

# DEFINE PHASE



# Learning Objectives: Define Phase

- Understand the tools necessary to complete the Define Phase.
- Collect and analyze Voice of the Customer data to assist in understanding the problem.
- Complete a SIPOC analysis to define inputs and outputs of the process.
- Prepare an Event or Project Charter with input from project sponsor and team.
- Develop a Communication Plan that informs all Stakeholders.

“Knowing that things could be worse should not stop us from trying to make things better.” - Anonymous



# DMAIC Methodology

**Define**

➤ **IDENTIFY OPPORTUNITY**



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**Measure**

➤ **DESCRIBE AS-IS CONDITION**



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**Analyze**

➤ **IDENTIFY KEY CAUSES**



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**Improve**

➤ **PROPOSE & IMPLEMENT SOLUTIONS**



Tollgate Review

**Control**

➤ **SUSTAIN THE GAIN**



Tollgate Review

**Validate & Replicate Changes**



# Voice of the Customer



# What is a Customer?

The customer is whoever receives the outputs from the process, product, or service that a project will be improving.

“Quality in a service or product is not what you put into it, it is what the client or customer gets out of it.” – Peter Drucker



# Who Are Your Customers?



## ➤ External Customers

- Those persons or organizations which purchase/obtain your products or services.

## ➤ Internal Customers

- Whomever is a user of your process output within your organization is an internal customer.

# Voice of the Customer (VOC)



- Why is VOC critical?
- How is VOC data gathered?
- How is VOC data analyzed?

“There is only one boss, the customer. And they can fire everybody in the company from the chairman on down, simply by spending their money somewhere else.” – Sam Walton



## Reactive Sources

- Customer complaints
  - phone
  - email
  - social media
  - Yelp, Four Square, (reviews)
- Warranty issues
- Stop being a customer





## Proactive Sources

- Surveys
- Direct Contact
- Focus Groups

A proactive approach to VOC is essential to quality in your products and services.



# Capturing Voice of the Customer (VOC)

In determining the VOC, we have to translate the customers' needs and wants into measurable requirements (qualitative to quantitative).



Source: ASQ LSS Training Material



# VOC Tools - Direct Customer Contact

- In customer-focused organizations, key employees often make personal visits to customers.
- Does not always require a face-to-face visit.



# VOC Tools - Field Intelligence

- Any employee who comes into direct contact with customers can obtain useful information by engaging in conversation and listening to customers.
- You gather information which are your customers needs and specifications.



# VOC Tools - Customer Feedback

- Can be a key source of customer information.
- Allows an organization to learn about external product and service problem defects.
- Potentially identify the gaps between expectations and performance.



# VOC Tools - Focus Groups

- A panel of individuals (customers or non-customers) who answer questions about a company's products and services.
- Substantial advantage by providing a direct voice of the customer to an organization.
- Disadvantage is that they are higher cost than other methods.



# VOC Tools - Comment Cards & Formal Surveys

- Easy ways to solicit customer information.
- Gain candid feedback about products and services.
- Response rate is often poor.

	V good Good Average Poor	Any other Comments / Suggestions
Quality of Food	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Cleanliness of Restaurant	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Quality of Service	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Friendliness of Staff	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	_____
Speed of Service	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	(Optional)
Appearance of Staff	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Name _____
Value for Money	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Tel _____
Restaurant Design	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Workplace _____



# Analyze and Translate VOC into Requirements

Voice of the Customer	After Clarifying, the Key Issue(s) Is...	Customer(s) Requirements
"I hate filling out this form!"	The form takes too long to fill out	The form takes less than five minutes to complete

## Good customer requirements:

- Are specific and measurable (and the method of measurement is specific).
- Are related directly to an attribute of the product or service.
- Don't have alternatives and don't bias the design toward a particular approach or technology.
- Are complete and unambiguous.
- Describe what, not how.

**"If you can't explain it simply, you don't understand it well enough." – Albert Einstein**





# Translate VOC Input Into Customer Requirements

Voice of Customer Input	Key Customer Issue	Customer Requirement
<p><b>Actual Customer Statements and Comments</b></p>	<p><b>The Real Customer Concerns, Values or Expectations</b></p>	<p><b>The Specific, Precise and Measurable Characteristic</b></p>
<ul style="list-style-type: none"> <li>• “This mower should be easy to start.”</li> <li>• “The cord shouldn’t be too hard to pull.”</li> </ul>	<p>Wants the mower to start quickly and painlessly.</p>	<ul style="list-style-type: none"> <li>• Mower starts within two pulls on the cord.</li> <li>• Mower starts with an effortless pull on the cord.</li> </ul>
<p>“I want to talk to the right person and don’t want to wait on hold too long.”</p>	<p>Wants to talk to the right person quickly.</p>	<ul style="list-style-type: none"> <li>• No additional menu items on voice system.</li> <li>• Customer reaches correct person the first time within 30 seconds.</li> </ul>



# VOC Statapult Exercise

Voice of the Customer Internal/External	Key Customer Issue	Customer Requirement
<i>What does the customer want from us?</i>	<i>Identify the issue(s) that prevent us from satisfying our customer</i>	<i>Summarize key issues and translate them into specific and measurable requirements (Critical to the Process: CTP; Critical to the Cost CTC; Critical to Quality CTQ; etc.)</i>
<b>Wants a ball fired at a 167 Degrees</b>	<b>Customer requires us to shoot balls from 167 degrees</b>	<b>Shooter will ensure balls are fired at 167 degrees. (CTC, CTD, CTP, CTQ)</b>
<b>The Customer requires 30 passed balls in a timely manner</b>	<b>The Customer requires 30 passed balls in 5 minutes or less</b>	<b>Customer Liaison will provide balls within 5 minutes or less to the customer. (CTC, CTD, CTP)</b>
<b>Customer does not want markings on the balls</b>	<b>When the customer receives balls with markers, they will be rejected</b>	<b>All markings will be removed prior to delivery to the customer. (CTC, CTD, CTP, CTQ)</b>



**What is the purpose of determining the Voice of the Customer (VOC)?**



**How can Voice of the Customer data be captured?**



# SIPOC



# Why SIPOC?

Serves two purposes:

- Defines the scope.
  - Helps a team and its sponsor(s) agree on project **scope boundaries** - start and end points of the process.
- Helps teams **verify that process inputs match outputs** of the upstream process and inputs / expectations of downstream process(es).



