

Facilitating Quality Improvement Projects

Dr Mark Attah

GP Trainer, Bretton Medical Practice, Peterborough Associate Postgraduate Dean, Health Education England Medical Advisor, NHS England

















- What is Quality in Health?
- What is Quality Improvement?
- How can we support Trainees to undertake Quality Improvement Projects?
- What Quality Improvement methods can trainees use to undertake a Quality improvement projects?



What is Quality In Health Care?

Quality is a complex notion and means different things to different people.

Our definition of quality is essentially very simple; we see it as "the degree of excellence' in healthcare".

Quality is the degree to which health services for individuals and populations increase the likelihood of desired health outcomes and are consistent with current professional knowledge.



The Dimensions of Quality in Health Care

- Safe
- Effective
- Person-centred
- Timely
- Efficient
- Equitable



What is Quality Improvement?

Quality Improvement (QI) is a commitment to continuously improving the quality of healthcare by focusing on the preferences and needs of the people who use the services.

It is an evidence-based approach that helps primary care free up time to deliver initiatives and embed new approaches more effectively and efficiently into practice. QI helps GPs to make the most of their systems, organisations, talents and expertise to deliver better outcomes for patients.

Choice of project



Identify a specific aspect of practice that bothers the trainee or Practice, where improvement would benefit patient care. This could be a clinical or a non-clinical area, within the practice, or between the practice and the community, the hospital, a particular patient group etc.



Choice of Project

- should be relevant to primary care, aligned to local priorities.
- should have the potential to make a difference to patient care
- Should involve the multi-disciplinary practice team
- should be straightforward enough to be completed within the time period given
- _may be done on your own, or with other trainees, so long as your own contribution can be clearly identified and that you write this up individually, highlighting your own learning

Getting ideas



Encouraged the trainee to come up with your own idea but you could also work on an idea identified by a member of the practice team. The idea could also be aligned to the local NHS quality and safety agenda, be identified as a problem area in out-of-hours, be part of a collaborative project working with allied health professionals, or be linked to an area of academic general practice in a university.

Look around the practice-it shouldn't be too difficult to find areas where things could be done better!

Getting ideas



?Examples

- _Could there be more efficient use of the appointments system?
- Are patients' results dealt with in the most efficient way?
- ② _Are monitoring tests missed so the patient has to be re-called, or patient safety is compromised?
- _Are patient's repeat prescriptions reviewed at the right frequency?
- I _How are recommendations such as a medication change actioned from a hospital letter?
- _Are referrals dealt with in a timely way?
- Is the way that the practice works clearly signposted to all patient groups?
- Could IT be put to better use in the surgery?
- Are there areas of waste in the system that could be rectified?
- Could communication be improved between different members of the team?

Think SMART! Define clear and focused Objectives Improving Quality

It is important to set clear aims and objectives for the QIP before embarking on the project and trying to collect data. Just as in qualitative research, a poorly defined research question can lead to inappropriate lines of enquiry and time-wasting collection of large quantities of irrelevant data. There needs to be a clear rationale for your QIP, based on evidence and aligned to local needs, so research your proposed topic carefully. You may wish to undertake a brief literature search, look at local activity data, or talk to "experts" in the field.



Make a plan



Decide on Methodology



Decide on How to measure Impact

Ask yourself:

- ?What does "better" look like?
- ?How will we recognise better when we see it?
- ?How do we know if a change is an improvement?

- Outcome measures
- Process Measures
- Balancing measures

Write up



Introduction. The issues, the practice, and the wider context

- 2. Evidence-based approach. Literature search and critical appraisal of local evidence
- 3. Reason for choice of quality improvement project what problem or improvement does the QIP attempt to address?
- 4. Methodology a SMART strategic action plan, and a clear and concise description of the quality improvement carried out and how the work was done.
- 5. Results an understandable presentation of the results and methods used.
- 6. Evaluation of the impact of the change/quality improvement. Discussion of the outcome.

Write up



- **6**. Evaluation of the impact of the change/quality improvement. Discussion of the outcome.
- 7. Conclusions, and suggestions for further development.
- 8. Critical reflection; your personal learning.
- 9. Appendices supply raw data, examples of protocols as appropriate.
- 10. References



In the report, summarise the developments and reflect both on the personal learning points from undertaking the QIP, and the learning for the organisation. The presentation should include reflection on the change management process, difficulties encountered, the impact of the quality and suggestions for further work. If there are documents and examples of best practice e.g. referral frameworks or clinical protocols, include these as appendices to the reports.

A template can be used when writing up the final project report .



How can we improve Quality?

