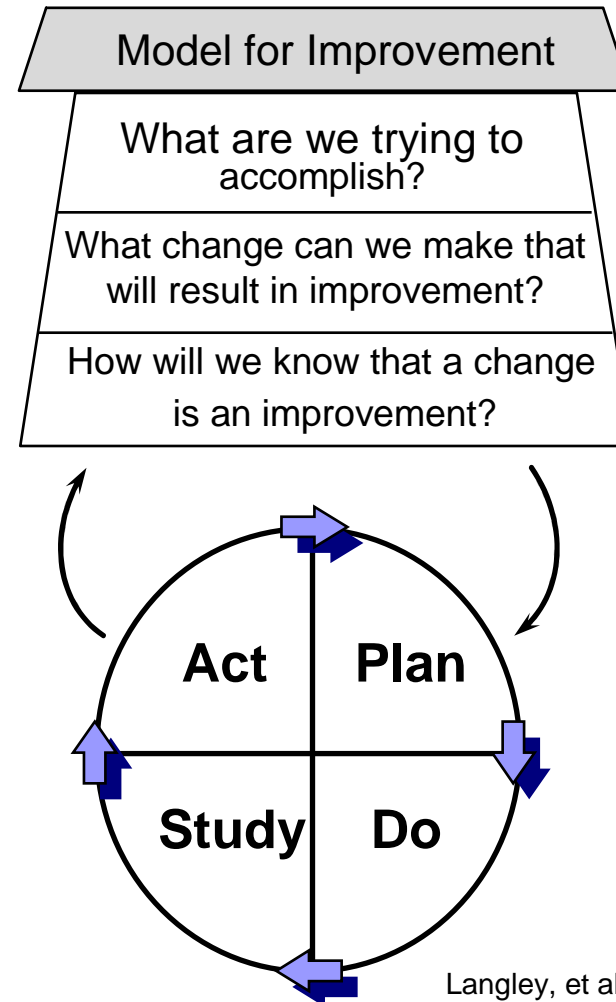
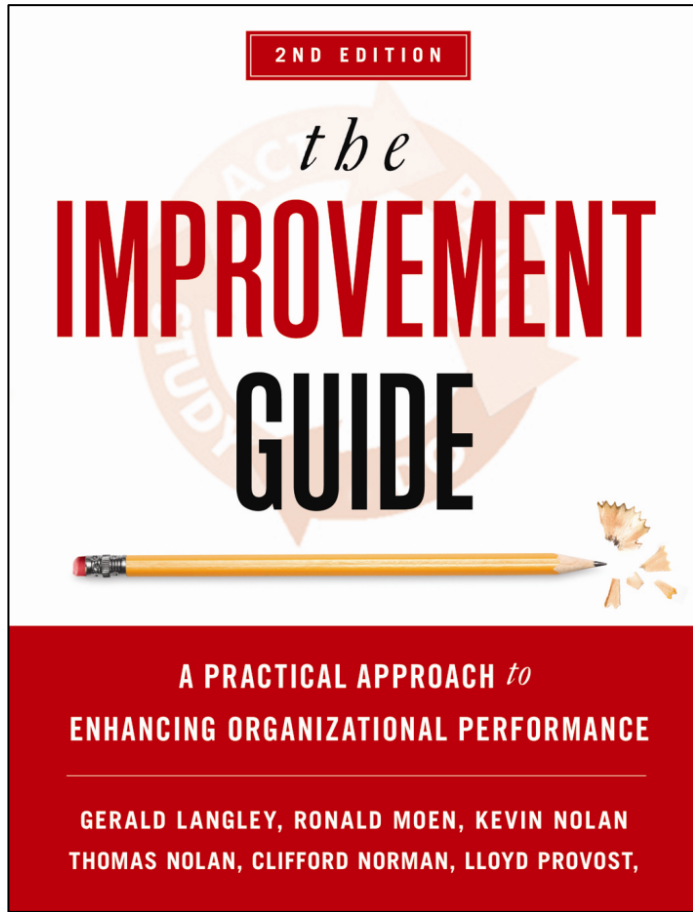


