

Kidney Quality Improvement Partnership (KQuIP)

Quality Improvement Measurement: Embedding and Using Data

Ron Cullen

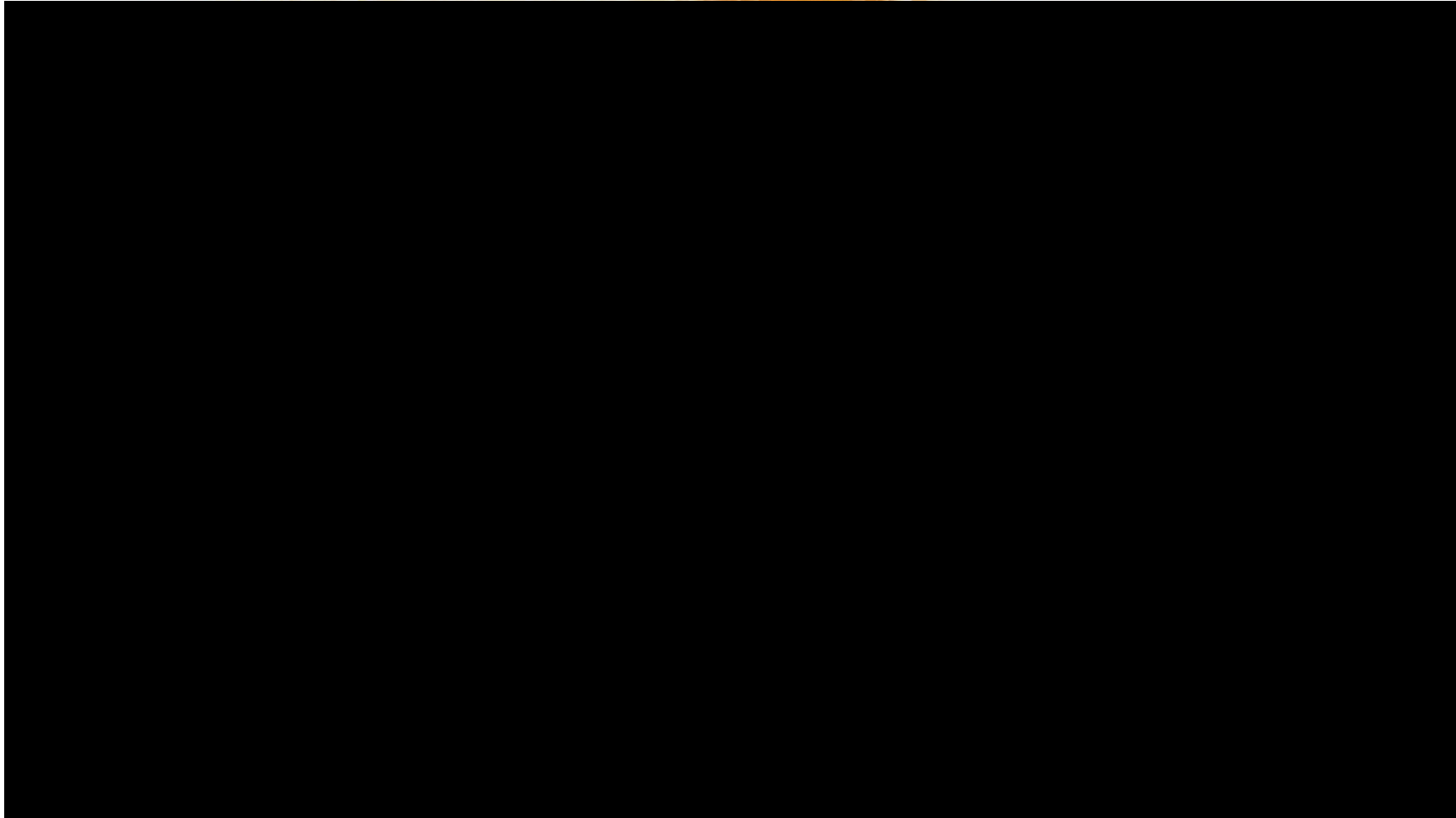
**‘THINK
KIDNEYS’**

KQuIP

Measurement for Improvement

- What is QI measurement
- Structure, process and balancing measures
- Using run charts

Measurement for Improvement



QI v Research Measurement

QI

- Follows practice, not individual patients
- Sample frequently and small – often different patients
- Pragmatic – what can I achieve
- Complements everyday practice
- Iterative – develops in response to need
- Minimalistic

Research

- Follows effect on individual patients
- Powered samples with infrequent measures
- Rigorous
- Eliminates bias from everyday practice
- Dictated and rigid
- Comprehensive

What are QI measures?

Specific

Defined

Focussed

Related to objectives

Consistent

Application, but also sampling

Measurable

Actionable


They will demonstrate change

Iterative

Develop and expand as you identify what you need to know

How do you identify your measures?

