

Agency, Systems & Community Health Improvement

**TRAINING**

# Performance Management and Quality Improvement 101

**Jack Moran, PhD**

Public Health Foundation

---



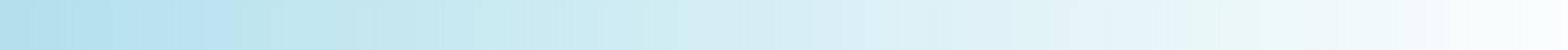
## Introduction To Performance Management

---

“Performance management is the practice of actively using performance data to improve the public's health.

This practice involves the strategic use of performance measures and standards to establish performance targets and goals.”

Source: From Silos to Systems: Using Performance Management to Improve Public Health Systems – prepared by the Public Health Foundation for the Performance Management National Excellence Collaborative, 2003





## Introduction To Performance Management

---

“Performance Management is what you do with the information you’ve developed from measuring performance.”

Source: Guidebook for Performance Measurement

**“Know where to find the information and how to use it  
- That's the secret of success” - Albert Einstein**

---



# What is Performance?

---

- Performance is the sum of behavior plus results:

**Performance = Behavior + Results**

- If you only focus on behaviors, you won't notice if you did not get desired results
  - If you only focus on results, you won't notice if your employees don't behave correctly
- 

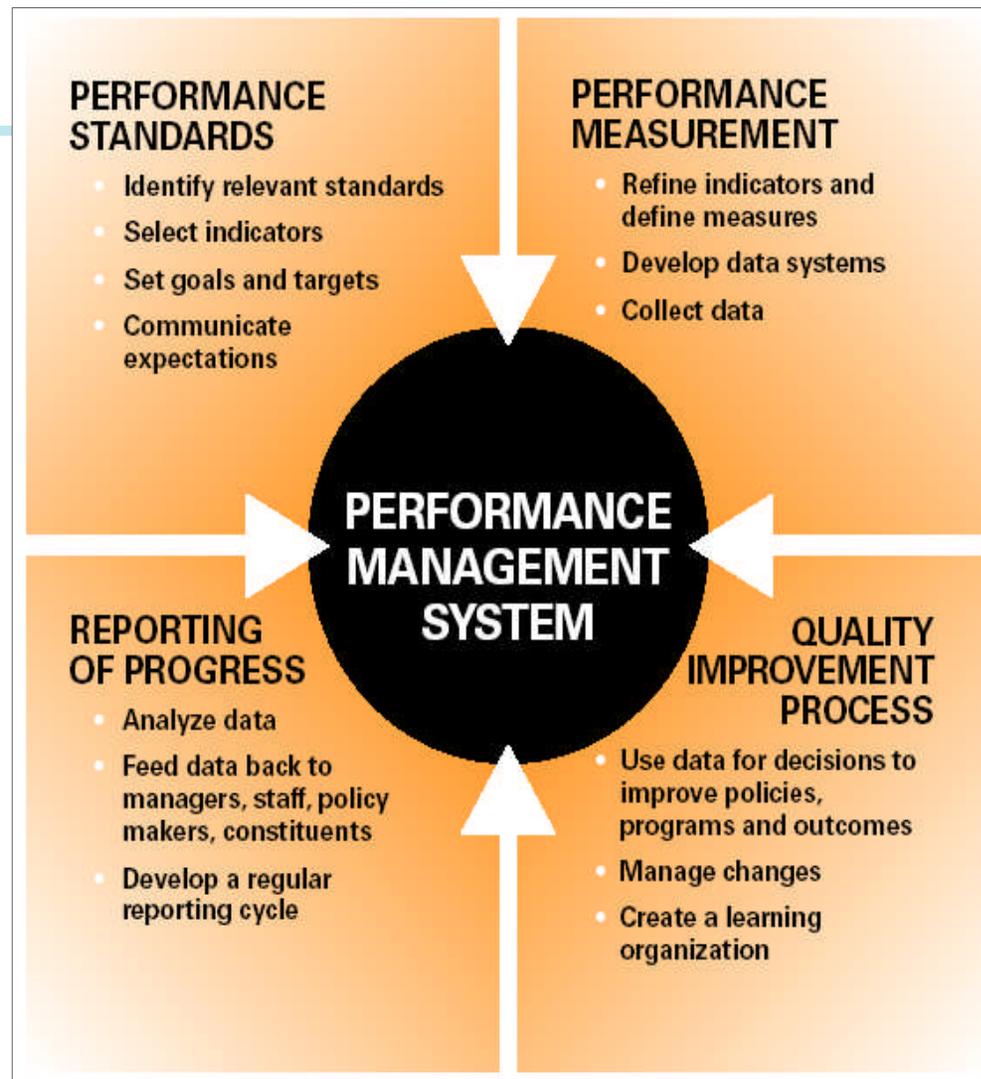


## Turning Point Performance Management Model

---

- Performance management is the strategic use of performance standards, measures, progress reports, and ongoing quality improvement efforts to ensure an agency achieves desired results.
  - By improving performance and quality, public health systems can save lives, cut costs, and get better results (efficiency and effectiveness) by managing performance.
  - In the case of public health, the ultimate purpose of these efforts is to improve the public's health.
-

# Turning Point Performance Management Model



# Definitions

---

- **Performance Standards** are the establishment of organizational or system performance standards, targets, and goals to improve public health practices.
  - **Performance measures** are the development, application, and use of performance measures to assess achievement of such standards.
  - **Reporting of Progress** is the documentation and reporting of progress in meeting standards and targets and sharing of such information through feedback.
  - **Quality Improvement** is the establishment of a program or process to manage change and achieve quality improvement in public health policies, programs, or infrastructure based on performance standards, measures, and reports.
-



# Data

---

- Public health departments usually have lots of data on health status and some of the limitations with these data are:
    - Aggregate level
    - Timeliness
    - Reliability and Validity
  
  - What's missing:
    - Process data
    - Customer data
-



## Manage and Improve Performance

---

**Data** → **Information** → **Knowledge**

**Behavior** → **Attitudes** → **Better Results**





---

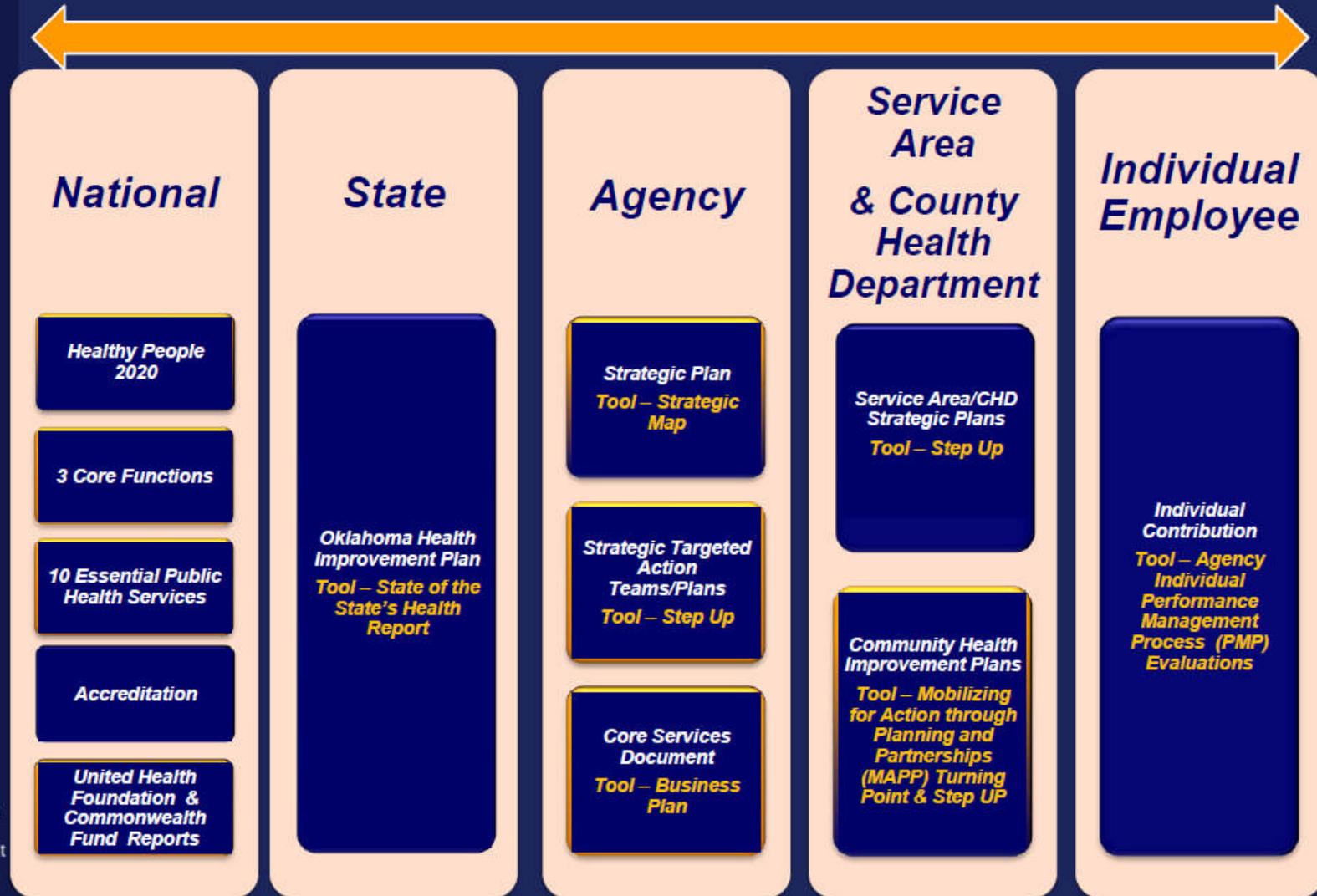
“In order for these results to be achieved, performance management practices must be integrated or institutionalized into routine public health processes, and all players within an agency or program need to understand and be invested in his or her role within a larger system.”

