

# Quality & Patient Safety Fellowship

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## MASTERING THE MODEL FOR IMPROVEMENT

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### Objectives

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BUILD FOUNDATIONAL KNOWLEDGE OF QUALITY & SAFETY



DEVELOP LEADERSHIP AND PROJECT SKILLS



APPLY LEARNING TO A QI PROJECT

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VIRTUAL WORKSHOPS      ACTION ITEMS      COACHING & SUPPORT      PEER SHARING

## What to Expect

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## Hospital Introductions

### Participating Hospitals

- Benefis Missouri River Medical Center
- Fallon Medical Complex
- Frances Mahon Deaconess Hospital
- Glendive Medical Center
- Granite County Medical Center
- Holy Rosary Hospital
- Sidney Health Center
- Sheridan Memorial Hospital Association
- St. Luke Community Healthcare
- Logan Health Shelby
- Community Hospital of Anaconda

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## Polling Question

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**What is your comfort level with hospital quality improvement projects and teams?**

**Very comfortable:** I have participated in and even led several hospital improvement projects.

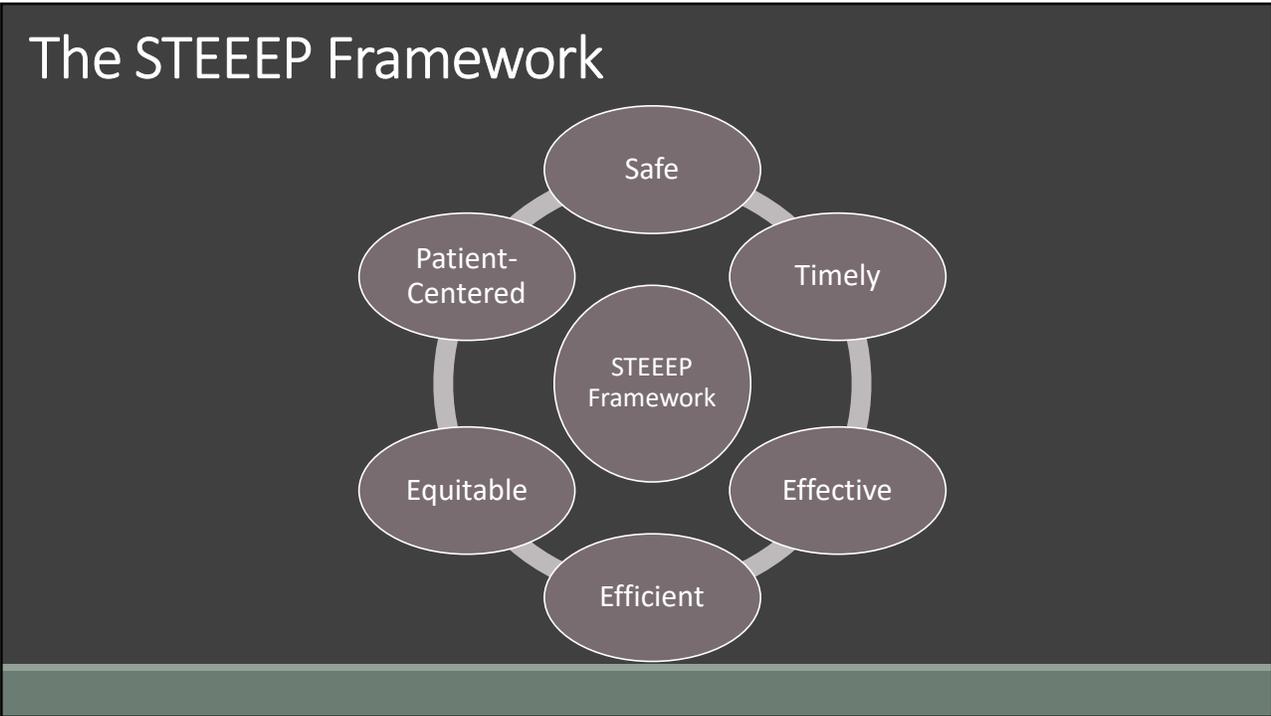
**Somewhat comfortable:** I have participated in (and maybe even led) one or two hospital improvement projects, but the experience didn't make me feel very confident in my abilities

**Not comfortable at all:** I'm new in my role, or have never participated in hospital improvement projects, or am really looking to build my confidence and expertise through this program.

