

Adding Kaizens to your Kanban

A Visual Facilitation Approach to Create Prioritized Project Pipelines



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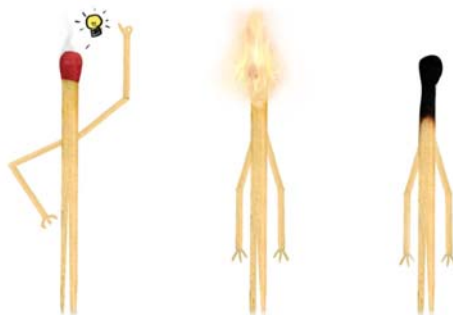
What Do You Do Every day?



Would you like to impact an entire organizations?



Why Do Project Based Programs Fail?



1. Poor Project Selection
2. Lack of Facilitation Skills
3. Failure to Sustain



Learning Objectives

In this session you will:

1. Leverage a “Faster and Better” visual facilitation approach to Identify opportunities for improvements
2. Learn the difference between Kaizen types
3. Discover how a Kanban can be used to prioritize projects



Faster and Better Visual Facilitation

- Complements existing quality initiatives
- Combines various existing toolboxes
- Leverages the experience of all participants
- Compiles and prioritizes improvement opportunities
- Links improvement initiatives to key business objectives



Objectives 1

What is a Kaizen?



Team event to quickly break apart & rebuild
a process to function better



Kaizen Types

Point Kaizen



Individual Workstation

- Waste
- Tool location
- Ergonomics
- Poke Yoke

Mini Kaizen



Work cell or Line

- Workflow
- Cell Layout
- Line balancing
- 5S

Kaizen Blitz



Complex Local Issue

- Team forms for the specific purpose of the event

Flow Kaizen



Dock to Dock Value Stream

- Cross Functional Teams
- Process Issues
- System Issues
- Organizational Issues

Supply Chain Kaizen



Multiple Companies

- Part-time representatives from participating companies



Objective 2

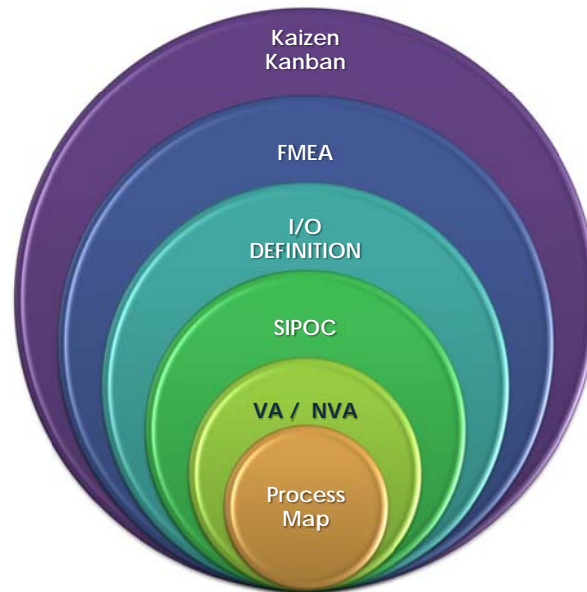
What is a Traditional Kanban?



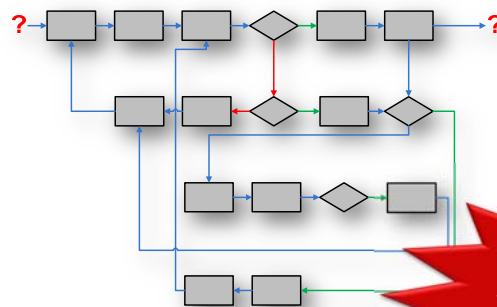
Kanbans signal to workers
what to build next or what parts to retrieve



Our roadmap



What is a Process Map?

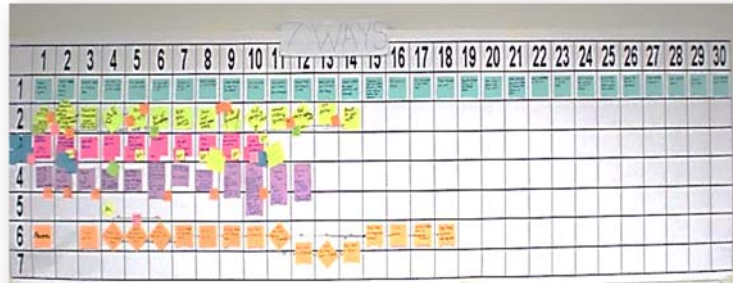


Each step should
be written in the
verb noun format

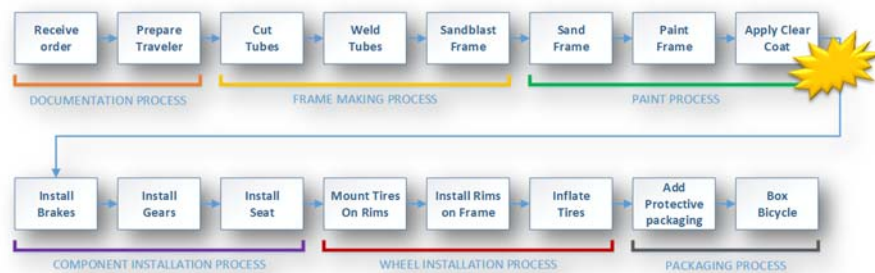


A process map is a visual representation of the steps required to complete a task