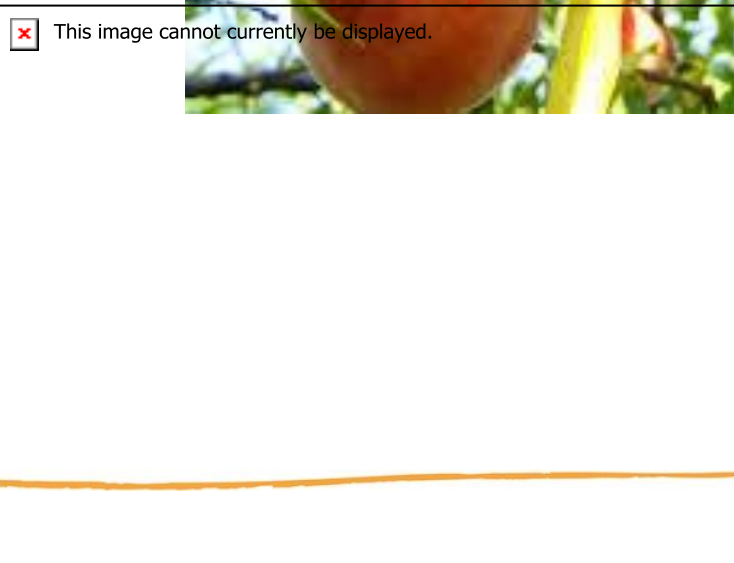
- What are you aiming to change?
- What do you need to know?
- What will tell you what has changed?
- What matters to patients?
- What are you going to put in to a graph?
- Short and long term measures

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Outcome measures

- Focus on clinical outcomes
- Have we made things better for patients?
- The ultimate aim

- Often take time to demonstrate results
- Selection bias
- Historically not patient centred



Identify 2 outcome measures for your project

● Transplant First feedback

● MAGIC - feedback



MAGIC

Managing Access by
Generating Improvements in Cannulation

Process Measures

- What has changed in practice?
- Have you changed your processes?
- Assumes process change will lead to positive results
- Often provide faster results



In your groups identify 2 potential process measures

● Transplant First - feedback

● MAGIC - feedback



MAGIC
Managing Access by
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Balancing Measures

- Identify any unintended consequences
- Generally negative
- Ensure you detect the full consequences of change



In your groups identify potential balancing measures

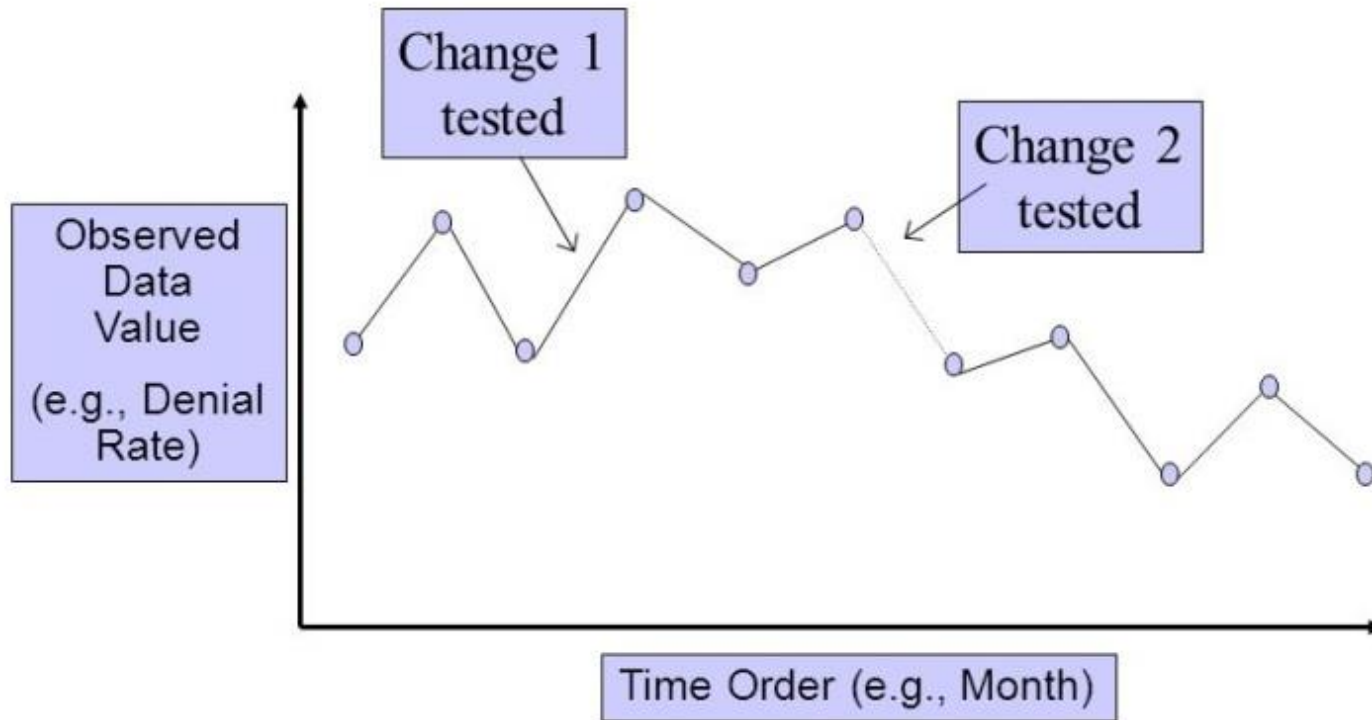
Transplant First - Feedback



MAGIC - Feedback

MAGIC
Managing Access by
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Run Charts