EXTERNAL DRIVERS

Professional requirements (GMC/ Appraisals), QOF, CQC LES/ DES, CQUINS

INTERNAL

Organisations using various proven Models and Methods such as:

Model for Improvement(PDSA), Experiencebased co-design, Statistical process control, BPR, Lean, Six Sigma,



Change Model framework



 An evidence-based improvement methodology ensures that our change will be delivered in a planned way that follows tried-and tested methods for assuring success.

The Model for Improvement



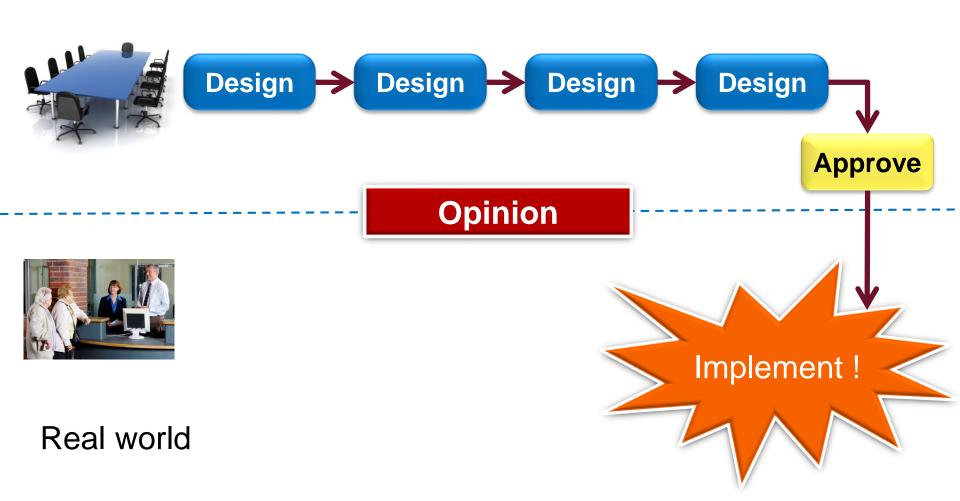
What are we trying to accomplish?

How will we know that change is an improvement?

What change can we make that will result in improvement?

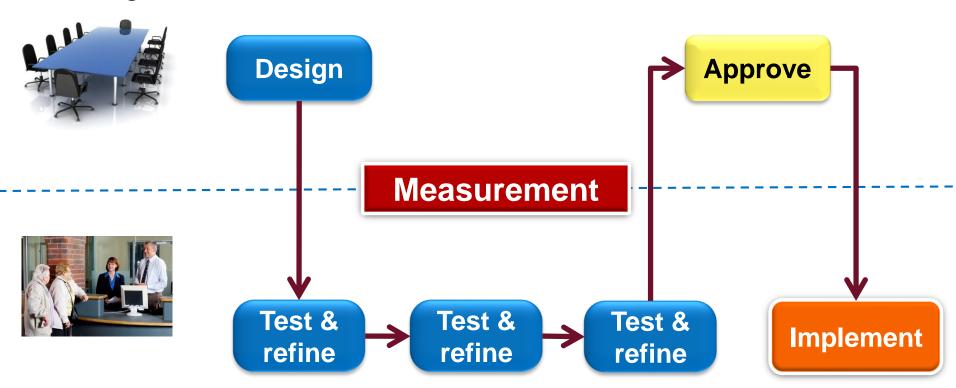


Meeting rooms

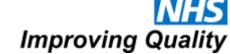




Meeting rooms



Real world



Change through small steps

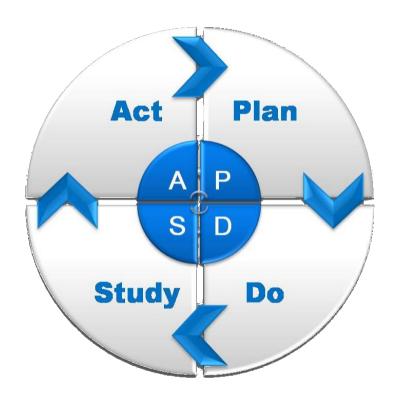
Change ...
with a clear purpose
you can learn from (without fear of failure)
which is less exhausting
with fewer unintended consequences
which builds engagement and optimism





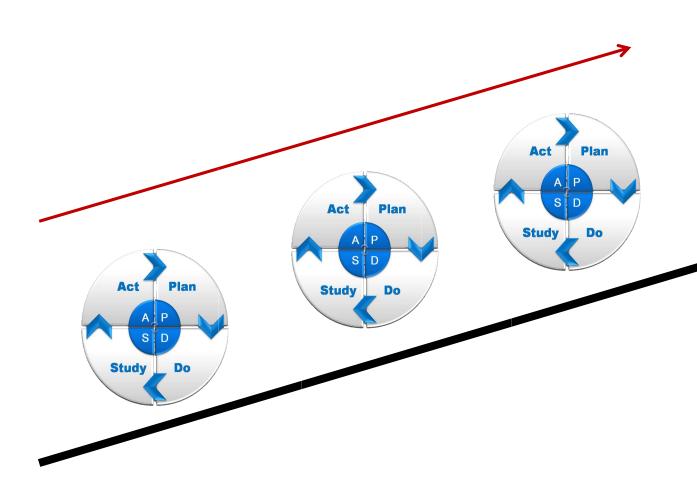


disciplined framework ensures every part is done every time facilitates rapid prototyping and rolling out of new ideas