7 Ways



Applying the 7 Ways to Process Mapping



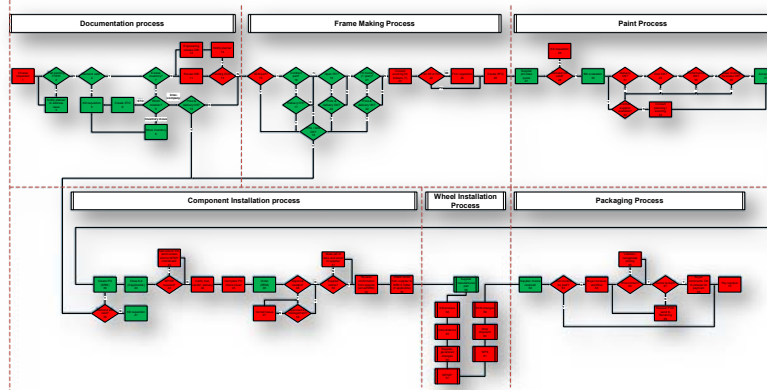
A Process Map provides the medium to display
Opportunities For Improvement (OFI)



Process Map Exercise



Value Added / Non Value Added Analysis

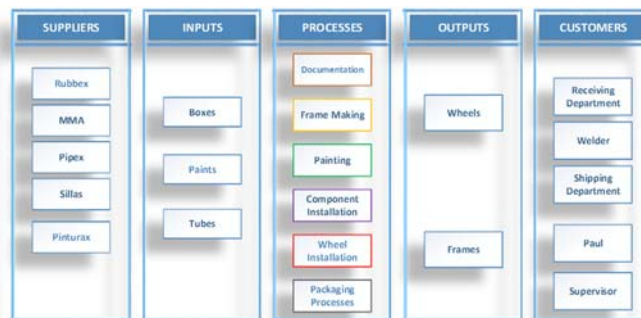


- Value Adding Step (VA)
- Non-value Adding Step (NVA)

Value Added / Non Value Added Exercise

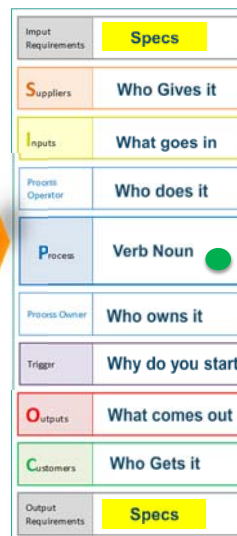


Traditional SIPOC Diagram

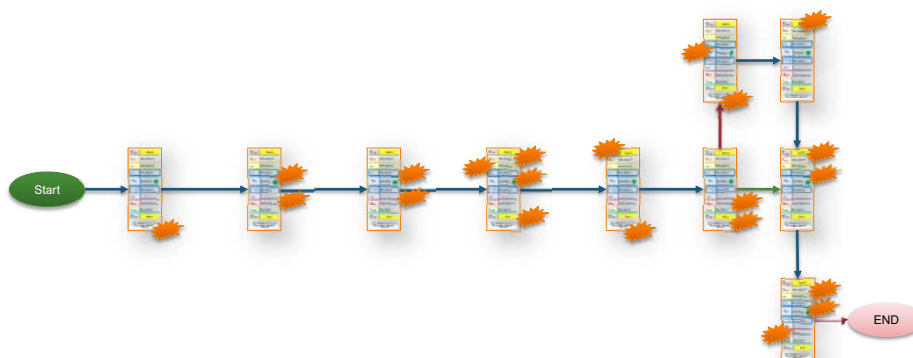


Traditional SIPOCs don't clearly show all linkages





Process Map enhanced with ESBs



Enhanced SIPOC Example



Enhanced SIPOC Exercise



Failure Mode and Effect Analysis (FMEA)



Failure Mode and Effect Analysis (FMEA) is a proactive tool used to assess, manage, and reduce risk associated with the failure or potential failure of products, processes, services, and other systems before they occur.



Traditional approach to FMEA

Step	Current Process	Failure Mode	Controls	Severity	Occurrence	Detectability	RPN
1	Truck Arrives at Gate						
2	Truck arrives at dock. Check Documents	Incorrect or missing Paperwork					
3	Truck is loaded	Truck is too full Truck is too empty Parts already at dock Wrong Pallet Size Truck not at dock Truck not at dock					
4	Verify Part Numbers, I.D. numbers, and tag numbers with Pallet number	Large part Number Small part Number Part not recognized Part improperly					
5	Place paperwork in clerk basket	Paper not put in basket					
6	Get paperwork and check part numbers to SAP	Wrong paperwork					
7	Transfer to receive item in SAP	Problem F.O.					



