

# What Happens in a Lean Event?

# Pre-Event

## 1. Meet with Leadership

- ✓ Determine: Case for Change, Scope, Objectives, Boundaries and Participants for the Event
- ✓ Coordinate Event logistics – Schedule, location, supplies, meals, etc.

## 2. Walk the process

- ✓ Gather data, metrics, procedures, etc.
- ✓ And anything else that may explain why the Current State is the way it is

# During the Event

## 3. Leadership kicks off the event

- ✓ Review expectations with the team
  - Case for Change
  - Scope
  - Objectives
  - Boundaries
- ✓ Lean overview
- ✓ Review Team Operating Guidelines

# During the Event

## Team Operating Guidelines

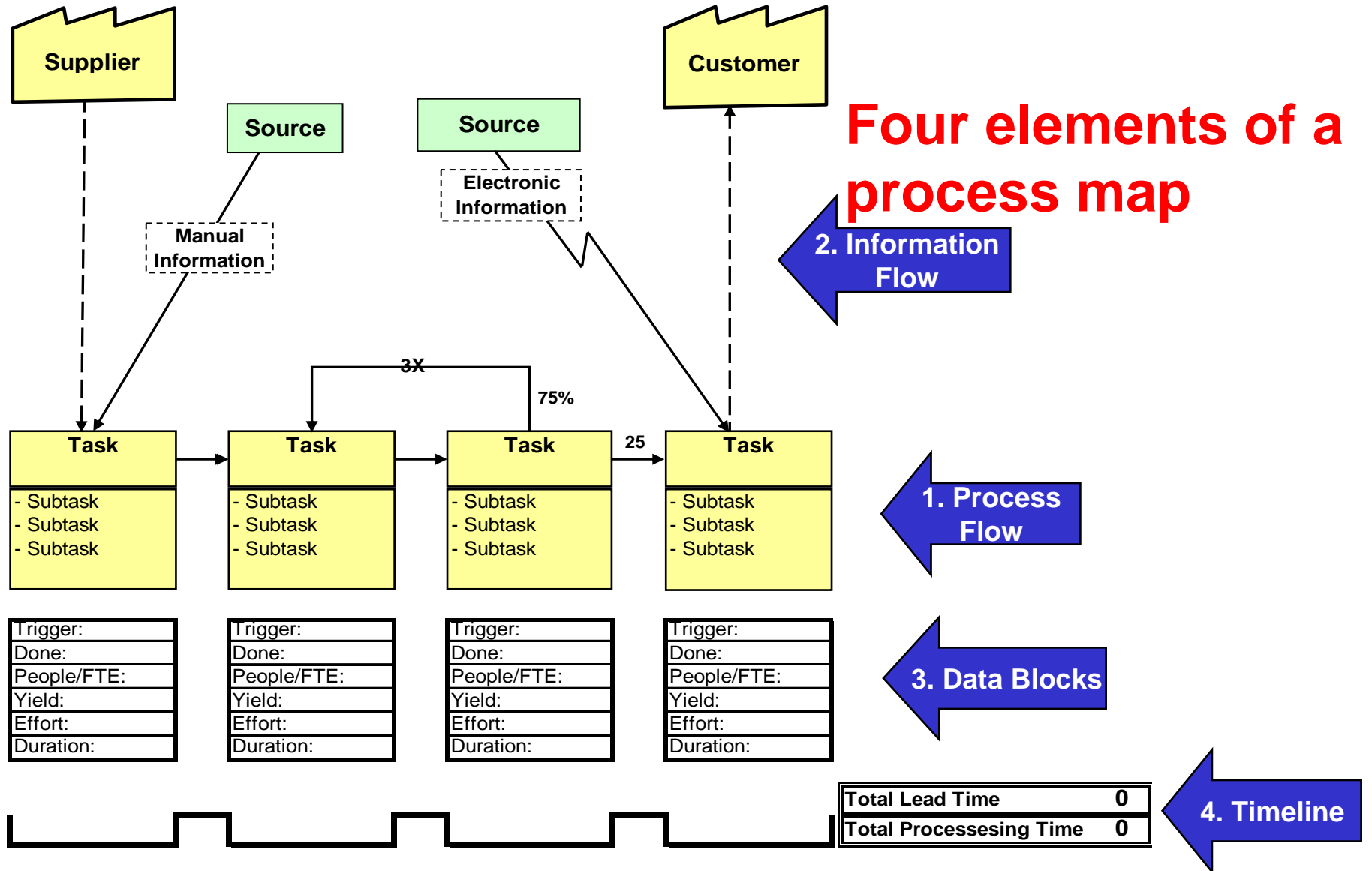
- Cell phones, Blackberries, etc. turned off
- Be on time
- Limit side conversations – Only one person speaking at a time
- Listen for understanding - Let the person finish before you speak
- Have respect for one another – Attack issues and facts...*not* people or their ideas!
- Get involved & ***Have Fun!***

# During the Event

## 4. Document the Current State

- ✓ Capture Process & Information Flows
- ✓ Identify Value Added vs. Non-Value Added (Waste)
- ✓ Capture/Brainstorm Issues with the Current State
- ✓ Brainstorm potential solutions

# Process Map



# Process Step

| Take Order   |  |
|--|--|
| - Assign # to form<br>- Conduct phone interview<br>- Fill out form |  |
| Trigger:   | Receive request from customer                                |
| Done:  | Form filled out  |
| Yield:   | 65%  |
| People:  | 1 FTE  |
| Queue Time:  | 1 Min  |
| Set up Time:   | 2 Min (Assign #)   |
| Processing/Cycle Time:   | 15 Min (Fill out form)                                       |
| Lead Time:   | 18 Min<br>(1 Min queue + 2 Min setup + 15 Min fill out form) |

Trigger = What indicator starts the process?

Done = What indicates the process is complete?

Yield = Rate work or information flows without rework?

People/FTE = Staffing full time equivalents

Queue = Time waiting for work or information

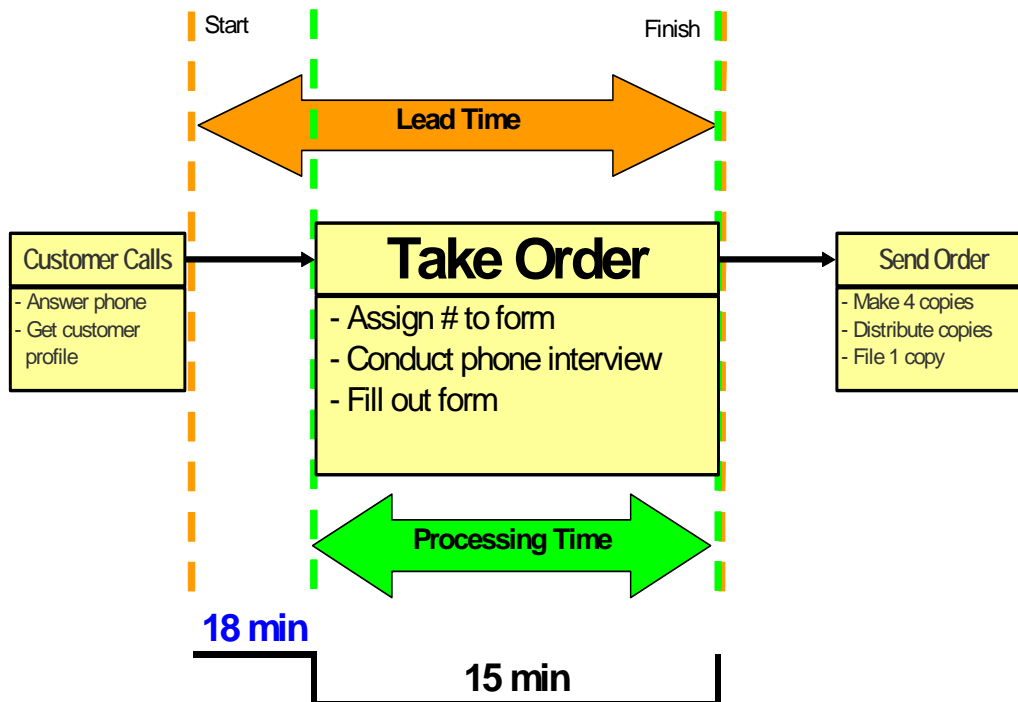
Set up Time = Locate materials/info to start process

Processing/Cycle Time = Manual touch time

Lead Time = Total time from beginning to end

**A step ends at the hand off to the next step or when there is a queue waiting for additional information**

# Lead Time vs. Processing Time



**Lead Time** = Time required for a product to move through a process from start to finish (includes queues/waits and processing time).

