

Creating and Systemising Change through Improvement

Dr Ruth Gray Assistant Director in Quality Improvement and Innovation **SEHSCT**

ruth.gray@setrust.hscni.net





The Current State



DETERIORATION:

The health of the nation has worsened over the past 15 years, with a <u>substantial</u> increase in the number of people living with multiple long-term conditions.



PRODUCTIVITY:

Too many resources have been poured into hospitals where productivity has fallen substantially, while too little has been spent in the community.



Waiting lists have swelled and waiting times have surged, with A&E queues more than doubling from an average of 40 people in 2009 to over 100 in 2024.



LASTING DAMAGE:

The Health and Social Care Act 2012 did lasting damage to the NHS and the effects continue to be felt today.



CANCER CARE:

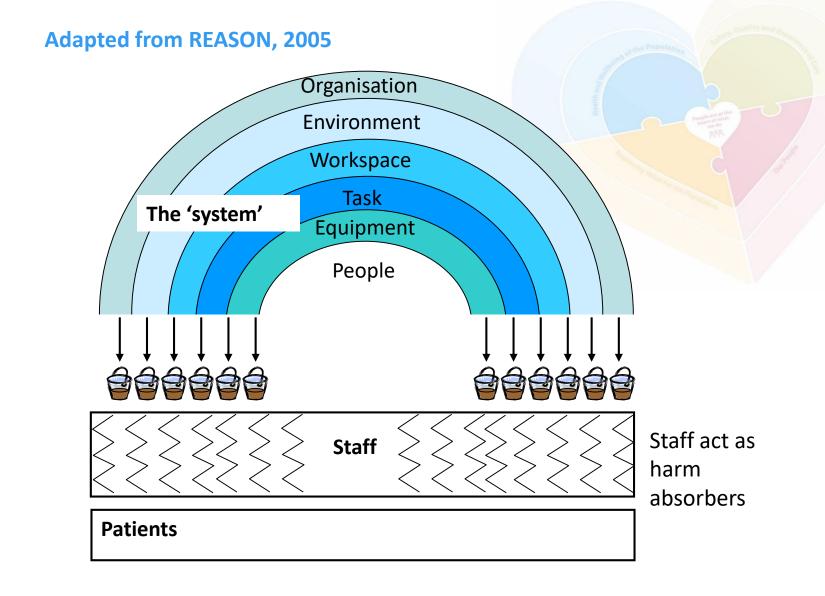
The UK has significantly higher cancer mortality rates than other countries, with no progress whatsoever made in diagnosing cancer at stage one and two between 2013 and 2021.



NOT BEATEN:

Despite the challenges, the NHS's vital signs remain strong. Staff are extraordinarily talented and dedicated. We've turned the NHS around before, we can do it again.





Factors within the healthcare system that could potentially lead to poor Quality

IOM 6 Dimensions of Quality





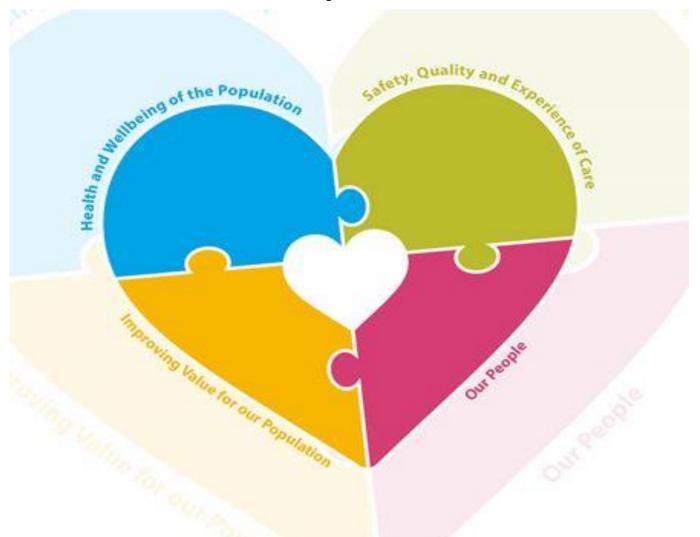
How Do We Create Change?