PDSAs

Ian Hutchby



PDSA Learning Cycle

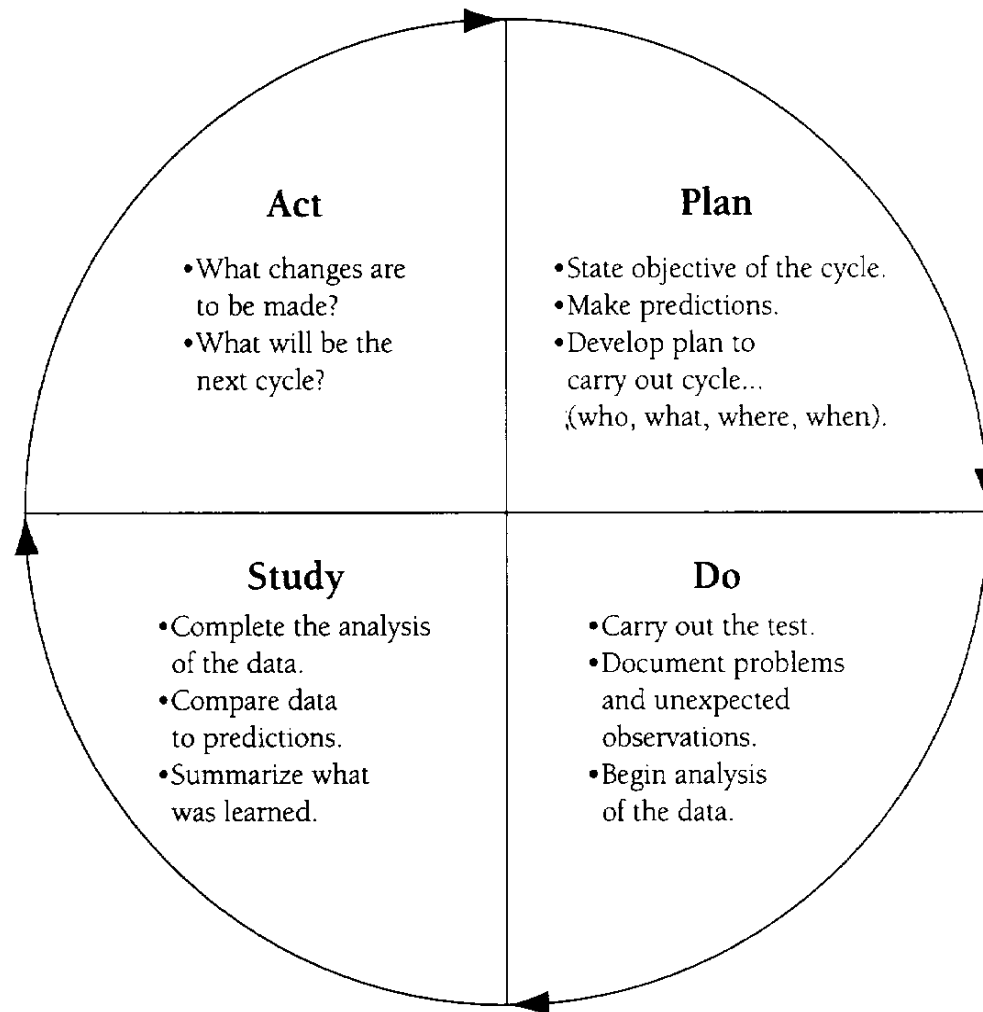


Figure 4.1. Elements of the PDSA Cycle.

Langley et. Al

“A goal without a plan is just a wish”
Antoine de Saint-Exupery

“It’s not the plan that’s important, it’s the planning.”
Dr. Graeme Edwards

PDSA Learning Cycle



Most important part of any PDSA cycle is the Prediction as it represents current knowledge about how a process or system will behave in the future.

Figure 4.1. Elements of the PDSA Cycle.

Langley et. al

© Michael H. Marks



"Whoa! I guess we didn't see this coming!"