The Public Health Quality Improvement Handbook, R. Bialek, G. Duffy, and J. Moran, ASQ Quality Press, 2009, pp. 16

---

# Tying It All Together

## OSDH Performance Management Model

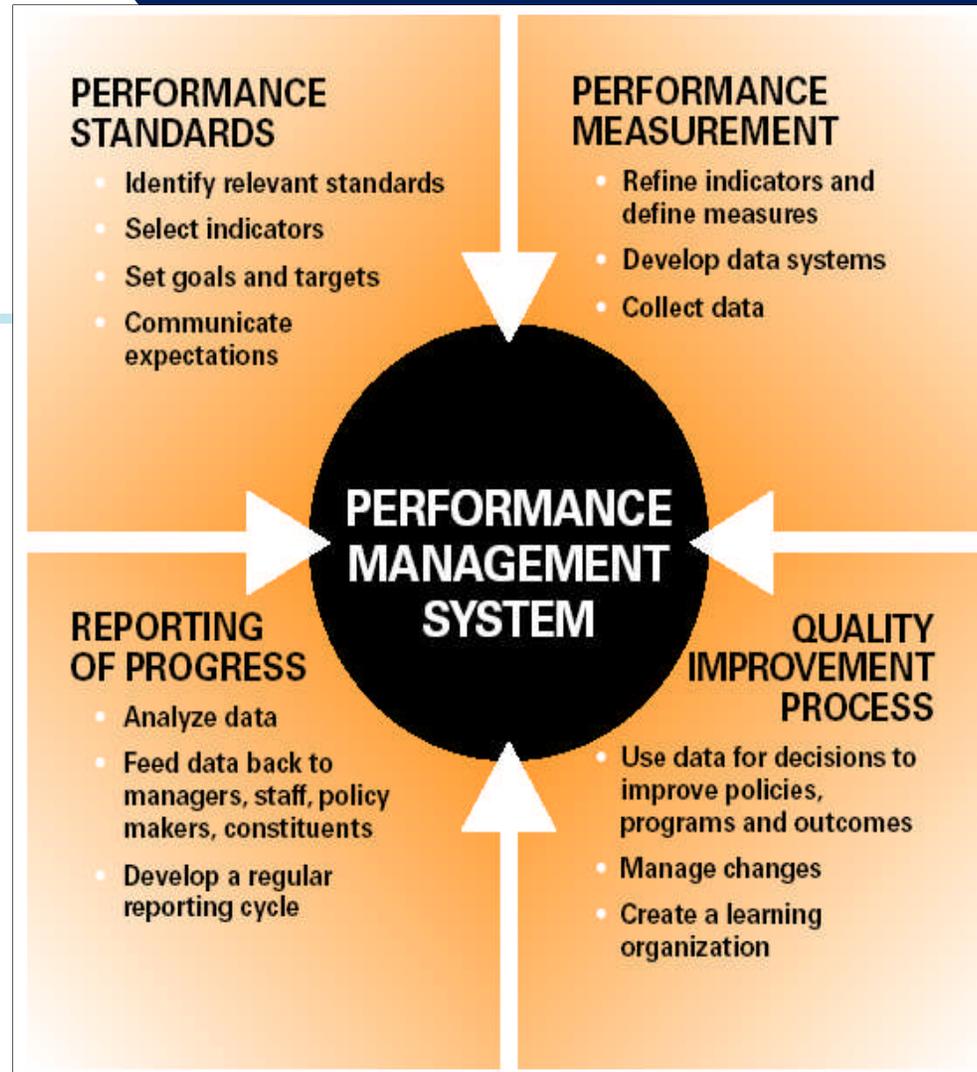




# Elements for Success

---

- Commitment of senior management in setting and maintaining a culture of performance and quality is imperative to long term success.
  - Involving the direct workforce in the identification and resolution of performance problems on a daily basis.
- 



1. What area are you doing the best?

2. What area needs the greatest improvement?



## Assessing Your Performance Management System

---

- 1. Do you set specific performance standards, targets, or goals for your organization?**
  - 2. Do you have a way to measure the capacity, process, or outcomes of established performance standards and targets?**
  - 3. Do you document or report your organization's progress?**
  - 4. Do you make information regularly available to managers, staff, and others?**
  - 5. Do you have a quality improvement process?**
  - 6. Do you have a process to manage changes in policies, programs, or infrastructure that are based on performance standards, measurements, and reports?**
-



# Rating Scale

---

**0 – nothing in place**

**1 – just getting started**

**2 – moving in the right direction**

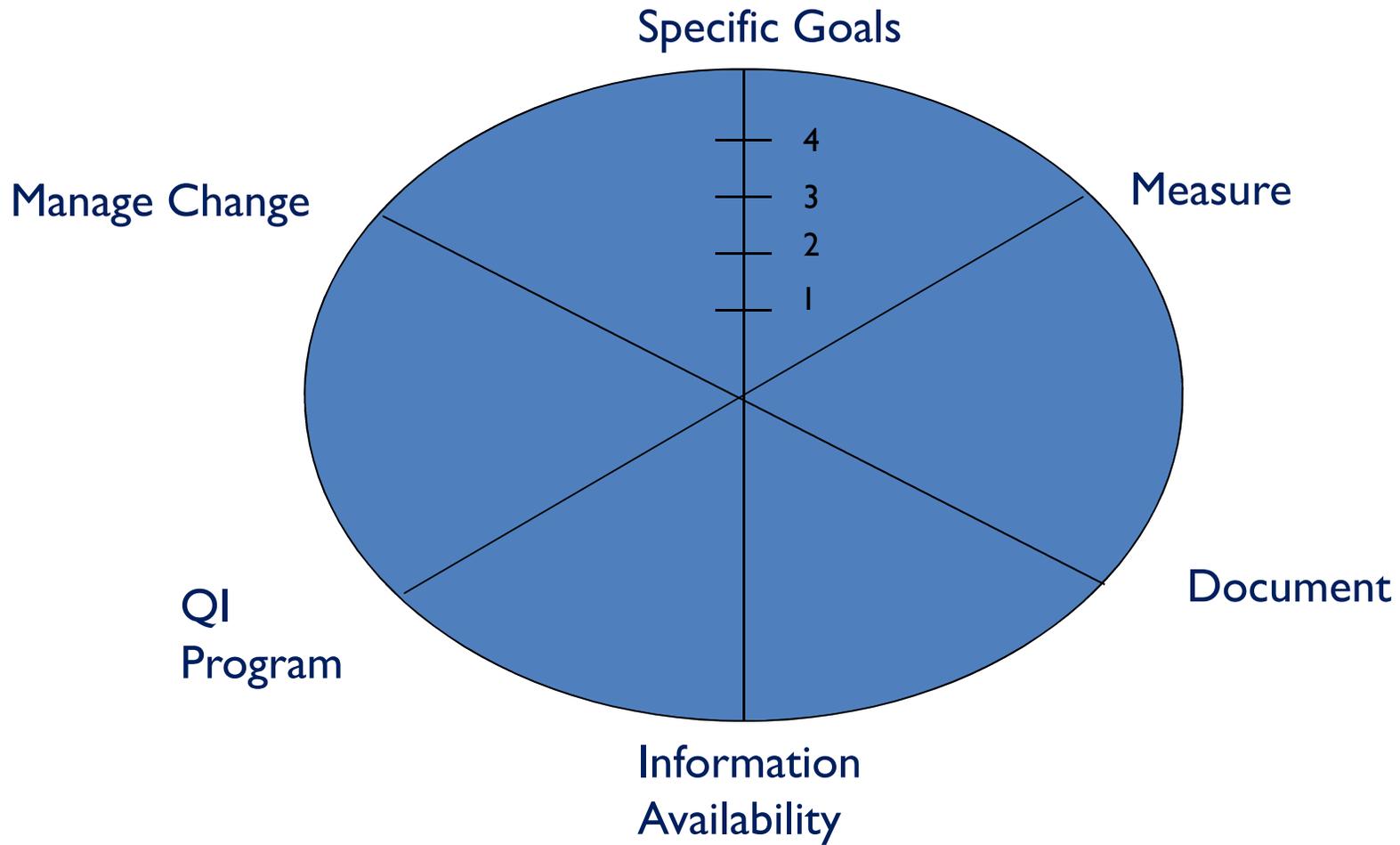
**3 – adequate – have made good progress over the last year**

**4 – very good performance and have plans in place to expand the PM program throughout the organization**

**5 – we have Institutionalized PM**

---

# Rating Your Current Performance Management Capability



## Some Other Models of Performance Management



## Some Other Models of Performance Management



# Some Other Models of Performance Management





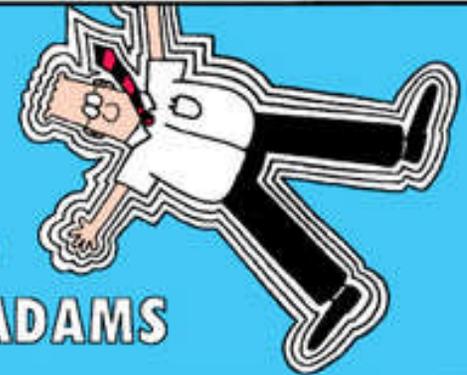
# Performance Management

---

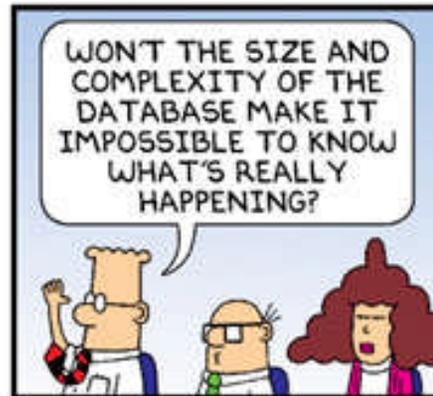
- **Core performance management practices and processes generally include:**
    - goal setting
    - financial planning
    - operational planning
    - data collection
    - consolidation of data
    - data analysis
    - reporting of data
    - quality improvement
    - evaluation of results
    - monitoring of key performance indicators
    - others???
  