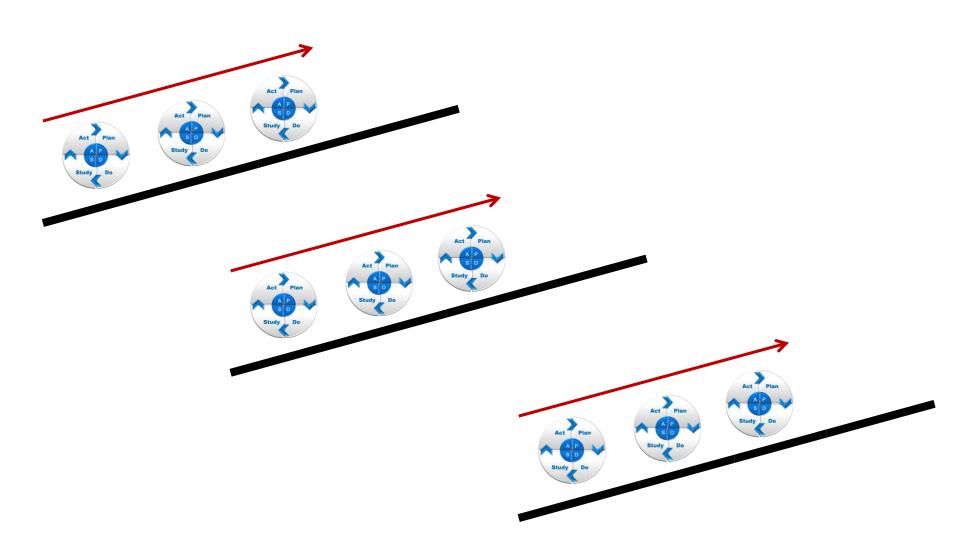
Plan-Do-Study-Act





Plan-Do-Study-Act





Why Test?



Increase belief that the change will result in improvement in your environment

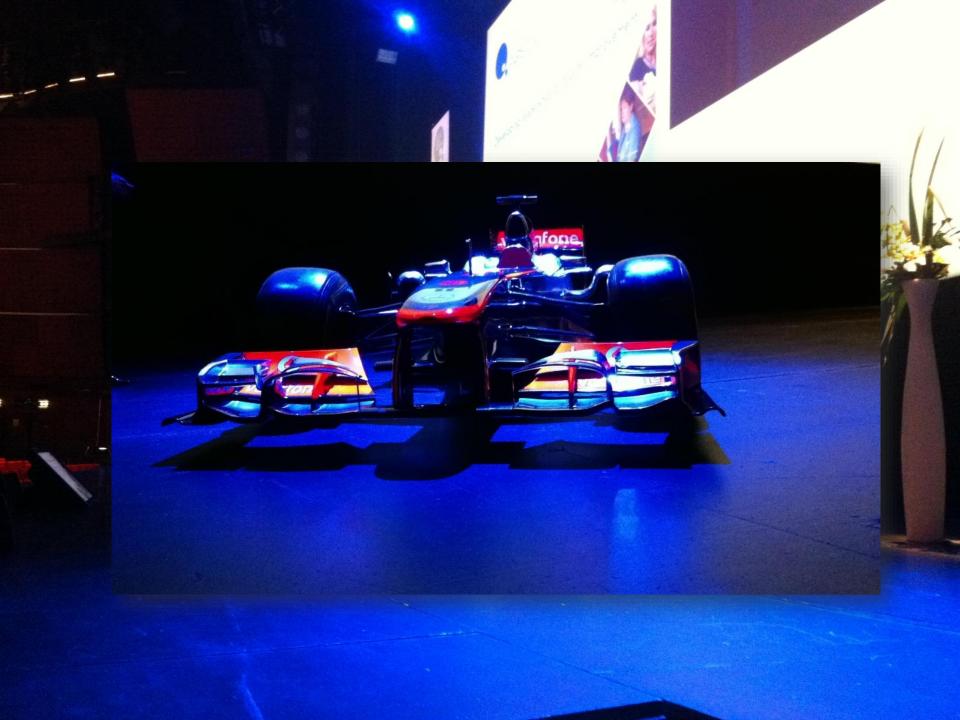
Predict how much improvement can be expected from the change Learn how to adapt the change to conditions in the local environment Minimise resistance upon implementation





easier to start
produces better solutions more quickly
engages people better
reduces waste
easier to continue





Tips on Planning the Test



Scale down size of the test (# of patients, location)

Try segmentation

Don't try to get complete buy-in, consensus, etc.

