

An illustration of a diverse group of people in a meeting. The scene is composed of several stylized human figures in various colors (brown, green, blue, orange, black) and shapes, some with glasses or hair accessories. They are arranged in a way that suggests a collaborative environment. The background is a solid light brown color. A white banner with blue text is overlaid on the middle of the illustration.

# Quality Improvement 101

3

## PDSAs

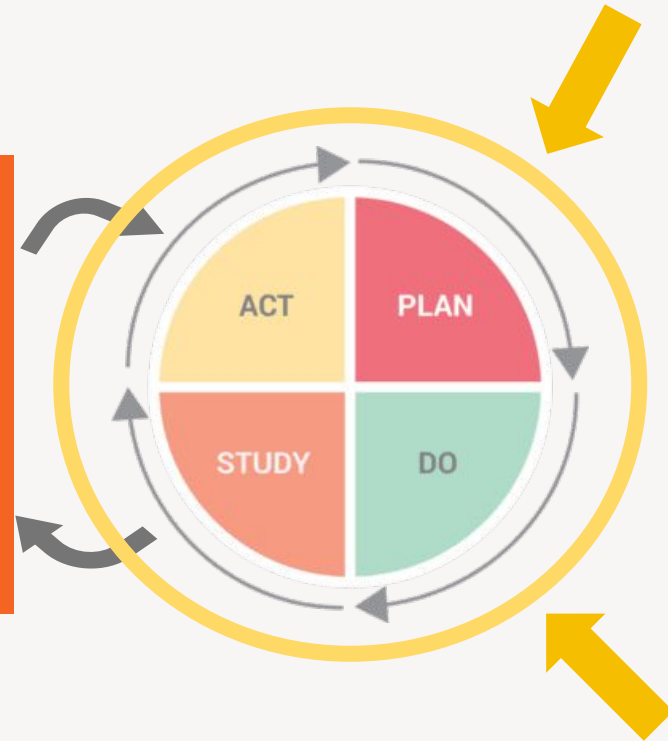


# Model For Improvement: PDSAs

What are we trying to accomplish?

How will we know a change is an improvement?

What change can we make that will result in improvement?



*Developed by the IHI*

# What is a PDSA cycle?

A time-limited test of change to a community's system

- Specific, actionable, and measurable tests of change ideas
- Quickly confirms a team's thinking or leads them to pivot
- Applies to a system, not a one-time event
- Keeps teams from getting stuck



*Developed by the IHI*

# Why do we need to test?

This changes the way we implement change ideas and ensures improvement!



# What do we need to test?

- You need to test **changes**, not tasks.
  - *What is the difference?*

## TASKS



- Planning
- Have a meeting
- Educate staff
- Assign responsibility

*(These may be necessary to set the test up for success, but not a test on their own.)*

## TEST



- Trying a new meeting structure
- Trying new process to gather by-name data
- Trying new process to support participation from people with lived experience

**Change is specific, actionable, and measurable, which allows you to have an explicit prediction of how it will impact the outcome.**

# Where do you start?



Will there be a **high or low impact** to the aim?

*What are the benefits and opportunities?  
What are the risks and barriers?*

Will it be **easy or difficult to implement?**

*What resources will be needed?  
How much time and effort will be required? Is it easily measurable?*

Once picked, establish an improvement team to work on the change idea.  
*Remember: you can run tests simultaneously!*

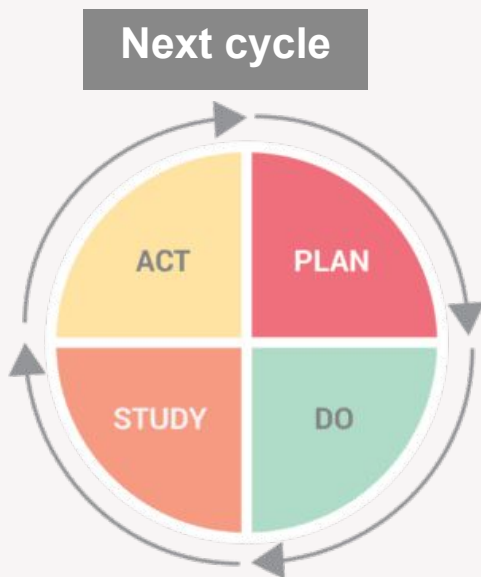
# How do we use a PDSA cycle?