  - The focus of these performance management activities is to ensure that goals are consistently met in an effective and efficient manner by an organization, a department, or an employee.
-



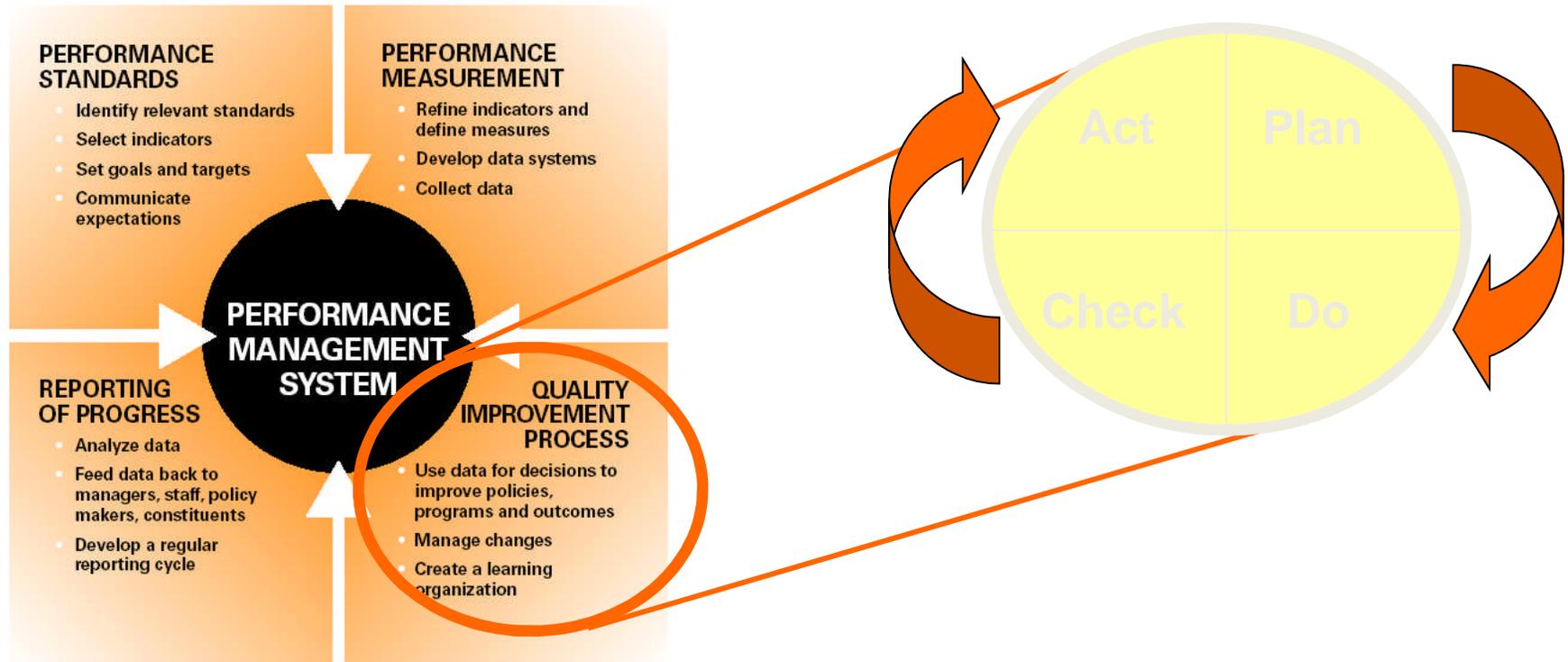
# DILBERT®



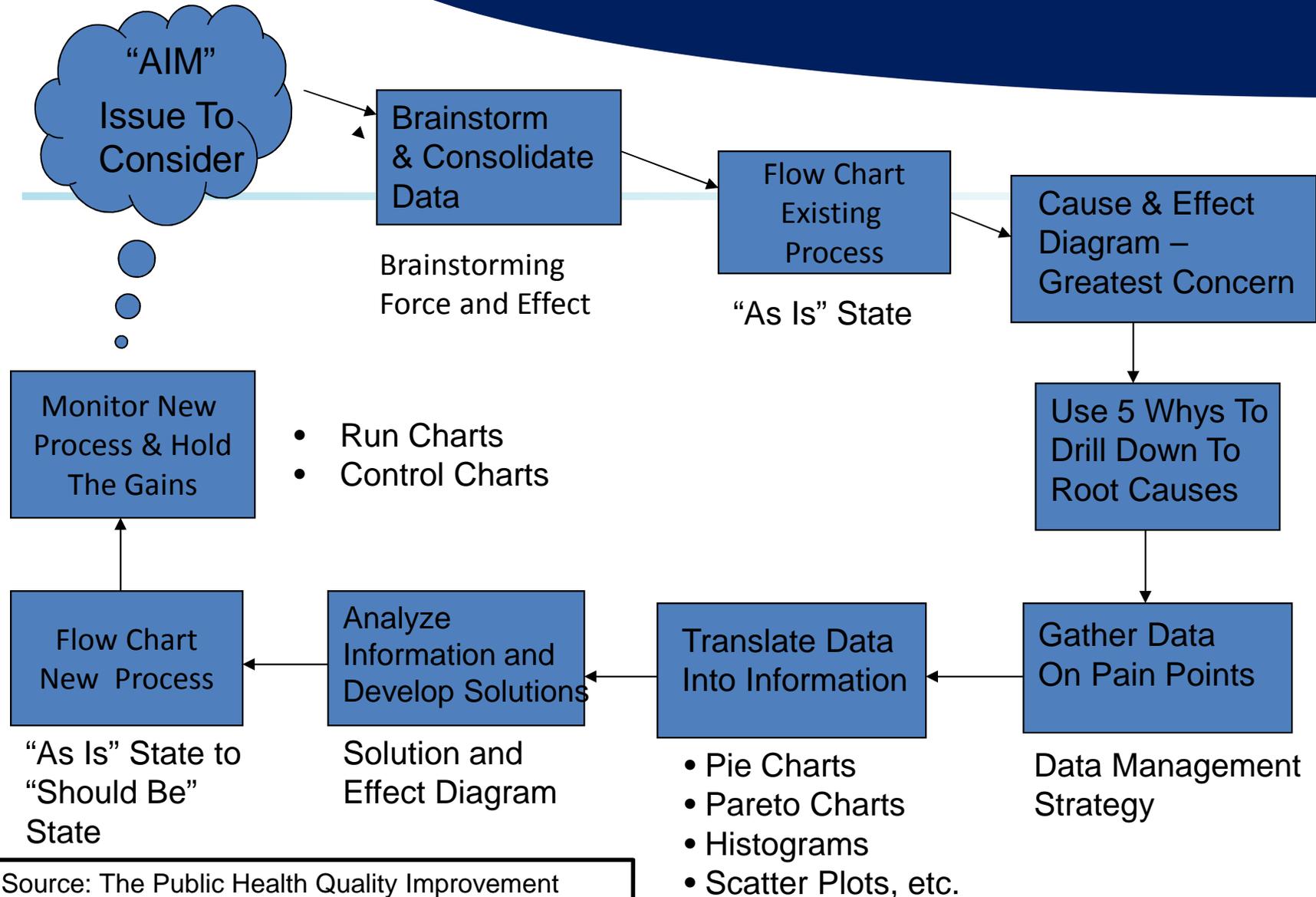
BY  
SCOTT ADAMS



# PDCA: A Quality Improvement Model



## General Approach On How To Use The Basic Tools Of Quality Improvement



Source: The Public Health Quality Improvement Handbook, R. Bialek, G. Duffy, J. Moran, Editors, Quality Press, © 2009, p.160