# What is SIPOC?

- A process snapshot that captures information to a project.



- SIPOC stands for:

Suppliers Inputs Process Outputs Customers

- Identifies all relevant factors of a process before detailed project work begins.
- Sets expectations for elements of the process that project team must consider.
- Distinguishes key suppliers and customers of the process.



# SIPOC Elements

- **Suppliers** – the internal / external people or organizations that provide materials, information, or other resources for a process.
- **Inputs** – the resources that are supplied.
- **Process** – the series of **high-level** work steps that transform inputs to outputs.
- **Outputs** – the product, service, or information that is delivered to the customer.
- **Customers** – the people, organizations, or process that receive the output. External and Internal Customers.





# Developing a SIPOC Chart

Process Name **1** What is the Process?

<b>S</b> uppliers	<b>I</b> nputs	<b>P</b> rocess	<b>O</b> utputs	<b>C</b> ustomers
<b>6</b> Who Supplies it?	<b>5</b> What do we need to consume?	<b>4</b> How do we produce it?	<b>3</b> What do they get?	<b>2</b> Who's the Customer?

Entries are not linear



# Customers (& Suppliers)

– **External Customers & Suppliers:** Those persons or organizations which provide or purchase your products or services.

- Tenant Commands
- HQ Elements
- Other Services
- Other Agencies

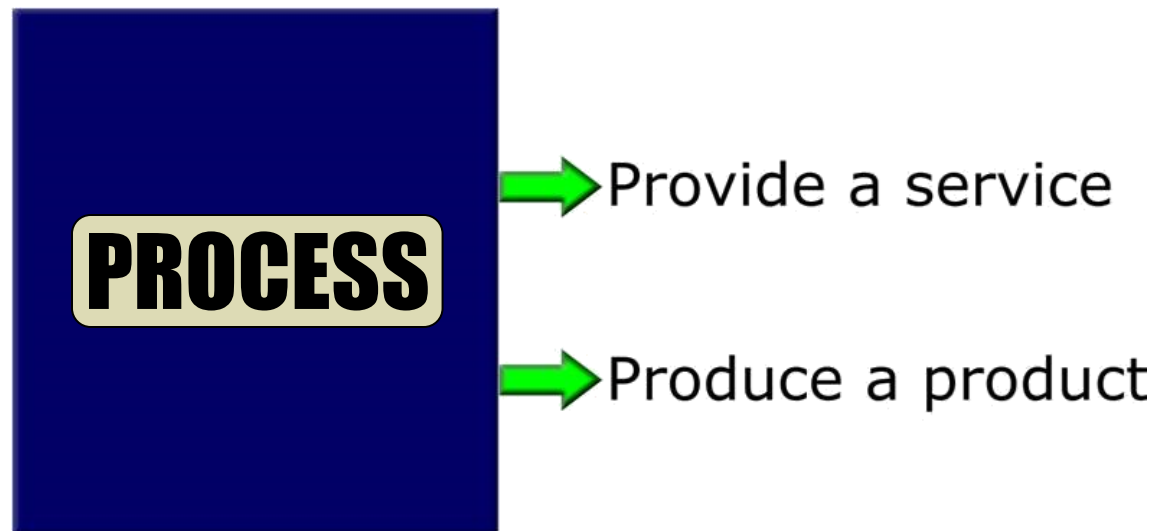
– **Internal Customers & Suppliers:** Whomever is a receiver / user of your process output is an internal supplier / customer.

- Commander
- Chief of Staff
- G-7 Leaders
- Divisions and Sections within a Command



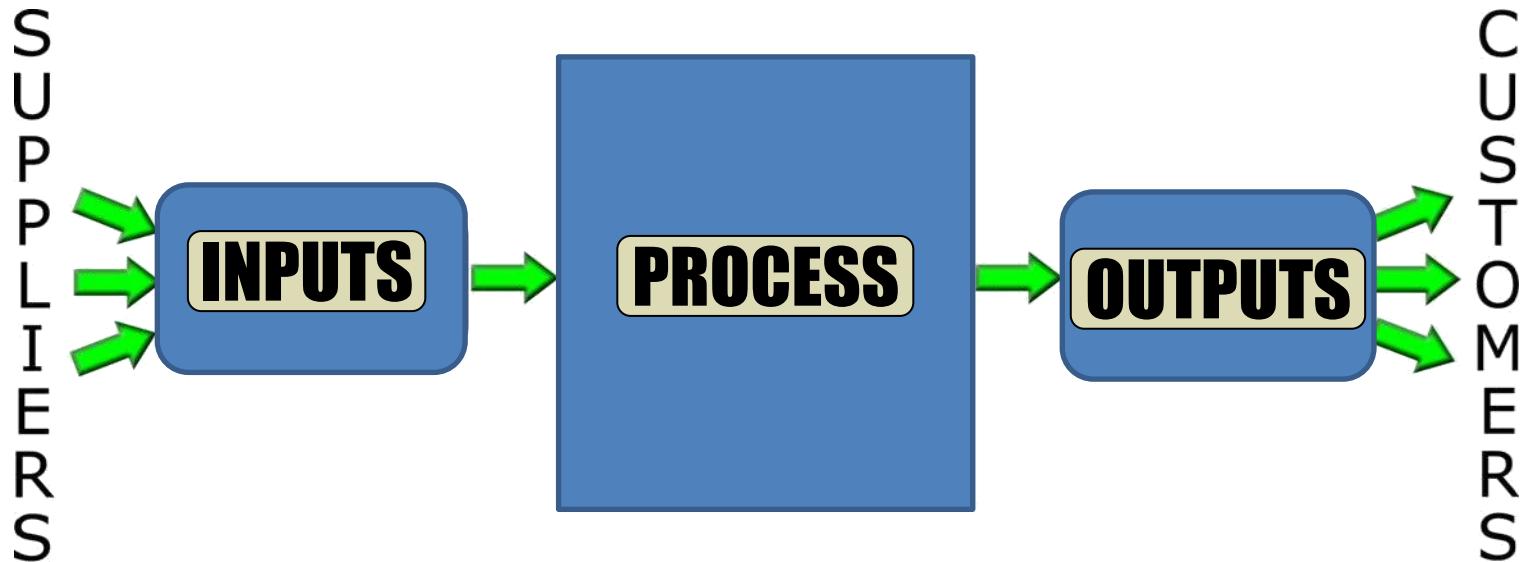
# Process Outputs

- Tangible products or services.
- Linked to the (Customer care-about) measures as defined by the customer.