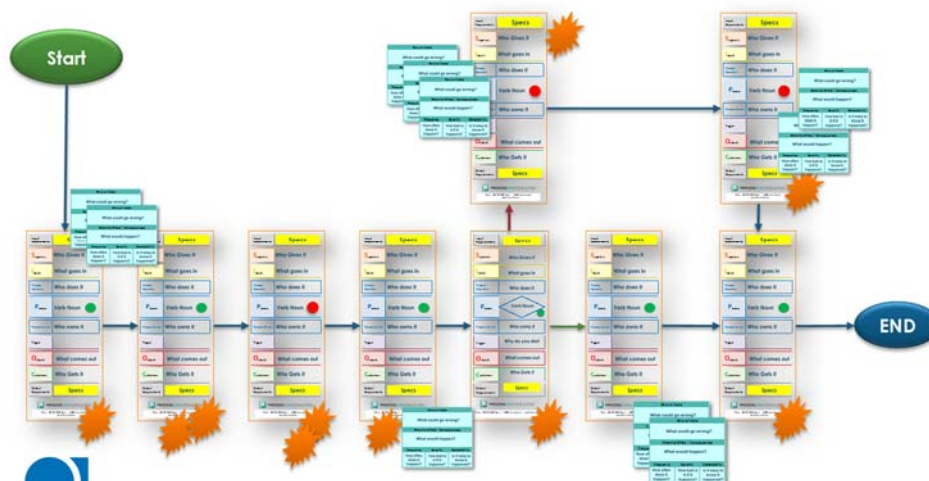
FMEA sessions can be time consuming and frustrating

Failure Box (F-Box)

Failure Mode		
What could go wrong?		
Potential Effect / Consequences		
What would happen?		
Frequency	Severity	Detectability
How often does it happen?	How bad is it if it happens?	Is it easy to know it happened?



Process Map enhanced with F-Boxes



Risk Priority Number Calculation

Potential Failure Mode and Effect Analysis (Process FMEA) & VA/NVA Analysis

Process Name: Bicycle Assembly Department: Mountain Bikes FMEA #: FMEA 2010 - 002
 Prepared By: Julia Tran Process Owner: Leandro Garve FMEA Date: May 18 2016
 Core Team: Mike - Jessica - Harris - Cammy - Jorge - Donald - Pedro - Naila - Conrad - Kiera - Michelle

Sub-Processes	Step #	Process Step	Potential Failure Mode(s)	Potential Effect(s) of Failure	Frequency	Severity	Detectability	RPN
Frame making Process	3	Cut Tubes	Tubes too long	Rework and delay	3	2	1	6
Frame making Process	5	Cut Tubes	Tubes cut at wrong angle	Scrap	5	4	5	100
Frame making Process	4	Cut Tubes	Tubes cut too short	Scrap	3	6	1	18



Risk Priority Number =
 Frequency x Severity x Detectability

Failure Mode and Effect Analysis Exercise



80 / 20



Sort the FMEA by RPN and
focus on top 20% of Failure Modes



Write Problem Statements for Selected OFIs

- **Who** is affected by the issue OR who discovered the issue/trend?
- **What** is the problem
- **When** did it occur (date, time, etc.)?
- **Where** the problem took place (room, location, etc.)
- **Extent or magnitude** of the situation?



Leverage Sponsors and Stakeholders



Sponsors and stakeholders recommend path forward

Kaizen Kanban Cards

The image shows a template for a Kaizen Kanban Card. It is a white rectangular card with a thin grey border, tilted slightly to the right. The card has three main sections, each with a label and horizontal lines for text entry:

- Kaizen Title:** followed by a single horizontal line.
- Problem Statement:** followed by three horizontal lines.
- Business Case:** followed by four horizontal lines.



What is a Kaizen Kanban?



Kaizen Kanbans are communication boards to display prioritized project pipelines

Objective 3

Characteristics of Kaizen Kanbans?

- Visual communication tools
- Based on traditional Kanbans principles
- Visible to all levels of employees within the organization
- Used by improvement teams to coordinate project selection and execution based on complexity and return on investment



Kaizen Kanban Exercise



Poll Question # 1:

Do you think a Kaizen Kanban could help your organization focus on the right projects?

Poll 1 - [...](#)



Poll Question # 2:

How many kaizen Kanbans should be used in a company at any time?

Poll 2 - ...



Poll Question # 3:

How often should a company update the kaizen Kanban?

Poll 3 - : ...



Learning Objectives Recap

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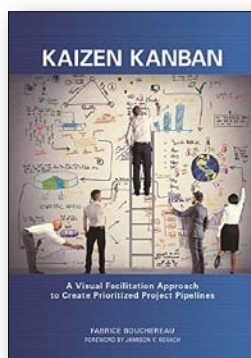
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- Find his book, "***Kaizen Kanban, A Visual Facilitation Approach To Create Prioritized Project Pipelines***" in the ASQ Bookstore at www.asq.org/quality-press/

About the topic:

- Search ASQ's Knowledge Center @ www.asq.org/knowledge-center/



Now that you have a spark...



...go start a fire with your team