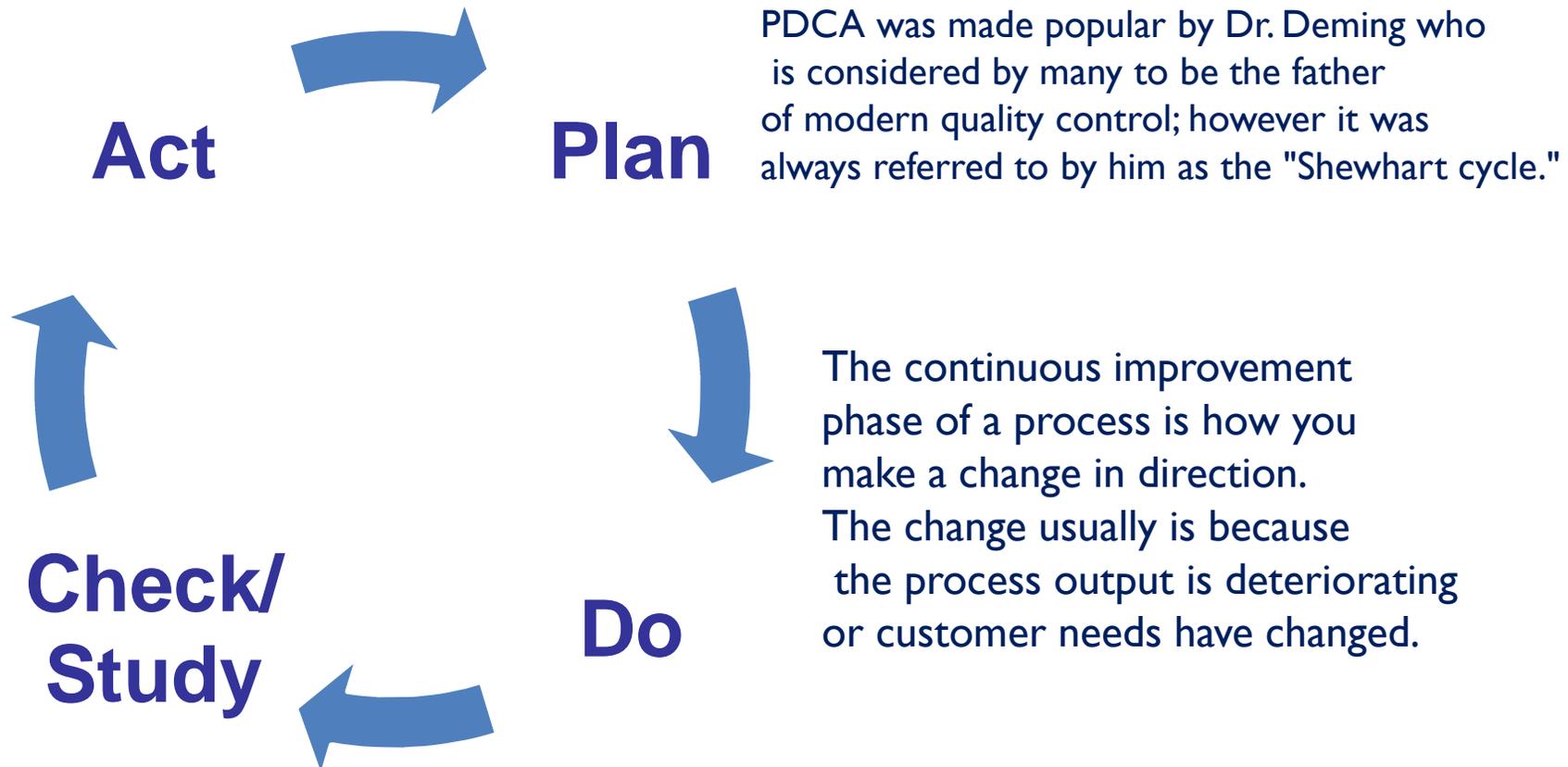


# What Is Quality?

---

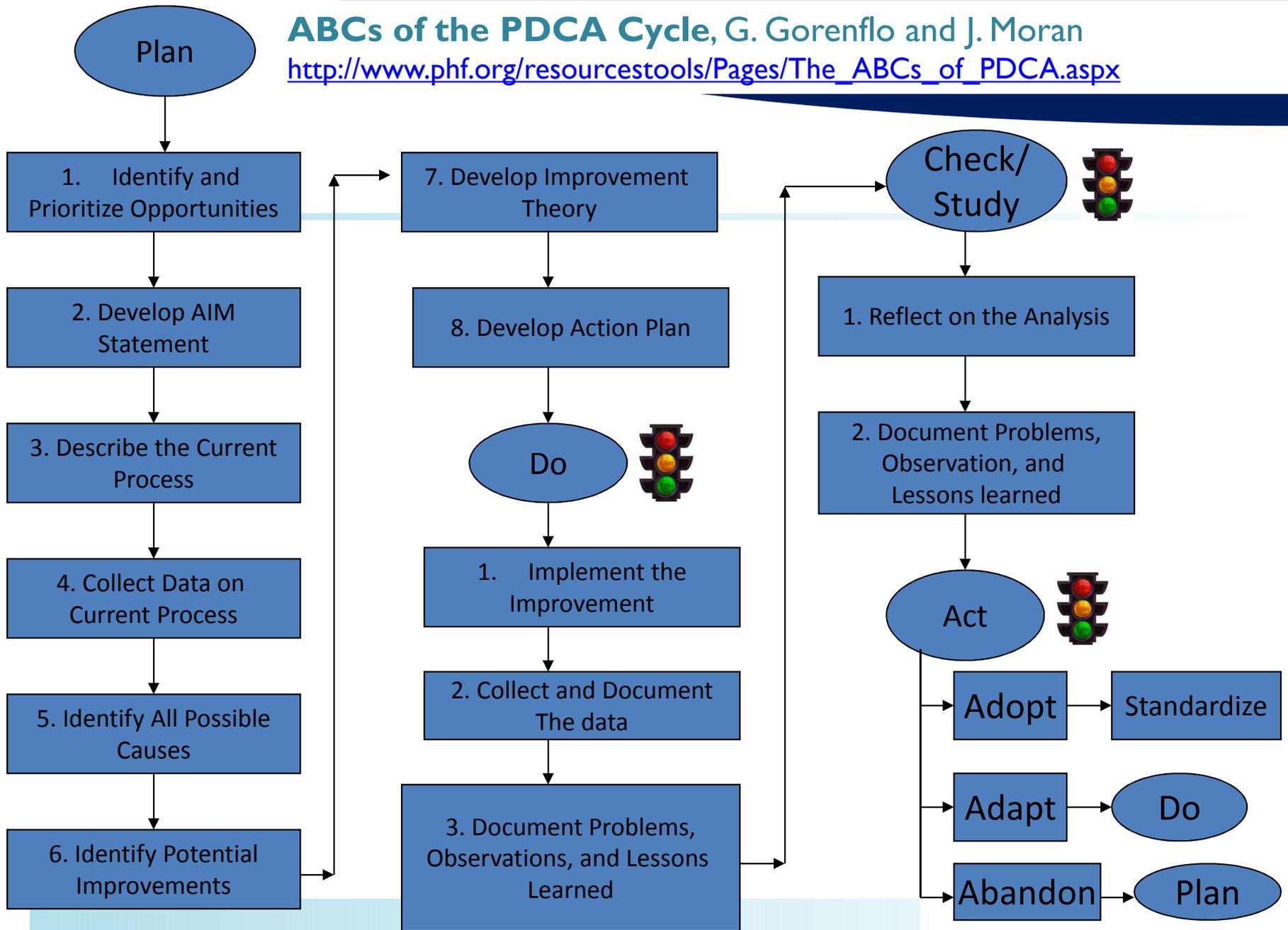
- Today the most progressive view of quality is that it is defined entirely by the customer or end user and is based upon that person's evaluation of his or her entire customer experience.
  - The customer experience is the aggregate of all the Touch Points that customers have with the organization's product and services, and is by definition a combination of these.
  - RFT
- 

# Deming Cycle of Continuous Improvement



# ABCs of the PDCA Cycle, G. Gorenflo and J. Moran

[http://www.phf.org/resourcestools/Pages/The\\_ABCs\\_of\\_PDCA.aspx](http://www.phf.org/resourcestools/Pages/The_ABCs_of_PDCA.aspx)



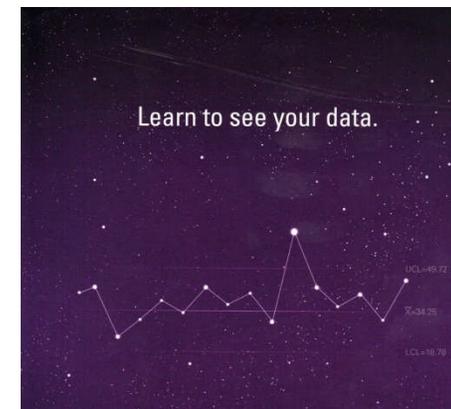
# The Basic Tools of QI

- Flow Chart
- Cause and Effect Diagrams
- Pareto Chart
- Check Sheet
- Histogram
- Scatter Diagram
- Control Chart