Be innovative to make test feasible (e.g. simulate if necessary)

Collect useful data during each test

Making a Prediction



What is your hypothesis?

What do you think will happen?

Think ahead to future tests depending on the results you expect to get

What do people say?



It sounds like management jargon

It's too slow

Too rigid / disciplined

Small samples aren't representative

Empowering junior staff isn't safe

Big problems can't be improved by small scale change

We just need a complete re-design

What's the evidence it works?

It's just a fashion

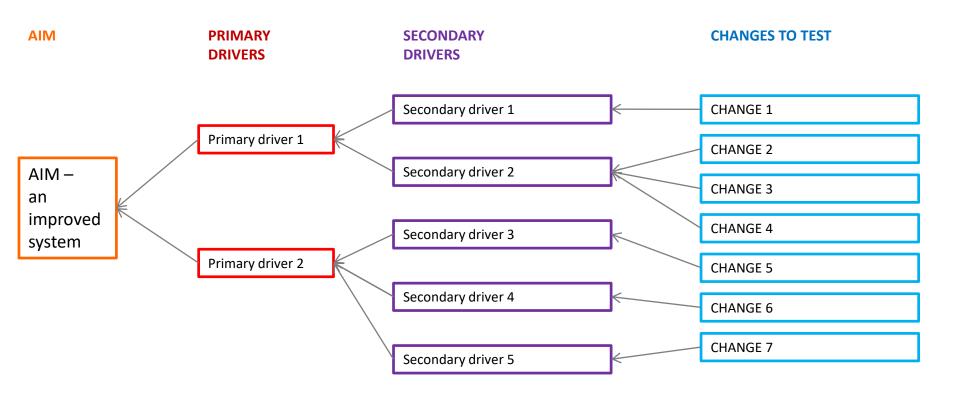


Using a driver diagram

A method or tool or process for use by individuals or teams to generate and organise strategy



Driver Diagrams



Drives

Effect

Cause



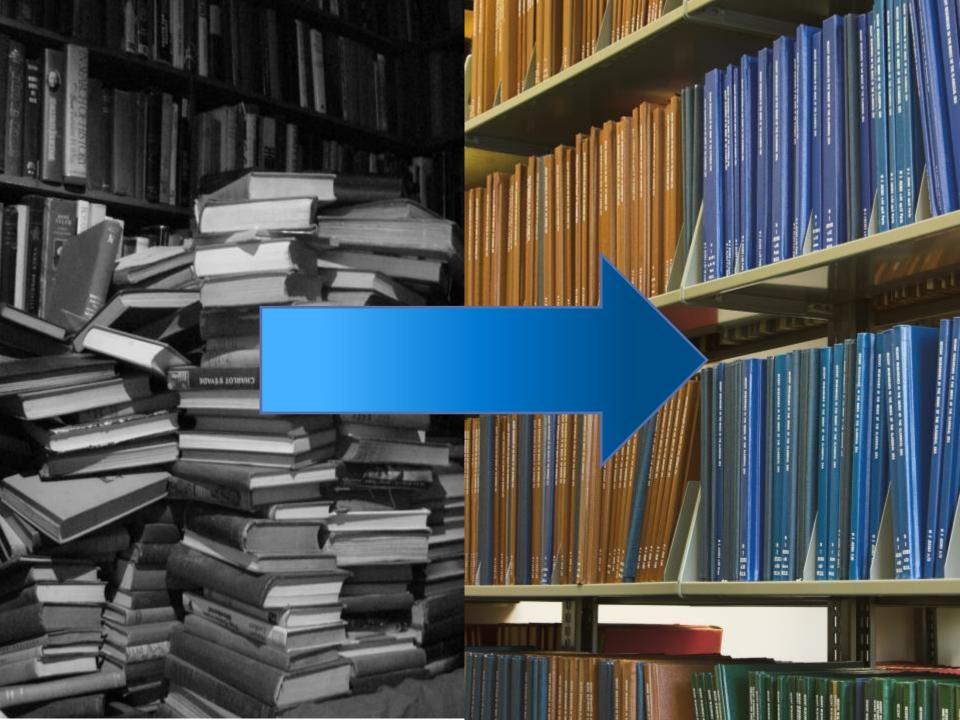
...but multifunctional





Overwhelming?









