Leading Innovative Quality Improvement in the Capricious Healthcare System: The Role of the DNP

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## Disclosure

This speaker has no relevant financial relationships with commercial interests to disclose



## **Objectives**

- Understand the importance of standard work
- Introduce a pathway for efficient decision making
- Improvement methodology used in a large integrated healthcare system
- How to make Quality improvement projects fun and engaging

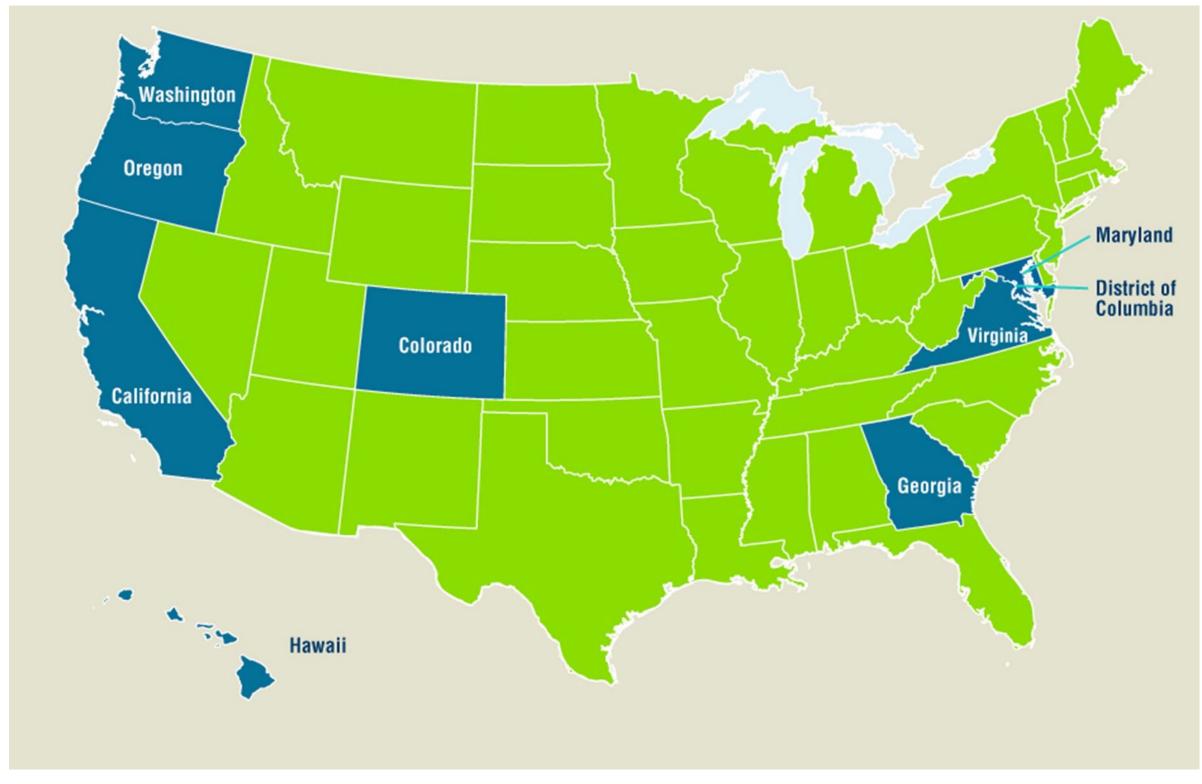


## Kaiser Permanente was Founded in 1945

The entities that comprise Kaiser Permanente are:

- Kaiser Foundation Hospitals (KFH)
- The Permanente Medical Groups (PMG)
- The Kaiser Foundation Health Plan (KPHP) and its subsidiary health plans