## What's next?

- *ADOPT: implement?*
- *ADAPT: make changes?*
- *ABANDON: try something else?*

## Did it work?

- *Analyze data*
- *Compare predictions*
- *Summarize what happened*



## What will happen if we try something different?

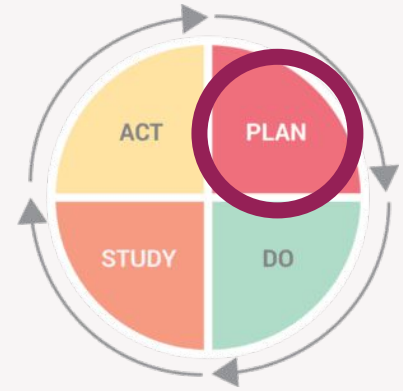
- *Objective*
- *Questions and predictions*
- *Plan to answer: who, what, when, how, where*

## Let's try it!

- *Carry out the plan*
- *Document challenges*
- *Begin data analysis*



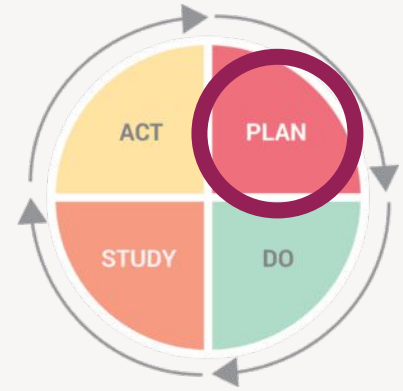
# PLAN



## Set Objectives

- What is the objective of the PDSA?
  - *Test a new idea? Test a change to an existing process/tool/resource?*
- What is your aim and how does it relate to it?
  - *Which driver does this change idea fit under?*
- What questions do you want to answer?

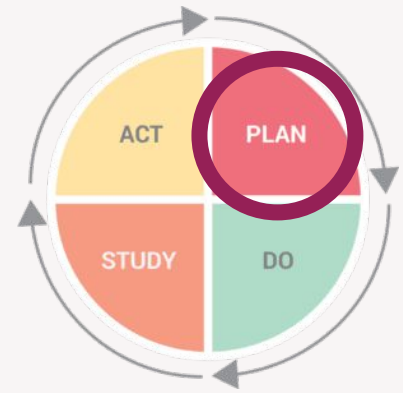
# PLAN



## Establish the Change and Outcome

- What is the change idea?
- What is the predicted outcome of the change idea?
- How do you plan on collecting data?
  - *How will we know that there has been an improvement?  
What will be different?*
- How long will we test this change to see if it worked?

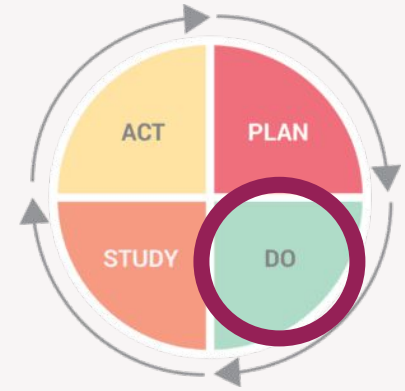
# PLAN



## Establish a good test

- Directed by your data — *what is it telling you?*
- Applies to a repeating system, not a one-time event or activity
- Specific, actionable, measurable, and time-bound
- It can be quickly implemented and can rapidly confirm or disrupt your thinking
- Helps your team get and/or stay unstuck

# DO

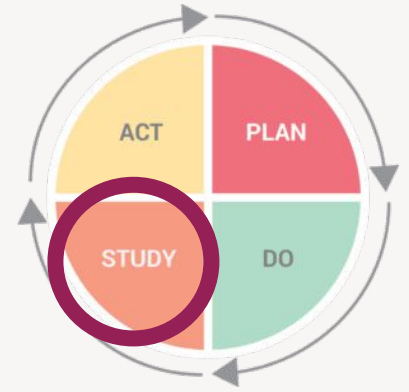


## DO IT!

- Establish a bias towards action
- Carry out the plan
- Document challenges and learnings
- Begin data analysis



# STUDY



**Document** what happened without judgment.

- This is where you measure!
  - *What did we learn? What did our measures tell us?*
  - *Were our assumptions and predictions accurate?*
  - *Did the implementation of the change go exactly as planned?*
  - *Were there any surprises?*
  - *What was the impact towards the aim?*

# ACT

How will you **move forward**?