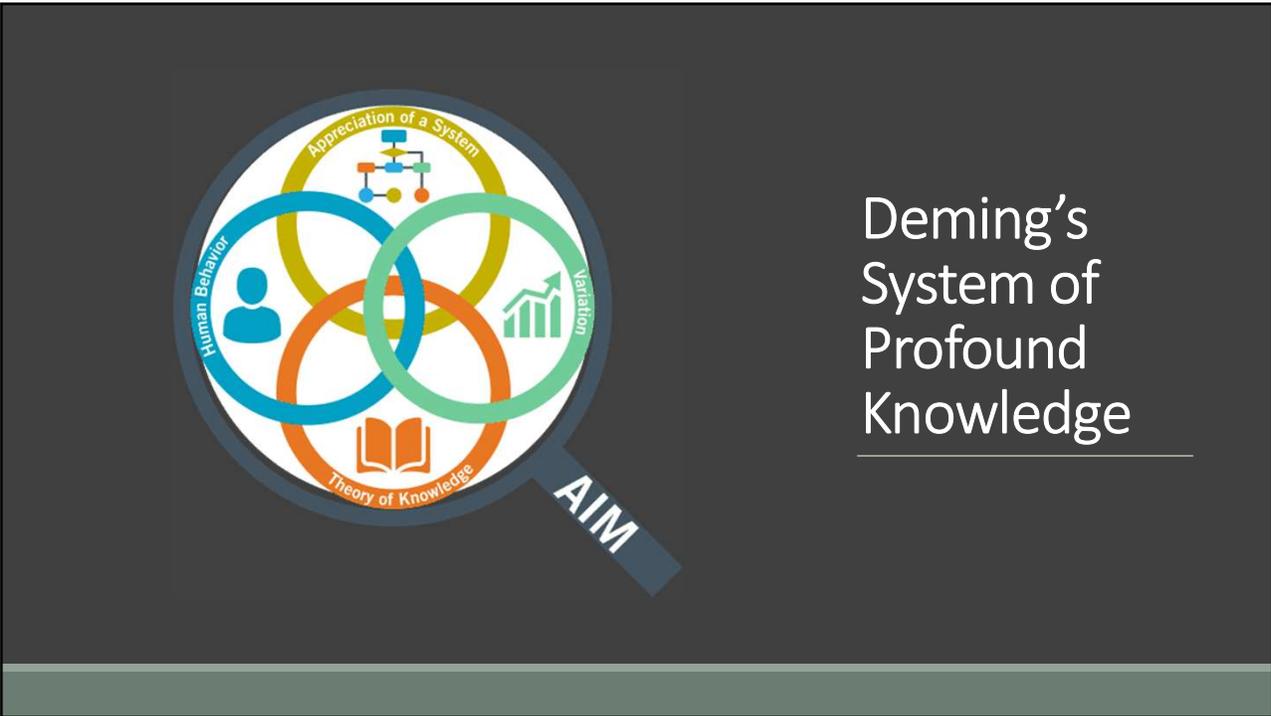
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## Foundations of Quality Improvement

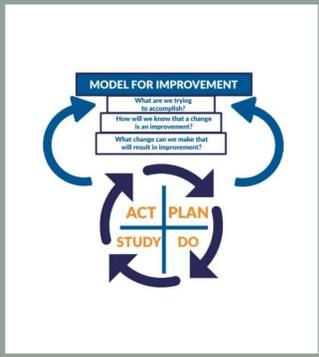
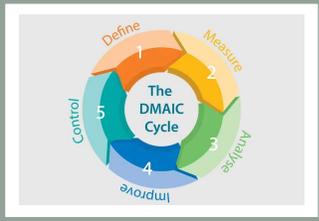
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Source - <https://theleanway.net/>

## Quality Improvement Models

Aims  
Measures  
Ideas for change  
Cumulative testing

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## How Do We Make a Change?



DECIDE TO MAKE A CHANGE



IDENTIFY WHAT NEEDS TO CHANGE



MAKE A CHANGE



DECIDE IF THE CHANGE RESULTED IN IMPROVEMENT



BE ASSURED THE CHANGE CAN BE RELIABLY SUSTAINED

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# Data for Improvement

"In God we trust; all others must bring data."  
-W. Edwards Deming



DATA

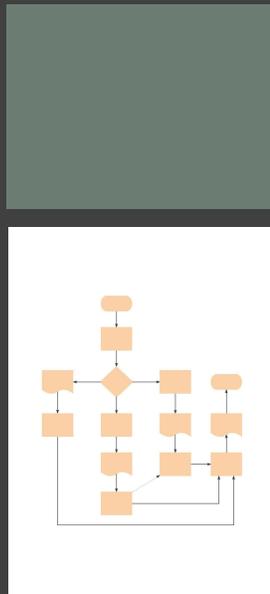
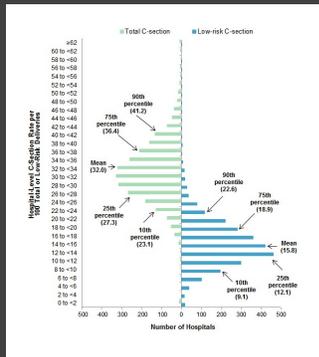