## What do you think of when someone says Quality?













HOSPITALS

**USNews** 

2020-21















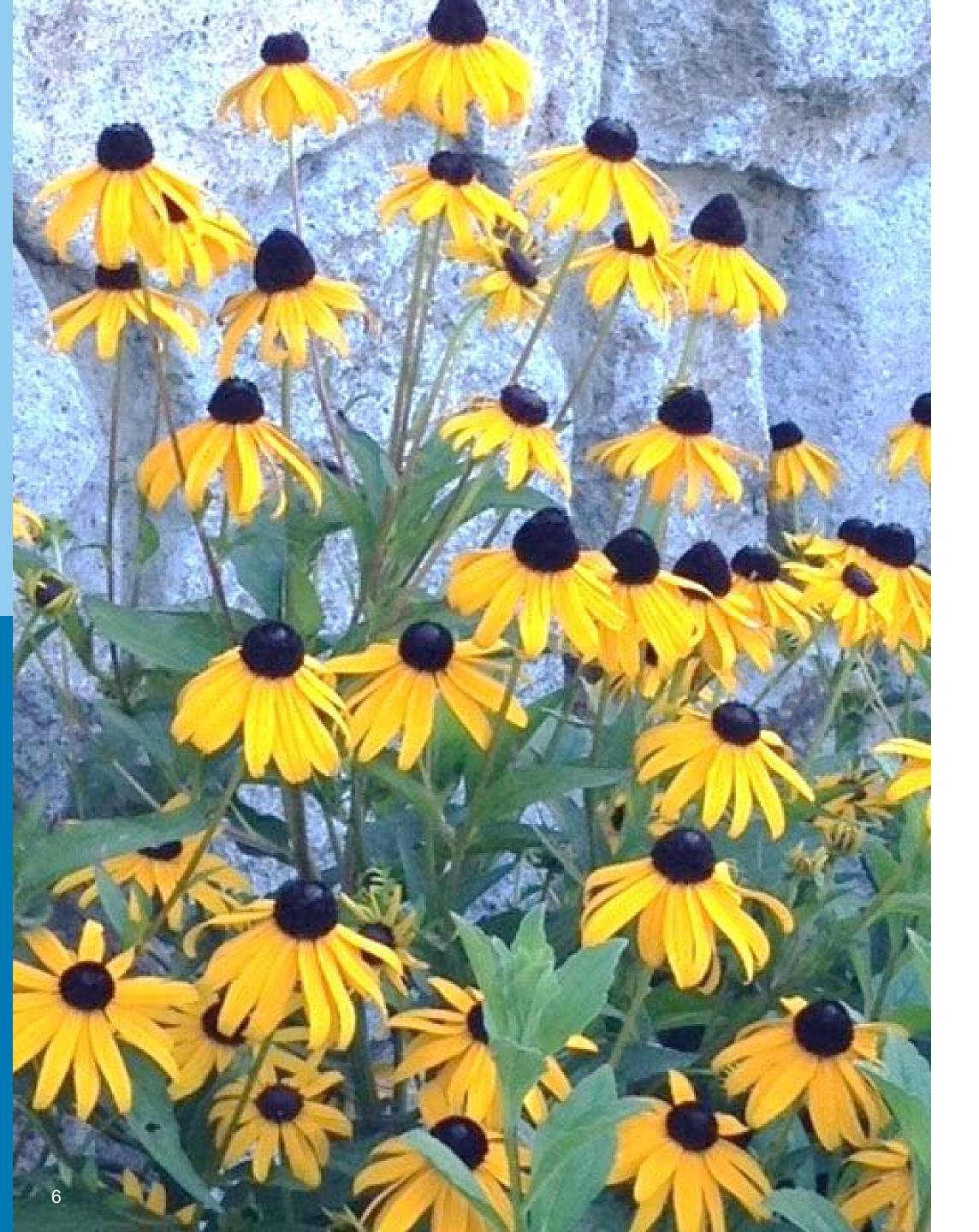








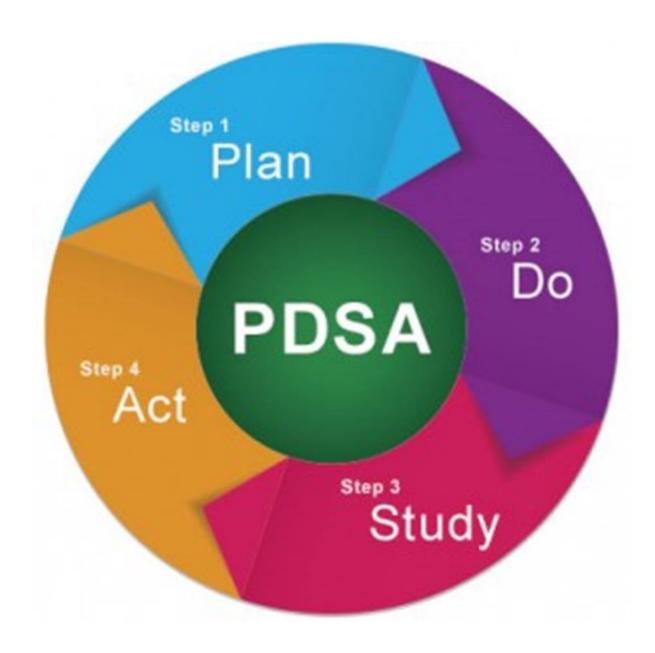




Performance Improvement can help us improve quality while reducing variation, errors, and costs



## Different types of Quality improvement

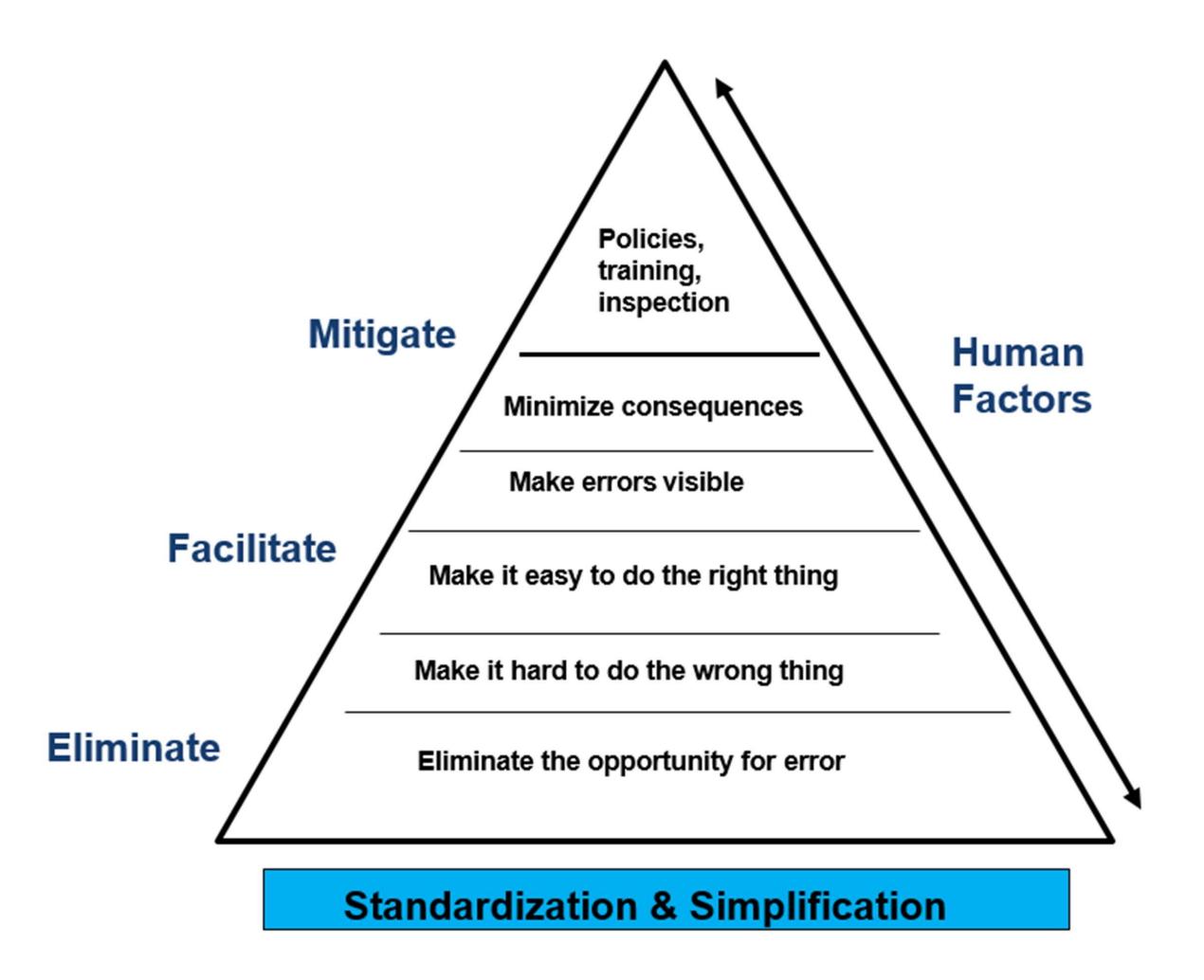








The idea is to put evidencedbased practices in place that will address the root cause of your problem/issue and to make it the standard way to do work for now until a better practice is discovered, tested, and implemented.