Measured from the end of one process step to the end of the next.

**Processing Time** = Time it takes the employee to go through all of their work elements before repeating them (includes value added and non-value added time).

Measured from the beginning of a process step to the end of that process step.

# During the Event

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# Identify Waste

## Value-Added vs. Non-Value Added



### Value-Added Activities

- An activity that transforms or shapes material or information
- And the customer wants it
- And it's done right the first time



### Non Value-Added – Necessary Activities

- Activities causing no value to be created but which cannot be eliminated based on current state of technology or thinking
- Required (regulatory, customer mandate, legal)
- Necessary (due to non-robustness of process, currently required; current risk tolerance)



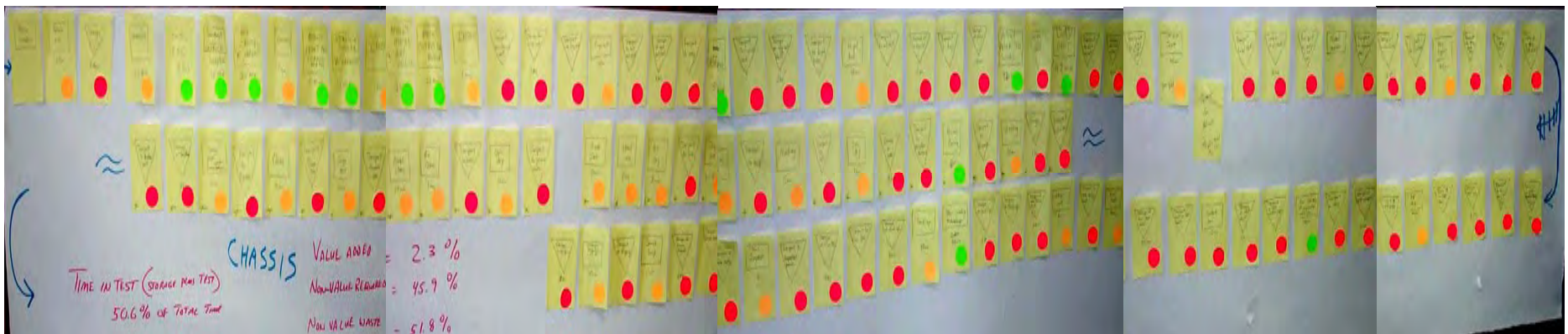
### Non Value-Added Activities

- Activities that consume resources but create no value in the eyes of the customer
- Pure waste
- If you can't get rid of the activity, it turns to yellow

# Identify Waste

## Identifying Value on the Map

- Visually identify areas for improvement opportunities
- Accomplished by color coding each step
  - Complete the red-yellow-green dot analysis
  - Value (●)
  - Non-Value Added Necessary (●)
  - Waste (●)



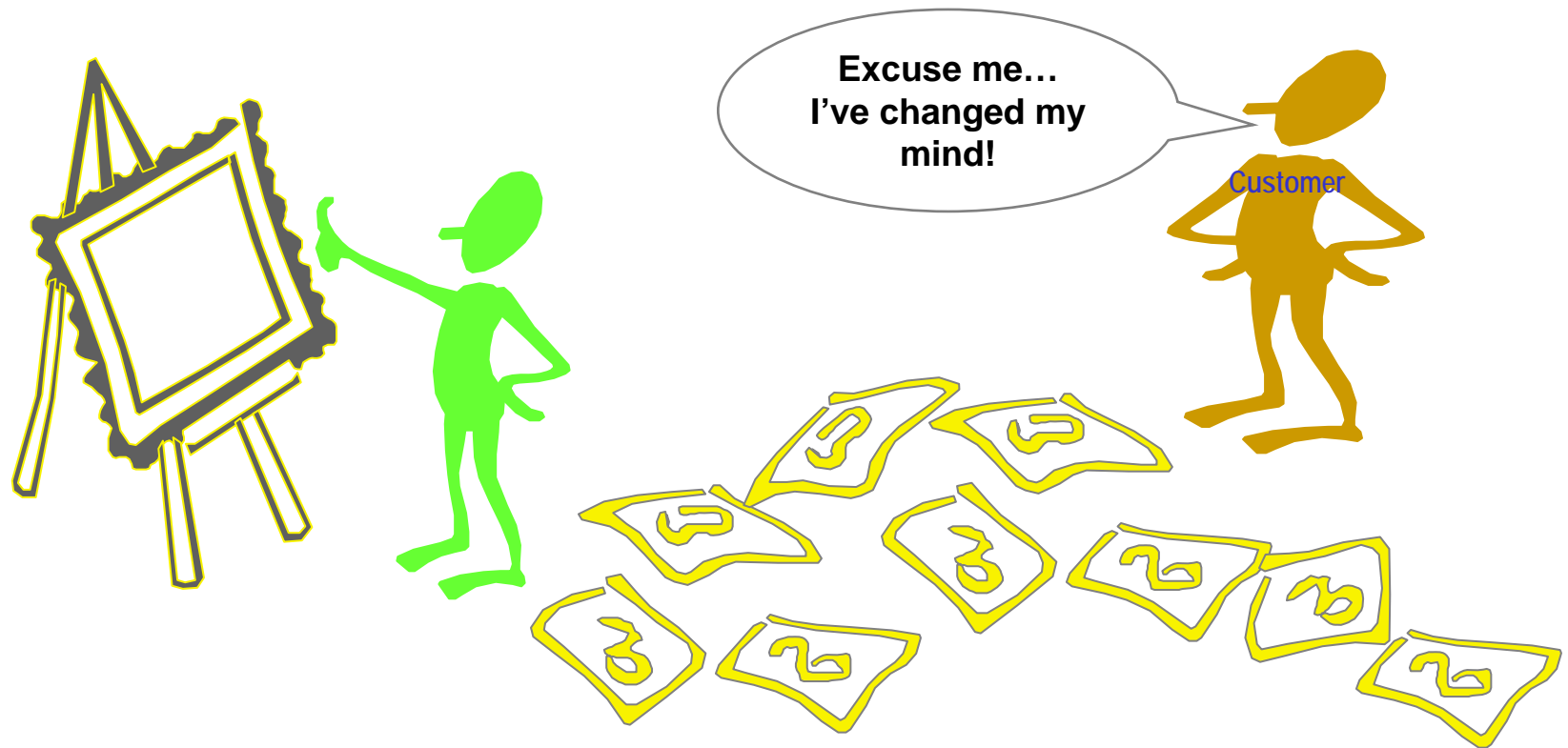
# Identify Waste

## 8 Forms of Waste

1. Over Production
2. Waiting
3. Moving Items
4. Over Processing
5. Inventory
6. Unnecessary Motion
7. Defects
8. Behaviors