Avoid silver bullet thinking



Avoid silver bullet thinking

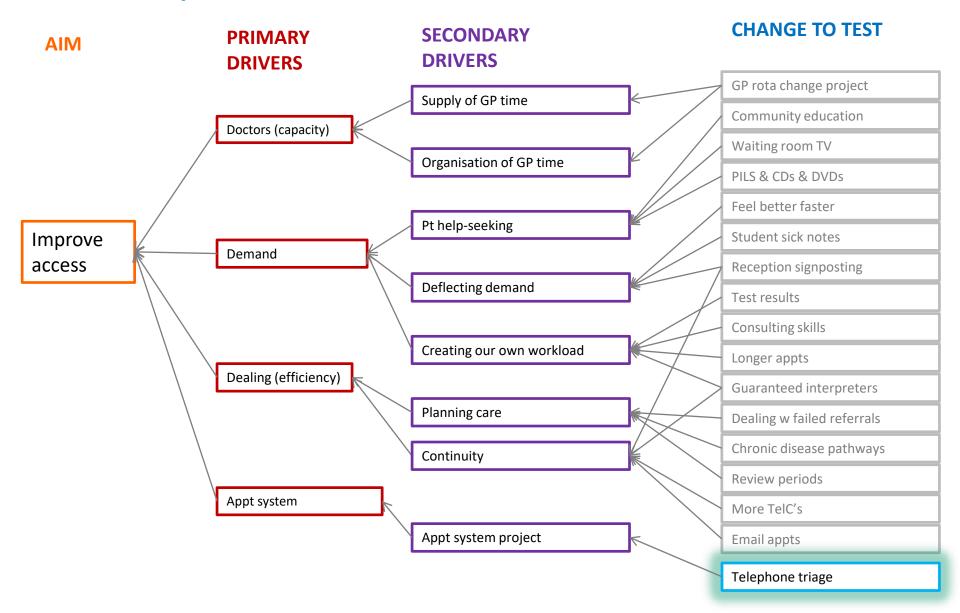
We have a major problem with access in our surgery

The solution is obvious. I've looked at the evidence and we need to bring in telephone triage.