## Kaiser Permanente Improvement Institute

The Improvement Institute delivers a complementary suite of offerings aimed at enabling continuous quality improvement, highly scalable solutions, and achievement of sustainable breakthrough performance.

## **Institute Programs**

- National Quality Conference
- Quality Leader Development and Quality Vice President Onboarding
- Quality Professional Fellowship
- Improvement Sciences
- Rapid Improvement Model (RIM+)
- Associate Improvement Advisor
- Improvement Advisor
- Lean Six Sigma Black Belt
- Human Centered Design
- Advanced Patient Safety
- Process Improvement (PI)
   Leadership Training



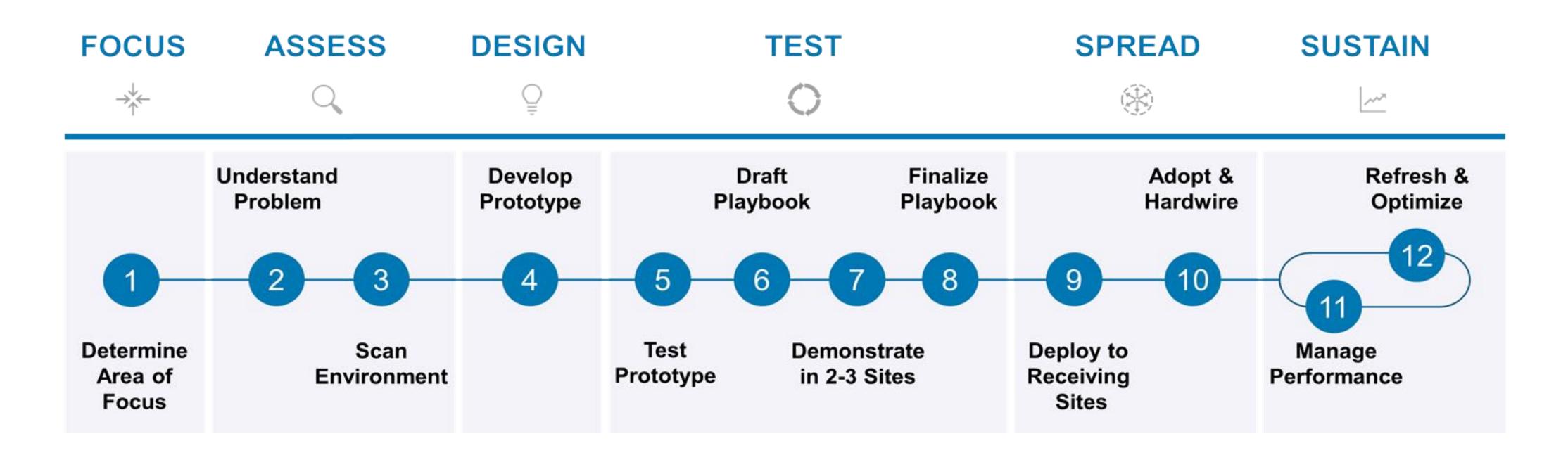
Comprised of an **integrated team** of educators, delivery operation specialists, and performance excellence advisors that **utilize standardized framework** to assess, design, test, spread, and sustain effective practices.





## **Xcelerating Learning & Spread (XLS) 2.0 Model**

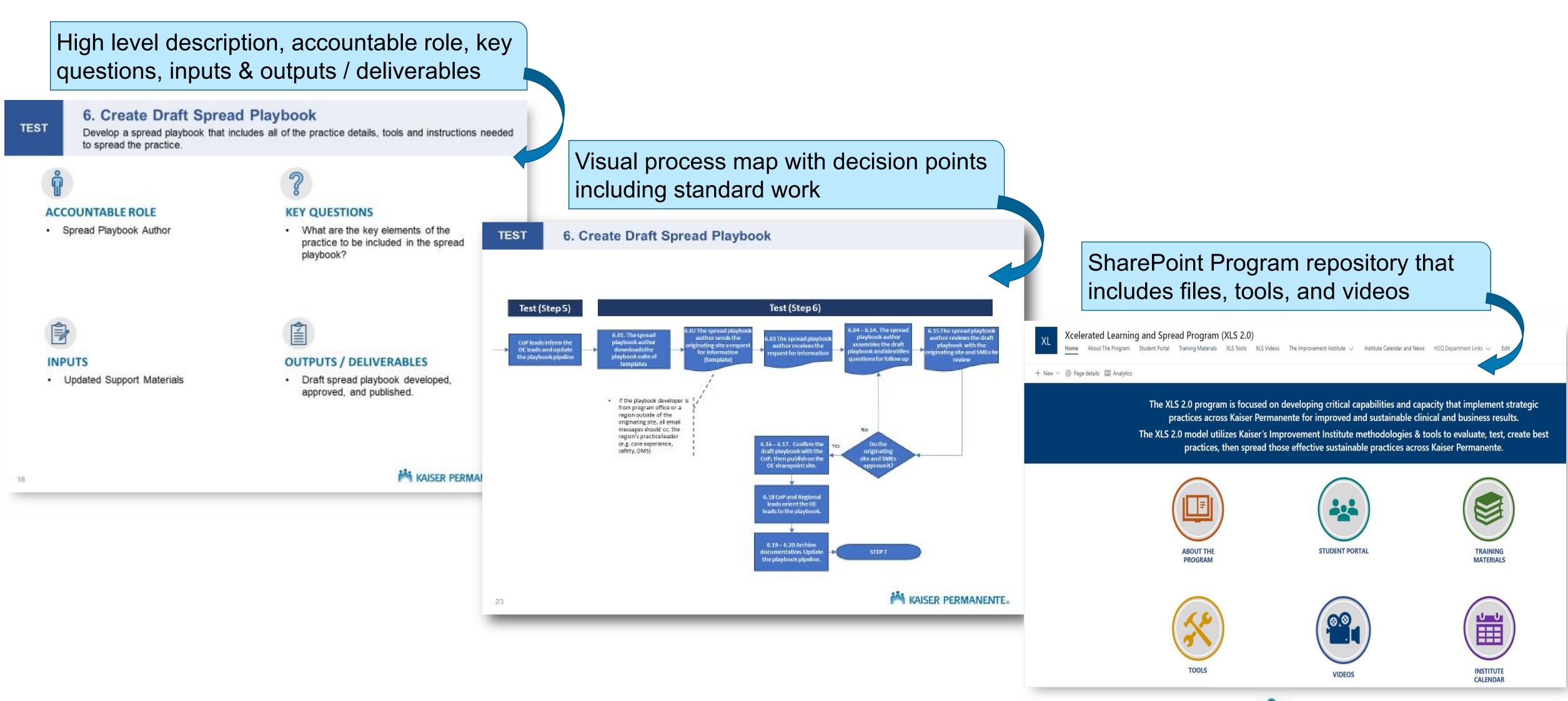
XLS 2.0 is a framework that defines standard work to assess, design, test, spread, and sustain effective practices across Kaiser Permanente. It includes standard work, defined roles, tools and templates, and clear accountabilities and pathways for efficient decision making.