People Centric

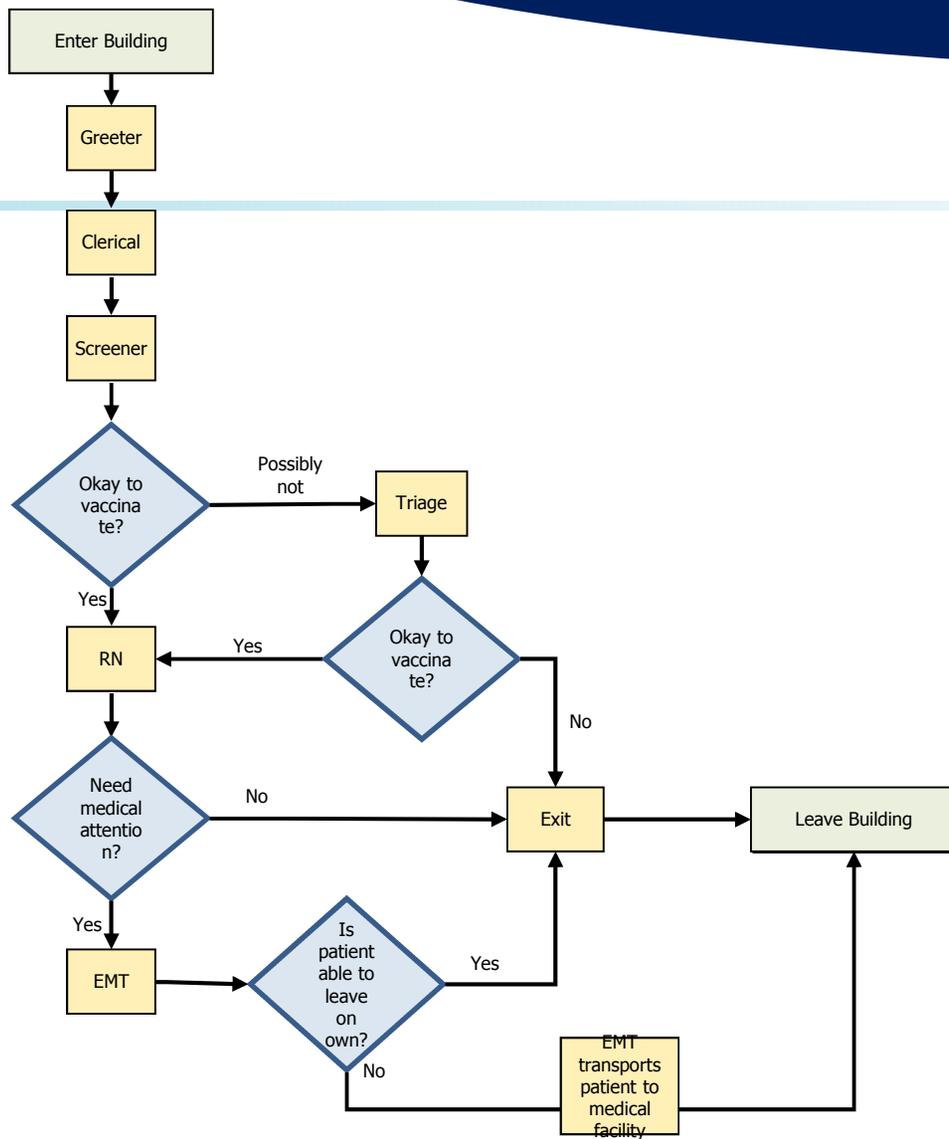


Data Centric

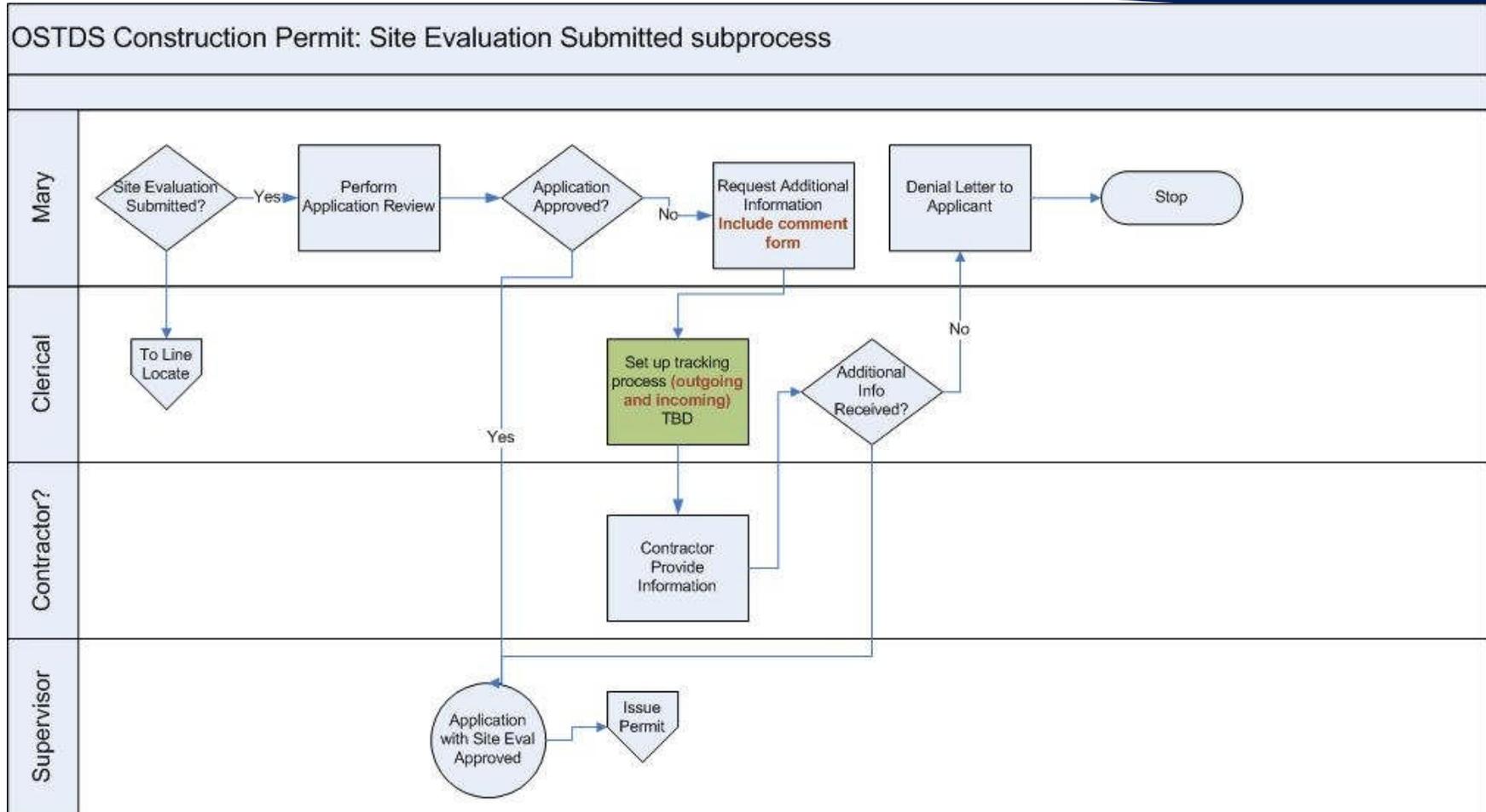


VOP

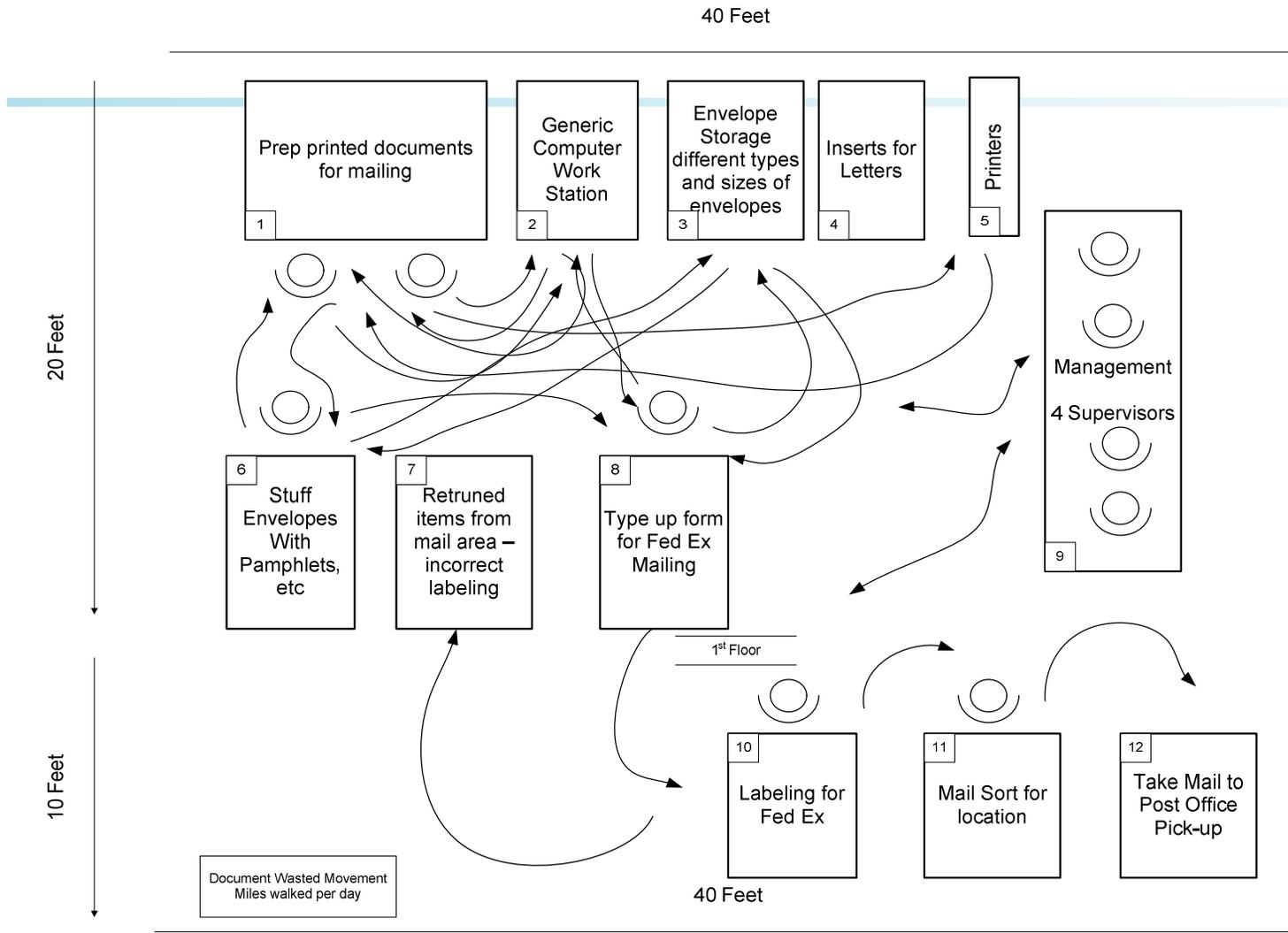
# Patient Flow



# Swim Lanes



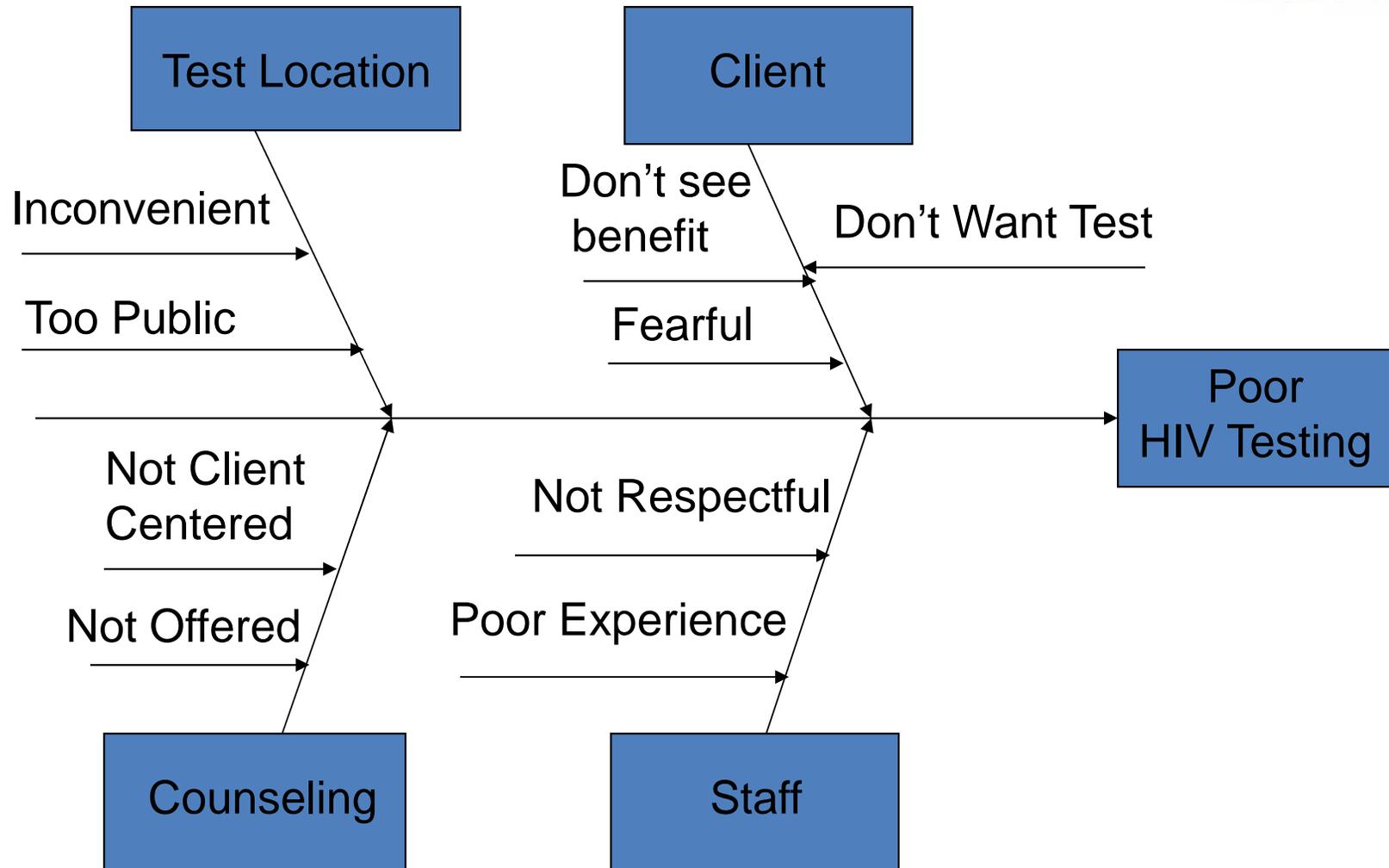
# Spaghetti Diagram: Health Department Administrative Office Flow