- **Adopt?**

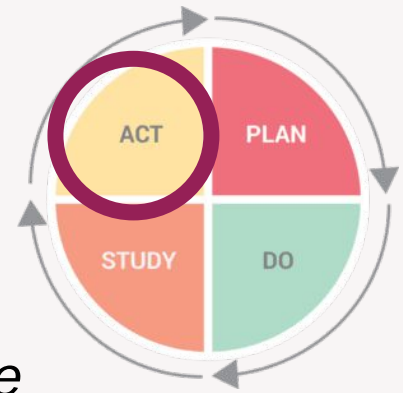
- *Reiterate the original idea on a larger scale until ready to implement?*
- *Test was successful*

- **Adapt?**

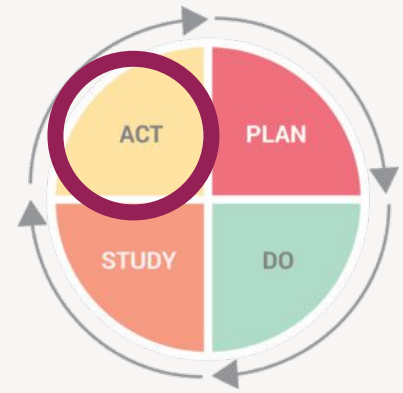
- *Add changes to the idea?*
- *Test was both successful and unsuccessful*

- **Abandon?**

- *Test a new idea based on learnings?*
- *Test was unsuccessful*



# ACT



What if a test ~~failed~~ was unsuccessful?

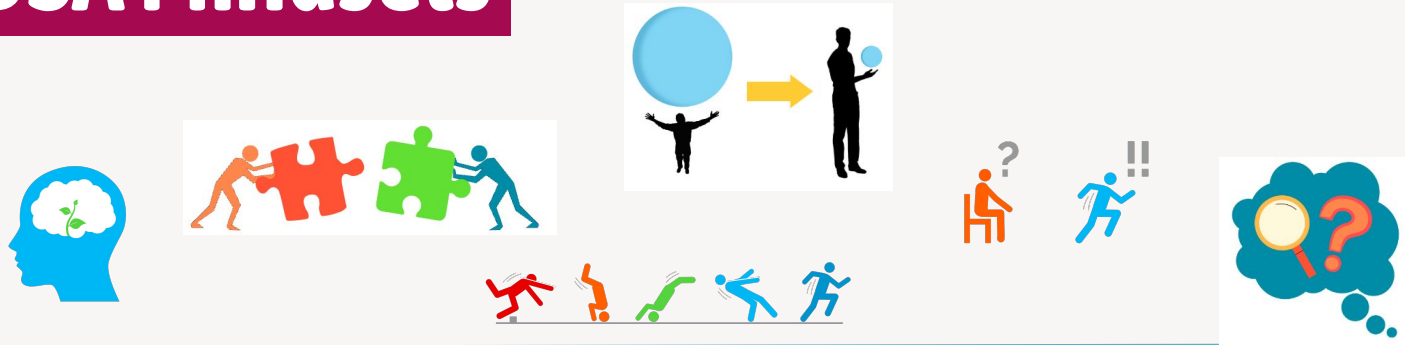
1. Distinguish the reason:

- *Was a change **not executed**; or*
- *Was there a change executed, but it was **not effective**.*
- *The change idea was executed, but it did not have an impact to the secondary driver (of your driver diagram it is related to) or other aims you set.*

2. See it as a prediction being wrong — not as a failure!

**Regardless of success, we've improved our understanding of the system!**


# PDSA Mindsets



- Don't get ahead of your knowledge — *keep testing!*
- Use scarce resources wisely — *if it isn't working, pivot!*
- Mitigate unintended consequences with curiosity — *such as cost, side effects, and balancing measures.*
- Reduce resistance to change — *start off small.*



# PDSA key points

- The test of change cannot be too small.
- One PDSA will lead to another (“ramping”).
- It helps you look at your system thoroughly.
- You learn from your work (and mistakes).
  - Fail forward! 
- It can produce rapid results.