PDSA Learning Cycle

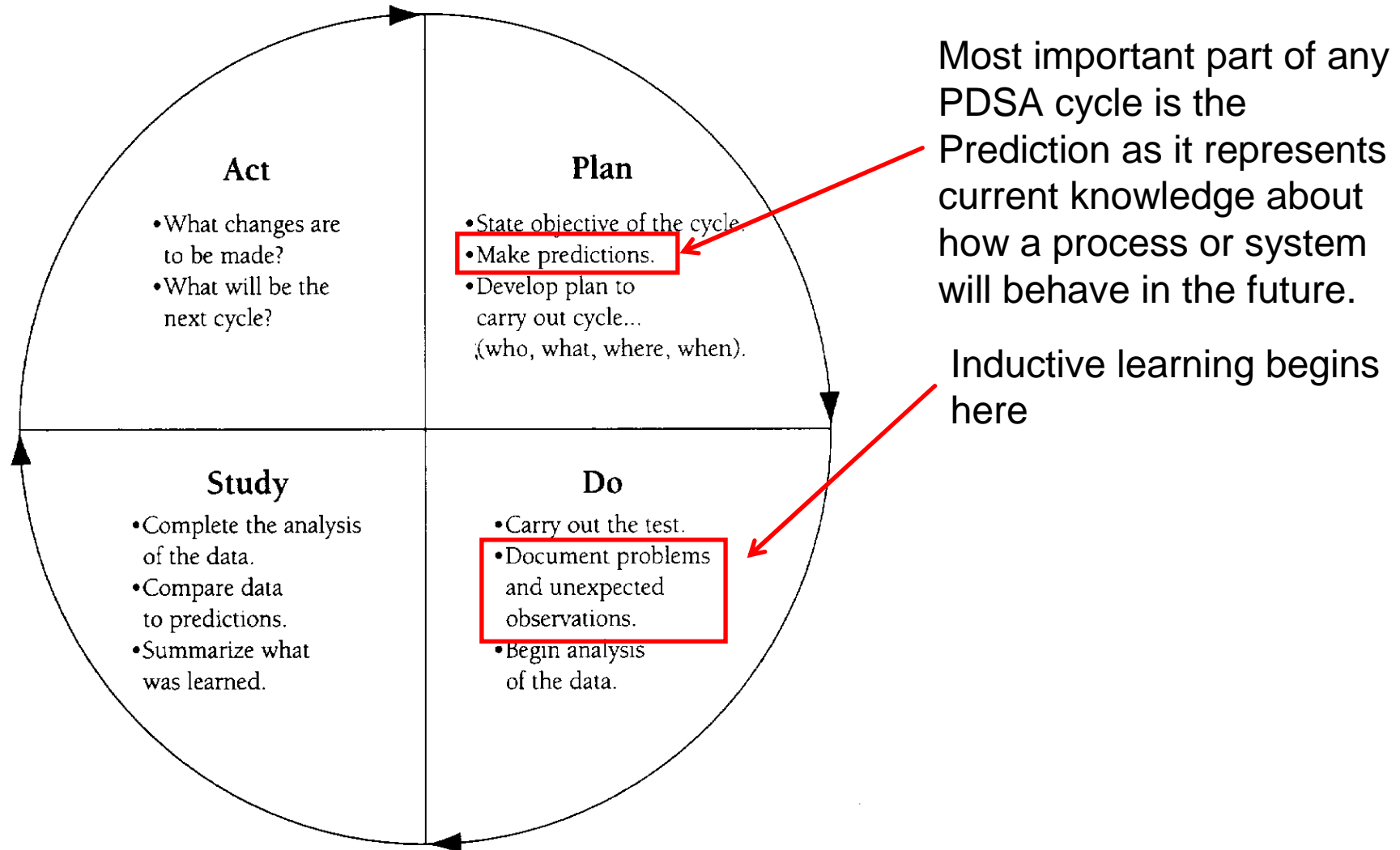
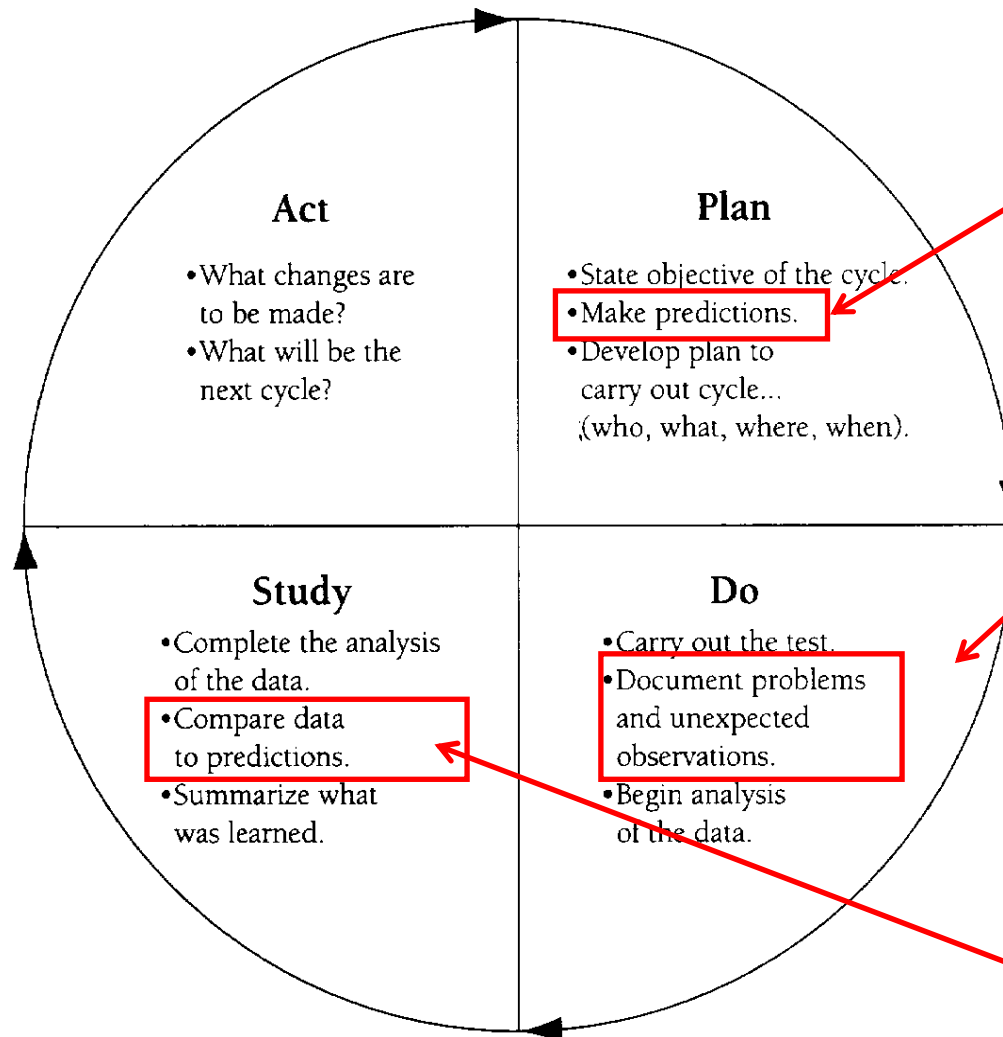


Figure 4.1. Elements of the PDSA Cycle.

Langley et. al

PDSA Learning Cycle



Most important part of any PDSA cycle is the Prediction as it represents current knowledge about how a process or system will behave in the future.

Inductive learning begins here

When predictions are compared with actual outcomes they can reveal gaps in our current understanding of why a process or system behaves the way it does

Figure 4.1. Elements of the PDSA Cycle.