- Builds on current PI framework to leverage organizational capability
- Defines key roles and responsibilities to clarify accountabilities and escalation pathways
- Reduces variation in developing and testing playbooks and spreading practices across regions
- Promotes consistent measurement and data to demonstrate improvement and results



## 12 Standard Work Steps, Easy to Follow Instructions, Job Aids, and Tools / Resources





## FOCUS -\*

## **Determine Areas of Focus**



## **KEY QUESTIONS**

- Where do we need to make strategic progress?
- What are our clinical, operational and breakthrough strategies?
- Are we willing to commit resources?



## **DELIVERABLES**

- Focus area and key priorities linked to Strategic Plan/Operating Plan
- Project Sponsor and decision-making body defined
- Criteria to prioritize portfolio of work



Determine areas of focus.



2X2 Matrix
Driver Diagram
SWOT Analysis



## **Cost of Harm**

- Surgical site infections (SSIs) are the most common hospital-acquired infection in surgical patients.
- Annual cost of SSI in the United States is \$3.5 to \$10 Billion
- SSIs on average increase the hospital length of stay by 9.7 days
- SSIs resulted in approximately 90,000 readmissions adding an additional \$700 million in annual costs.
- SSI reduction efforts are a major quality-improvement priority for surgeons, and healthcare organizations.

 An estimated 60 % of SSI's are projected to be preventable with the use of evidence-based measures



## Margaret's Story



- Margaret is a nurse, single mom of two girls
- Original Left Hip Replacement Surgery December 2013, 2 ½ weeks later dislocated the left hip
- 6-8 weeks later had increasing pain was sent to PT
- Aug 2014 c/o excruciating pain was sent to pain clinic and PT
- By Jan 2015 could not bear weight after 8 different providers was finally diagnosed with loose hardware caused by infection
- Return to the OR to remove hardware and PICC line placed for 6 weeks of antibiotics
- Aug 2015 Return to the OR for left hip replacement



## ASSESS Q

## **Understand the Problem**



## **KEY QUESTIONS**

- What is the problem?
- What is the customer/user experience?
- What are the drivers and effective practices that lead to high performance?



#### **DELIVERABLES**

- Problem definition
- Resource plan
- Prioritized opportunity list
- Customer and stakeholder perspectives
- Draft project charter



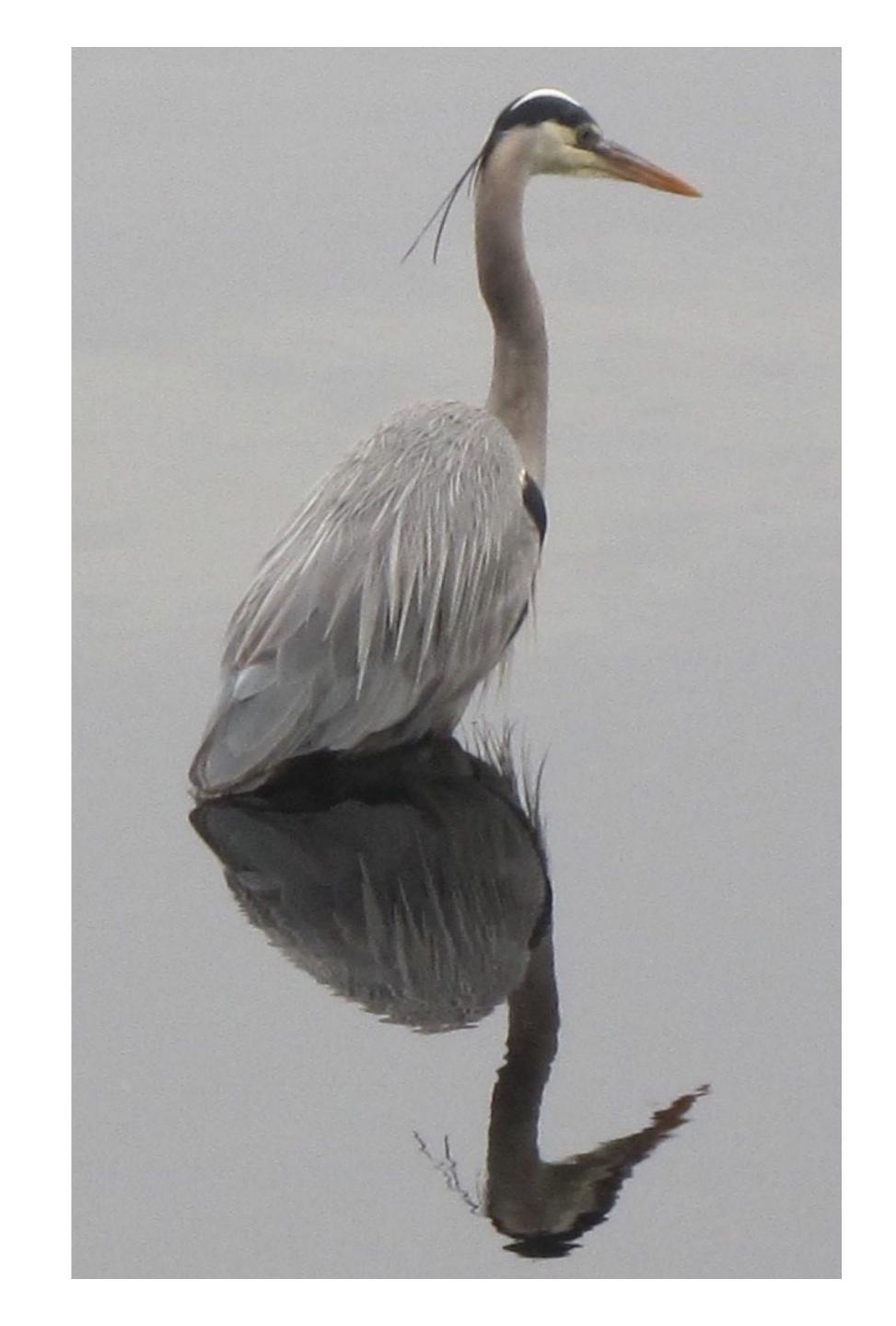
#### **STANDARD WORK**

- Understand the problem
- Scan the environment



Project Charter
Process Map/Fishbone Diagram
Stakeholder Analysis
Literature Review Template





"If you define the problem correctly, you almost have the solution."