Benefits of Run Charts

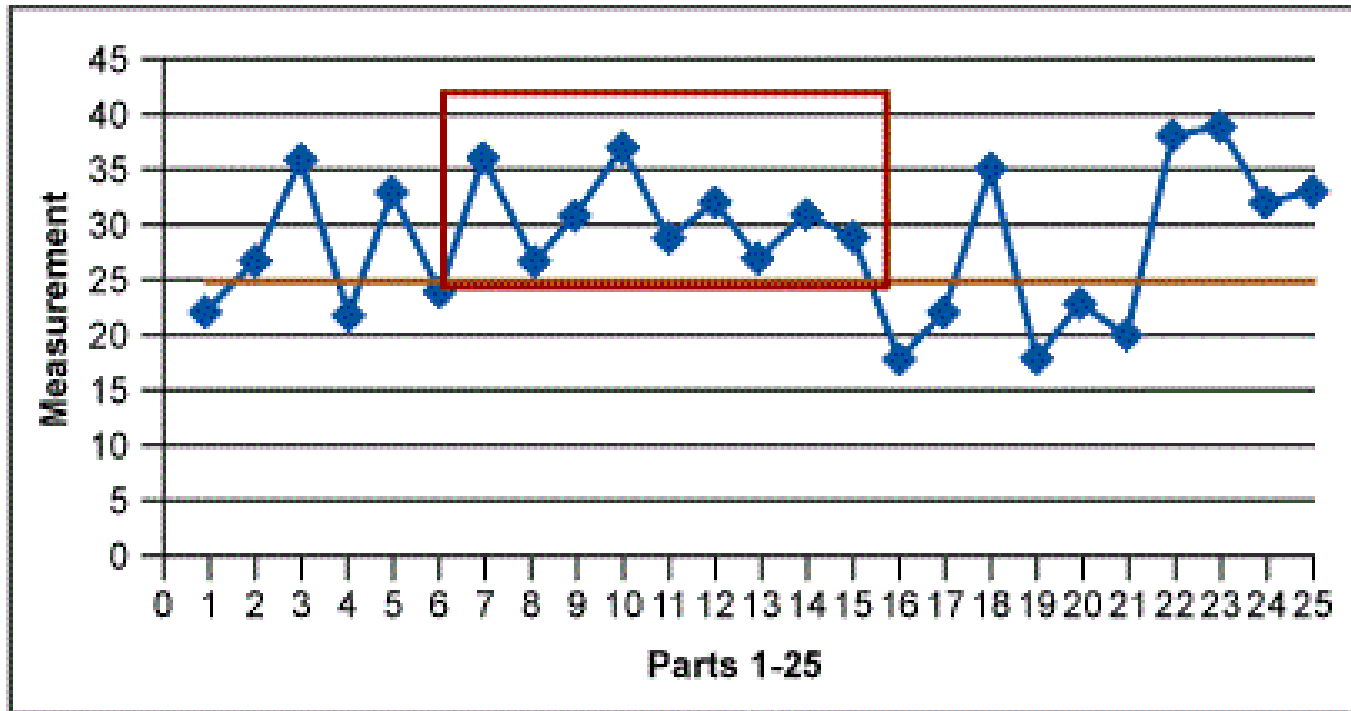
- They help improvement teams formulate aims by depicting how well (or poorly) a process is performing.
- They help in determining when changes are truly improvements by displaying a pattern of data that you can observe as you make changes.
- They give direction as you work on improvement and information about the value of particular changes.

Interpreting run charts

- Four Rules to interpret a Run Chart
- Rule One – Shift
- Rule two - Trend
- Rule Three – Runs
- Rule Four - Astronomical