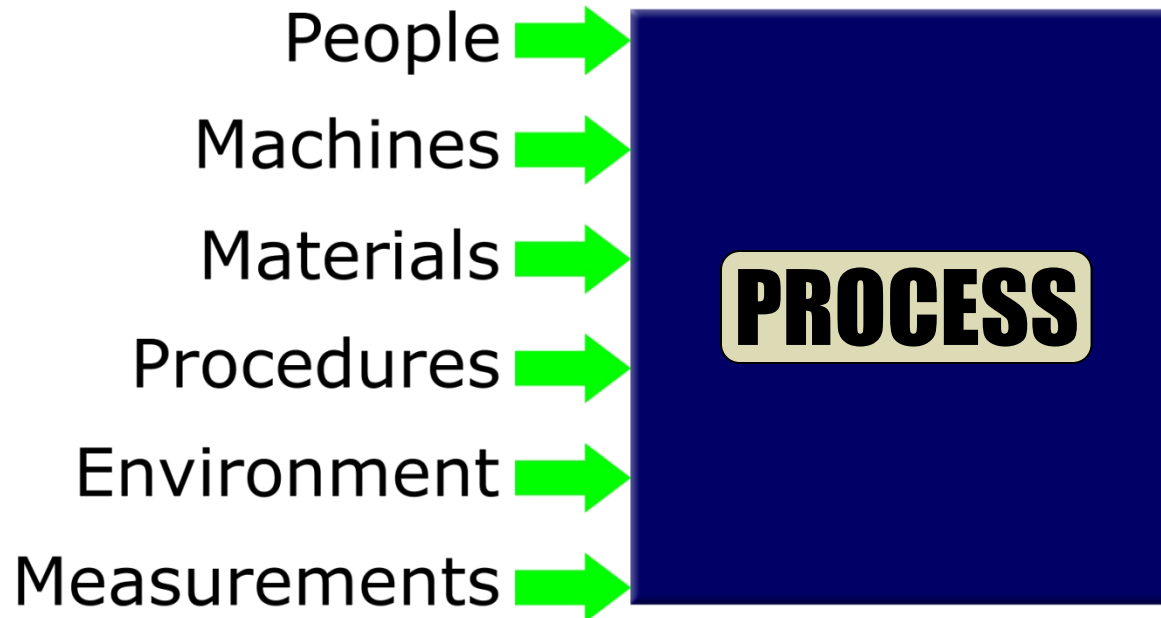
# What is a Process?

- A process is any activity that takes inputs, performs actions on the inputs, and results in outputs.
- A SIPOC defines the inputs the process receives and the outputs that a process delivers.

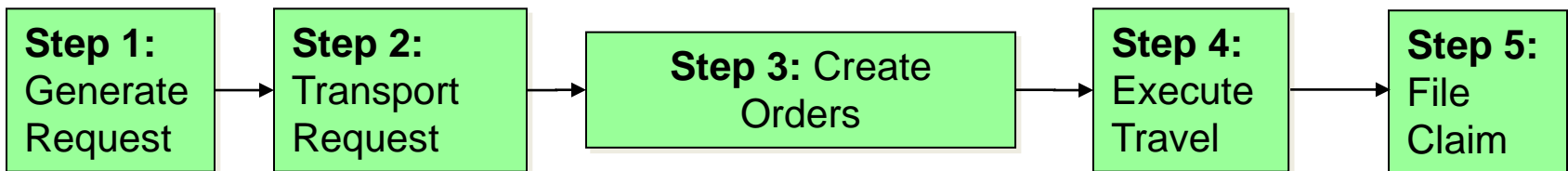
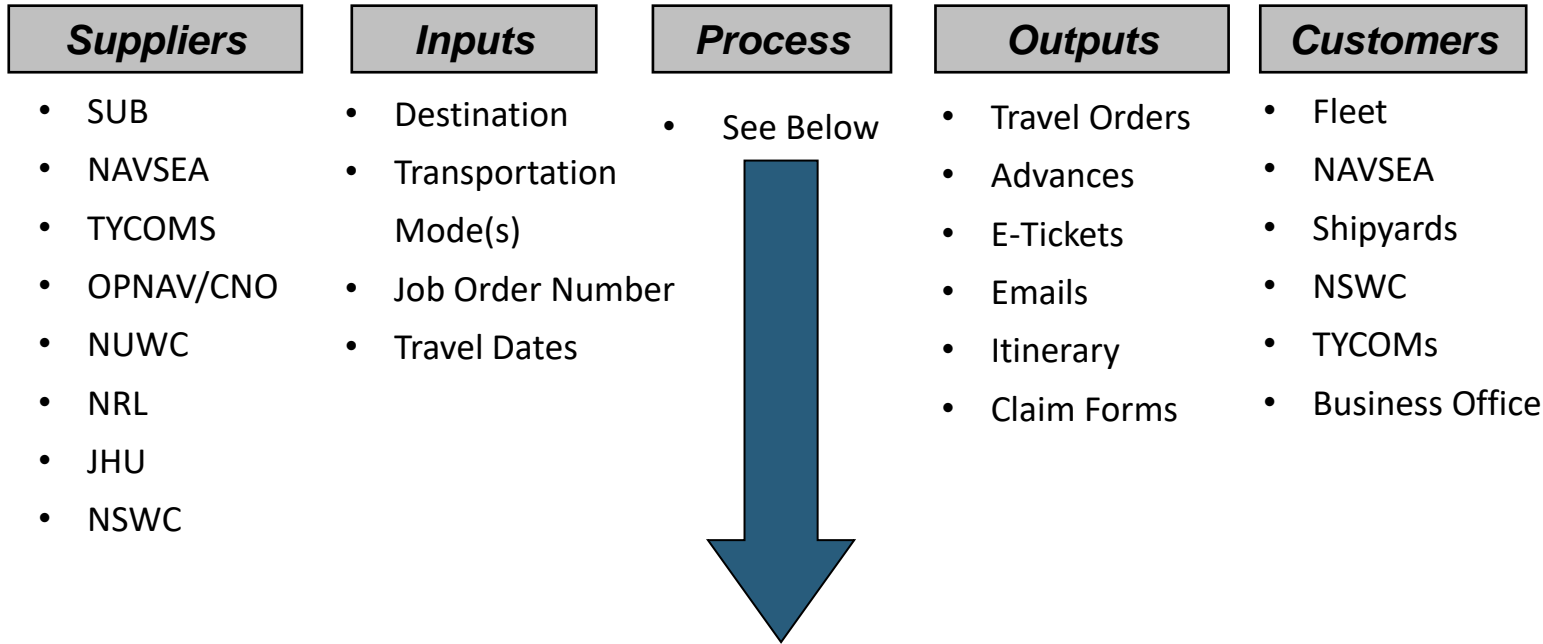