# Types of Waste

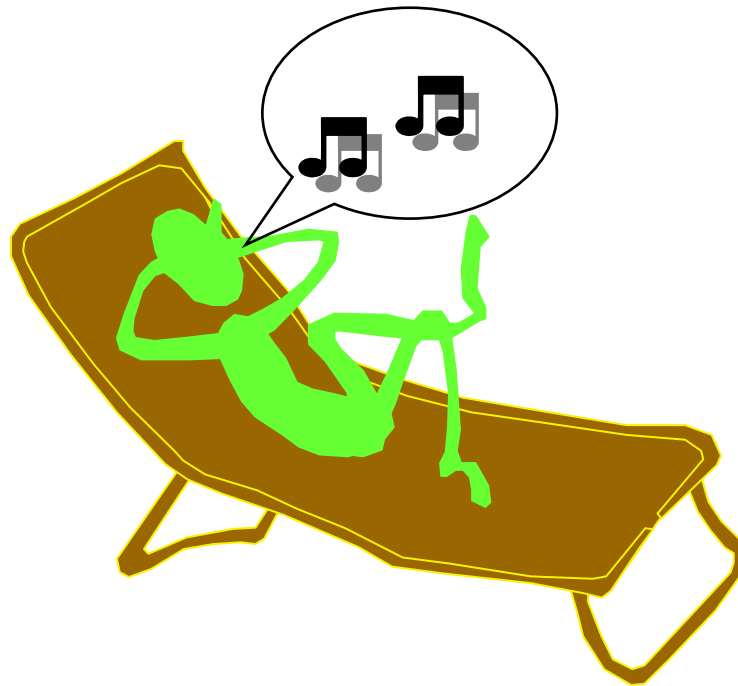
## Over Production



**Producing more information or product than the ultimate customer requires**

# Types of Waste

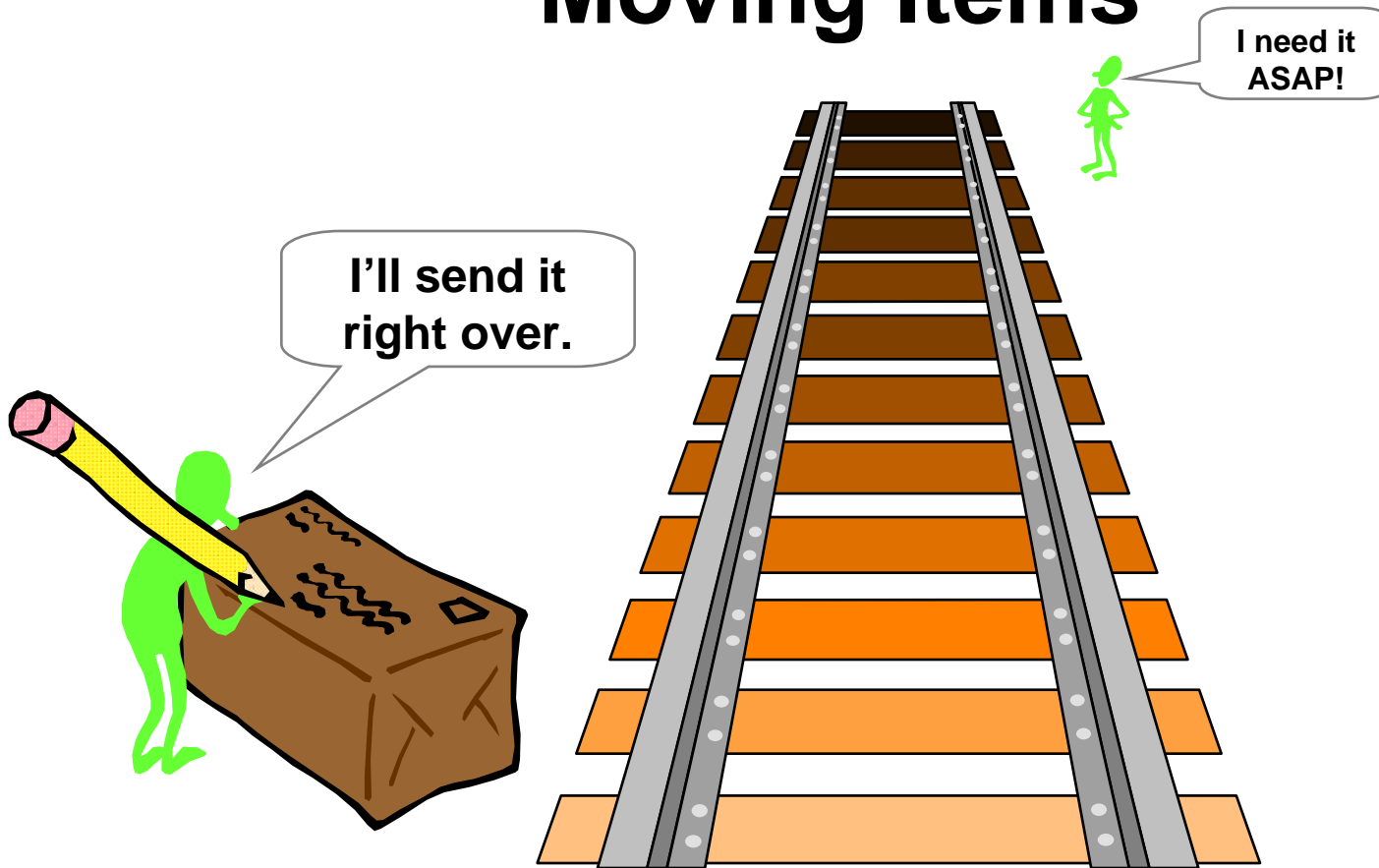
## Waiting



**Time spent waiting on items required to complete a task (i.e., Information, Supplies, People, etc.)**

# Types of Waste

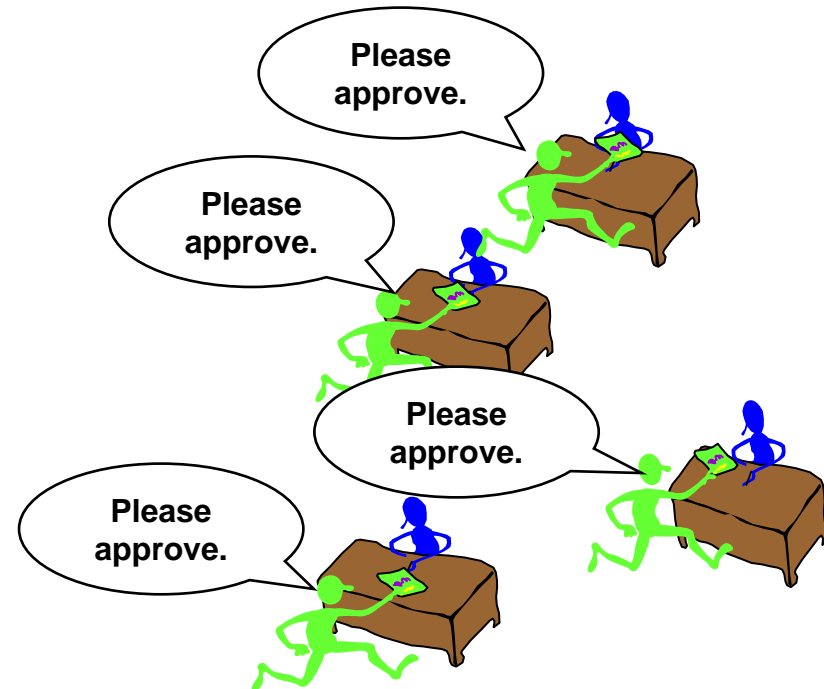
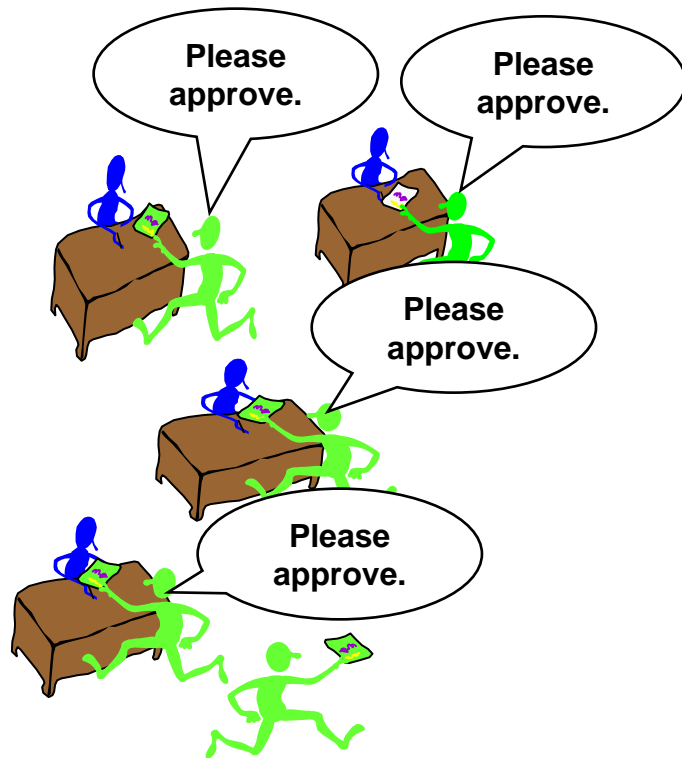
## Moving Items