KNOWLEDGE



ACTION

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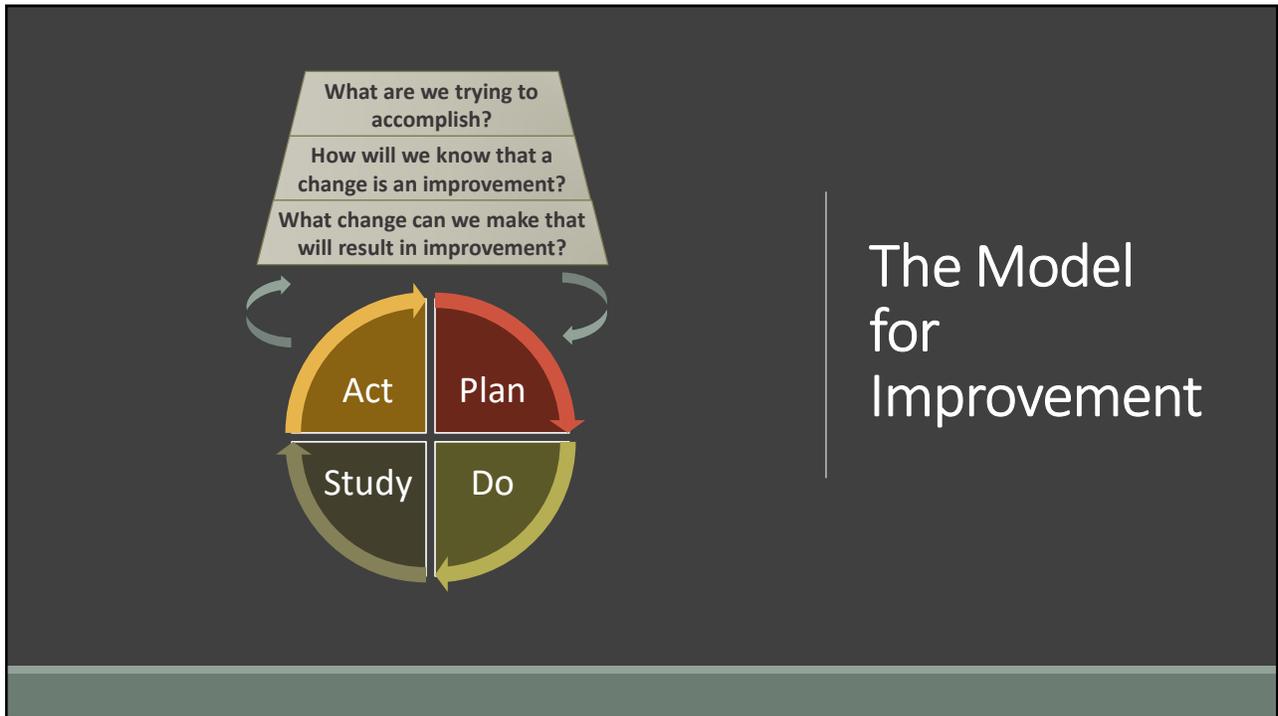
## Identifying What Needs to Change

- Talk to the experts – Go to the Gemba
- Benchmark performance
- Prioritization
- Flowcharting current processes

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# The Model for Improvement

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# Smart Goals & Aim Statements

Specific	Measurable	Actionable	Relevant	Time-Bound
<ul style="list-style-type: none"> <li>Reduce the average patient wait time in the emergency department to under 30 minutes.</li> </ul>	<ul style="list-style-type: none"> <li>Track the average patient wait time using a data collection system and monitor the trend over time.</li> </ul>	<ul style="list-style-type: none"> <li>Implement a new patient registration process with dedicated staff.</li> </ul>	<ul style="list-style-type: none"> <li>Reducing wait times improves patient satisfaction and operational efficiency.</li> </ul>	<ul style="list-style-type: none"> <li>Achieve this goal by November 1st.</li> </ul>