# Process Inputs

Inputs are the resources that are required to create outputs.



# SIPOC Example: Processing a Travel Request



# Knowledge Check: SIPOC

**What does SIPOC stand for?**



**What information does a SIPOC Diagram give a team?**





# Charter




# Charter Defined

- The team's commencement document.
- Defines the team's project plan and mission.
- **The charter does not solve the problem.**
- Charters are living documents that are subject to change.



# USMC Charter Template

	<b>Project Charter</b> <b>Organization Name</b> <b>Project Title</b>	<b>Date Initiated:</b> <b>Revision Date:</b>
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## 1. Project Information

Deployment or Implementation Champion:	Project <input type="checkbox"/> Just Do It <input type="checkbox"/> RIE <input type="checkbox"/> Other <input type="checkbox"/>
Project Sponsor:	Value Stream/HICVS:
Estimated Start Date:	Project ID #:
Estimated End Date:	Parent Project ID #:

## 2. Problem Statement

**Problem Statement**

## 3. Goal Statement

**Goal Statement**

## 4. Project Scope

<b>In Scope ...</b>	<b>Out of Scope ...</b>
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**Scope**

## 5. Team Members

Name	Role	Organization

## 6. Approvals/Signatures

	Signature	Date
Black Belt/Green Belt		
Project Sponsor		
Deployment/Implementation Champion		



# Why a Charter is Important

- Is the foundation document to provide focus throughout the project.
- Serves as an effective project-planning tool and communication vehicle for tollgates and stakeholders.
- Is a key factor for project success or failure and avoids misunderstanding among stakeholders.
- Provides the authority to apply organizational resources to project activities.



# Improvement Opportunity / Problem Statements

Improvement opportunity / problem statements should provide the following information:

**WHAT**

What is the problem or opportunity for improvement?

**WHERE**

Where is the problem? Is it in your workplace or someone else's?

**WHEN**

How long has it been happening?

**EXTENT**

What is the extent of the problem?

**IMPACT**

What is the impact (pain) of the problem?

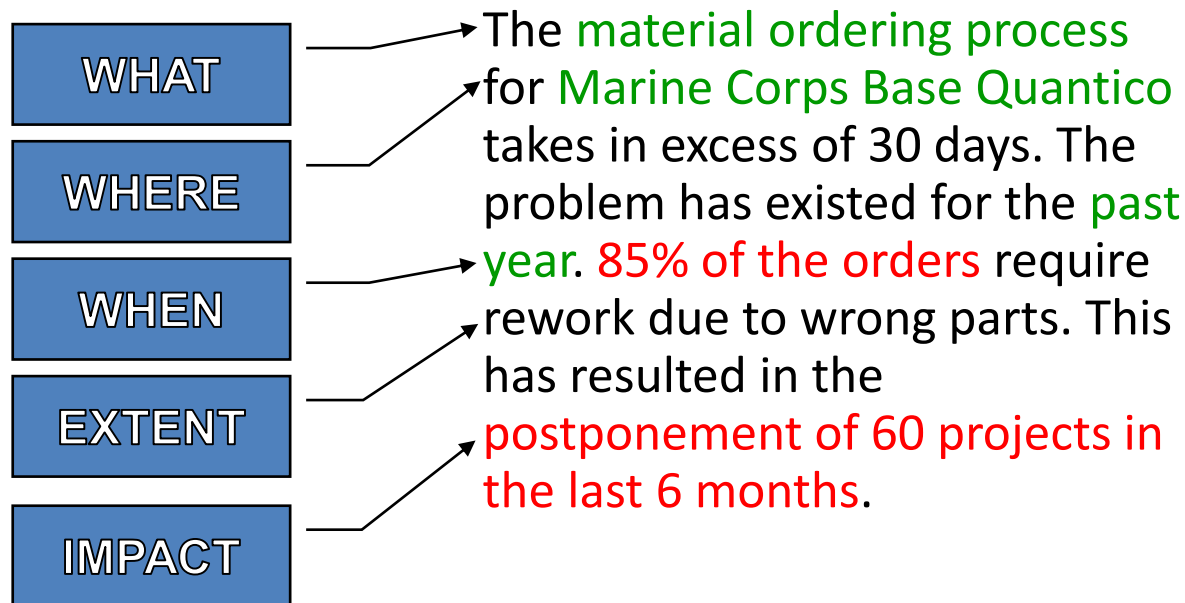


# Improvement Opportunity / Problem Statements

## Example of a bad opportunity or problem statement.

It takes too long to process a material order form and wrong parts are ordered.