Every System is Perfectly Designed to Get the Results it Gets (Deming)

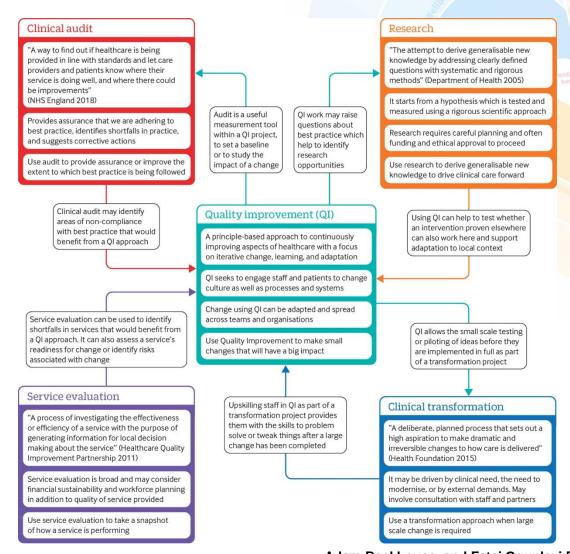


Quadruple Aim





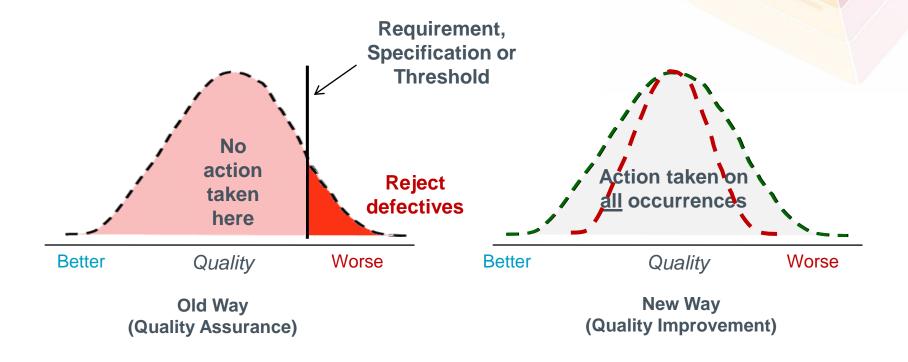
Using Audit to Create Change





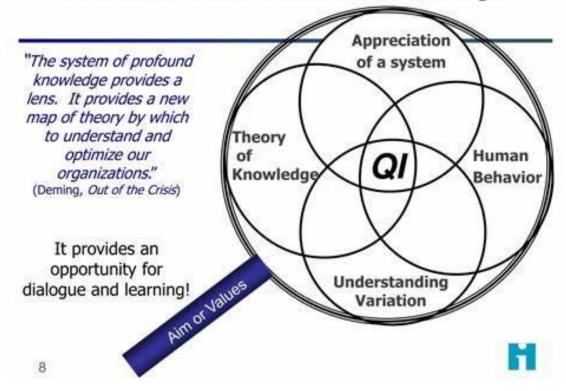
Adam Backhouse, and Fatai Ogunlayi BMJ 2020;368:bmj.m865