PDSA Learning Cycle

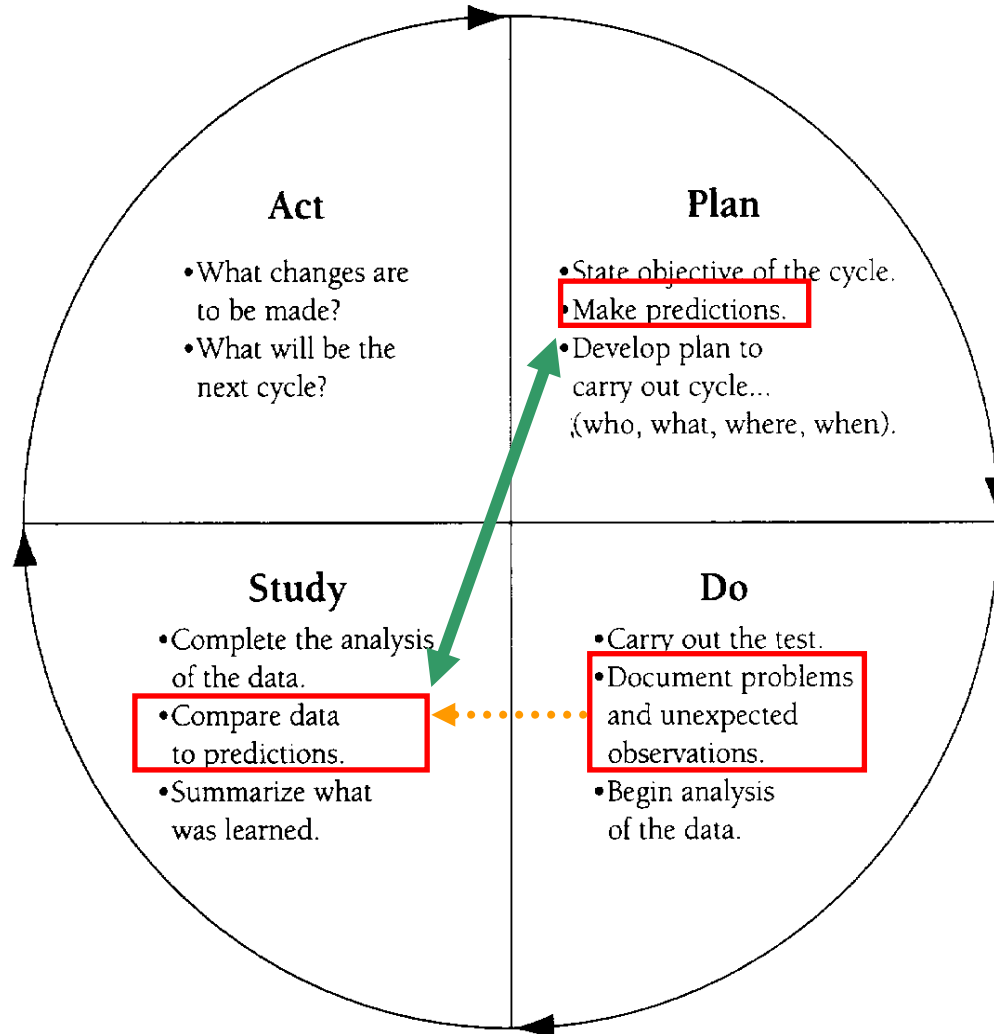
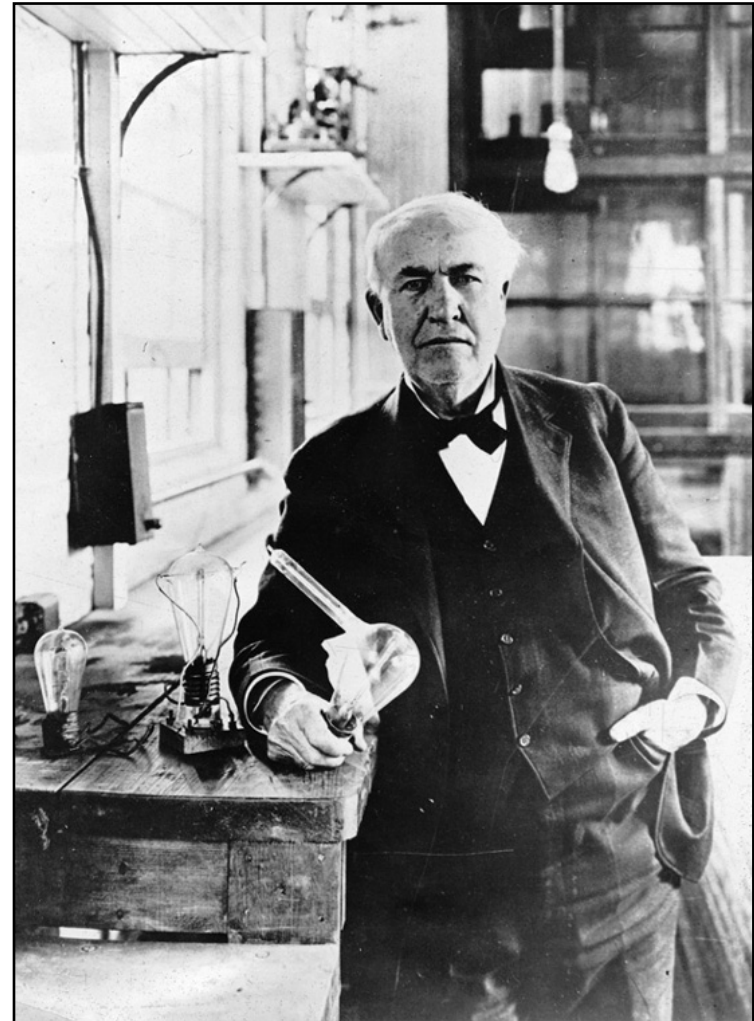


Figure 4.1. Elements of the PDSA Cycle.