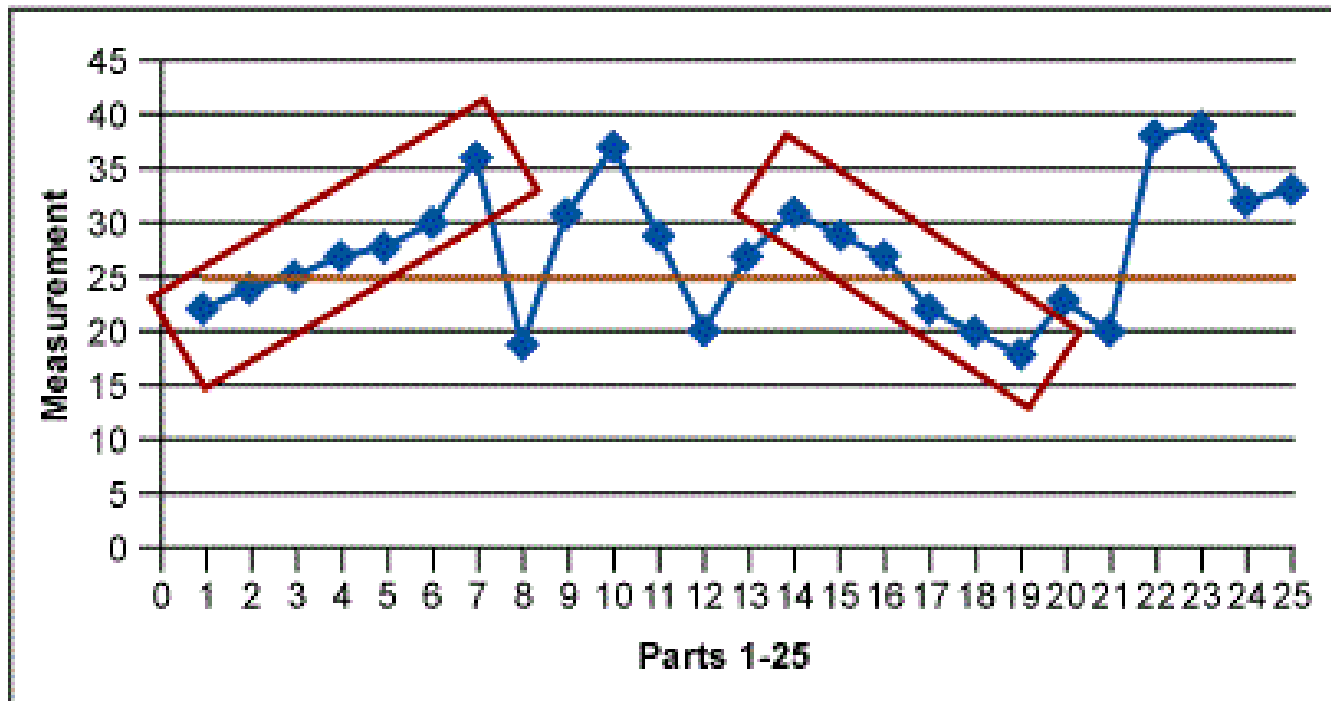
Interpreting run charts – Rule 1 SHIFT

6 or more plots

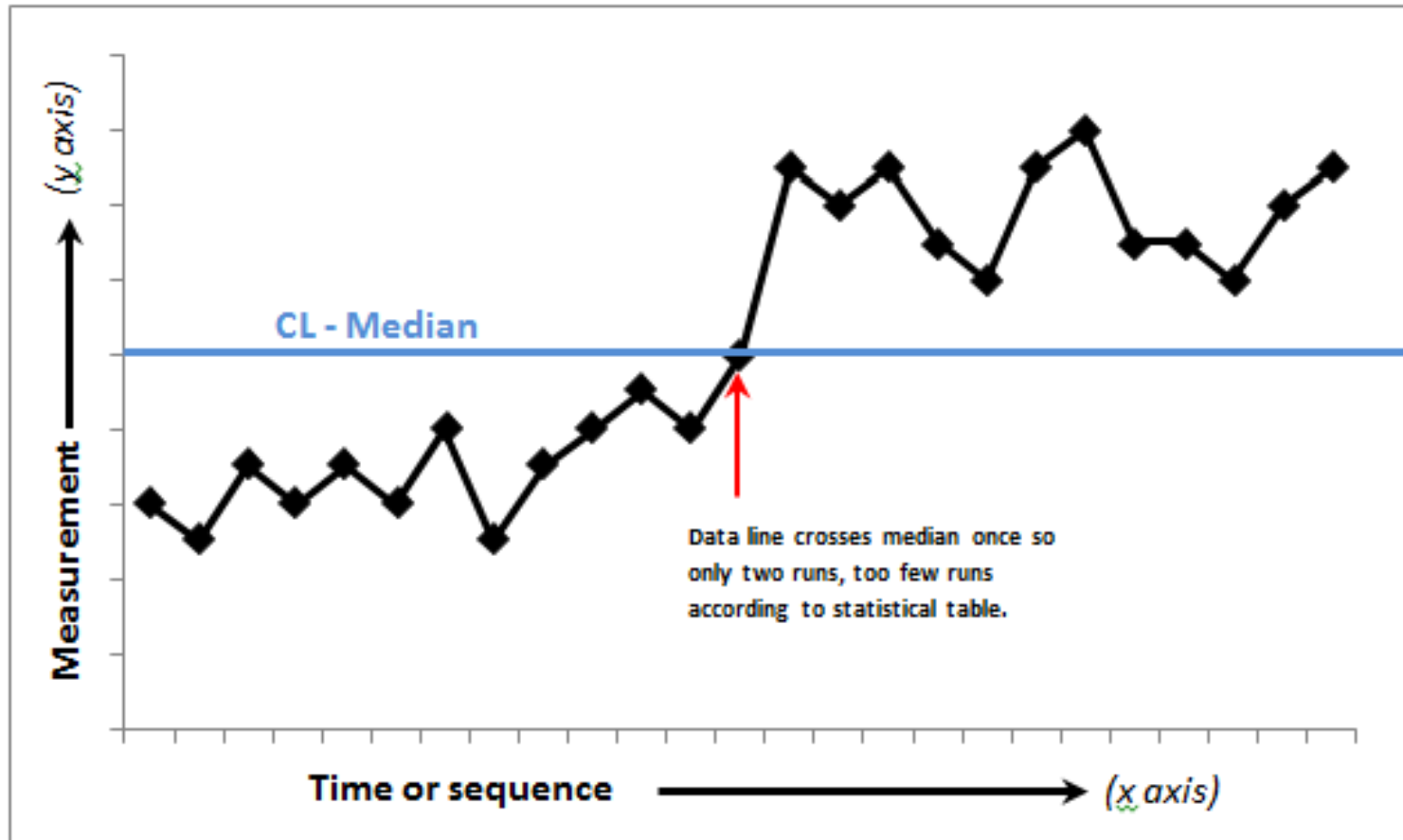


Interpreting run charts – Rule 2 TREND