Quality Assurance vs Quality Improvement



Demings System of Profound Knowledge

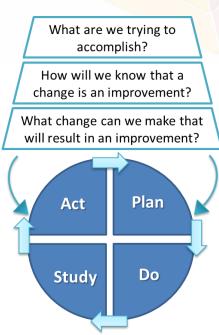
The Lens of Profound Knowledge



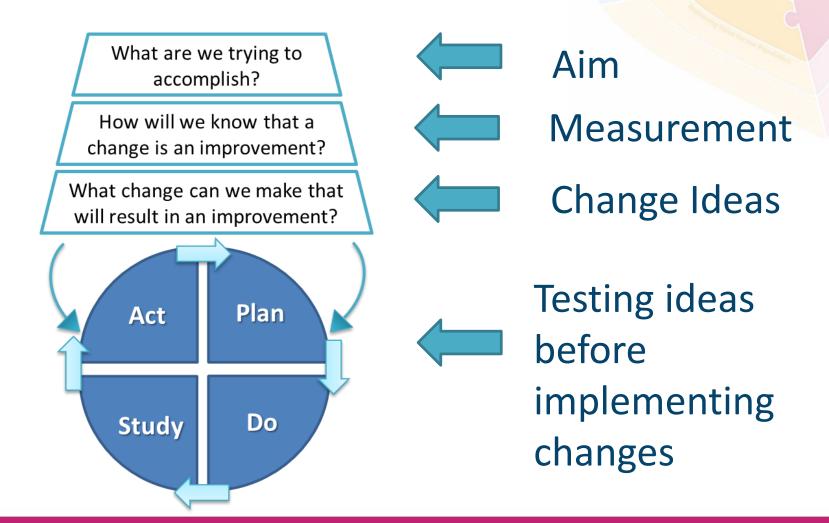
Quality Improvement

- A systematic approach that uses specific methods and tools to improve quality
- An applied science no one agreed approach
 - LEAN, Model for Improvement

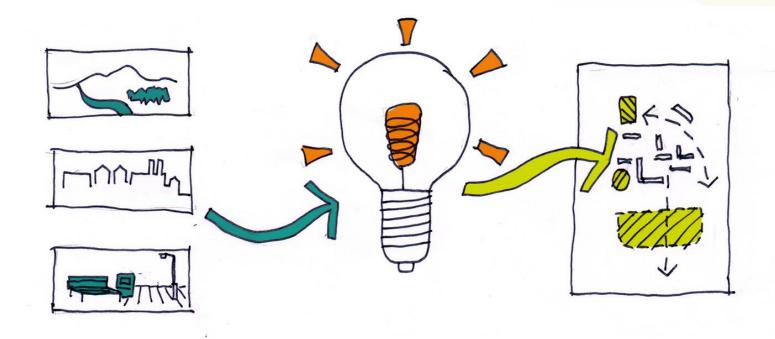
- Key elements:
 - change resulting in improvement
 - method an approach with appropriate tools
 - understanding the context