*Reduce the average patient wait time in the emergency department to under 30 minutes by November 1st. This will be achieved by implementing a new patient registration process with dedicated staff. The process will be measured by tracking the average patient wait time using a data collection system and monitoring the trend over time.*

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UNDERSTAND VARIATIONS



MONITOR THE PROCESS OVER TIME



SEE THE EFFECT OF CHANGES



PROVIDE A COMMON REFERENCE POINT



PROVIDE AN ACCURATE BASIS FOR PREDICTION

## Why We Collect Data

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# Types of Measures



## Outcome | *What result do we want?*

- Lower is better
- Examples: mortality rate, infection rate



## Process | *Are we doing the right steps?*

- Higher is better
- Examples: hand hygiene compliance, surgical time-outs



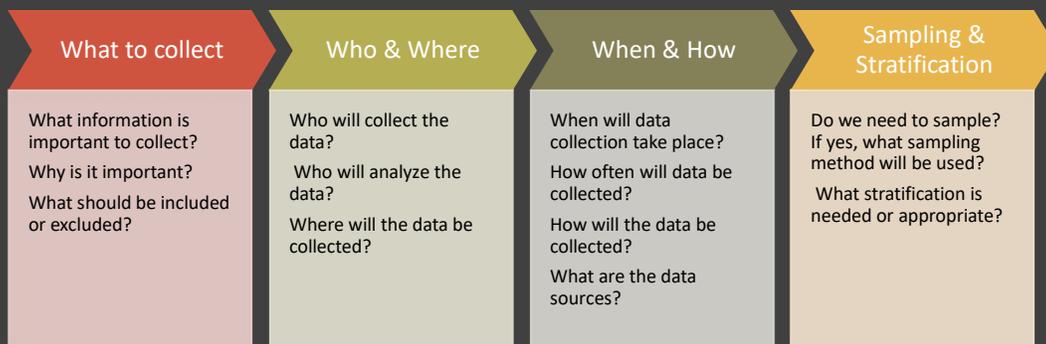
## Balancing | *Did fixing one problem create a new one?*

- Example: patient fall rates compare to restraint usage

**Outcome** = ultimate goal | **Process** = steps to get there | **Balancing** = check for side effects.

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# Measurement Plan



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## Generating Change Ideas

- ENGAGE FRONTLINE STAFF
- LEARN FROM OTHERS
- ANALYZE YOUR CURRENT SYSTEM
- LEVERAGE TECHNOLOGY
- USE CHANGE CONCEPTS

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## Brainstorming & Prioritizing Ideas

- GATHER AND ORGANIZE IDEAS
- MULTI-VOTING PROCESS
- PRIORITIZE HIGH-IMPACT IDEAS WITH INCLUSIVE INPUT.

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## Putting the Model for Improvement into Practice

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**What are we trying to accomplish?**

Reduce the average patient wait time in the emergency department to under 30 minutes by November 1st.



**How will we know that the change is an improvement?**

Tracking the average patient wait time in the emergency department using a data collection system and monitoring the trend over time.



**What change can we make that will result in improvement?**

Implement a new patient registration process with dedicated staff.

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## The PDSA Cycle

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## Plan-Do-Study-Act Cycle

Source: Health Innovation of West England: <https://www.healthinnowest.net/toolkits-and-resources/quality-scale-test-improvement-tools-2/model-for-improvement-pdsa/>

- Small Tests of Change
- Real-time data collection through feedback.
- Iterative
- Gradually expand to larger populations if successful
- Adapt, Adopt, Abandon

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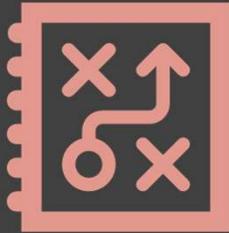
### The PDSA Cycle for Learning and Improvement

<p><b>Act</b></p> <ul style="list-style-type: none"> <li>• Ready to implement?</li> <li>• Try something else?</li> <li>• Next cycle</li> </ul> <p><b>What's next?</b></p>	<p><b>Plan</b></p> <ul style="list-style-type: none"> <li>• Objective</li> <li>• Questions &amp; predictions</li> <li>• Plan to carry out: Who?When? How? Where?</li> </ul> <p><b>What will happen if we try something different?</b></p>
<p><b>Study</b></p> <ul style="list-style-type: none"> <li>• Complete data analysis</li> <li>• Compare to predictions</li> <li>• Summarize</li> </ul> <p><b>Did it work?</b></p>	<p><b>Do</b></p> <ul style="list-style-type: none"> <li>• Carry out plan</li> <li>• Document problems</li> <li>• Begin data analysis</li> </ul> <p><b>Let's try it!</b></p>

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# Plan

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**Define Objectives:** Clearly state what change you are testing and what you expect to happen.