**Transporting, temporarily locating, filing, stocking, stacking or moving materials, people or information**

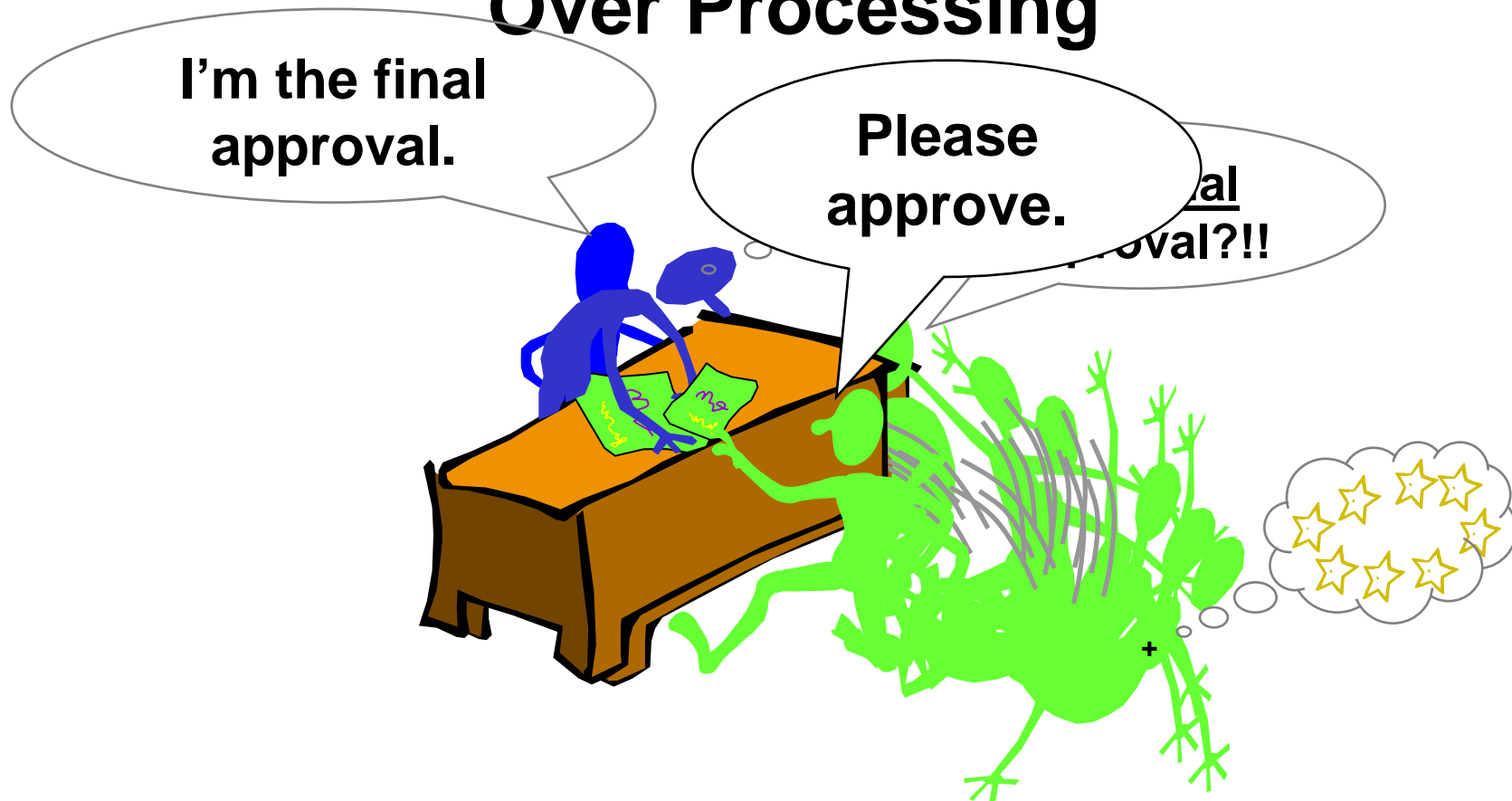
# Types of Waste

## Over Processing



# Types of Waste

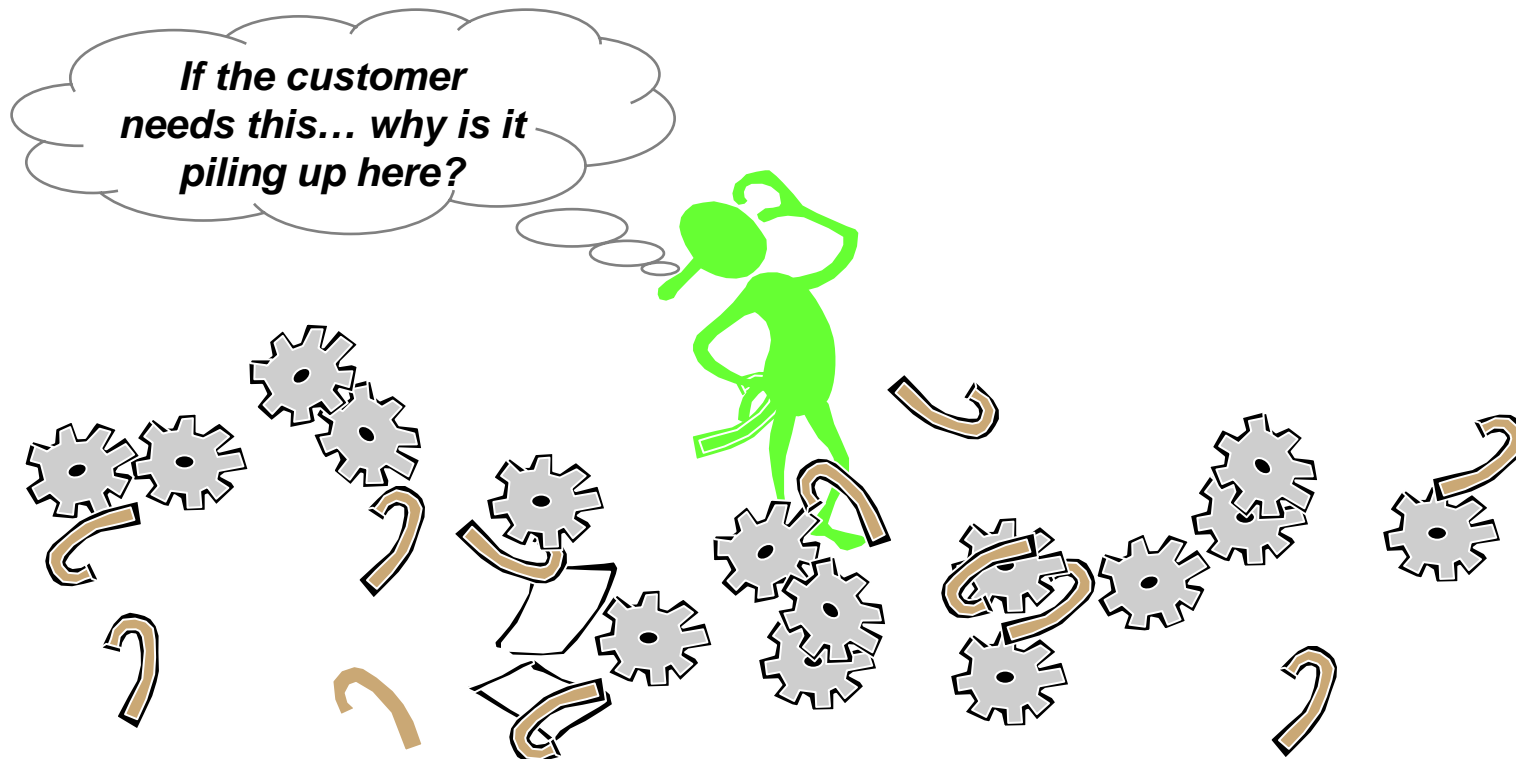
## Over Processing



**Effort and time spent processing information or material that is not adding value**

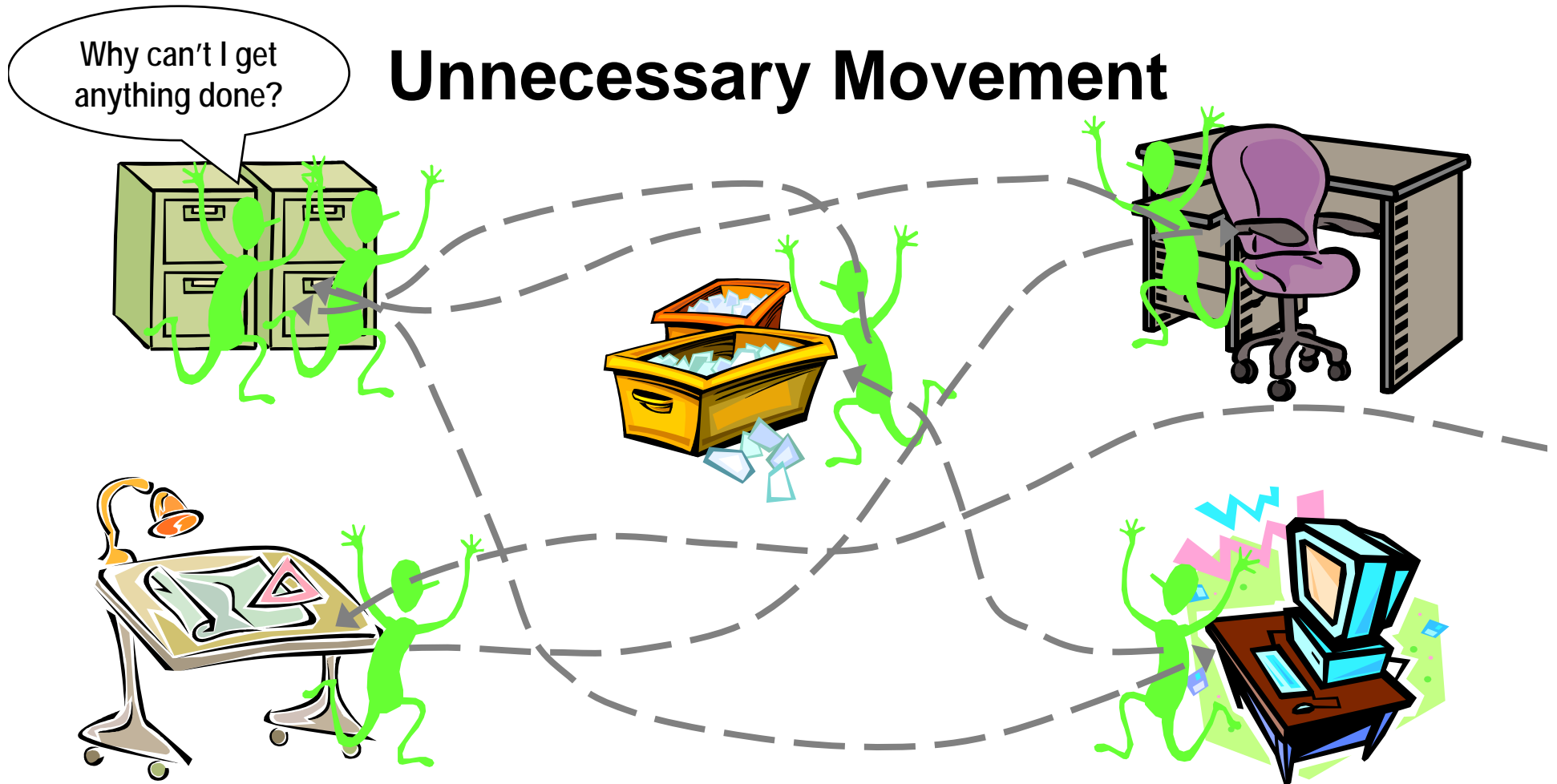
# Types of Waste

## Inventory



**Material or Information that is waiting for processing**

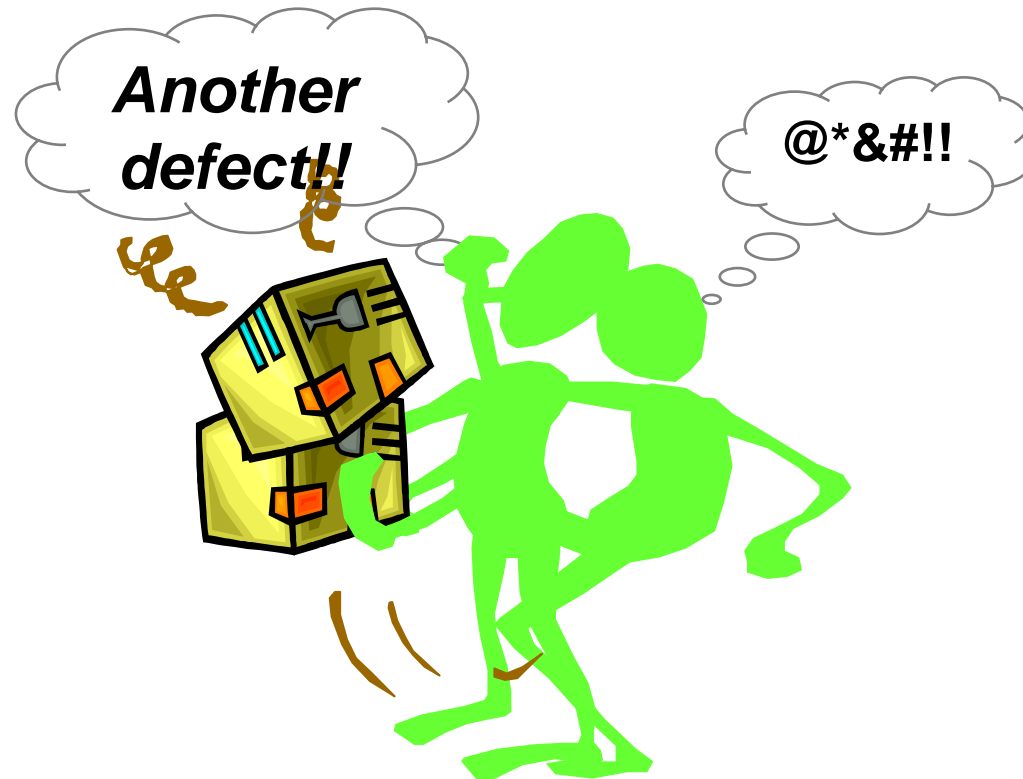
# Types of Waste



**Any motion that does not add value to the product or service**

# Types of Waste

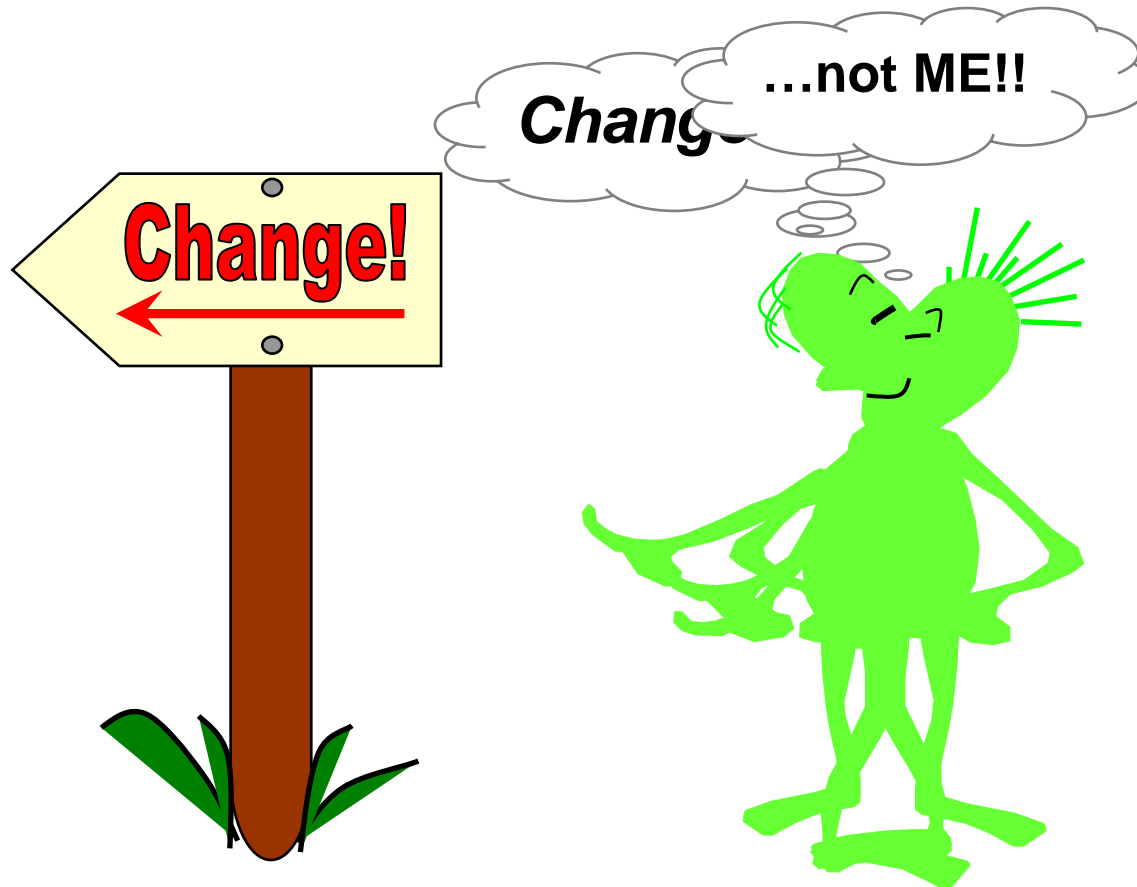