5 or more points in same direction



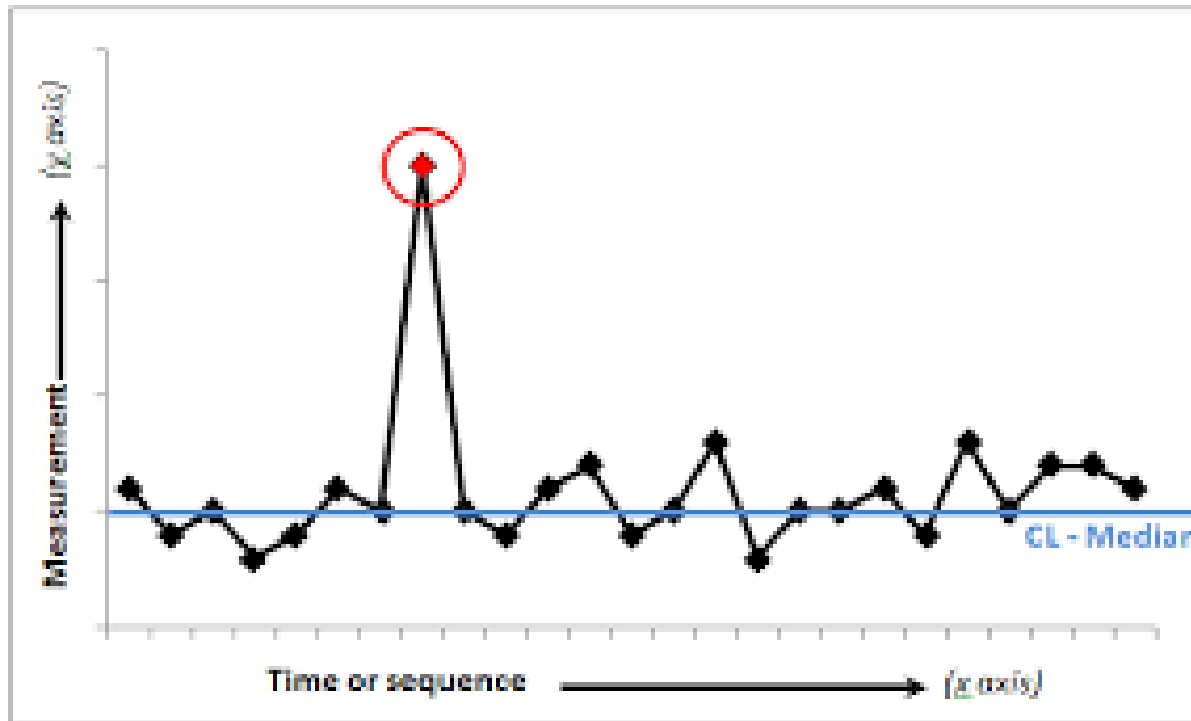
Interpreting run charts – Rule 3 RUNS too many/too few plots