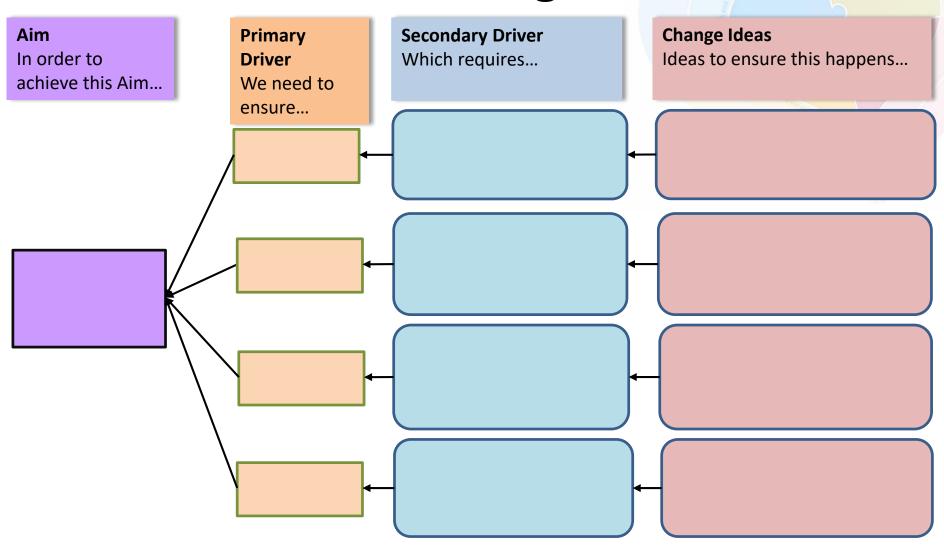
Model for Improvement



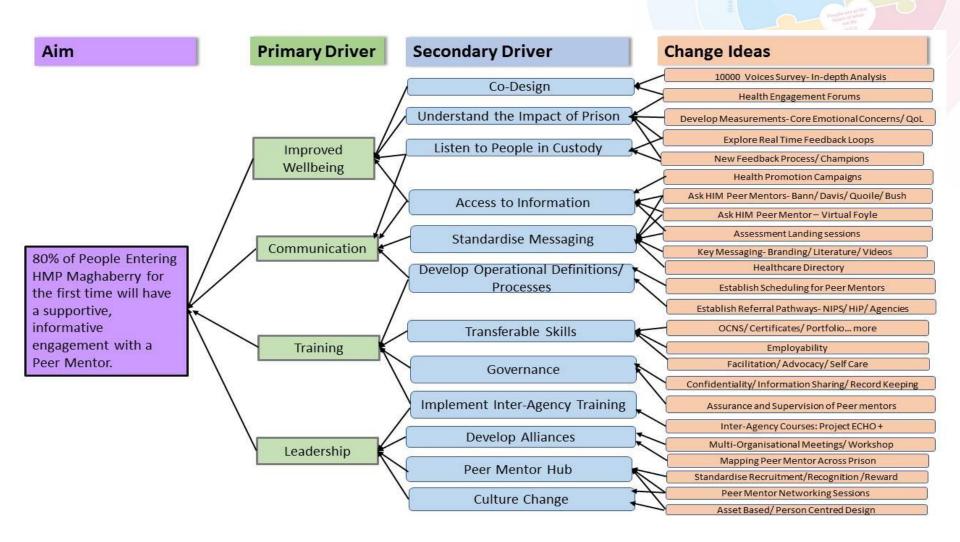
Study Design: Aim, Driver Diagram Project Charter

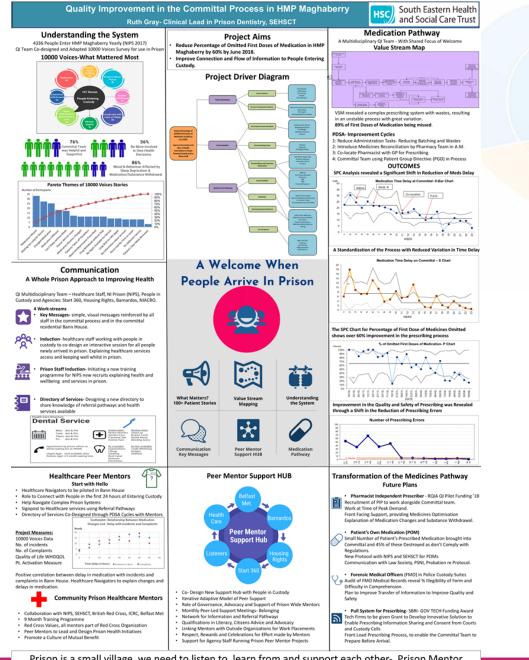


Driver Diagram



Driver Diagram

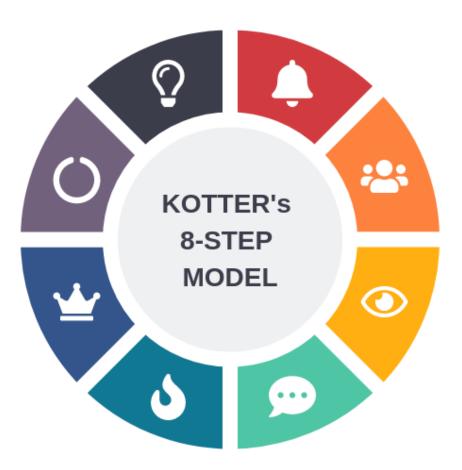




Prison is a small village, we need to listen to, learn from and support each other- Prison Mentor



Kotter's 8 Step Change Model



01 Create

Establish a feeling of urgency of hurriedness towards change.

03 Form

Develop a strategy to bring about change.

05 Enable

Empower employees for taking action to incorporate changes

07 Sustain

Capitalize of wins or gains in order to produce bigger results

02 Build

Formulate a guiding coalition

04 Enlist

Communicate or put forth the vision or strategy for change

06 Generate

Formulate and generate short-term goals

08 Institute

Incorporate new and better changes in workplace culture





Creating a Sense of Urgency







Form a Guiding Coalition

Co-design is about challenging the imbalance of power held by individuals, who make important decisions about others lives. Often with little of no involvement of the people who will be most impacted by those decisions.