## Defects



**Repairing/Reworking/Scrapping material or information**

# Types of Waste

## Behaviors



**Not questioning the process, not wanting to take risk, or not wanting to rock the boat.**

# During the Event

## 4. Document the Current State

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# During the Event

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### *At the end of each day, we will:*

- ✓ Discuss Lessons Learned
- ✓ Document accomplishments for the day
- ✓ Develop an agenda for the next day

# During the Event

**5. Describe/Map an Ideal State** – One where there are no constraints inhibiting flow

- ✓ No approvals
- ✓ No regulatory requirements
- ✓ No waiting
- ✓ No quality issues
- ✓ No **WASTE!**

# During the Event

## 6. Develop a Future State

- ✓ Walk the process
- ✓ Validate the issues are resolved
- ✓ Conduct a Gap Analysis
  - How do we get from here to there?
- ✓ Identify Barriers to Success
  - Cultural
  - Financial
  - Organizational
  - Regulatory
  - Technical
- ✓ Define Metrics

# During the Event

## 7. Create an Implementation Plan

- ✓ Develop schedule for completing actions, considering the following:
  - Effort vs. impact
  - Critical path
  - Dependencies
  - Over-utilization of resources
- ✓ Assign deadlines and ownership for actions
- ✓ Schedule first cadence review
  - Meeting to monitor implementation progress