**Create a Data Collection Plan:** Decide what data to collect, who will collect it, and when and how it will be gathered.

**Specify Measures:** Identify outcome, process, and balancing measures with clear operational definitions.

**Design the Test:** Outline what you will try first, who is involved, where and when it will occur, and what resources are needed.

**Predict Results:** Document your expectations before testing based on your aim and measures.

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# Do

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**Start Small:** Begin with a simple 1:1:1 test

**Act Quickly:** Avoid delays—test as soon as possible.

**Learn from Failure:** Every test provides insights, even if it doesn't succeed.

**Iterate and Expand:** Gradually increase scale and scope as confidence grows.

**Assess Readiness:** Expand based on team willingness, belief in success, and risk level.

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## Study

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**Review Outcomes:** Examine the data collected during the test.

**Learn from Results:** Compare actual results to predictions and summarize insights.

**Align Findings:** Synchronize results across tests to identify patterns.

**Determine Next Steps:** Decide whether to adapt, adopt, or abandon based on findings.

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## Act

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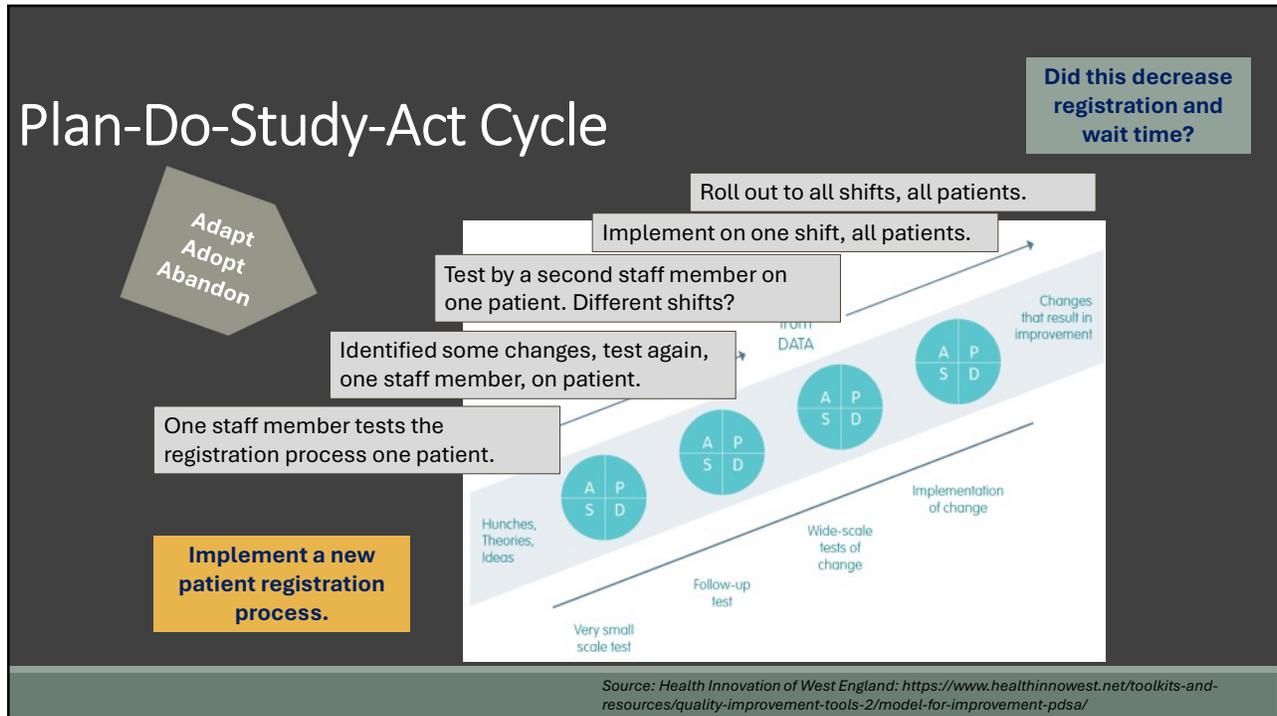