Langley et. al

“I did not fail one thousand times; I found one thousand ways how not to make a light bulb.”

Thomas Edison



PDSA Learning Cycle

The comparison allows us to decide whether to Adopt, Adapt or Abandon the change idea tested

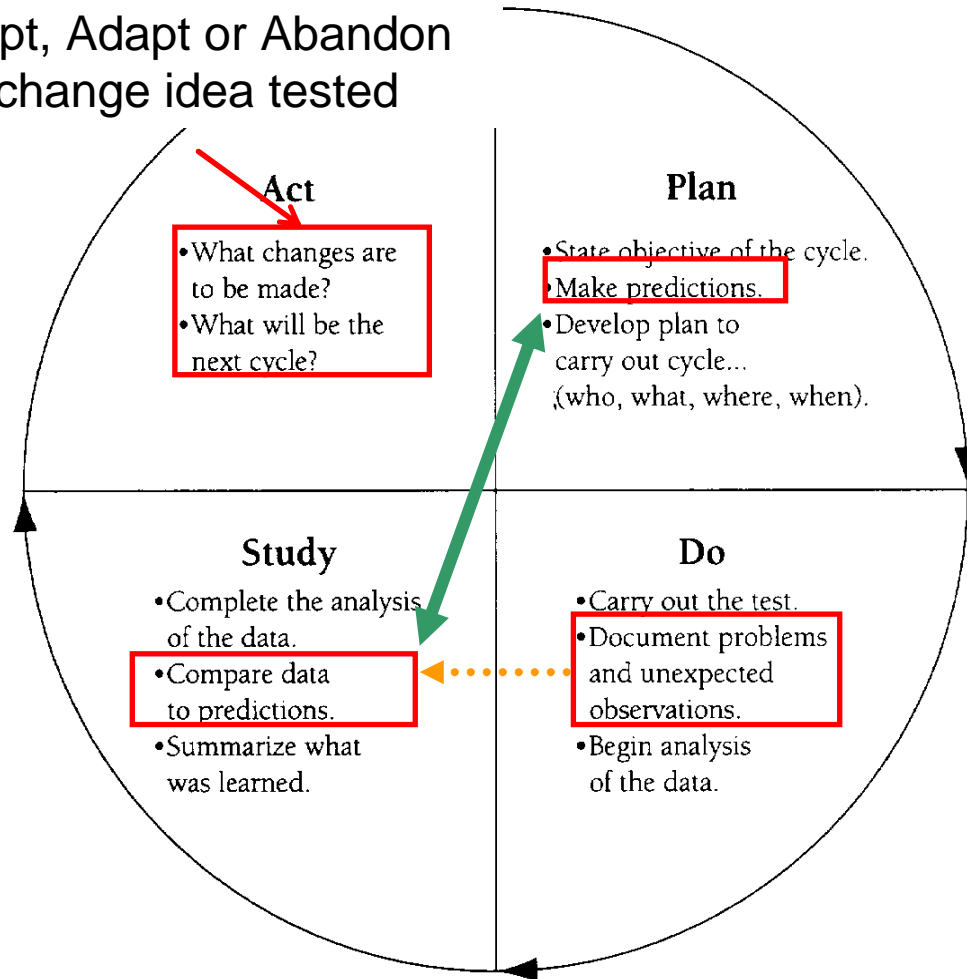


Figure 4.1. Elements of the PDSA Cycle.

Langley et. al

“If the plan doesn’t work, change the plan but never the goal .”

Anon.

“If plan A didn’t work the alphabet has 25 more letters“

Anon.

Break out Exercise



- At your table: How many people are at your table? 6, 7, 8, 9?
- Assign a time keeper/ball drop counter
- Assign a number to each of the other people at your table, starting with the number 1 and continuing until you run out of people

Break out Exercise



- Your current process involves tossing the tennis ball (provided) from person to person, following the sequence provided on the next slide
- Practice your process one time – Time keeper please time how long the team takes to complete the process (in seconds) and the number of times they drop the tennis ball

Exercise Sequence



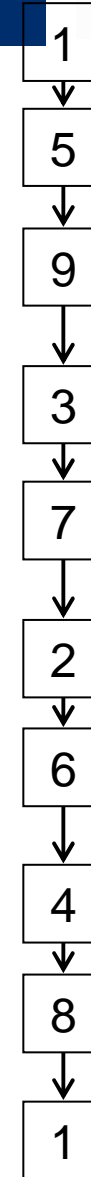
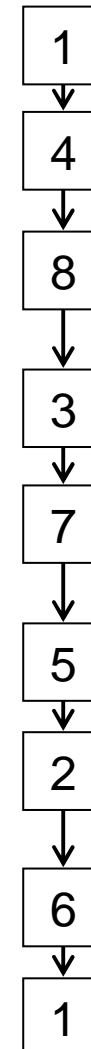
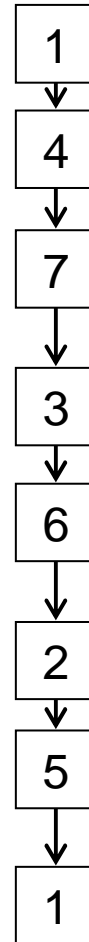
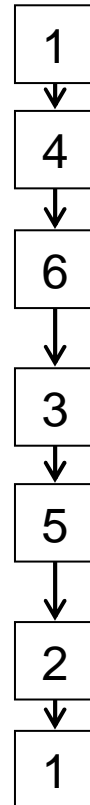
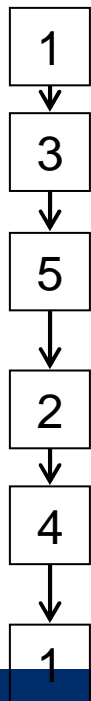
9 people