## Example of a better opportunity or problem statement.



# Goal Statement

The goal statement describes the anticipated improvement.

It should be worded in concise terms. Creating a good goal statement is easy if you follow the SMART acronym:

SPECIFIC

MEASURABLE

ACHIEVABLE

REALISTIC

TIME  
BOUND



# Goal Statement - Example

To improve the **material ordering process** for **Marine Corps Base Quantico** by reducing the number of **orders requiring rework by 75%**, as well as reducing the **number of project postponements by 50%** over the next **6 months**.

Goal Statement should directly relate to the Opportunity / Problem Statement.




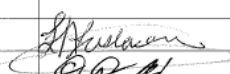
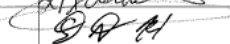



# Project Scope

- The project scope is:
  - Exactly what is included within the project.
    - Boundaries are 1<sup>st</sup> step to n<sup>th</sup> step.
- The project scope isn't:
  - Everything else.
- The scope purpose:
  - Provides an awareness of the specific boundaries of your improvement opportunity.
- Process maps can help define the scope of an event / project (Reference the SIPOC).



# Completed Charter - Example

	<b>Project Charter</b> Navy Movie Program	Date Initiated: Jan 10, 2019 Revision Date:
<b>1. Project Information</b>		
Project Champion: Cpl Hancock	Project <input checked="" type="checkbox"/> RIE <input type="checkbox"/>	Just Do It <input type="checkbox"/> Other <input type="checkbox"/>
Project Sponsor: Lisset Justason	Value Stream/HICVS:	
Estimated Start Date: Jan 10, 2019	Project CPIMS ID #:	
Estimated End Date: Mar 12, 2019	Parent Project CPIMS ID #:	
<b>2. Problem Statement</b>		
The Navy Movie Program checkout process for the Reserve Support Unit is not well organized and takes an excess time of 40 minutes instead of regularly 15 minutes. The problem has existed for the past year. Requires weekly inventory due to misplacing movies in the wrong box. We have 741 movies, and about 82 are misplaced which is about 11% weekly. This has required an unnecessary inventory and delay in checking out process to the marines.		
<b>2. RIE Goal Statement</b>		
To improve the Navy Movie Program for the Reserve Support Unit by reducing inventory rework by 80%, as well as improved organization and time in executing the checkout process of the program.		
<b>4. Project Scope</b>		
(in Scope) S-Drive maintained up to date with movie listing		(out of scope) Communication amongst the staff.
<b>5. Team Members</b>		
<b>Name</b>	<b>Role</b>	<b>Organization/Signature</b>
Lisset Justason	Project Supervisor	RSU
Cpl Hancock, Dustin	Coordinator	RSU
<b>6. Approvals/Signatures</b>		
<b>Role/Name</b>	<b>Signature</b>	<b>Date</b>
Black Belt: Frank Fiermonte		
Green Belt:		
Project Sponsor: Lisset Justason		3/11/19
Project Champion: Cpl Dustin Hancock		03/11/19

	Project Charter [Enter Project Name]	Date Initiated: Revision Date:
<p><b>(1). The Project Sponsor's signature is an agreement to: 1) Provide sufficient resources to support completion of the plan, 2) Help provide data and insight as required, 3) Coordinate with required leadership to approve recommendations in a timely manner, 4) Assist with implementation of recommendations, following approval, 5) Sustain improvements and financial gains, and 6) Be available to discuss and rectify any concerns and remove barriers to success.</b></p> <p><b>(2). The Champion's signature is an agreement to: 1) Assure sufficient resources are available to support completion of the plan, 2) Assist, as required to remove obstacles to project success, 3) Monitor progress through (tollgate) reviews, 4) Support implementation and sustainment of gains from individual projects/events, 5) As available, participate in any team activity to show support and provide guidance or input as required.</b></p>		



# Exercise: Charter

At your seat and on your own develop the  
Problem Statement and Goal Statement

WHAT

WHERE

WHEN

EXTENT

IMPACT

SPECIFIC

MEASURABLE

ACHIEVABLE

REALISTIC

TIME  
BOUND

Instructions: Develop your Problem, Goal and Scope Statement  
Write each statement at your desk  
Be prepared to share with your team



**5 minutes**



# Knowledge Check: Problem Statement

**The Problem or Opportunity statement on a project charter should be as quantifiable as possible.**

**True or False?**



## What are the 5 Characteristics of SMART goals?



# Communication Plan



# Communication Plan Development

1. Determine audience.
2. Conduct Stakeholder Analysis.
3. Identify media to be used.



# How Will You Communicate?

**The best way to identify and communicate with your team, key stakeholders and event champion is to answer questions such as:**

- Who is your audience?
- What is the tool or media you will use to communicate?
- What is the purpose of your communication?
- What are your key messages?
- Who is the owner of the communications task?
- What is the timing and frequency of the communications?





# Determine Audience and Media

**Identify the various audiences you will need to communicate to:**

Executive Team	Managers	Administration
Risk Management	Sales	Marketing
HR	Consumer Relations	Engineering
Finance	Legal	Customers
Salaried	Hourly	Marketplace
South America	Distributors	Europe
Asia	North America	

**Identify the media by which you will communicate to the groups above:**

Voice Mail	Formal Presentations	Posters
Memos	Oral Communication	E-Mail
Elevator Speech	MCBQ SharePoint	



# Communication Plan Development

1. Determine audience.
2. Conduct Stakeholder Analysis.
3. Identify media to be used.



# Conducting the Stakeholder Analysis

- For each Stakeholder identified, determine:
  - Are they critical for development of project tasks (enabling stakeholders) or critical for the successful implementation of a solution (implementation stakeholders)?
  - What concerns can you anticipate for each stakeholder?
  - What positive outcomes exist for each stakeholder?
  - What will be your message for each stakeholder?
- A Stakeholder Analysis should be completed / revised as **critical aspects of the project change** (i.e. scope changes, solution options become more visible, etc.).
- A Stakeholder Analysis can be a sensitive document and **is intended for internal team use only.**