# Agency, Systems & Community Health Improvement

# TRAINING

## Cause and Effect Diagram

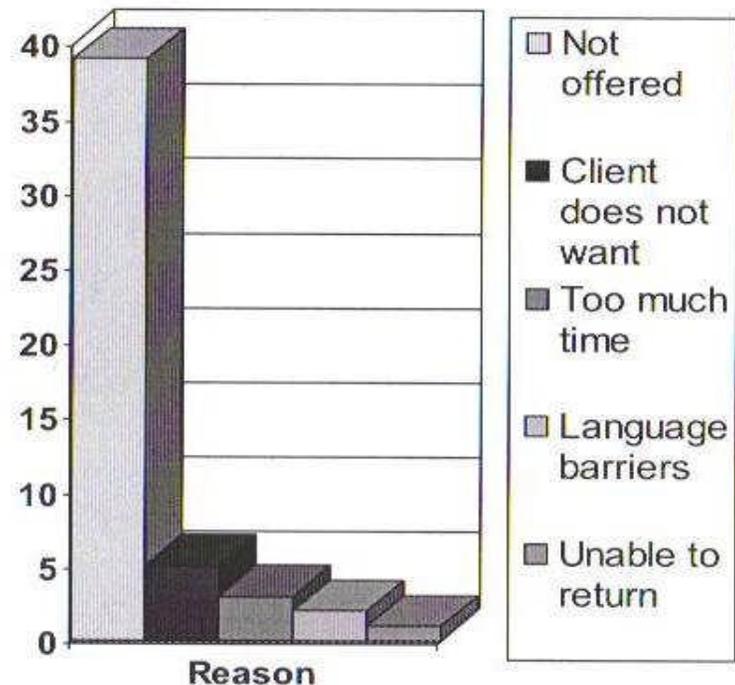


## Pareto Principle:

20% of sources cause 80% of any problem

- *Why do fewer clients in clinic B receive HIV tests?*

<u>Reasons</u>	<u>#</u>
Too much time	3
Client does not want	5
Not offered	39
Unable to return	1
Language barriers	2



- 80% of process defects arise from 20% of the process issues.
- 80% of delays in schedule arise from 20% of the possible causes of the delays.
- 80% of client complaints arise from 20% of your services.

**DCHD  
Immunization Checklist for the Clinics**

√	<b>Front Desk</b>
	<ul style="list-style-type: none"> <li>➤ Register patient in HMS</li> <li>➤ Cross Check for duplicate patients</li> </ul>
	<ul style="list-style-type: none"> <li>➤ Access FL Shots for Patient Information "Search FL Shots"</li> <li>➤ Ask for address, phone number, and email address (change information if necessary)</li> </ul>
	<ul style="list-style-type: none"> <li>➤ Import updates to HMS</li> <li>➤ Make sure you have selected the proper Current Immunization Provider (CIP) status is correct in FL Shots</li> </ul>
	<ul style="list-style-type: none"> <li>➤ Print Immunization History from FL Shots attach to Superbill/Chart along with Insurance verification</li> </ul>
	<b>Staff Signature</b>
√	<b>RN/LPN/MA/HST</b>
	<ul style="list-style-type: none"> <li>➤ Greet patient</li> <li>➤ Assess for needed vaccines</li> <li>➤ Explain vaccines to be given today</li> <li>➤ Give VIS to patient/parent</li> <li>➤ Ask for any questions</li> <li>➤ Give Injections</li> <li>➤ Explain after care instructions, invite questions</li> <li>➤ Document immunization in Florida Shots</li> <li>➤ Give patient an updated record of shots w/new due date</li> <li>➤ Tell patient when to return for next vaccinations</li> <li>➤ Document in medical records</li> </ul>
	<b>Staff Signature</b>
√	<b>Billing Clerk</b>
	<ul style="list-style-type: none"> <li>➤ Process Superbill</li> <li>➤ Process any collections</li> <li>➤ Ask did you get your updated record of shots?</li> <li>➤ Release Client</li> </ul>
	<b>Staff Signature</b>

**Patient Label**

# Location Checklist

## School Nurse Record of Treatment

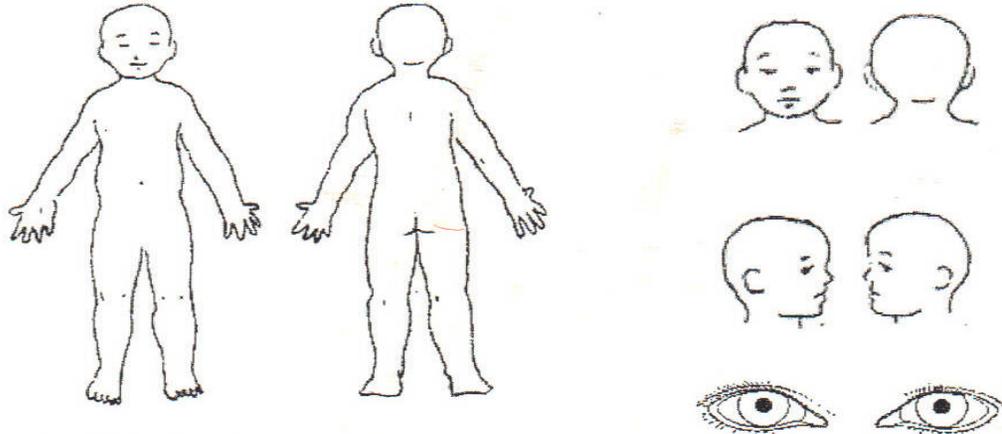
Student Name \_\_\_\_\_ School \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Grade \_\_\_\_\_ or Age \_\_\_\_\_ Name of School Nurse \_\_\_\_\_

**Reason(s) for Referral** (mark all that apply)

- |   |                                     |   |                                      |
|---|-------------------------------------|---|--------------------------------------|
| <input type="checkbox"/> Breathing Difficulty | <input type="checkbox"/> Congestion | <input type="checkbox"/> Cough              | <input type="checkbox"/> Cramps      |
| <input type="checkbox"/> Abrasion             | <input type="checkbox"/> Cut        | <input type="checkbox"/> Tooth/Mouth Injury | <input type="checkbox"/> Ears        |
| <input type="checkbox"/> Eyes                 | <input type="checkbox"/> Fever      | <input type="checkbox"/> Head Injury        | <input type="checkbox"/> Insect Bite |
| <input type="checkbox"/> Nosebleed            | <input type="checkbox"/> Pain       | <input type="checkbox"/> Rash               | <input type="checkbox"/> Sore Throat |
| <input type="checkbox"/> Stomach Ache         | <input type="checkbox"/> Vomiting   | <input type="checkbox"/> Other _____        |                                      |

**Location of Injury/Problem** (indicate on Diagram)



**Location Injury Occurred**

- |   |                                    |                                    |                                      |
|---|------------------------------------|------------------------------------|--------------------------------------|
| <input type="checkbox"/> Playground           | <input type="checkbox"/> Classroom | <input type="checkbox"/> Lunchroom | <input type="checkbox"/> Gym         |
| <input type="checkbox"/> Track/Athletic Field | <input type="checkbox"/> Restroom  | <input type="checkbox"/> Hallway   | <input type="checkbox"/> Other _____ |

**Action Taken** (mark all that apply)

- |   |                                   |  |
|---|-----------------------------------|--|
| <input type="checkbox"/> Rest   | <input type="checkbox"/> Ice Pack | <input type="checkbox"/> Splint            |
| <input type="checkbox"/> Wound Cleaned and band-aid                               | <input type="checkbox"/> Snack    | <input type="checkbox"/> Returned to Class |
| <input type="checkbox"/> Parent Contacted: Name _____                             |                                   | Phone _____                                |
| <input type="checkbox"/> Alternate Emergency Contact Person Contacted: Name _____ |                                   | Phone _____                                |
| <input type="checkbox"/> Referred to Doctor                                       |                                   |  |
| <input type="checkbox"/> Referred to Hospital or Emergency Care Center            |                                   |  |
| <input type="checkbox"/> 911 called -- Response Time _____                        | Transported (circle): Yes or No   |  |
| <input type="checkbox"/> Follow up completed: Date _____                          |                                   |  |