Avoid silver bullet thinking The multiple drivers of GP a



- The multiple drivers of GP access

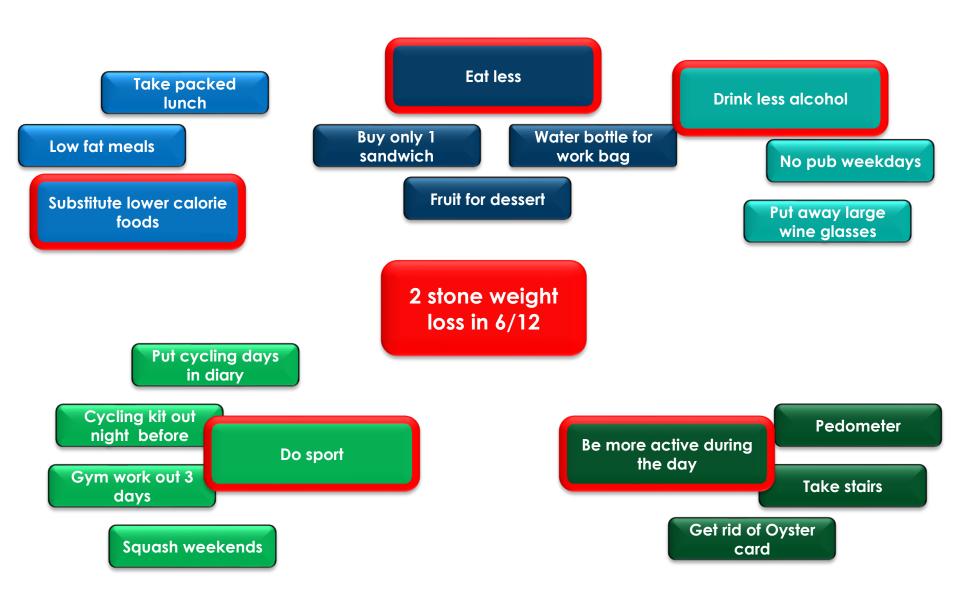


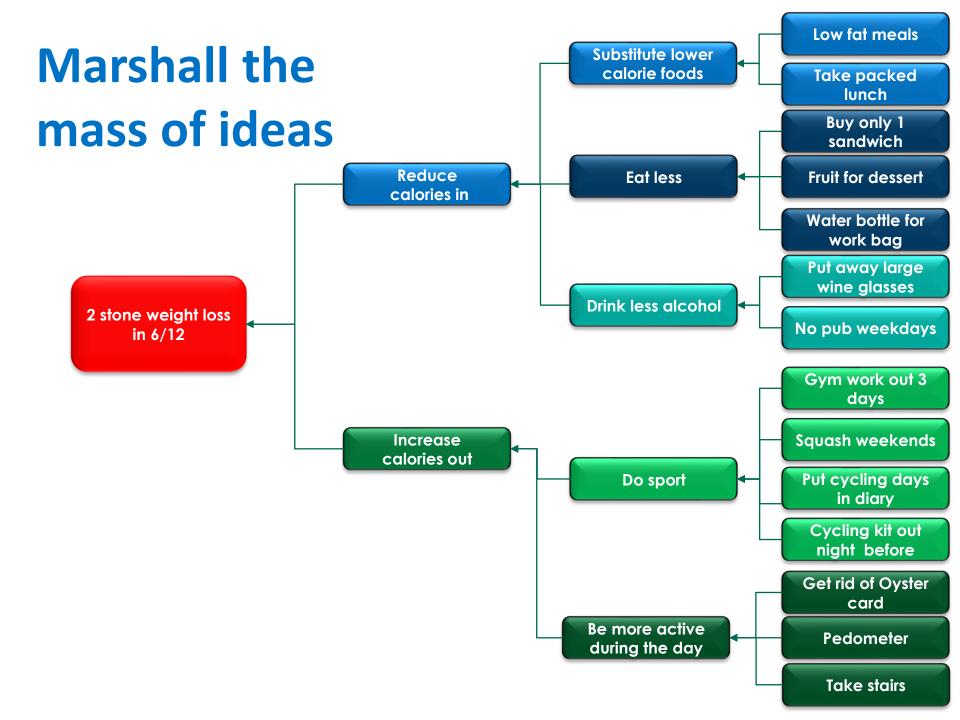
Driver Diagrams Weight loss example 2 stone weight loss in 12 months

Look for patterns



Marshall the mass of ideas





Driver Diagrams



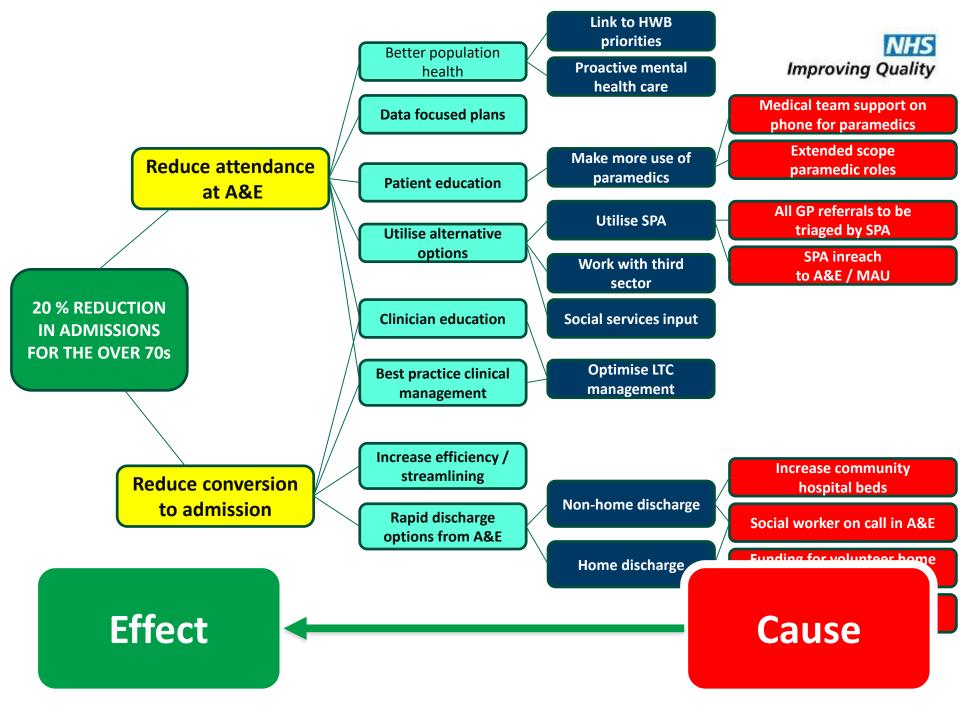
Benefits ...

- build complex strategy
- immediate
- visual

- avoid "silver bullet" thinking
- highlight overlooked ideas

Different scenarios ...

- 1. Share learning
- 2. Help generate change ideas
- 3. Marshall a mass of change ideas
- 4. Survive failure / the unexpected





NHS Improving Quality

The traditions of measurement

Research

• e.g. A-B comparison, average, huge dataset

Judgement

 e.g. one-to-many benchmarking comparison, average, large dataset

Improvement

 e.g. continual analysis of single changing process over time



Mind sets

Judgement



What mind sets are at play here?