Interpreting run charts – Rule 4

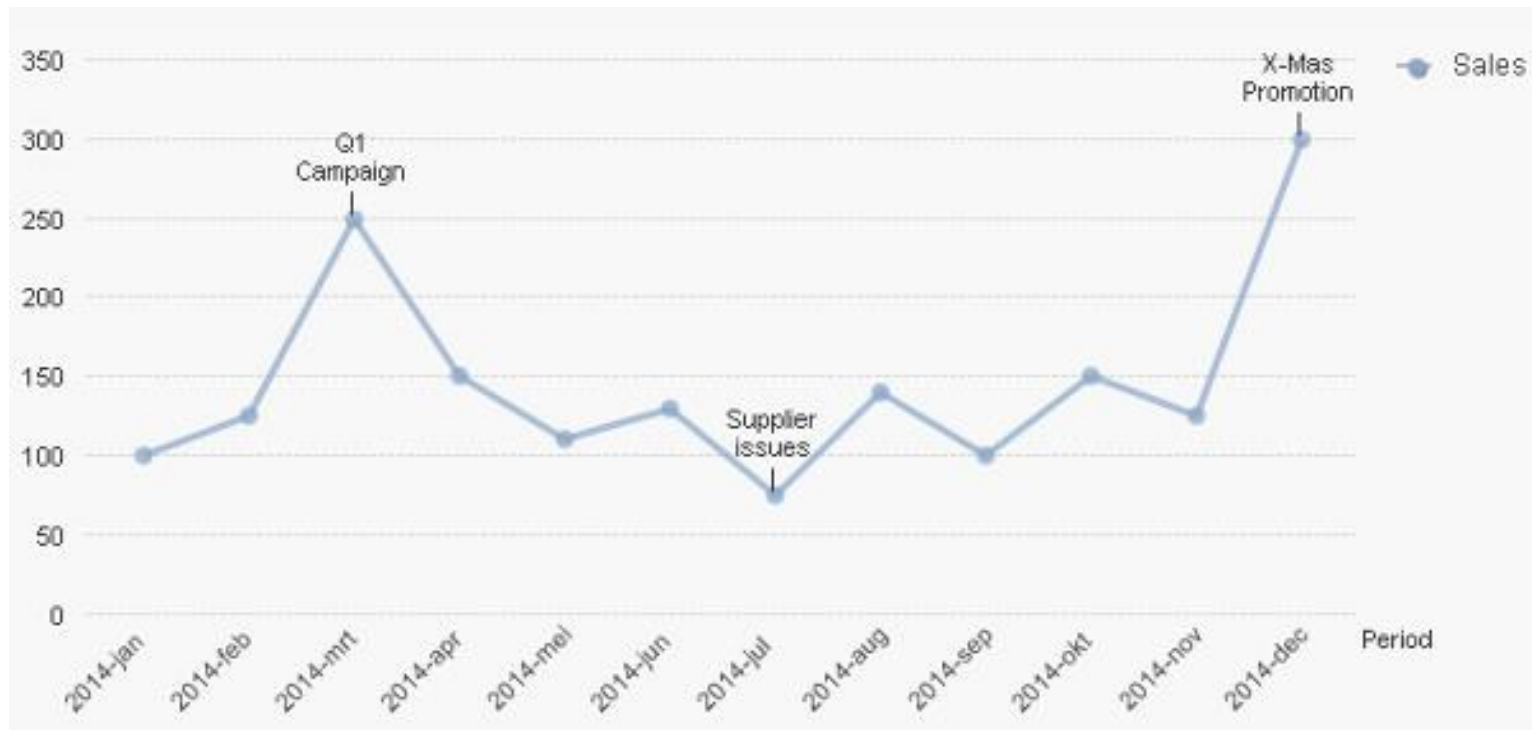
ASTRONIMICAL





Applying Context to your Results

Annotations – data labels





Finally

- Review your measures:
- Is there anything you want to change?
- Is there anything you want to add

- What challenges might you experience in collecting your measures?
- How could you overcome these?

- How are you going to engage your staff in measurement and the results?

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Summary of the Day

Leeanne Lockley

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Summary of the Day



Summary of the day

Did we achieve our aims and objectives?

Did we break our rules?

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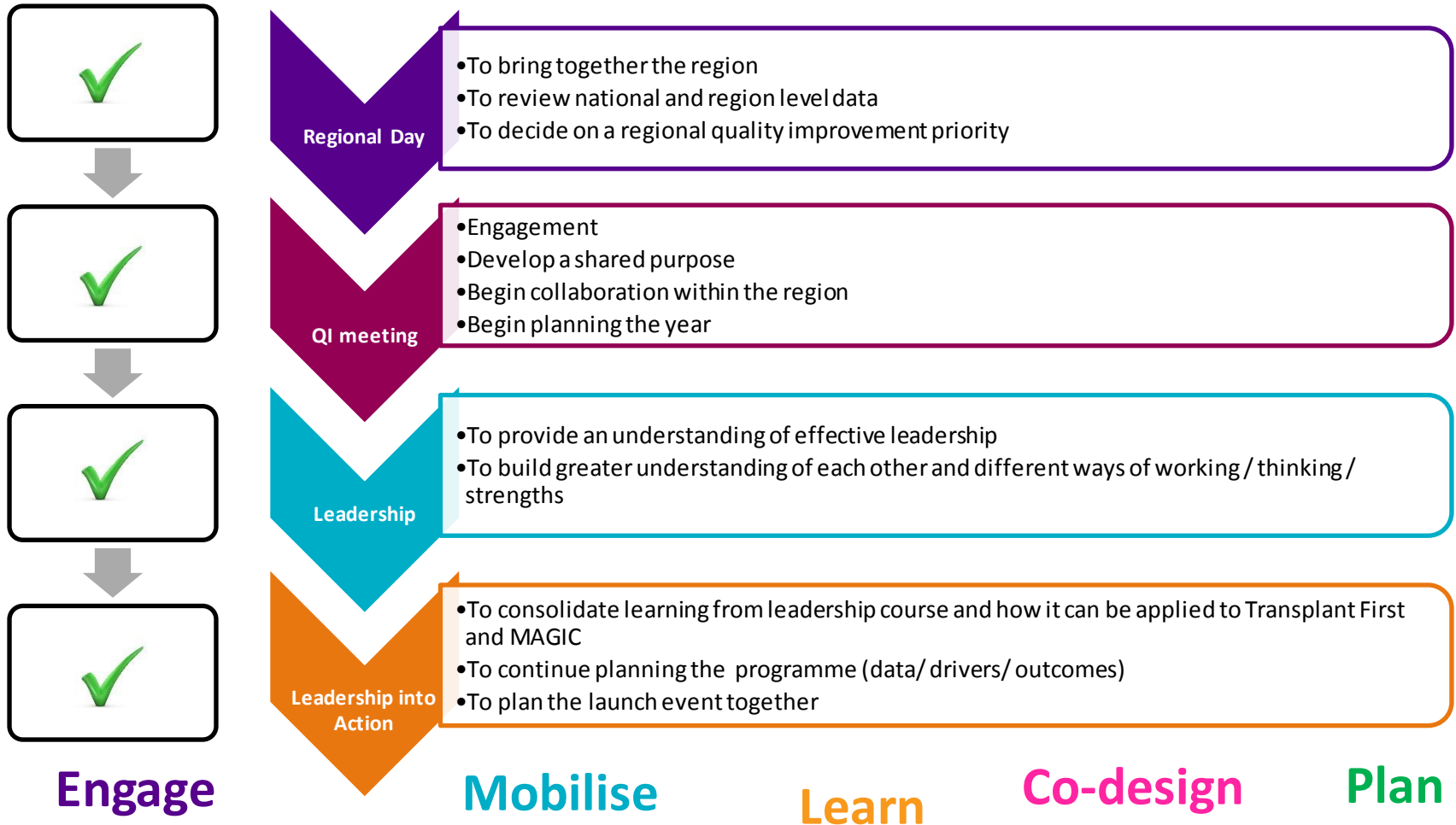
KQuIP Offer