8 people

7 people

6 people

5 people



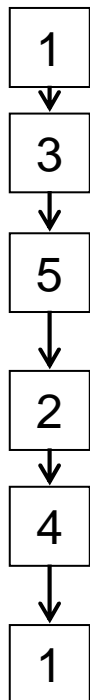
Break out Exercise



- Team Aim: We aim to reduce the time taken for every person to touch the ball from X (our baseline) to Y. We also aim to reduce our ball drops from A (our baseline) to B.
- Form a theory, come up with change ideas, use the MFI to test those ideas
- Rules:
 - The initial sequence as provided must be adhered to
 - You may only test one change idea at a time
 - After each test one person needs to come forward to report data while the team discusses learning, adjusts theory and prepares for the next test of change

Exercise Sequence

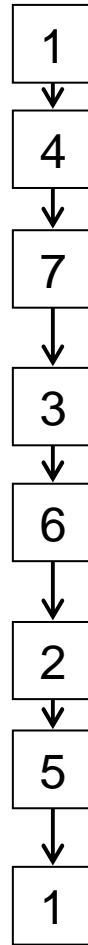
•5 people



•6 people



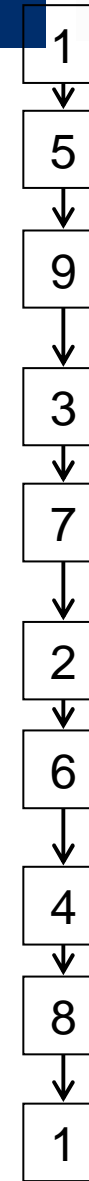
•7 people



•8 people



•9 people



Gold Standard for Improvement



“Satisfactory prediction of the results of tests conducted over a wide range of conditions is the means to increase the degree of belief that the change will result in improvement.”

- Scale down the size and decrease the time required for the initial test.

