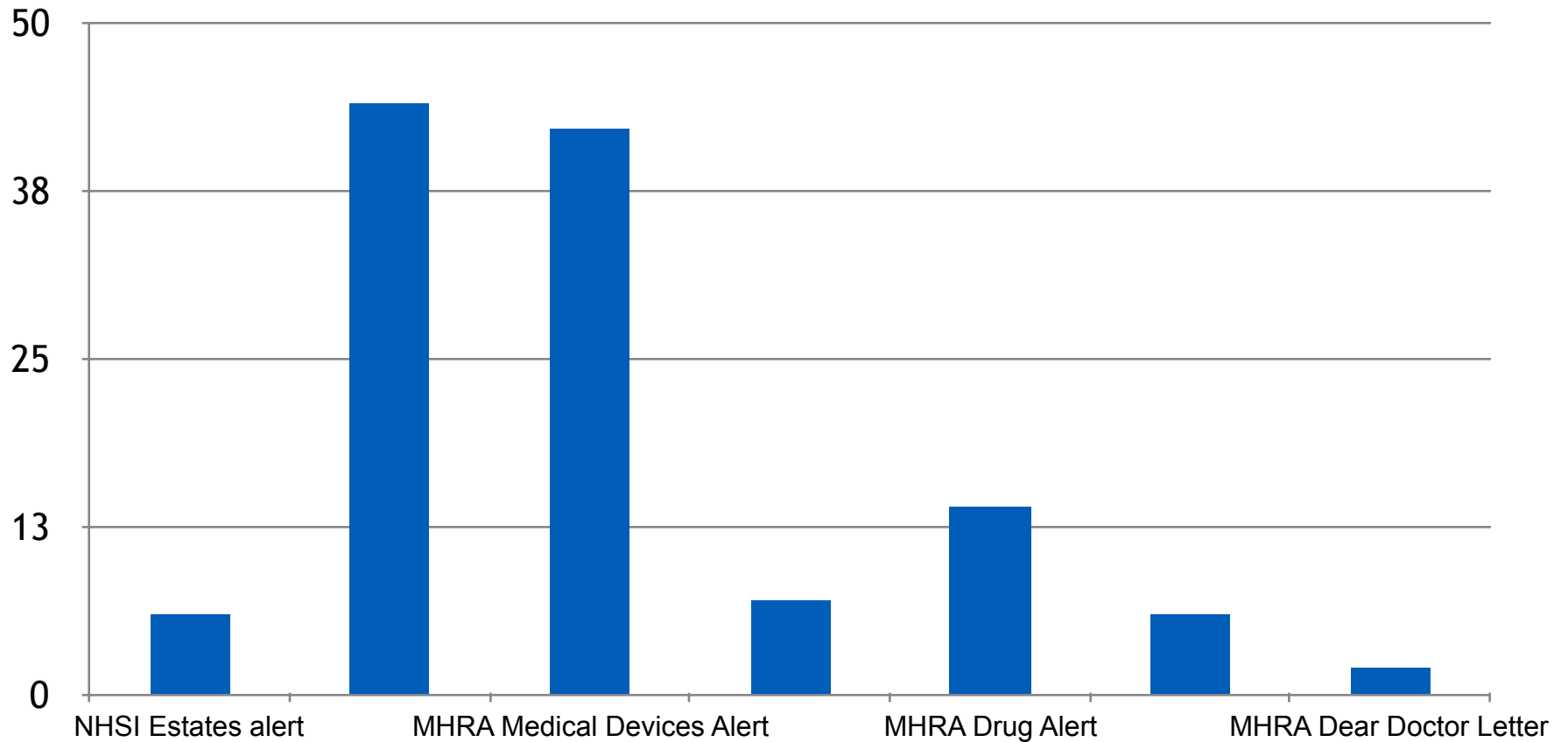
A single system for all National Patient Safety Alerts



MHRA summit for UK partners January 2018

“Many national bodies in England, Scotland, Wales, Northern Ireland, or those with a UK-wide remit, issue communications to the healthcare service asking for action to be taken to protect patient safety. These may be called alerts, bulletins, messages, notices or go by other names, and may be issued via the Central Alerting System or alternative systems, including in the devolved nations”

Types/numbers of some safety communications sent via CAS



Issues:

- Feeling overwhelmed by communications (many local/regional)
- Tradition/custom and practice (from some decades past)
- Assumption alerts intended to warn individuals to try harder not to make mistakes leading to 'circulate and sign' approach
- Delegation to multiple units to act rather than coordinated efforts
- Not always on executive/senior/clinical leadership radar
- Alerts signed off as action completed without actions completed

What people wanted:

- Create a clear distinction between **requirements for organisational action by a specific date (NHSI leading)** and **messages conveying information for individuals to read and remember (MHRA leading)**
- Consistency of presentation of key content including clear actions
- Highlight those that need board/leadership involvement
- **Issue fewer of them, to increase focus on those that matter (but also noting issues they felt should have been alerts not letters/**

National Patient Safety Alert Committee



- The Committee will establish criteria to help NHS safety bodies give appropriate ‘national alert’ status to risks of death, disability or other serious harm. In turn this will make it easier for trusts, GPs and other NHS providers to understand when they need to coordinate urgent action to protect patients.
- The new National Patient Safety Alert Committee will agree common standards for those that require an immediate or co-ordinated response by providers.
- In future, an alert that requires complex action and organisational leadership will stand out.

Minister of State for Care Caroline Dinenage said:

“All NHS staff want to keep their patients safe and we will do our utmost to support them. The establishment of a National Patient Safety Alert Committee is another important intervention to ensure the NHS is supported to recognise, understand and implement the key steps that will reduce the risk of future tragedies - continuing our drive to making the NHS the safest healthcare system in the world.”

The Committee will be chaired by National Director of Patient Safety Aidan Fowler with Chief Inspector of Hospitals Ted Baker as deputy chair.

The Care Quality Commission will also monitor compliance with specific National Patient Safety Alerts as appropriate during their inspections with plans to roll out the current pilot approach to Trusts in the Autumn.

We've all been working on it

National Patient Safety Alert Committee

- All Alert issuers represented at highest levels + CQC
- Draws from past experience of accreditation for clinical guidelines (e.g. NICE and Royal College guidance) - *multiple issuing bodies, but users can trust 'kite marked' clinical guidance*
- Common standards, thresholds and formats to be mutually agreed (we're getting there) confirmed and maintained - *including an inherent need to set thresholds at a level that reduces overall numbers*
- 'Credentialing' is authorisation for the issuing body/team to designate a specific publication as a **National Patient Safety Alert** when these common standards are met - *not an extra committee approval stage for individual alerts*
- We've got consensus on principles, aiming to establish by late

2018



MEDICAL DEVICE SAFETY



National Reporting and Learning System



**Patient
Safety
Alert**

Stage Three: Directive
Improving medical device
incident reporting
and learning
20 March 2014



The **AHSN** Network **England**
NHS Innovation Accelerator

Alert reference number: NHS/PSA/D/2014/006 Alert stage: Three - Directive

**“The best
way to
predict the
future is to
create it.”**

or design it, or at the very least,
influence it!