Steve Jobs



## DESIGN Q

## Develop the prototype



## **KEY QUESTIONS**

- Which solutions might delight patients and members?
- How does this change the current process?
- What can we stop doing?



## **DELIVERABLES**

- Practice prototype

   (workflows, tool kits,
   measurement, staffing and
   support plans)
- Draft plan for testing
- Stakeholder and communications plan



#### **STANDARD WORK**

Design the prototype



Update Project Charter Voice of the Customer SMART Goal Guidance Draft Playbook



## Hand Hygiene

 Accurately apply hand hygiene techniques during the preoperative encounter

## Weight & Temp

Collect patient weight and temps on all patients

## Glucose Monitoring

Assess glucose levels (finger stick) on all patients

## CO Monitoring

Assess CO levels when orders are written

## CHG Wipes

RN to apply CHG wipes and perform skin assessment

## Hair Clipping

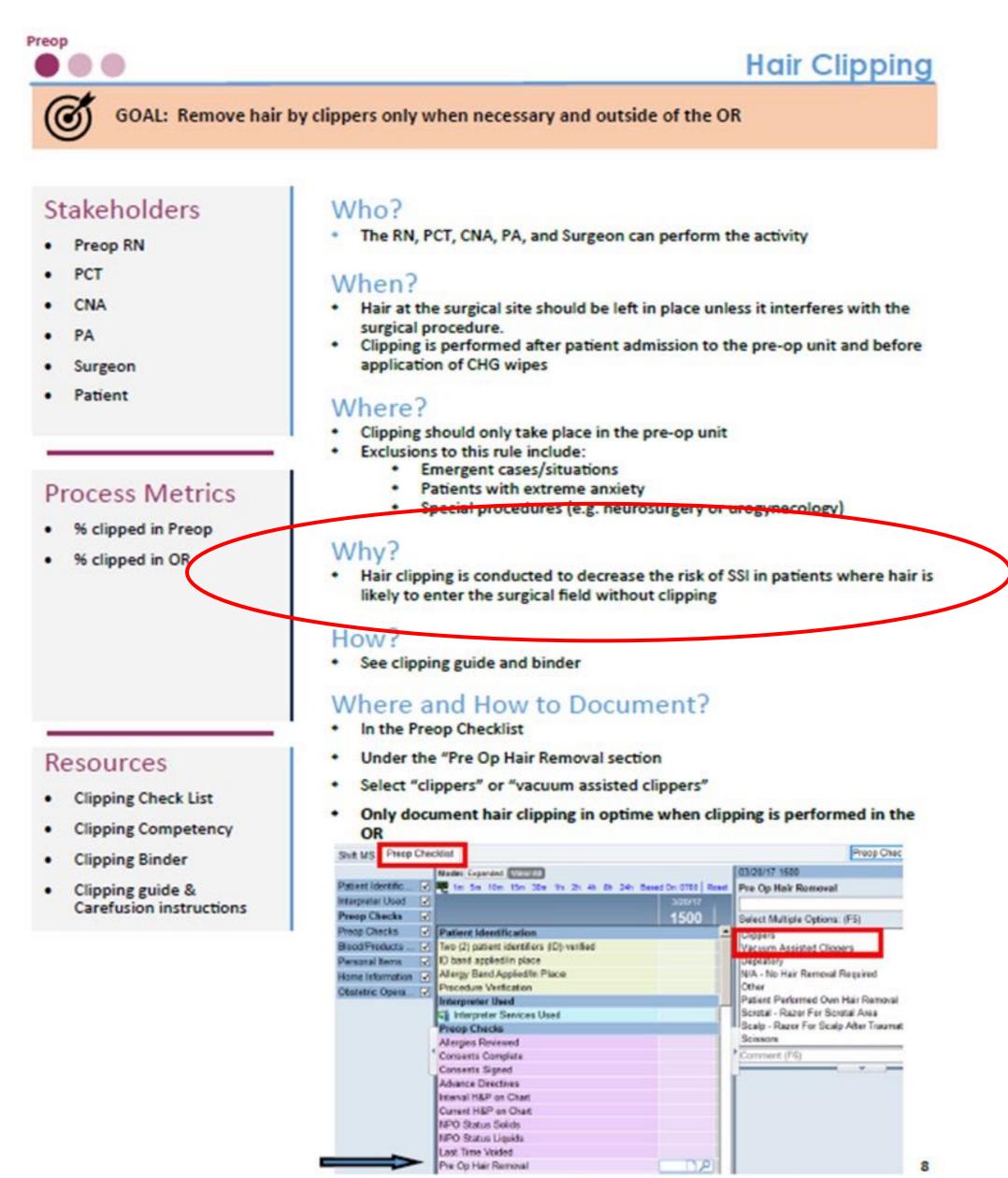
Perform hair clipping only when required

## Warming Device

Apply a warming device to all patients



## Make sure your staff understand the "WHY"





## Draw a Pig

Pick up the blank sheet of paper that was handed out to you.

Draw a pig
You have 40 seconds....







- This time use the paper with the grid on it and follow the instructions on the screen.
- You have 3 minutes total (1 ½ minutes per slide).





# Operation: Pig Picture Drawing Staff Requirements: 1 Artist Tools: 1 Blue or Black Pen Materials: 1 Blank Sheet of Paper with Tic-Tac-Toe Grid

#	Instruction		
1	Ears- Draw a letter M at the top left grid intersection. The bottom center of M touches the intersection.		
2	Front Legs- Draw the letter W at the bottom left grid intersection. The top center of W touches the intersection.		
3	Hind Legs- Draw the letter W at the bottom right grid intersection. The top center of W touches the intersection.		
4	Back- Draw an arc (Rounded side up) from the letter M to the top right grid intersection.		
5	Rump- Draw another arc (Rounded side Right) from the top right grid intersection to the right side of the bottom right W.		
6	Belly- From the right corner of the W on the left, draw an arc (Rounded Side Down) to the top left corner of the W on the Right.		