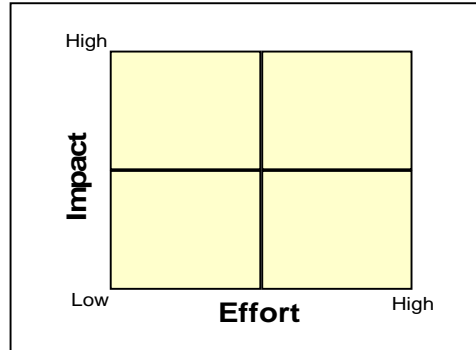
# Implementation Plan

## LEAN ACTIVITY ACTION LOG

Event Title: \_\_\_\_\_

**Event Type:**

- Do It
- Burst
- RPI
- Value Stream
- Project



Event Duration: \_\_\_\_\_

Start & End Date: \_\_\_\_\_

Critical Path:  YES  NO

Dependencies: \_\_\_\_\_

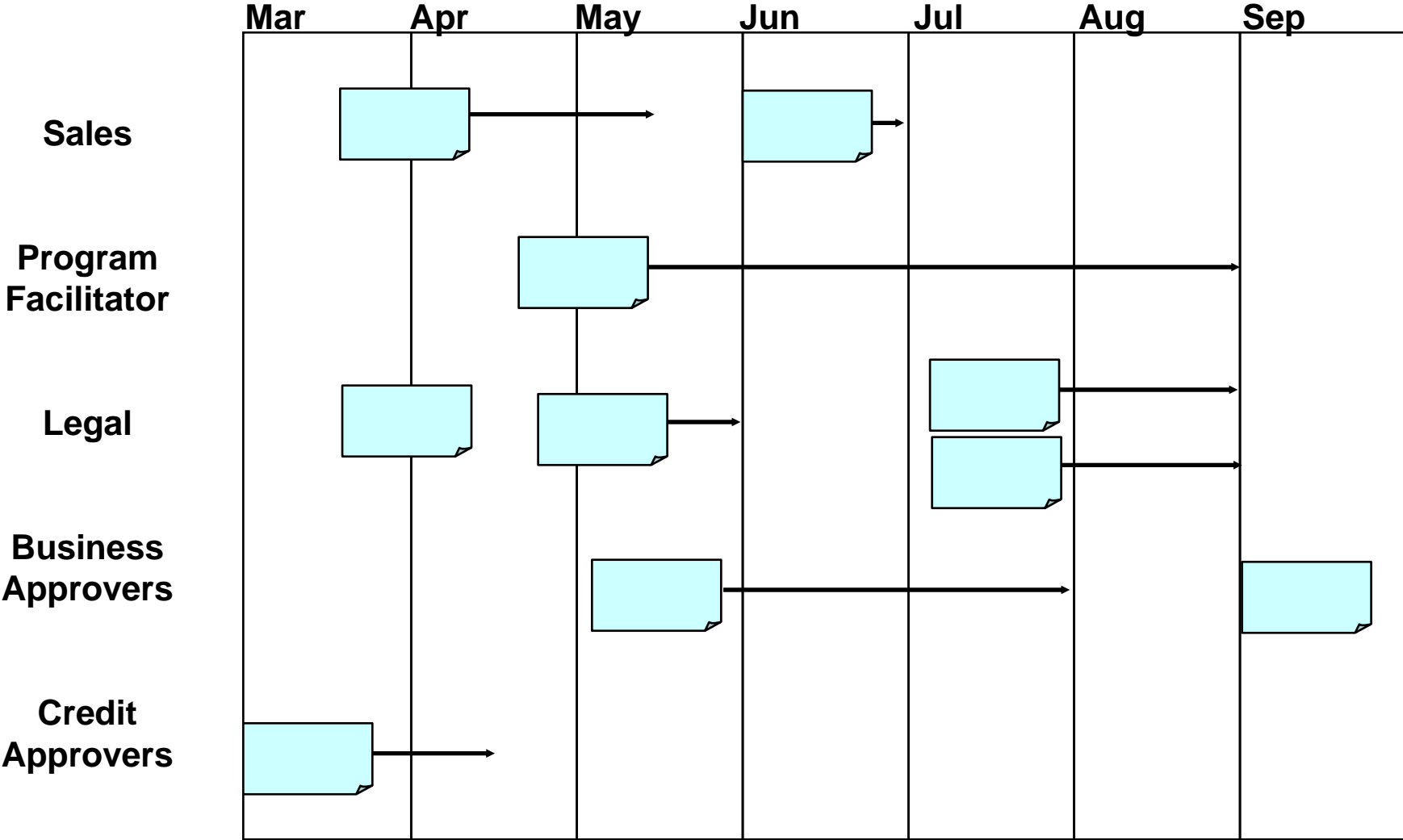
Process Owner/Team Lead: \_\_\_\_\_

Potential Team Members: \_\_\_\_\_

Action Description: \_\_\_\_\_

Anticipated Results/Deliverables: \_\_\_\_\_

# Implementation Plan



## 8. Implement & Sustain

- ✓ Monitor implementation status, issues and accomplishments through regularly scheduled cadence reviews

**A critical element for success is the management of the Implementation Plan**



## 9. Continuously Improve

- ✓ Evaluate results and compare to goals
- ✓ Celebrate accomplishments
- ✓ Revisit the Future State map

**Once you start implementing changes. . .  
Your Future State becomes your Current State!**

# Backup Slides

# SIPOC Diagram

We may use the **SIPOC** diagram as a tool to help us define the elements in our process.

The **SIPOC** diagram is a brainstorming tool used to identify the following key elements of a process or value stream:

**S**uppliers > **I**nputs > **P**rocess > **O**utputs > **C**ustomers

# SIPOC Diagram

**Suppliers** – Those who supply resources and information to the process

**Inputs** – Data, knowledge, and resources flowing into the process steps

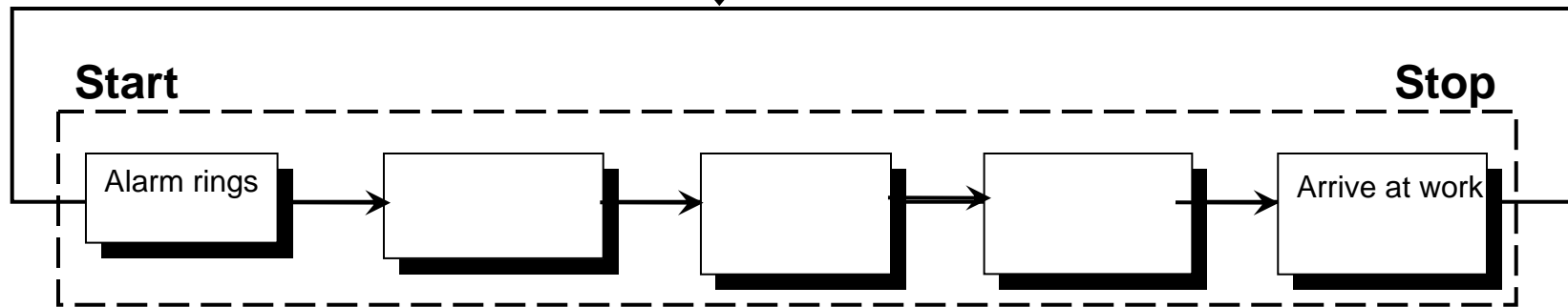
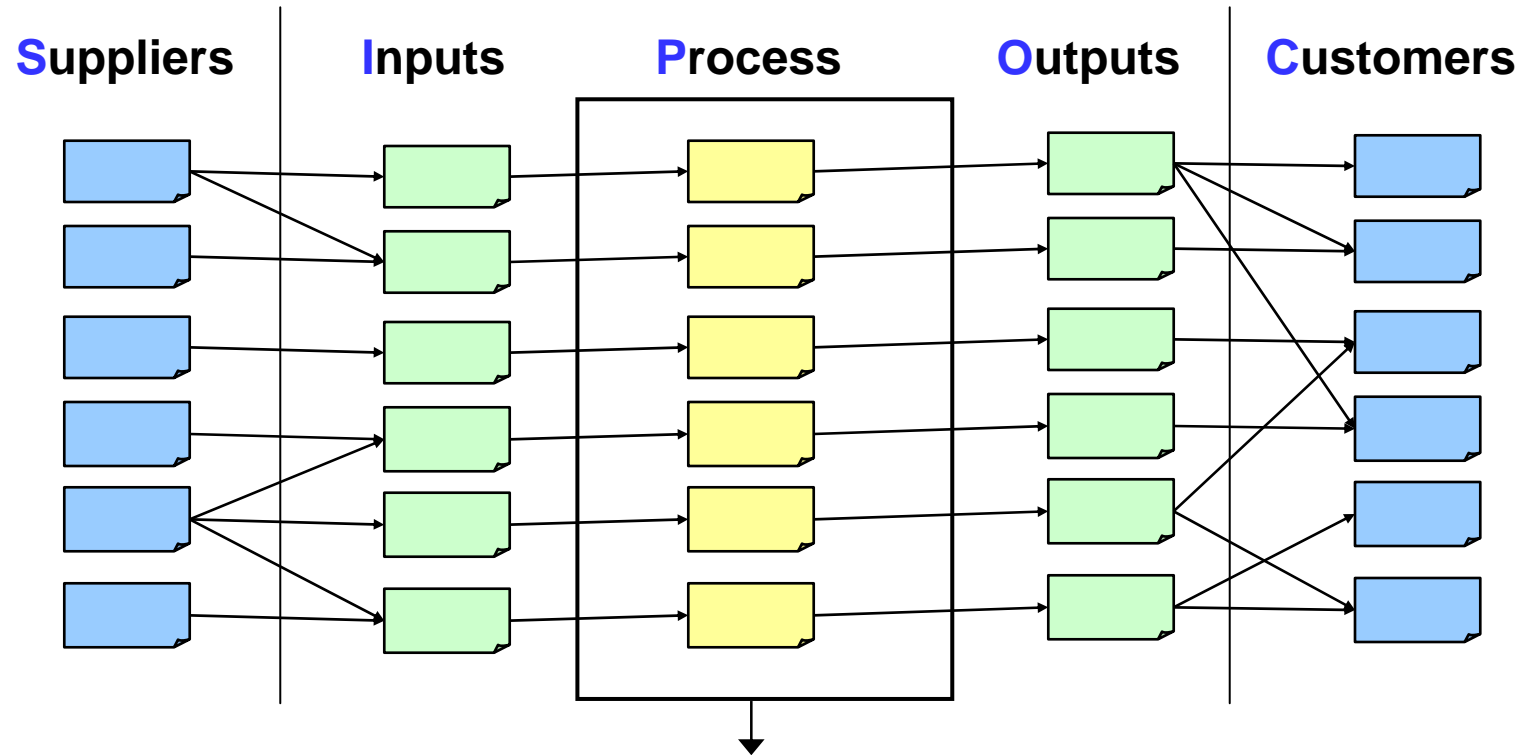
**Process** – The main (high level) process steps