Leeanne Lockley

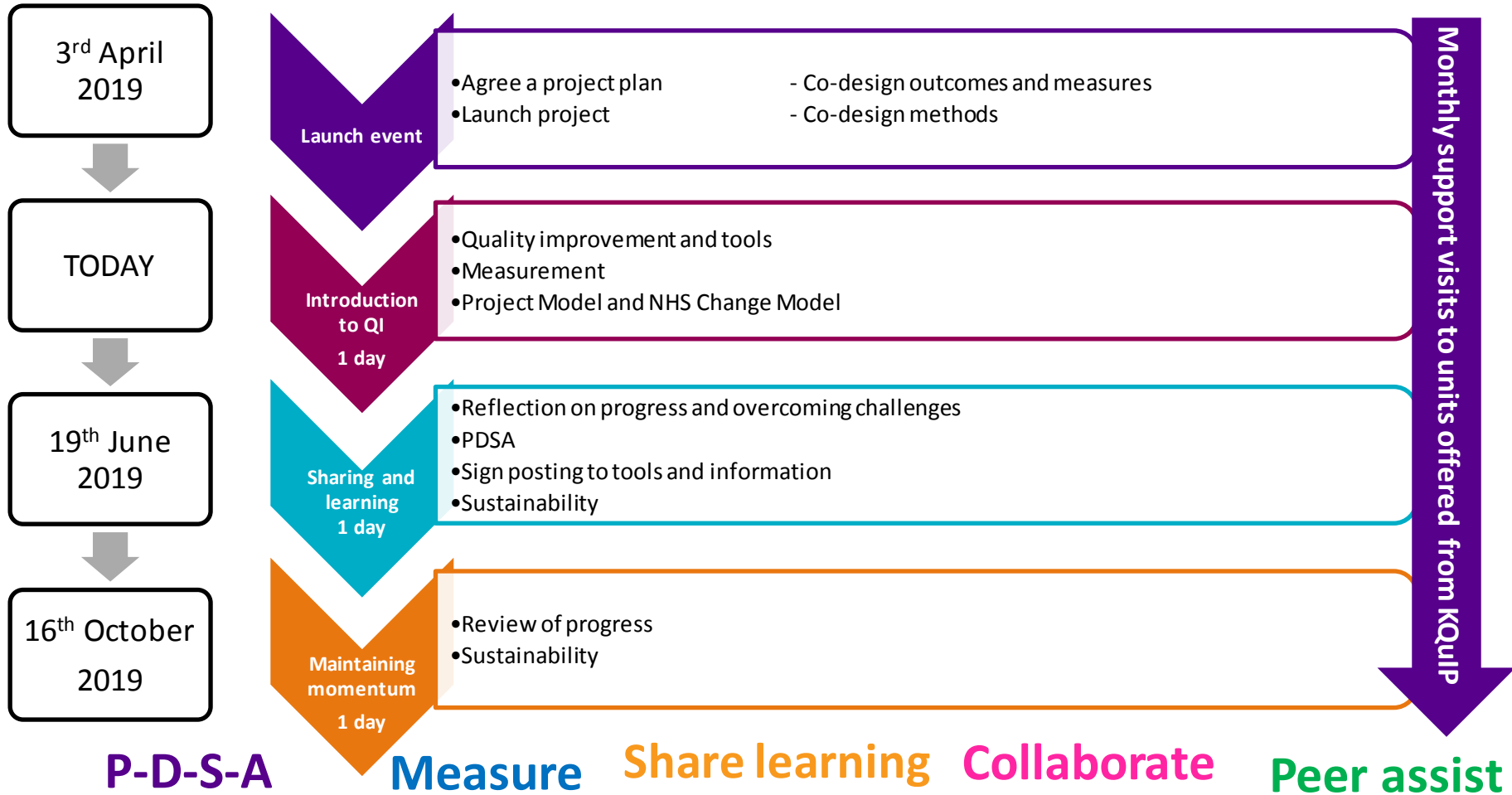
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Preparation phase

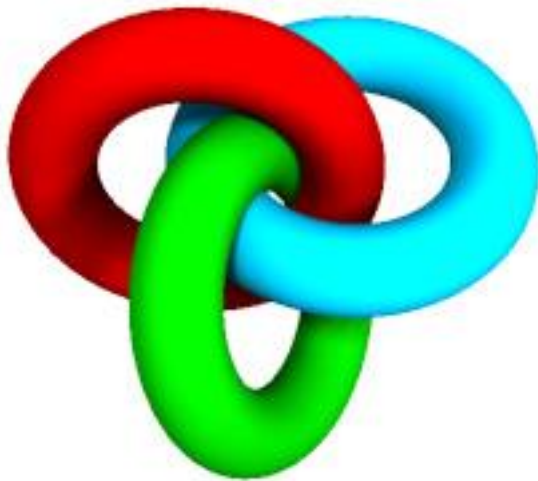


Project phase





My role...