Step	Instruction	
7	Nose- Draw the letter O in the center left box with a diameter about ¼ the height of the left box	
8	Forehead- Draw an arc (Rounded side Down and Right) from the bottom left corner of the letter M to the top of the circle.	
9	Chin- Draw an arc (rounded side up and right) from the left side of the left W to the bottom of the circle.	
10	Eyes- Draw an arc for the eye halfway between the M and the circle.	
11	Mouth- Draw an arc for the mouth halfway between W and circle. (It must be a happy pig!!)	
12	Tail- Draw the tail using a cursive letter e near the top of arc on the right.	
13	Nostrils- And finally, draw two dots in the middle of the circle for the pig's nose.	



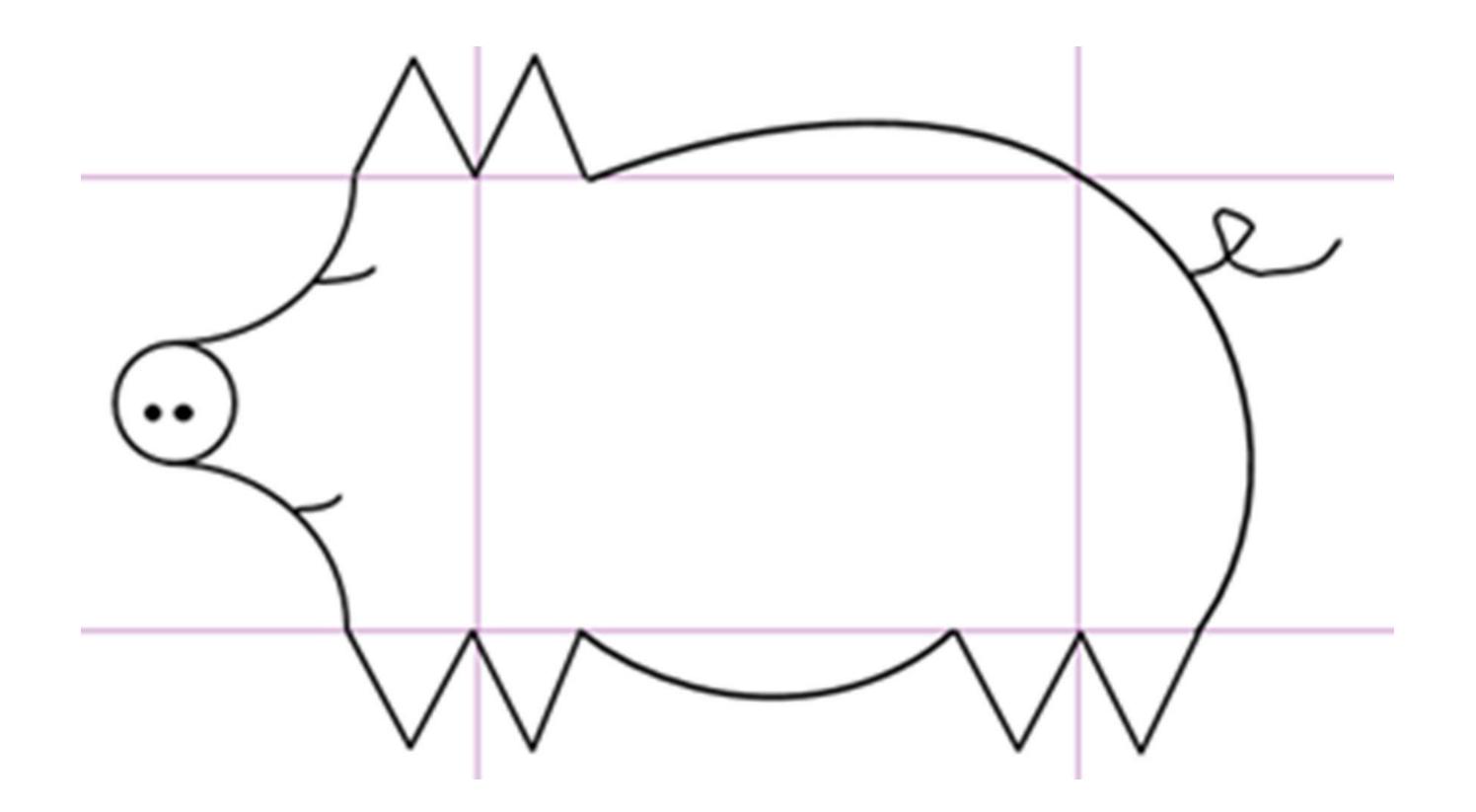
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## Does your pig now look like this?





## Adding visual management to your standard work will:

- Improve understanding of the best practices and the correct execution of each step
- Provide a clear picture of what the "end" is supposed to look like
- Decrease training time and reduce the learning curve for new staff
- Make the standard easy to see





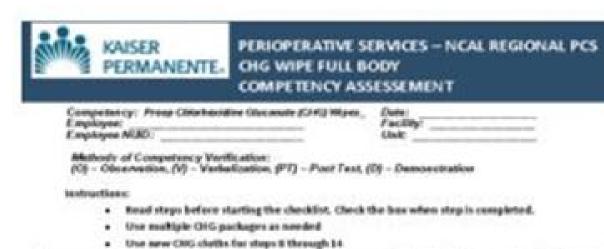
#### **Resources for Frontline Staff**



HealthStream Modules



Resource Binder Guides



Emperators of Competency

Emperators of Competency

Exercises

O, Y, PL, 0

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Checklists & Competencies



## TEST ()

## **Test the Prototype**



#### **KEY QUESTIONS**

- Does the practice produce the desired results?
- Is the practice ready for spread?
- What are the key elements of the practice to be included in the spread playbook?
- Does the practice produce desired results in other arenas?