**Adopt:** Scale up and plan for sustainability after successful tests.

**Adapt:** Modify based on lessons learned and test again (increase scale or scope one at a time).

**Abandon:** Discard the idea if tests show it's not effective.

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## Successful PDSA Cycles

- Embrace Failure
- Act Quickly
- Start with the Willing
- Think Big, Test Small
- Skip Consensus
- Be Creative
- Measure Everything
- Test Under Different Conditions
- Borrow Ideas Freely

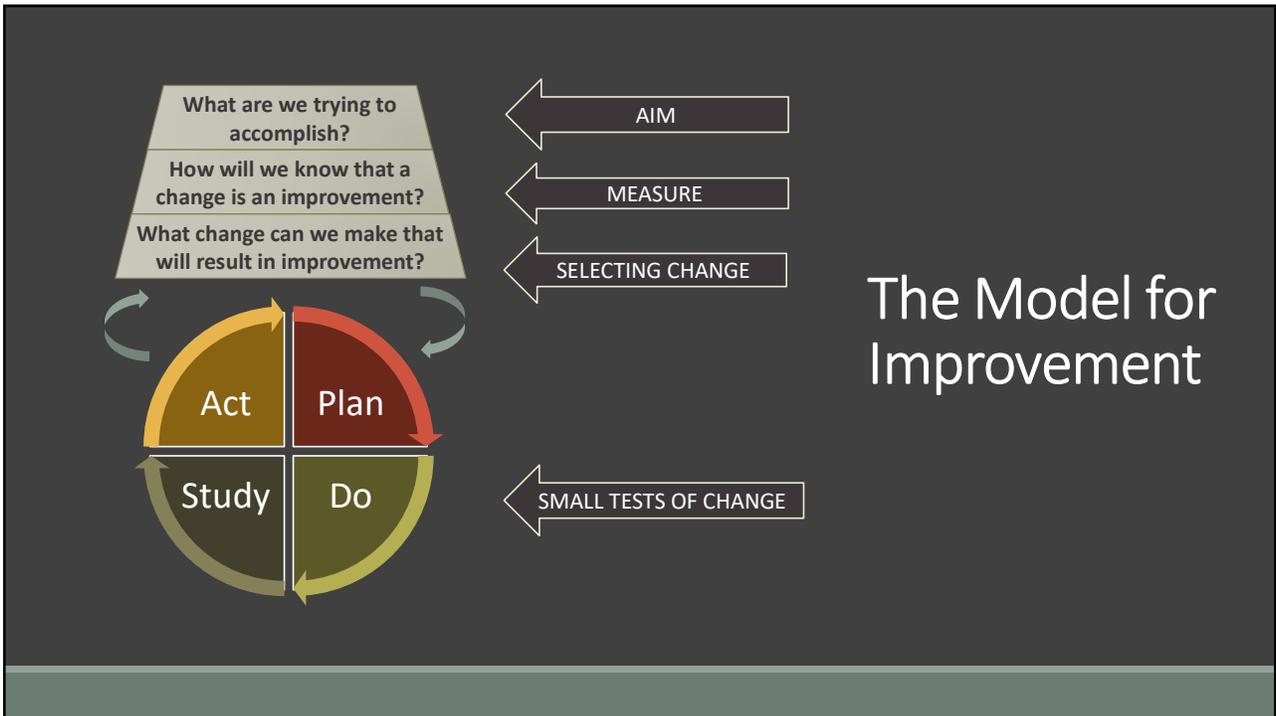
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## Systems Design for Sustainability

- Human factors focus
- Design of tests and spread of adoption
- Engaging the right people

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## Discussion

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What would you like to improve in your department?

Who needs to be engaged for the project to be successful?

How might you use the Model for Improvement in your department?

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## Applied Learning

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# Preparing for Your Performance Improvement Project

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**CHOOSE YOUR PROJECT**



**BUILD YOUR TEAM**



**START PLANNING TOOL**



**SCHEDULE COACHING CALL**

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Date	Content
<b>January 8</b>	Mastering the Model for Improvement
<b>January 9 - 28</b> Coaching Calls	
<b>January 29</b>	Data Analysis & Change Management
<b>February 12</b>	Leading Quality Improvement
<b>February 26</b>	Engaging Teams, Partners, Patients, Families in the Community
<b>March 12</b>	Introduction to Patient Safety
<b>March 26</b>	Project Sharing Celebration

## Quality & Patient Safety Fellowship

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## Questions & Contact

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**Reach out anytime!**

Jennifer Wagner

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Click here to schedule your coaching call before January 29<sup>th</sup>.

<https://www.signupgenius.com/go/10C044EADAC2DA7F5C43-61426294-mtqpscoaching>