# Example: Stakeholder Analysis

Stakeholder Name/Group	Project Impact On Stakeholder (H, M, L)	Stakeholder Level of Influence on Success of Project (H,M,L)	Stakeholder's Current Attitude Toward Project ( +, 0, - )	Explanation of Current Stakeholder Attitude (list)	Stakeholder Score (H=3, M=2, L=1, +=1, 0=2, -=3)	Action Plan For Stakeholder
Team Lead	M	H	+	ON-BOARD	6	MONTHLY UPDATE
Engineering Dept. Head	H	H	-	DEFENSIVE	9	SEPARATE BRIEF & FOLLOW-UP
Program Manager	M	H	+	ON-BOARD	6	WEEKLY UPDATE (E-MAIL)
Comptroller	L	L	0	UNKNOWN	4	TOLLGATES
Contracting Officer	H	M	0	WAIT & SEE	7	WEEKLY FACE-TO-FACE
Prime Contractor	H	L	+	ON-BOARD	5	INITIAL/ MONTHLY



# Communication Plan Development

1. Determine audience.
2. Conduct Stakeholder Analysis.
3. Identify media to be used.



## Effective Communications

### ➤ **Must have the following characteristics:**

- A consistent formal process.
- Simple and understood by all.
- Contain current information.
- Have a feedback loop built into the process.

### ➤ **Benefits:**

- Build and maintain trust.
- Prevent rumors.
- Enlist and enroll the participation of employees in the pursuit of achieving objectives.
- **Manage expectations**



# Complete Communication Plan

- Comes in many forms, but key elements include:
  - **Target** of communication.
  - **Frequency** of communication.
  - **Media** to be used.
- Be specific:
  - *Example 1:* A 30 minute verbal conversation, every Friday at 4 p.m., including topics ...
  - *Example 2:* A weekly written update, to be completed by Friday end-of-day, to include, a) Activities completed this past week, b) activities to be completed next week, c) current risk to on-time, on-budget completion, and d) action plan to resolve risks.
- Revise, as necessary, as project matures.
- Obtain agreements from those who have required tasks



# Communication Plan (Example)

Audience	Media	Purpose	Topics of Discussion/ Key Messages	Owner	Frequency	Notes/Status
Affected Functional Managers	Briefing E-mail	Support/ Remove Barriers	Team Status Expected Outcomes	Team Leader, Green Belt	Weekly	
Project Sponsor	Briefing	Buy-in Solicit Feedback	Support Needed Status	Team Leader, Green Belt	Monthly	
All Hands	E-mail	Awareness Buy-in	"What" Progress	Project Sponsor	Kick-off After M and I	
Exec Sponsors & Deployment Champion	E-mail With Attachments	Report Progress Barrier Removal	Project Schedule Expected Outcomes	GB	Each DMAIC Phase As Needed	

Source: ASQ LSS Training Material





# Exercise: Communication Plan

Break into Simulation teams and create a Communication Plan for your Statapult process.

Audience	Media	Purpose	Topics of Discussion / Key Messages	Owner	Frequency	Notes / Status
Area Supervisors	PowerPoint Brief	Support, Remove Barriers	Project Status, POAM & Expected Changes	Team Leader, Green Belt	Weekly	Keep the brief short

Instructions: Use your Communication Plan Board  
Identify 3 audiences that will receive communications  
Complete all the columns  
Use Expo markers and write BIG



**15 minutes**



**What are the steps used to develop a Communication Plan?**



## What are the characteristics of an effective Communication Plan?



**What are the benefits of an effective Communication Plan?**



# Develop/Execute Plans



# Types of Improvement Opportunities

Name	Duration	Scope of Change	Size of Team	Time to Implement
<b>Just Do It</b>	1 – 2 Days	Solution ready to implement – problem well defined	Project Sponsor	Immediate
<b>Kaizen / Rapid Improvement Event (RIE)</b>	3 – 5 Days	Short term, high intensity effort to address a specific problem	4 – 12 (Full-Time During Event)	Immediate to Short Term
<b>Project</b>	3 – 6 Months	Complex problem, no apparent root cause	3 – 15 (Part-Time)	Mid to Long Term



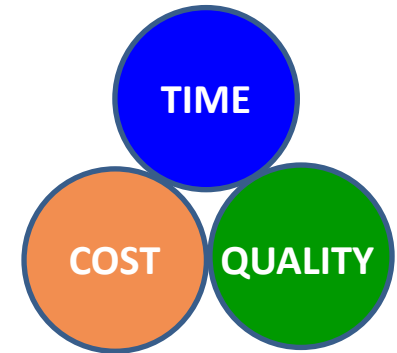
# Top Down Identification

Senior managers will typically use the Top Down approach to target value streams for analysis.

## *As a Green Belt, what should I expect?*

Events / Projects are selected:

- To improve cycle or lead time.
- To perform at higher levels and with superior quality.
- To reduce costs.
- To situate the business for the future.
- To improve throughput.



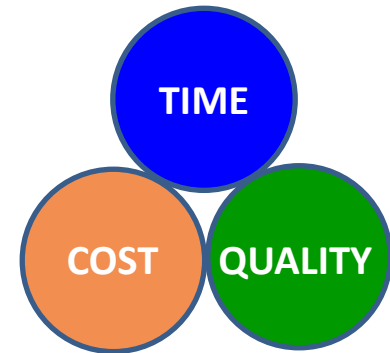
Senior management will need your expertise for process improvement efforts and project / event success.

# Bottom Up Identification

## *What should I be doing in my work area?*

Based on the training, look for “low hanging fruit” around your work area.