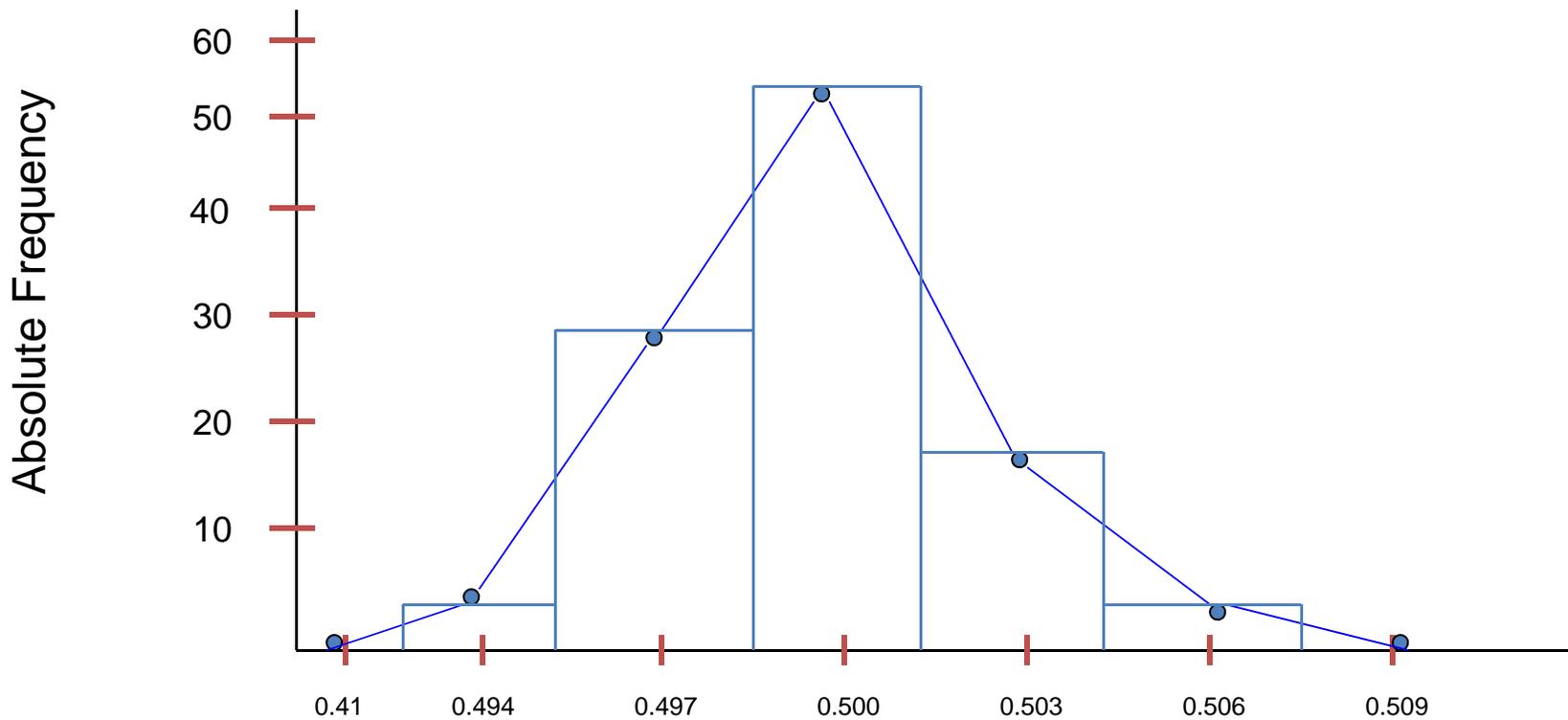
Comments: \_\_\_\_\_

Nurse Signature \_\_\_\_\_

# Grouped Frequency Distribution Table

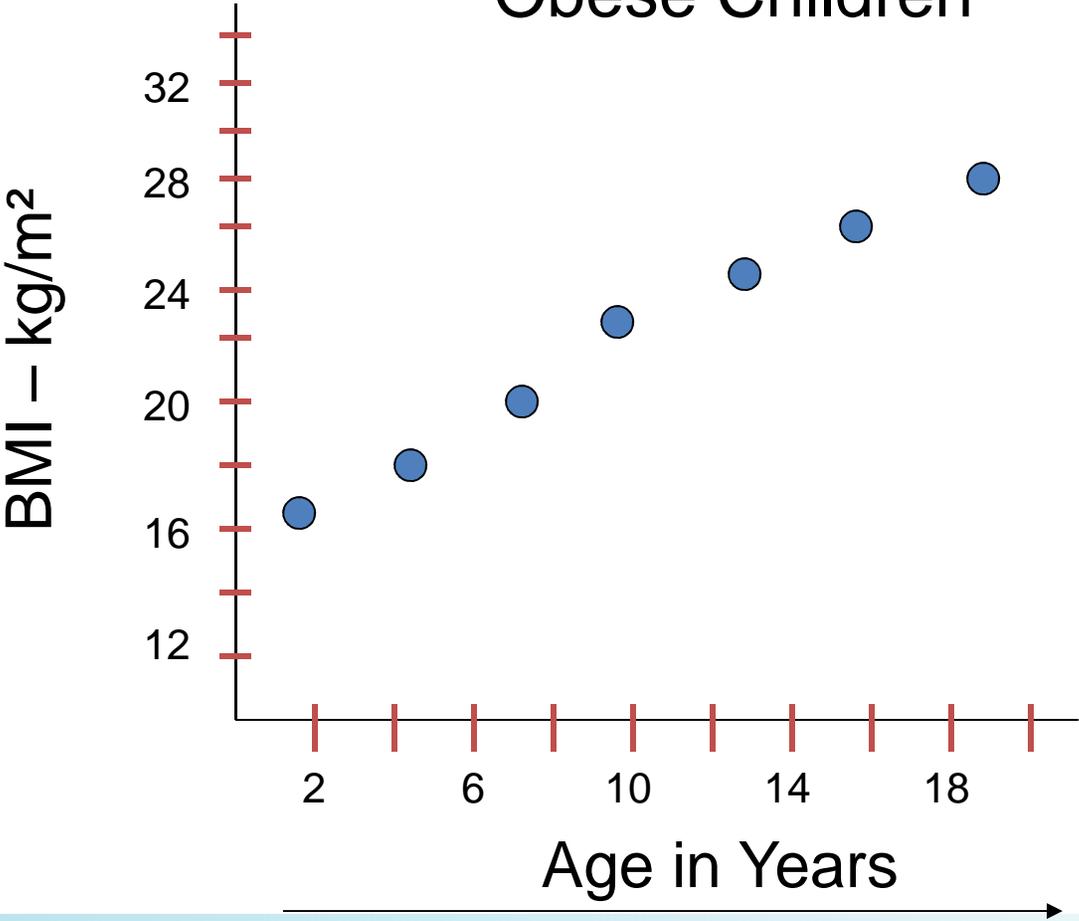
Cell Boundary	Cell Mid-Point	Measured In Inches	Tally	Grouped Absolute Frequency	Absolute Cumulative Frequency	Relative Frequency	Cumulative Relative Frequency
.5075							
.5045	.506	.507					
		.506		3	100	0.01	1.00
		.505			99	0.02	0.99
.5015	.503	.504			97	0.04	0.97
		.503		29	93	0.10	0.93
		.502			83	0.15	0.83
.4985	.500	.501			68	0.18	0.68
		.500		53	50	0.21	0.50
		.499			29	0.14	0.29
		.498			15	0.09	0.15
.4955	.497	.497		14	6	0.04	0.06
		.496			2	0.01	0.02
		.495		1	1	0.01	0.01
.4925	.494	.494					
		.493					