**Outputs** – The “deliverables” from the process steps

**Customers** – (Both internal and external) who have expectations, needs and wants to be satisfied

# SIPOC Diagram

## Voice of the Customer



# Brainstorm Issues

## The Rules

- No premature decisions or evaluations
- ALL ideas are welcome (there is no such thing as a bad idea or one that is too 'wild')
- Don't sit on ideas -- express them openly
- Quantity over quality
- Piggyback on the ideas of others
- Don't waste time explaining your ideas

# Brainstorm Issues

## The Process

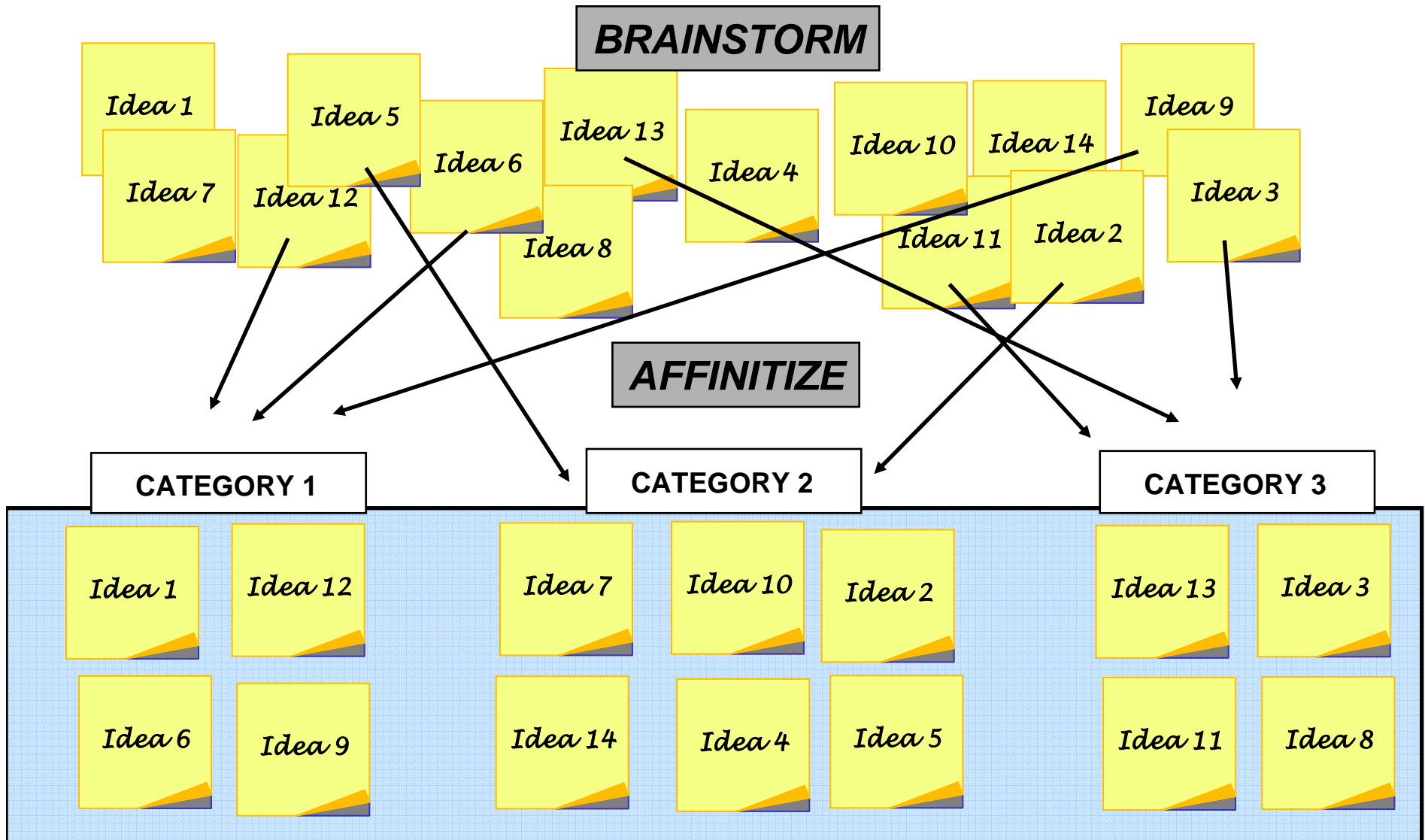
1. Team members silently record issues with the Current State on post-it notes
  - One issue per post-it
2. Use standard brainstorming rules
  - Use nouns and verbs (5 - 10 words)
3. Team members take turns reading their issues out-loud
  - Remove duplications
4. Post-its/issues are then placed on flip chart paper attached to the wall

# Affinitize Issues

## Sort Issues into logical categories

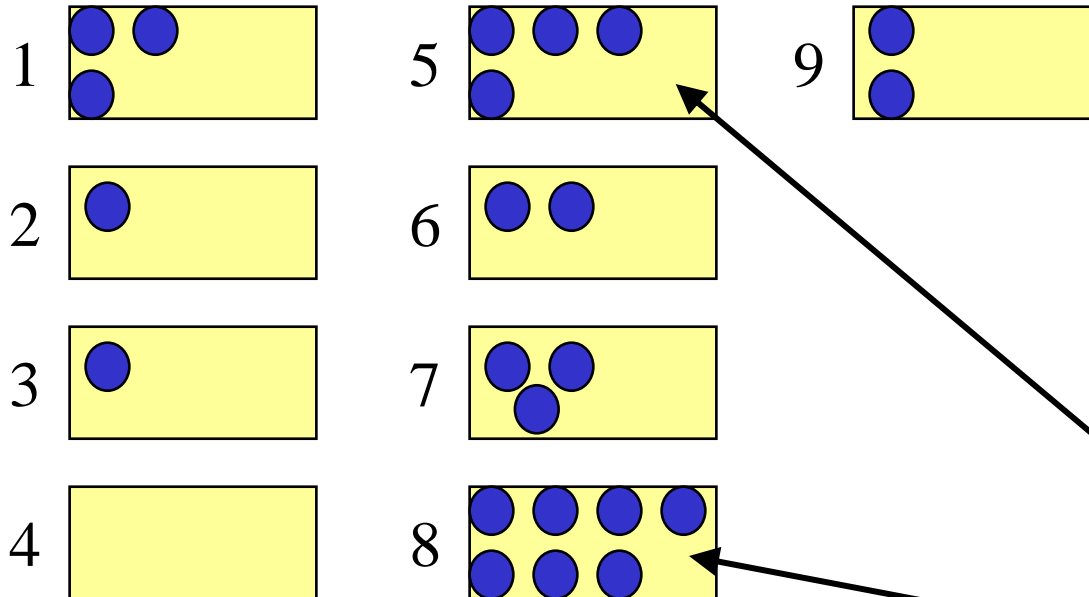
1. Team silently sorts issues by moving post-its into logical groupings
2. Team comes to consensus on category headings (i.e. issues surrounding communication, process, etc.)
3. Team prioritizes/votes on most critical issues

# Example



# Prioritizing

Multi-Voting: A good way to prioritize a long list of brainstorming ideas



Provide each team member with 1 dot per category

Vote on the top issue in each category

Only one dot allowed per category

\* \* \* \* \*

Idea 5 is second priority

Idea 8 is top priority