- Bottlenecks (Inventory)
- Poor quality
- High rework / redo rate
- Confusion
- Redundancy



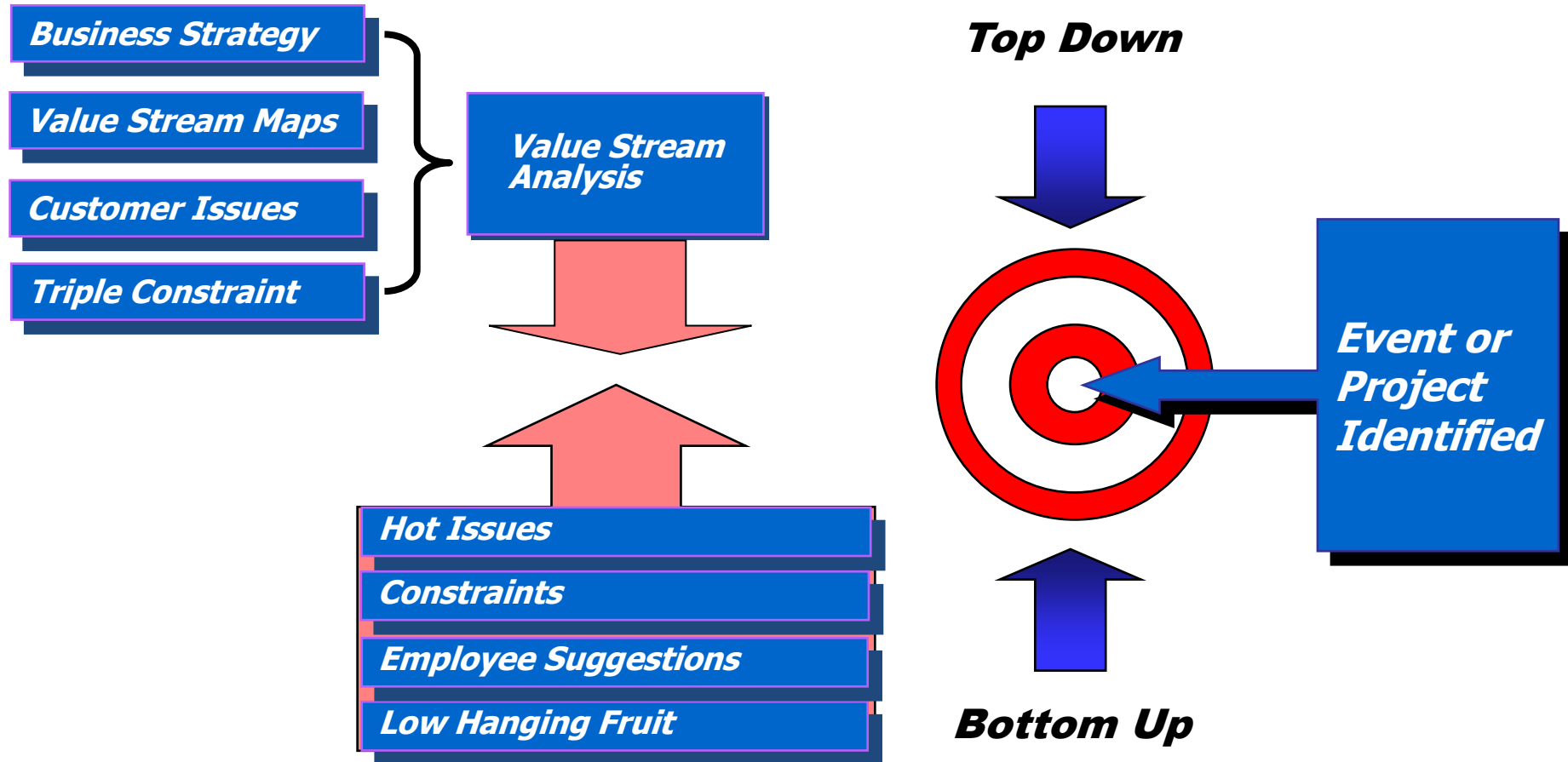
Identify processes that can be done better.

Identify your internal / external customers.

- What are their expectations?
- Would you be satisfied if you were in their shoes?



# Identification of Improvement Opportunities



# Why a Project and not a Kaizen/RIE?

A project is chosen because of one or more of the following reasons:

- Significant or unexplained variation in the process.
- **Root cause of major problem not readily apparent.**
- Complex problem.
- Significant quality problem.
- Test failures without obvious cause.
- Significant data analysis required to understand problem.



## Define (Prep Phase)

- Clearly define the Kaizen / RIE objective.
- Pre-Event prep:  
Select team members, perform logistics, notifications, collect data, and prepare training.

## Measure (Prep Phase or Monday of Event)

- Validate the value-stream map of the process.
- Complete a resource flow layout for all operations or tasks if necessary (people, paper, material, information).
- Carefully observe then collect needed metrics for tasks or steps in the selected process.



# Kaizen / RIE Follows the DMAIC Structure (Cont.)

## Analyze (Tuesday-Wednesday)

- Quickly validate root causes and identify/review sources of waste.
- Review waste elimination techniques and brainstorm process improvements for reducing variation.

## Improve (Wednesday-Friday)

- Create action item list to accomplish improvements.
- Implement process improvements, train employees, test, fine-tune, and insure the process is capable.

## Control (Thursday-Friday)

- Create Standard Operating Procedures to document and sustain improvements.
- Present results to Management Team, complete follow-up, and monitor results over time.



# Kaizen / RIE Schedule

Preparation - 3 weeks PT

1. Identify the process.
2. Define the event.
3. Identify objectives.

Event - 1 week FT

4. Document current condition.
5. Analyze current condition.
6. Make improvements.
7. Create standard work for the improved process.
8. Document improvements to be made.