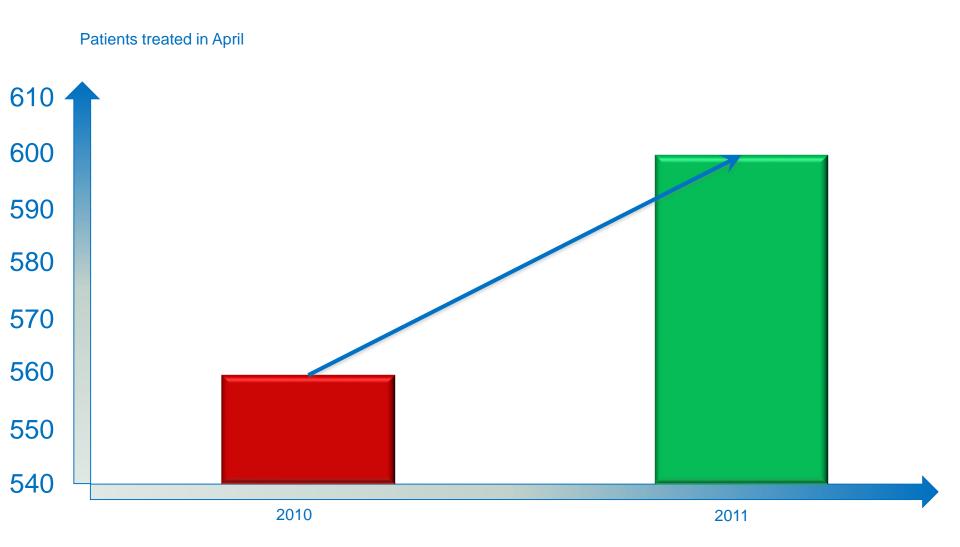


Measurement mindsets

-	Research	Judgement	Improvement
Goal	New knowledge (not its applicability)	Comparison Reward / punishment Spur for change	Process understanding Evaluating a change
Hypothesis	Fixed	None	Multiple and flexible
Measures	Many	Very few	Few
Time period	Long, past	Long/medium, past	Short, current
Sample	Large	Large	Small
Risks in improvement settings	Ignores time based variation Over-engineers data collection	Ignores time based variation Over-reaction to natural variation	Incorrectly perceived as 'inferior statistics'



What does this data tell us?





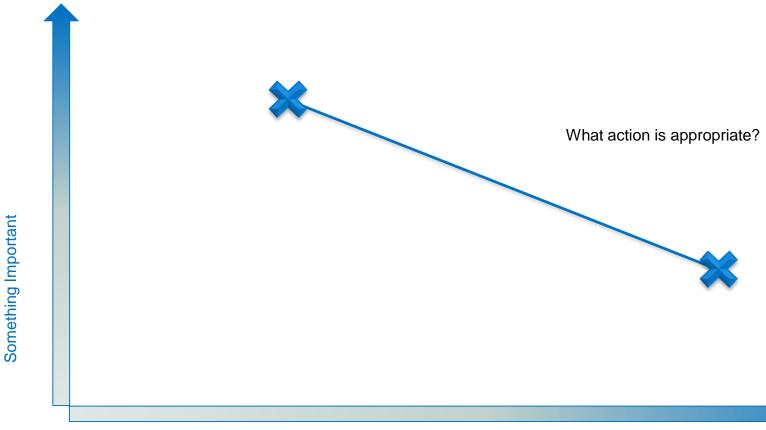
What does this data tell us?





What does this data tell us?

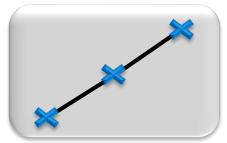
Given two different numbers, one will always be bigger than the other!



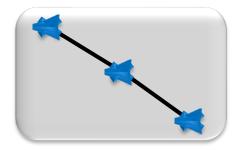
Last Month This Month



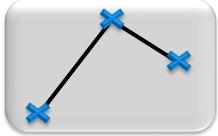
The Myth of Trends



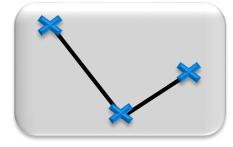
Upward trend?



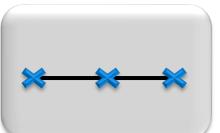
Downward trend?



Downturn? Setback?