#### **DELIVERABLES**

- Learning cycles and test plans
- Draft plan to go from 1 to 2-3 sites
- Measurement, staffing and support plans
- Playbook and implementation plans finalized
- Toolkits and supporting materials updated
- Spread readiness evaluation



#### **STANDARD WORK**

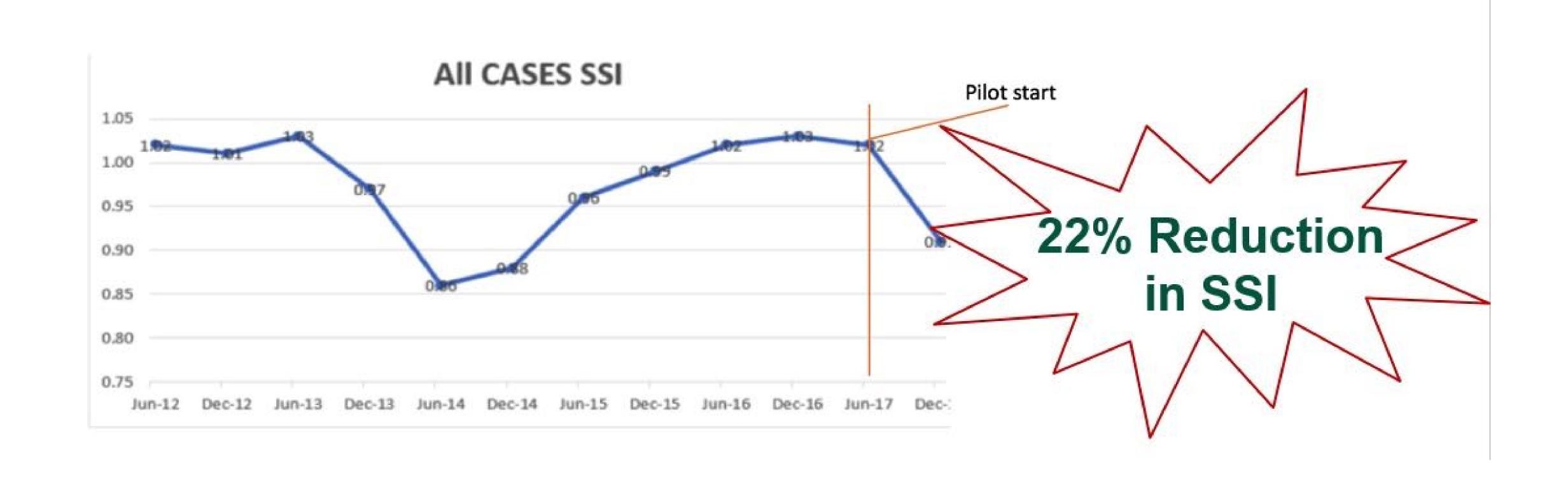
- Test the prototype
- Evaluate for Spread readiness
- Create draft spread playbook
- Test draft playbook in 2-3 sites
- Finalize Playbook



PDSA planning Template Spread Readiness Assessment Finalize Playbook



## Results







## **Deploy to Receiving Sites**



## **KEY QUESTIONS**

- What must we do to fully integrate into operations?
- Is system performance improved?



#### **DELIVERABLES**

- Regional spread plan
- Change Management and communications plans
- Standardized technology, products, staffing models



## **STANDARD WORK**

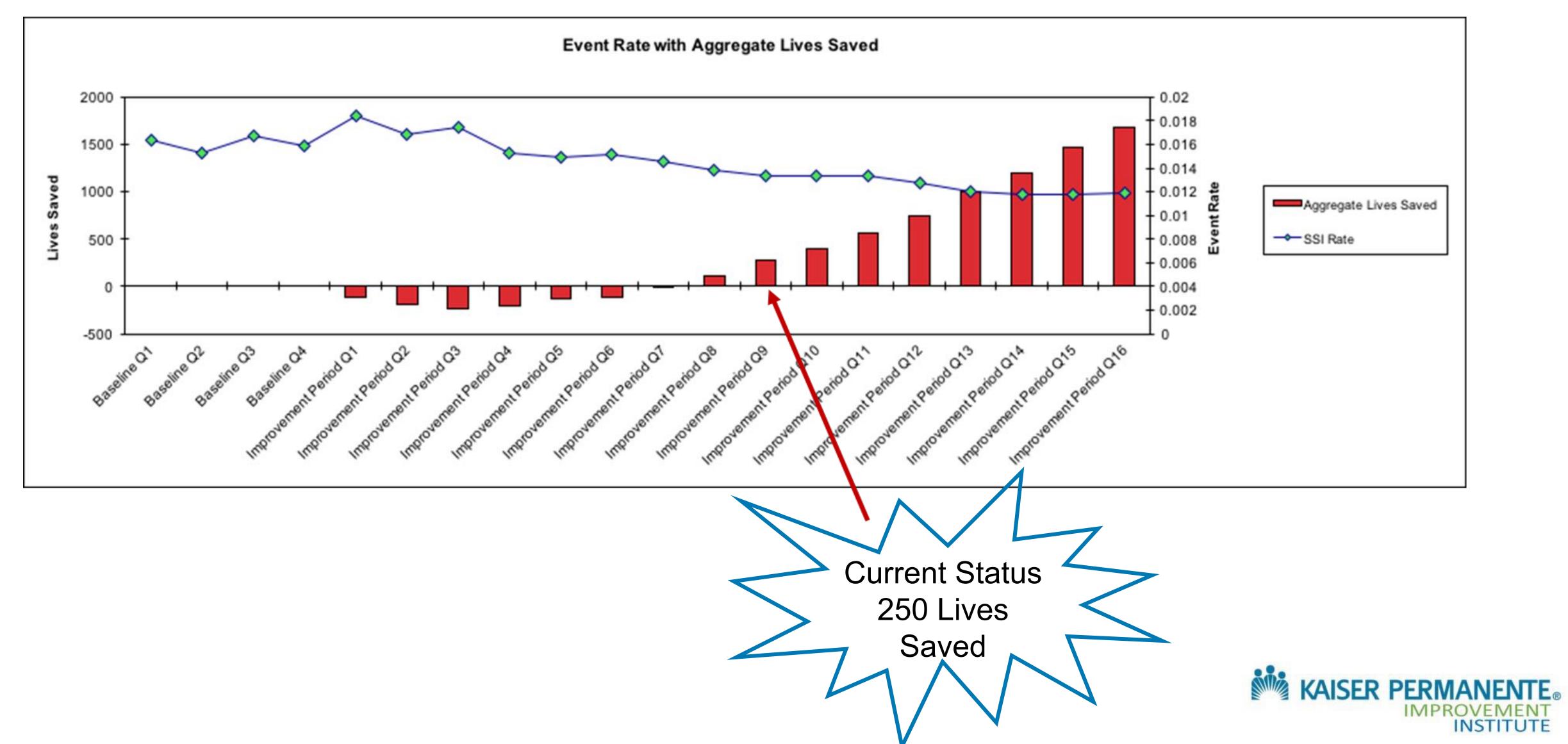
- Deploy to receiving sites
- Adopt the practice
- Hardwire changes into daily operations



Receiving Site Readiness Assessment Spread Approach Reference Guide Control Chart Rules



## Return on Investment isn't always \$\$



## The Role of the DNP



Publish

Publish

Publish

Publish





## Manage Performance



## **KEY QUESTIONS**

- What is needed to regularly manage performance and detect drift from the process?
- Is there a plan to respond to drift?
- Is there new evidence in the literature or an effective practice to support a refresh?