Follow Up - 3 weeks PT

9. Closeout / Complete deliverables.
10. Measure new reality.
11. Sustain the gain.



# Kaizen / RIE Planning Checklist

Rapid Improvement Events		PREPARATION
By: <input type="text"/> Date: <input type="text"/> Prep. % COT: <input type="text"/>		
Team: <input type="text"/>		
3rd Week Before Event: (% COT: )	2nd Week Before Event: (% COT: )	1st Week Before Event: (% COT: )
<input type="checkbox"/> 1) Select the RIE from the 'Value Stream Analysis' Rapid Improvement Plan. <input type="checkbox"/> 2) Develop Charter with Value Stream Champion <input type="checkbox"/> 3) Identify the Team Leader, Co-Leader, and Team Members. <input type="checkbox"/> 4) Assure at least 1/3rd of participants are from the affected area. <input type="checkbox"/> 5) Establish Voice of Customer. <input type="checkbox"/> 6) Develop SIPOC <input type="checkbox"/> 7) Determine the focus - which Lean tools will be applied? <input type="checkbox"/> 8) Involve Budget authority/Business office to help capture baseline cost/benefit data	<input type="checkbox"/> 1) Complete SIPOC <input type="checkbox"/> 2) Determine process metrics that need to be addressed. <input type="checkbox"/> 3) Develop data collection plan <input type="checkbox"/> 4) Start gathering facts and data to populate starting numbers on Target Progress Report <input type="checkbox"/> 5) Populate the Target Progress Report <input type="checkbox"/> 6) Identify top three improvement metrics <input type="checkbox"/> 7) Establish improvement targets on top three metrics, be aggressive <input type="checkbox"/> 8) Meet with affected stakeholders to communicate Improvement Event schedule, metrics, targets, and tools to be applied <input type="checkbox"/> 9) Start Improvement Newspaper. <input type="checkbox"/> 10) Confirm the availability of any special resources for: - equipment or furniture moves - computer / phone moves - 5S, shadowing, kitting - Production Control Boards <input type="checkbox"/> 11) Obtain any special data collection instructions from your BB such as: - Information from previous Improvement Events - Customer critical to quality issues - Safety data <input type="checkbox"/> 12) Confirm all participants are still available for entire Event week <input type="checkbox"/> 13) Start your Improvement Newspaper <input type="checkbox"/> 14) Develop Current State Process Map <input type="checkbox"/> 15) Train team participants on improvement process and tools to be applied	<input type="checkbox"/> 1) Communicate key metrics, targets, and tools to be applied to all team participants <input type="checkbox"/> 2) Double check availability of all resources: - equipment or furniture moves - computer or phone moves - 5S, shadowing, kitting - Production Control Boards <input type="checkbox"/> 3) Communicate with affected area, review items listed on flip chart and ask for clarification, make sure these are added to Improvement Newspaper <input type="checkbox"/> 4) Make sure team break-out area is ready: - flip charts, markers, post-its, VSA blanks - forms, stop watches <input type="checkbox"/> 5) Make sure Project Sponsor is set to give opening remarks on Monday morning <input type="checkbox"/> 6) Make sure Project Sponsor is available for Team Leader Meetings Monday - Wednesday <input type="checkbox"/> 7) Schedule Final Presentation with Project Sponsor and appropriate leadership <input type="checkbox"/> 8) Confirm all team participants are going to be available full time for entire event <input type="checkbox"/> 9) ID and gather appropriate instructions, documents, and SOPs



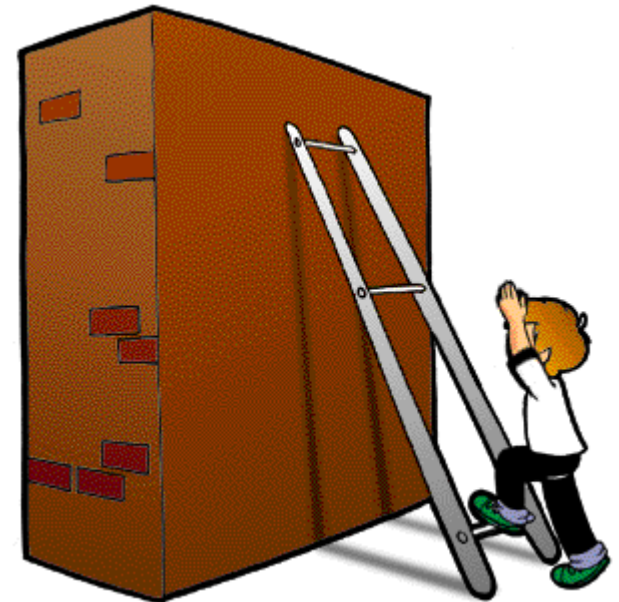
# Keys For A Successful Event

- ✓ Clear, precise definition of the problem.
- ✓ Well-defined goals.
- ✓ Clear project boundaries.
- ✓ Clear statement of requirements and expectations.
- ✓ Assigned responsibilities.
- ✓ Realistic timeframes for completion.
- ✓ Well-defined, written charter.



# Barriers to Success

- **Uninvolved Leadership**
- Scope or team is too small / large
- **Solution in mind**
- Unavailable resources
- Politics
- Wrong people
- Unclear event objectives
- Conflict
- Insufficient resources
- Shifting goals and priorities
- **Declaring victory too early**
- Monument: barrier that can't be moved





# Tollgate Reviews

A meeting after each stage of the DMAIC process to:

- Determine if all the goals in the phase have been met.
- Provide a project update to stakeholders.
- Ensure work on the problem is still needed.
- Receive approval to continue to the next phase.

Preparation for the tollgate should include:

- All stakeholders are informed and available for the review.
  - Includes scheduling an adequate location for the review.
- Create a structure agenda for the review.
- Prepare presentation consisting of check sheets, milestone lists, tools used, etc.
- Provide presentation to all stakeholders prior to review.



# Knowledge Check: Project/Event

**When Would You Choose a Project and not a Kaizen / Rapid Improvement Event (RIE)?**



# Knowledge Check: Develop Plan

**RIE/Kaizen Events provide rapid change by skipping the Analyze phase of DMAIC and moving right into Improve.  
True or False?**



# What We Have Covered: Define Phase

## Define Phase Tools

- Event or Project Charter.
- SIPOC analysis.
- Voice of the Customer collection and analysis.
- Communication Plan development.
- Project Framework.



# Questions

**What questions do you have about any area of the Define Phase?**