Appropriate Scope for a PDSA Cycle

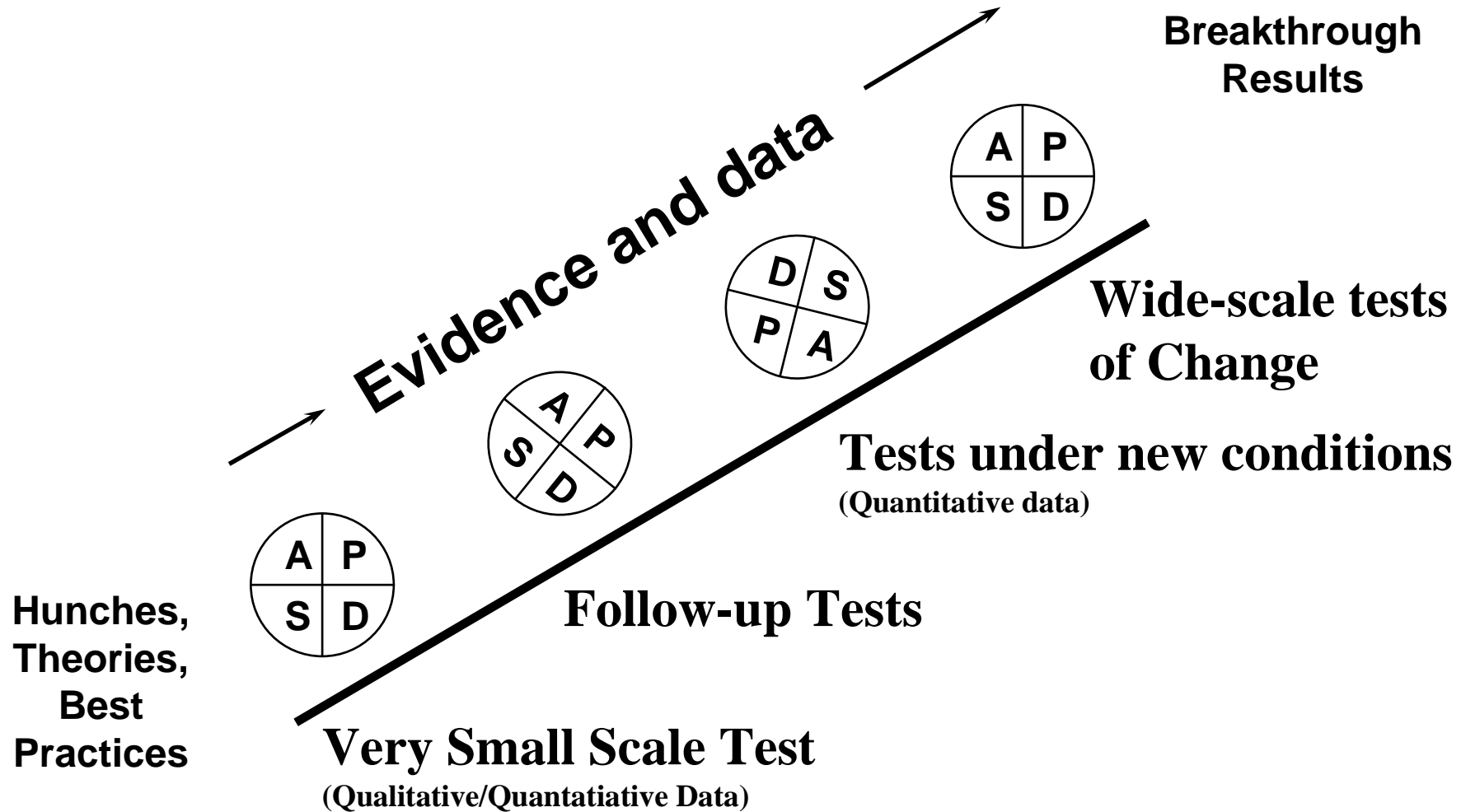


Staff Readiness to Make Change

Current Situation		Resistant	Indifferent	Ready
Low Confidence that change idea will lead to Improvement	Cost of failure large	Very Small Scale Test	Very Small Scale Test	Very Small Scale Test
	Cost of failure small	Very Small Scale Test	Very Small Scale Test	Small Scale Test
High Confidence that change idea will lead to Improvement	Cost of failure large	Very Small Scale Test	Small Scale Test	Large Scale Test
	Cost of failure small	Small Scale Test	Large Scale Test	Implement

- Scale down the size and decrease the time required for the initial test.
- Think a couple of cycles ahead of the initial test (future tests, implementation).

Building Knowledge with PDSA Tests



- Scale down the size and decrease the time required for the initial test.
- Think a couple of cycles ahead of the initial test (future tests, implementation).
- Use temporary supports to facilitate the change during the test.
- Be innovative to make the test feasible.

PDSA Learning Cycle

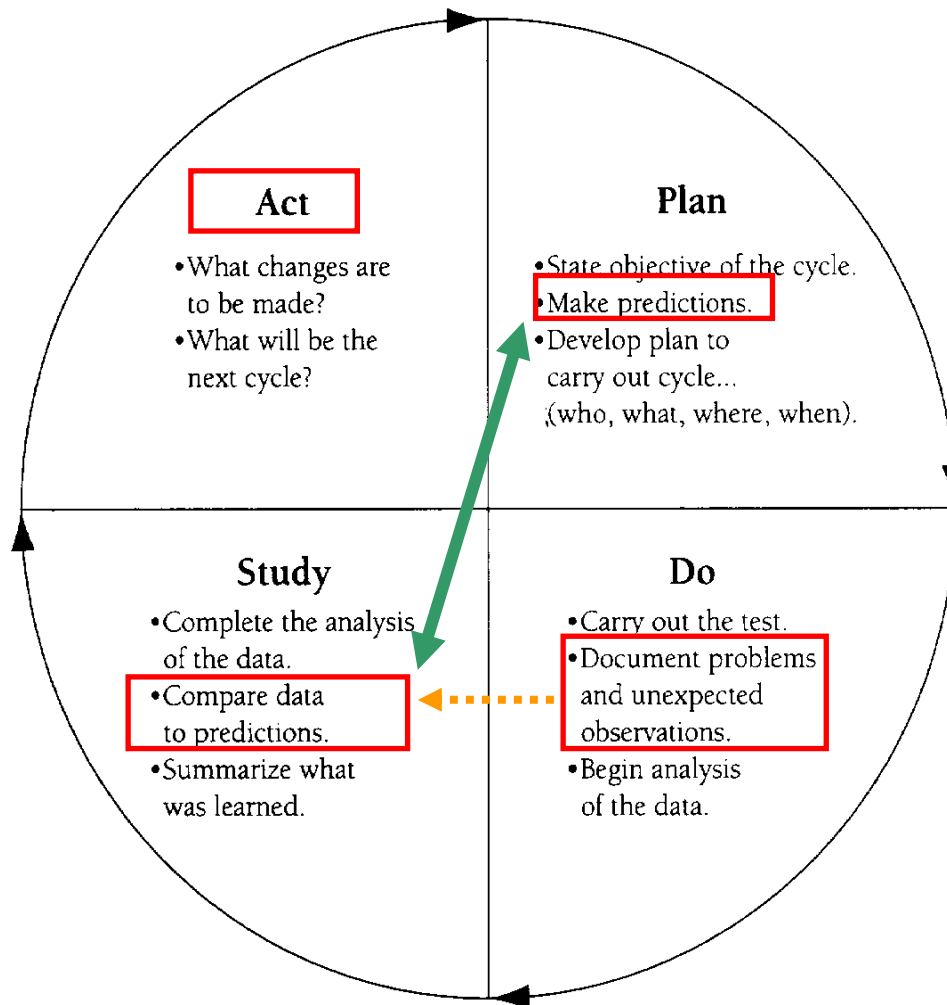


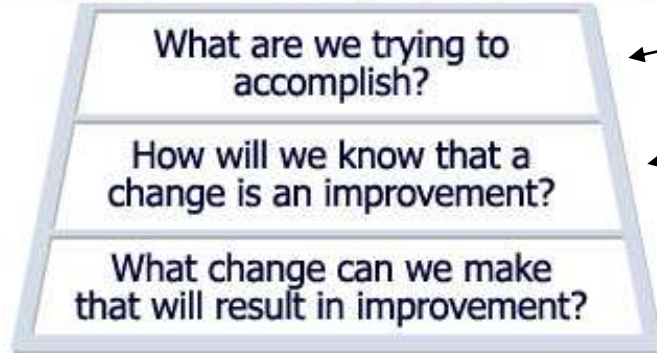
Figure 4.1. Elements of the PDSA Cycle.