- Support to connect teams – collaboration
- Assimilate and communicate learning between KQUIP training days – action learning sets, webinars
- Website resources and communications
- Support for organising and providing training /meeting venues / sponsorship

KQuIP...

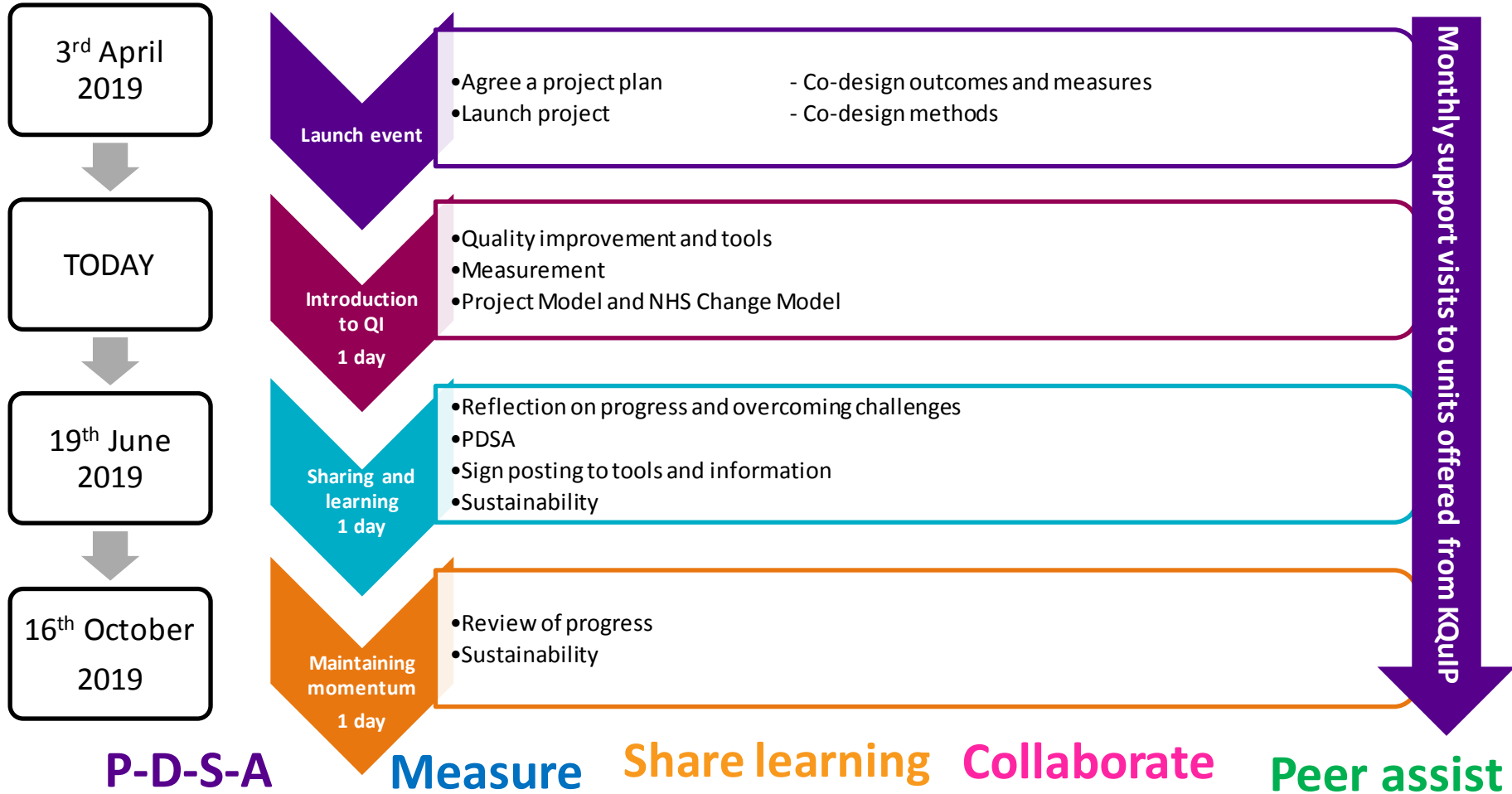
IS...

- Facilitative
- Enabling
- Local ownership - teams are responsible for the decisions, results and actions
- Keeping the energy, momentum, drive
- Tailored support

IS NOT...

- The subject matter expert or owner of the project
- Directive
- Inflexible or rigid

Project phase



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Thank you for coming today

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