#### **DELIVERABLES**

 A system is in place to measure, monitor and manage performance, detect and respond to drift (Control & Sustain plans)



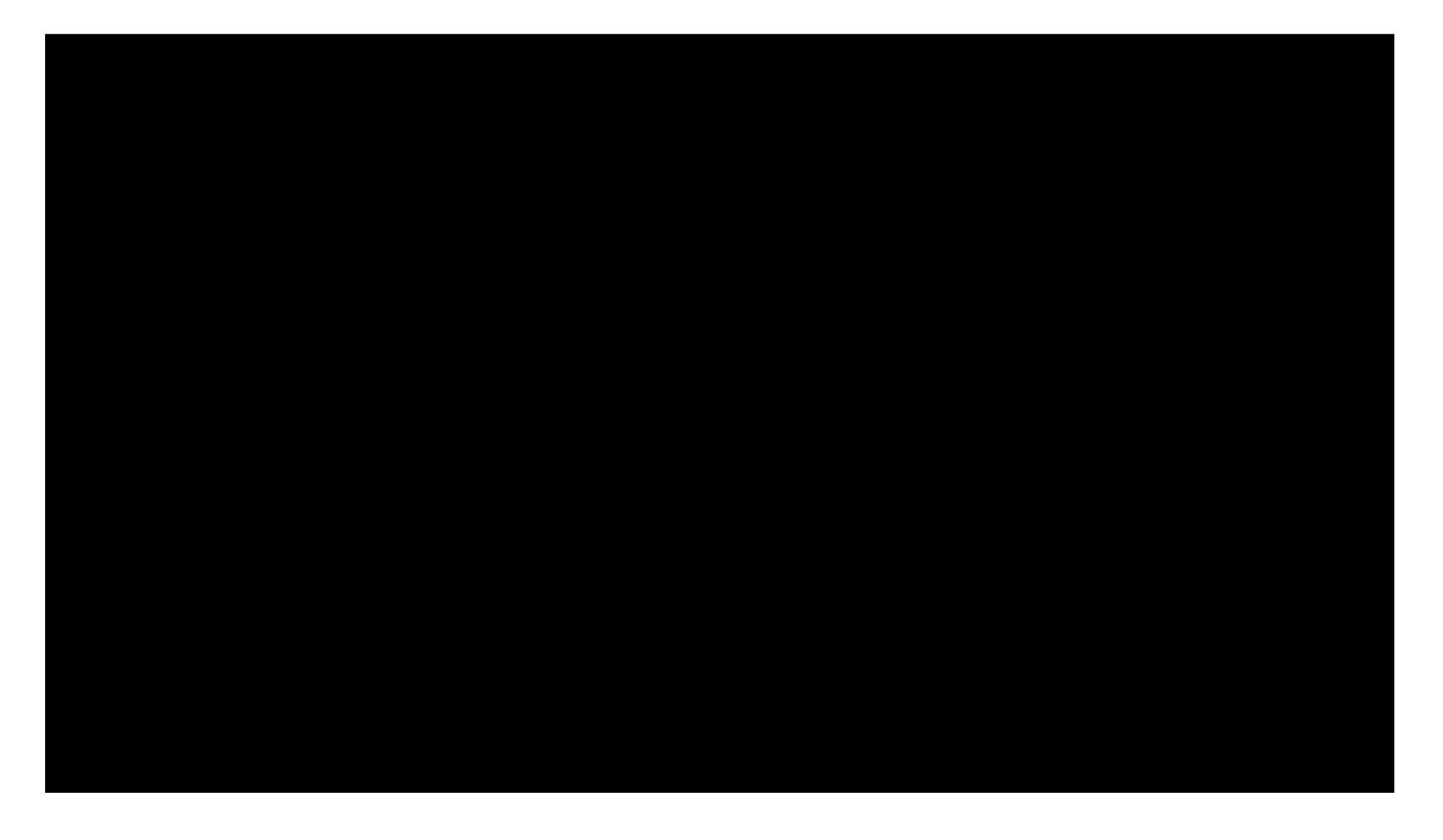
#### **STANDARD WORK**

- Manage Performance
- Respond to drift
- Refresh and optimize

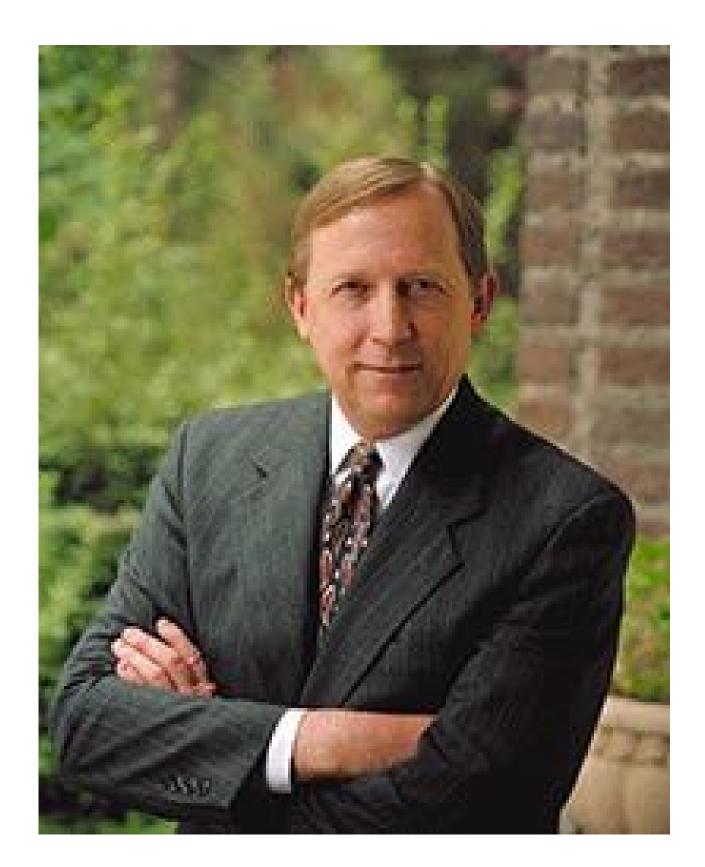




## Xcelerating Learning & Spread (XLS) 2.0 Model







"It's more important that you do it the <u>same way</u> than what **you think** is the right way."

Brent James M.D.



# Thank you.