Langley et. al

PDSA - Improve Compliance of Patients Attending Monthly Blood Monitoring



Model for Improvement

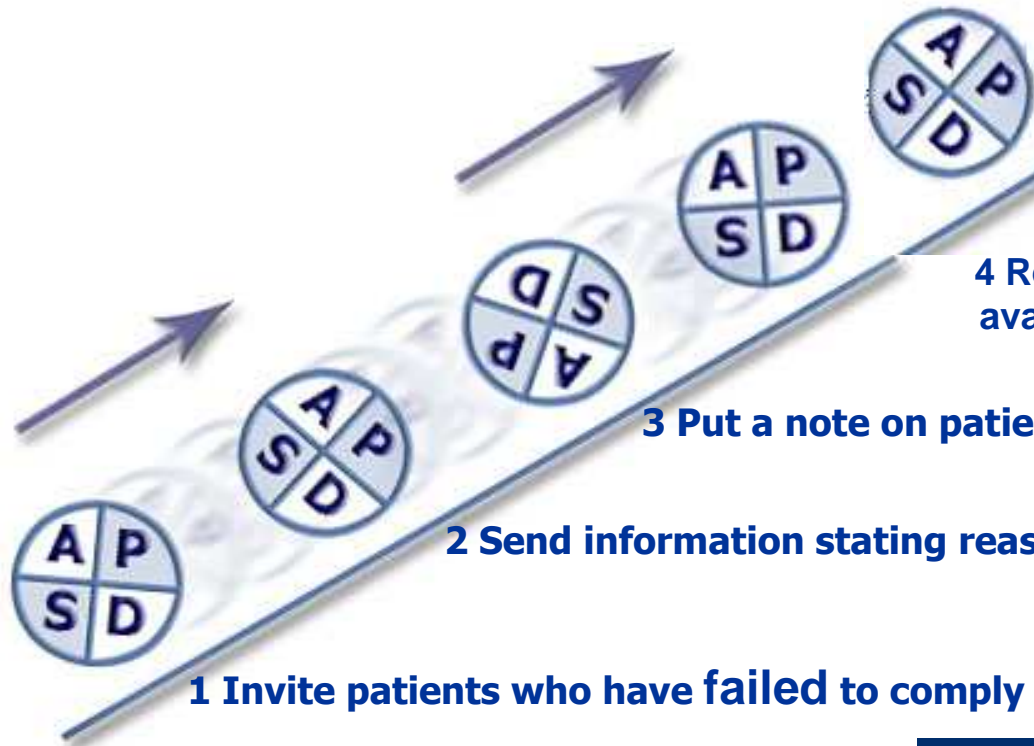


Ensure patients prescribed Methotrexate or Azathioprine attend a monthly review for blood monitoring

Patients complying by attending blood monitoring will increase

Using a variety of engagement methods

Patients engaging



5 Stop repeat prescription until they attend

4 Restrict the amount of repeat prescription available to them to encourage attendance

3 Put a note on patients repeat prescription

2 Send information stating reasons for why it is important to attend

1 Invite patients who have failed to comply by telephone

Warfarin Monitoring

Diagnosis ▼
 Last entry: Transient cerebral ischaemia, 17/04/2003

[Link to SCI Store](#)

Care Management ▼
 Last entry: Warfarin dose changed, 10/03/2004

Initial Assessment

Warfarin Initiation Template

Target international normalised ratio 4.8 02/10/2000

Duration of treatment - If previously entered, there will be a date present.

Duration of treatment - 3 months Duration of treatment - 3 months not found
 Duration of treatment - 6 months Duration of treatment - 6 months not found
 Lifelong treatment Lifelong treatment not found

Follow-up warfarin check

Date to stop warfarin

Warfarin therapy stopped not found

Warfarin therapy stopped

Warfarin Results/Changes

Most recent INR value

Current warfarin dose mg

Change Warfarin dose to mg

Warfarin Dosing Guidance

Warfarin dosing follows current guidance

Repeat warfarin interval follows current guidance

Warfarin Interactions

Annual Review

Annual review Clinical management plan review not found

To be completed by person taking bloods

Is this test within 7 days of the date the doctor said the test should be?

Has patient been taking the advised dose?

(Last advised dose is shown in changes/results below)

Test request : Warfarin Control / INR

Current Warfarin Dose mg

Current Warfarin Dose 4 mg 10/03/2004

(6 monthly check)

Test request : Haemoglobin

Haemoglobin 3 g/dL 05/02/2004

GP initiated: Last Changes/Result

Last INR was 2.7 10/03/2004

Last Warfarin dose change 0 mg 10/03/2004

GP Information

Enhanced Service Specification

Slow Warfarin Induction

Target INR Ranges

SEA for all INR's >8 AC Chart

Follow-up

Date for NEXT warfarin monitoring

Diary entry, Warfarin monitoring -Req. not found

Next INR to be done by:

Healthcare Support Worker Seen by health support worker not

Home visit Home visit not found

Treatment Room/Clinic Seen in community treatment room not

Nursing home Nursing home attendant not found

Warfarin Bundle Data Collector:

OK

Cancel

Previous Data