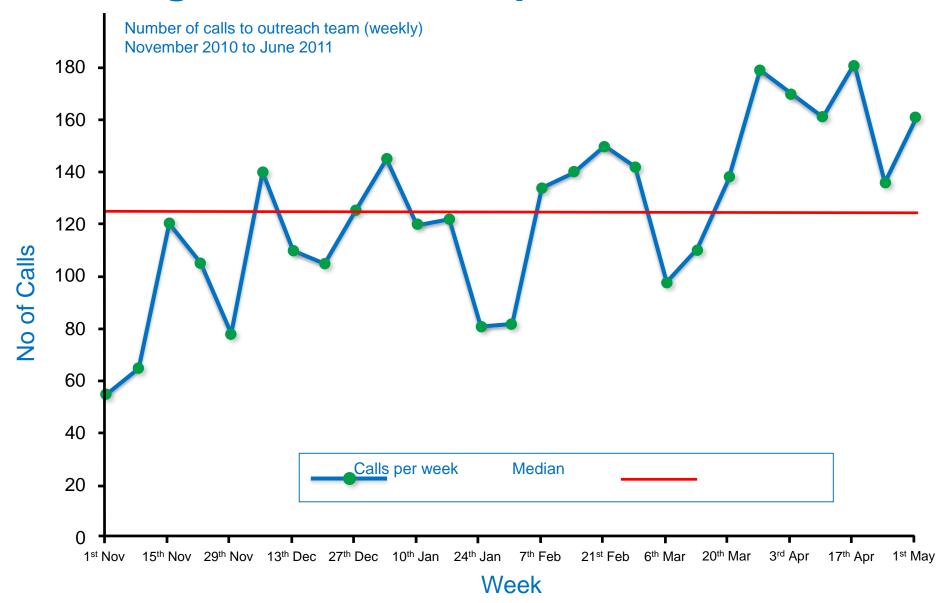


Turnaround? Rebound?



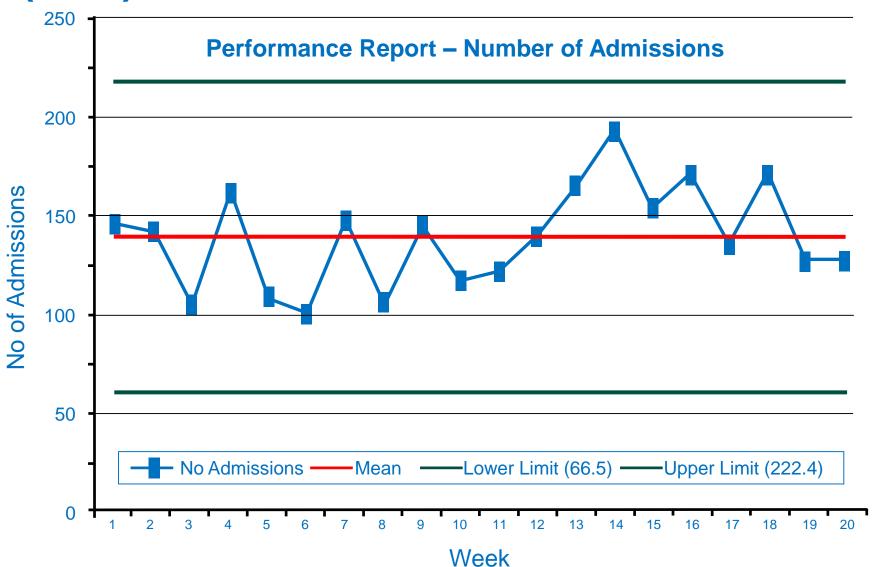
Static? Flatline?

Plotting the dots - example Run Chart



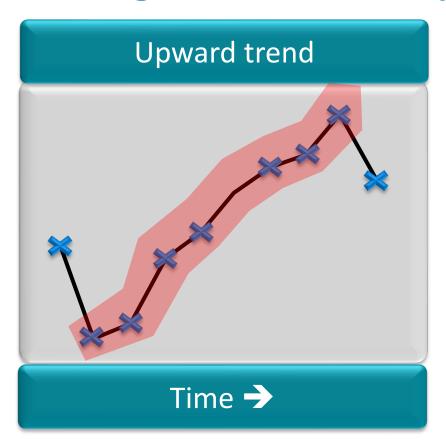
58 NHS Improving Quality

Statistical Process Control (SPC) Charts:

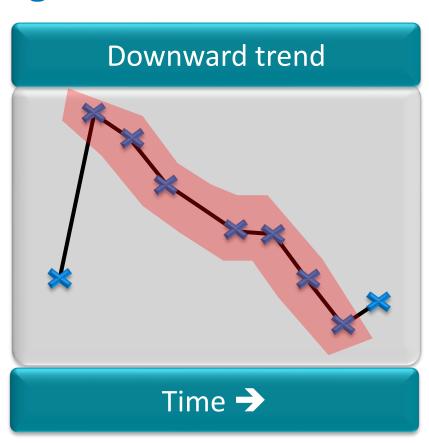




Looking for a statistically significant trend



7 points all in upward direction



7 points all in downward direction



PROCESS MAPPING