# Frequency Polygon & Histogram – Grouped Data

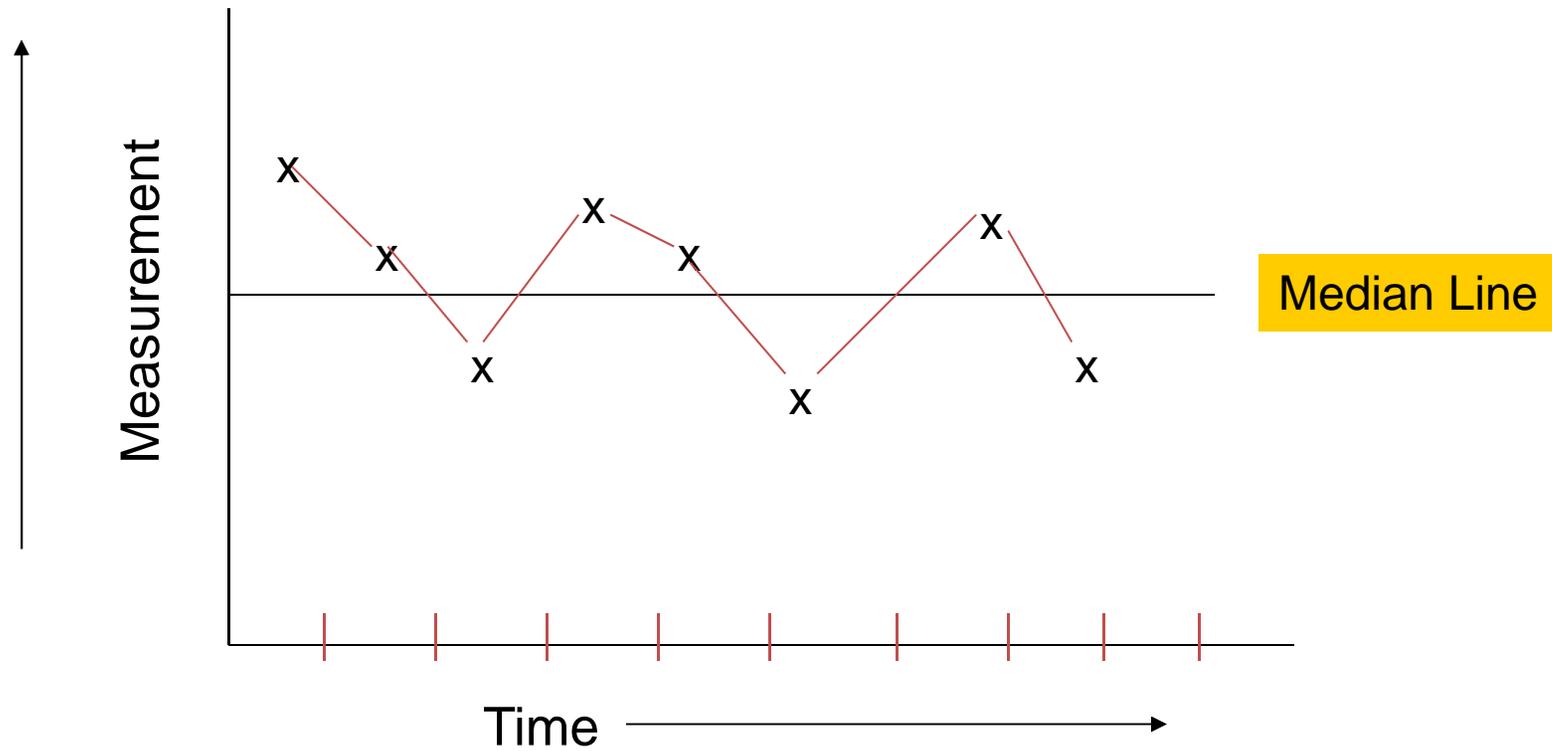


# Scatter Plot

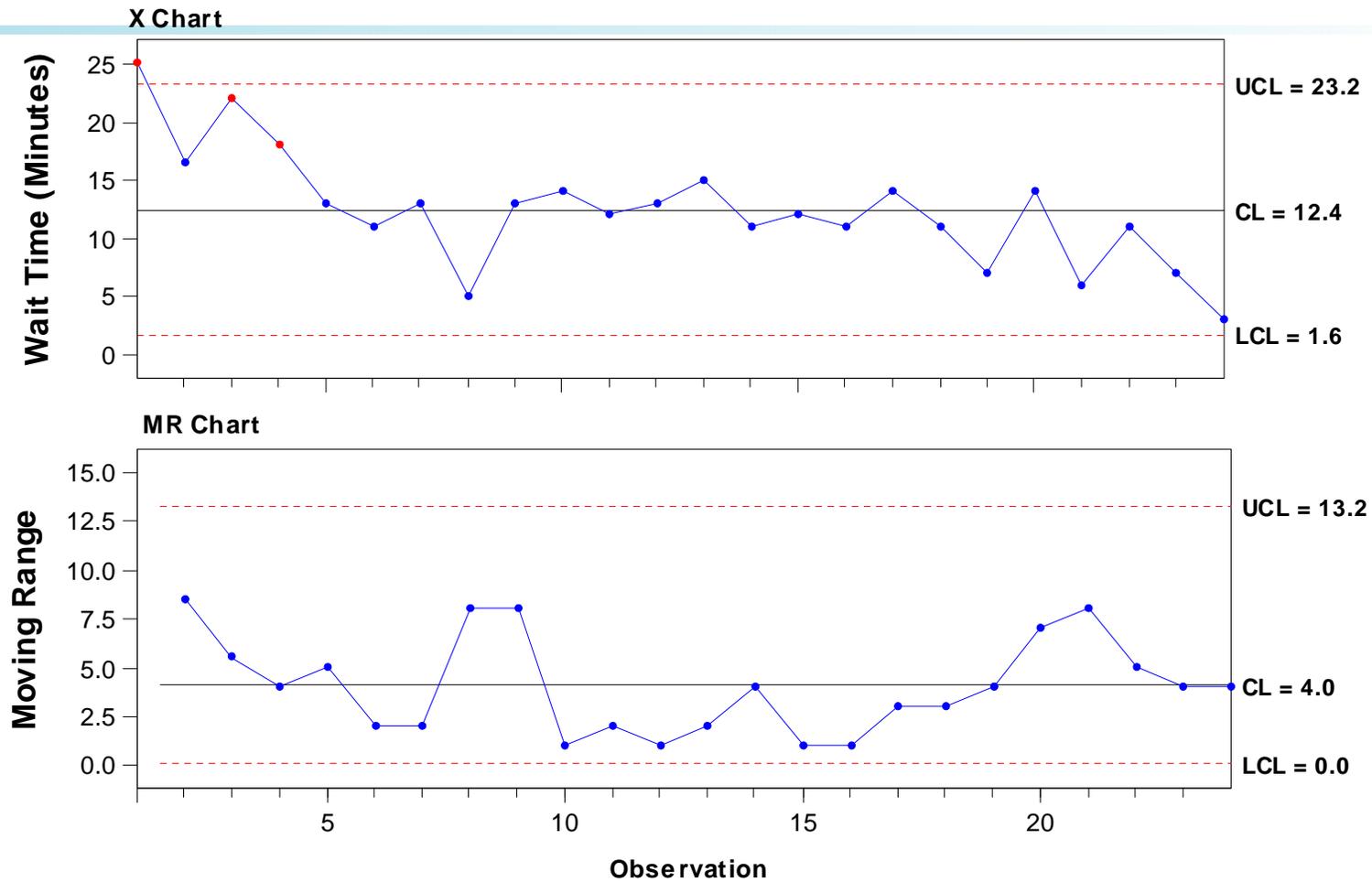
## Obese Children



# Run Chart



## Jones County WIC Lobby Wait Time XMR Chart





## Documenting the Impact of QI

[www.processexcellencenetwork.com/](http://www.processexcellencenetwork.com/)



# Intervention and Impact Form

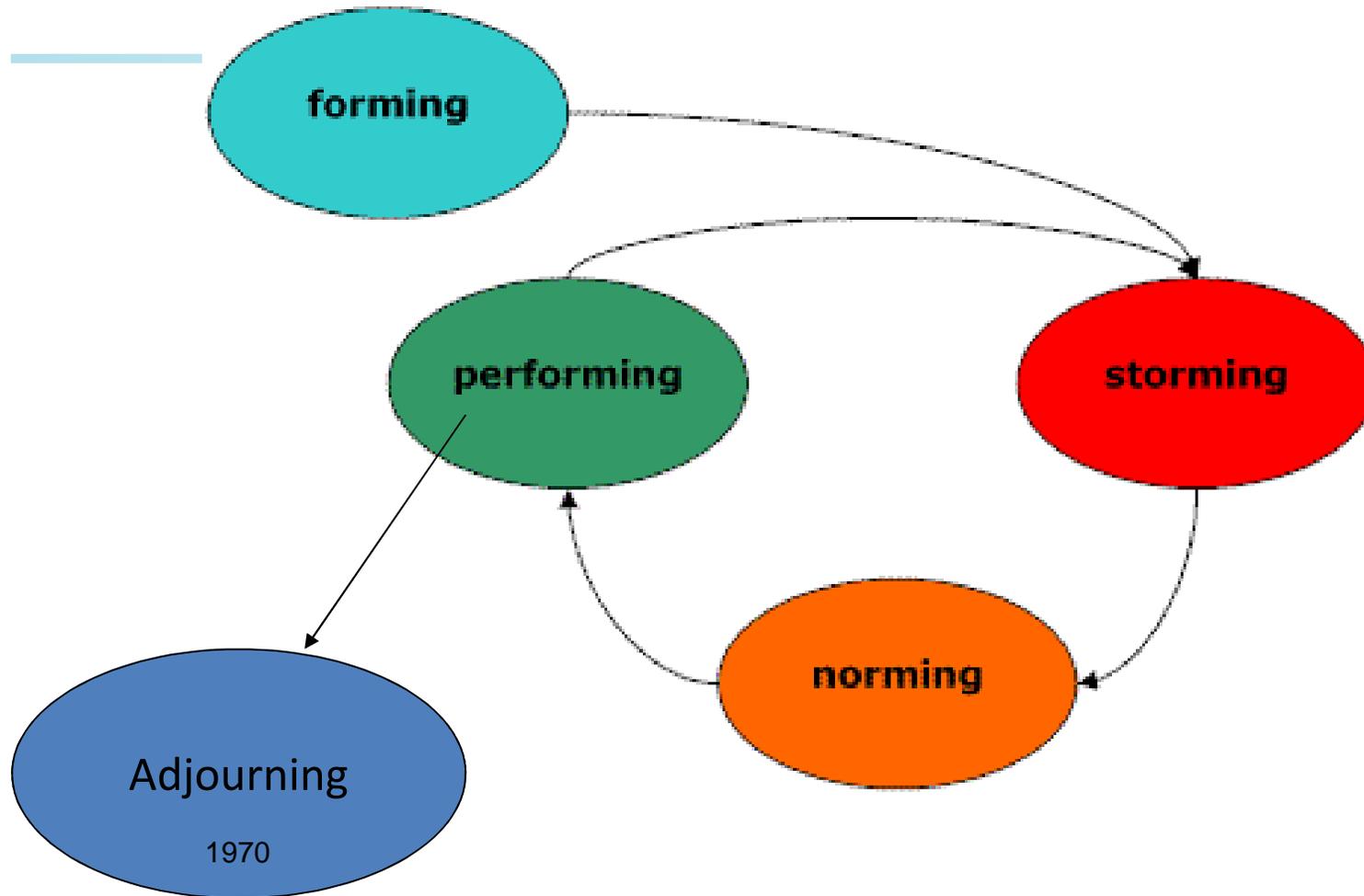
## AIM Statement Description:

1.	2.	3.	4.	5.	6.	7.	8.
<b>Intervention Number</b>	Date	What Was The Change?	How Did It Impact The AIM?	How Did Your Thinking Change?	How Did It Impact Your Procedures?	How Did It Impact Your Customer?	How Do You Know? Measures

The following columns can be added to the Intervention and Impact Form when needed to track the impact of unintended consequences.

9	10	11	12	13	14	15
<b>Unintended Consequence Letter</b>	Unintended Consequence Description	Date It Happened	Impact To Aim Statement	Need a Sub AIM Statement?	Impact to Customer	Modifications Made

# Stages Of Team Development



Bruce Tuckman, 1965



# Stages Of Team Development

---

➤ Each stage has two components that compete with each other:

➤ **Task Focus**

➤ **Team Behavior**

**Applications and Tools for Creating and Sustaining Healthy Teams, Public Health Foundation, April 2011**

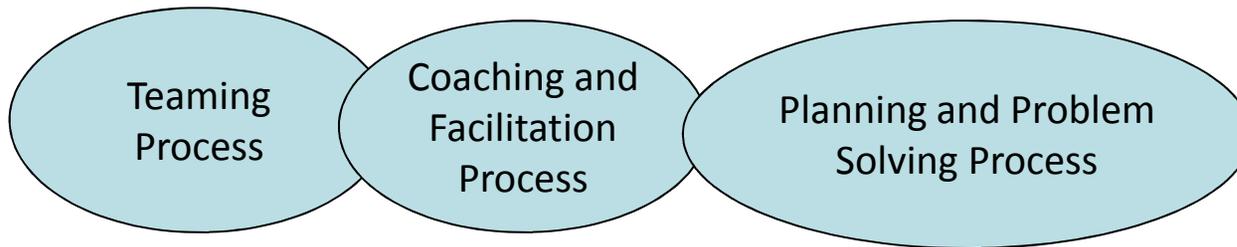
[http://www.phf.org/resourcestools/Pages/Applications\\_and\\_Tools\\_for\\_Creating\\_and\\_Sustaining\\_Healthy\\_Teams.aspx](http://www.phf.org/resourcestools/Pages/Applications_and_Tools_for_Creating_and_Sustaining_Healthy_Teams.aspx)





# Three Step Process for Healthy Teams

---





# Top Ten Reasons Teams Fail

---

1. AIM Statement
  2. Team Charter
  3. Team Members
  4. Problem Solving Process
  5. Rapid Cycle
  6. Team Maturity
  7. Base Line Data
  8. Training
  9. Root Cause Analysis (RCA)
  10. Pilot Testing
-

## Helpful Resources

- **Public Health Improvement Resource Center:** <http://www.phf.org/improvement>
- **NPHPSP Online Resource Center:** <http://www.phf.org/nphpsp>
- **QI Results Resources:** <http://www.phf.org/QualityImprovementResults/>
- **QI Quick Guide & Tutorial:** <http://www.phf.org/quickguide/>
- **PHF QI Learning Series and Assistance:** <http://www.phf.org/QIservices>
- **Accreditation Preparation Resources (Domains 8 & 9):** <http://www.phf.org/Accreditation>
- **Public Health Quality Improvement Handbook and Other QI Resources:** <http://bookstore.phf.org/index.php?cPath=50>
- **TRAIN – 25,000 public health courses offered by more than 4,000 providers:** <https://www.train.org/>



---

**Thank you for your time and attention**

**Questions?**

---