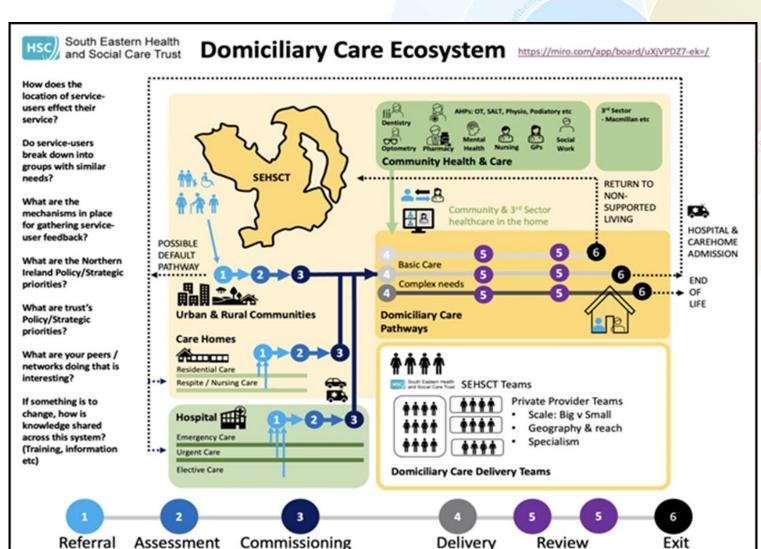


- Prioritising relationships
- Using creative tools
- Building capability
- It uses inclusive convening to share knowledge and power
- Experience Based Co-Design EBCD





Data Driven

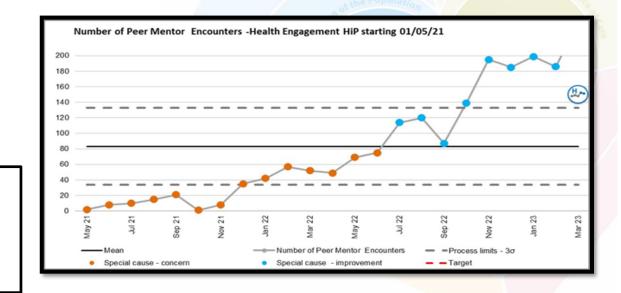


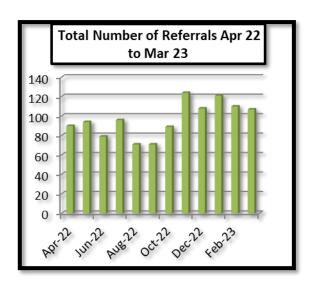


Data Driven

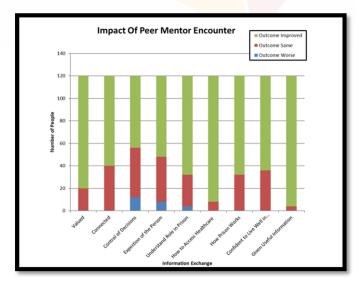
Ask HIM Mentor Impact

Number of Mentors- 13 Number of Encounters-1897 Foreign Nationals- 36 Induction - 254









Measurement for Improvement

Measure Type	Characteristics	Number
Outcome	 Voice of the customer or patient How is the system performing? What is the result? Always links back to your aim 	1-2
Process	 Voice of the workings of the system Are the parts/steps in the system performing as planned? Can be an early indication of improvement in the outcome Careful not to overdo the number 	3-5
Balancing	 Looking at a system from different directions/dimensions Looks at the impact a change may have on other parts of the system Unintended consequences Upstream/downstream Optional, but wise 	1-2

An Operational Definition...

...is a description, in quantifiable terms, of what to measure and the steps to follow to measure it consistently.

- It gives communicable meaning to a concept
- Is clear and unambiguous
- Specifies measurement methods and equipment
- Identifies criteria

Operational Definitions Build a Structure

Your task as a team is to build the **tallest freestanding structure** possible in 10 minutes. The marshmallow must be on top.

Introduce Clear Definitions

- Tallest = Vertical height from table surface to the top of the marshmallow, measured with a ruler.
- Freestanding = Structure stands for at least 5 seconds without any external support (e.g., no hands, no tape to table).
- On top = Marshmallow must be the highest point on the structure and visible from above.

Go Again- 8 minutes

Habits of the Improver

Figure 1 - The habits of improvers

