

Agenda

- Introduction
- Explanation of Approaches, Terminology, and Tools
- Charter Overview
- Process Mapping



Our Team Environment

- Interactive and participative
- Ask questions for clarity feel comfortable with concepts and supportive of approach
- Open to new ideas and experiences
- Learning for application for this event and other areas of your work
- Ridiculous and cliché, but let's have a little fun!



Purpose

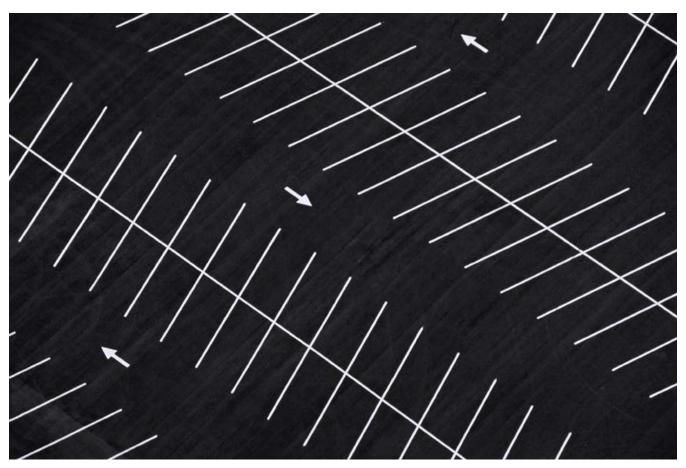
 Prepare team members to actively participate in kaizen event

Next Steps:

- 1. Finalize the charter and partner with management
- 2. Identify any homework items that need to be completed



Parking Lot





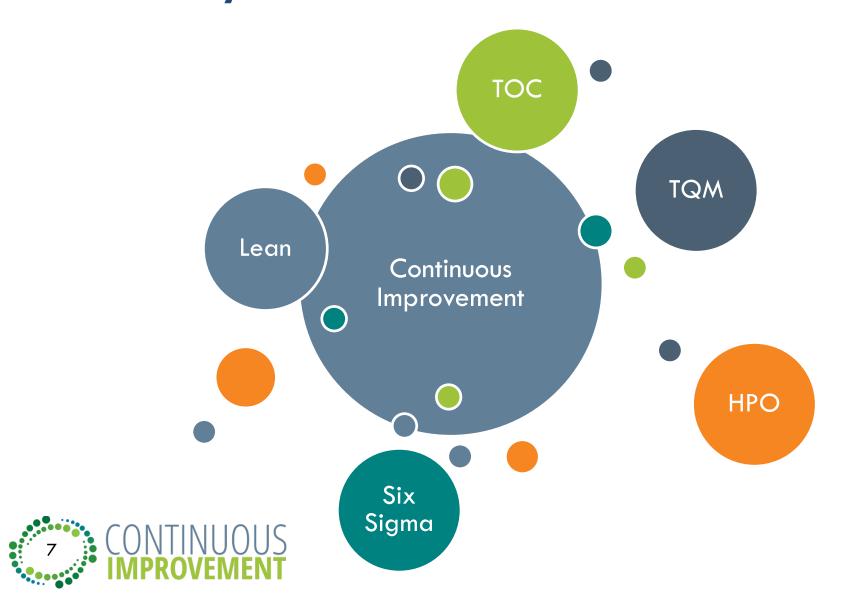
Continuous Improvement Initiative

Who We Are

We are a City Manager initiative focused on improving internal and external service delivery. Continuous Improvement uses data, process improvement frameworks, training, and other tools to maximize the value provided to both customers and the public.



You may have heard about...



Who's using Lean?



What Makes This Different?

Focus on rapid change and immediate implementation.

Trust and accountability.

Customer focus and active involvement.

Emphasis on doing over planning or reporting.

Dedicated resources.

Frontline workforce asked to improve processes.

Data driven decision making.

Focus on priority projects.



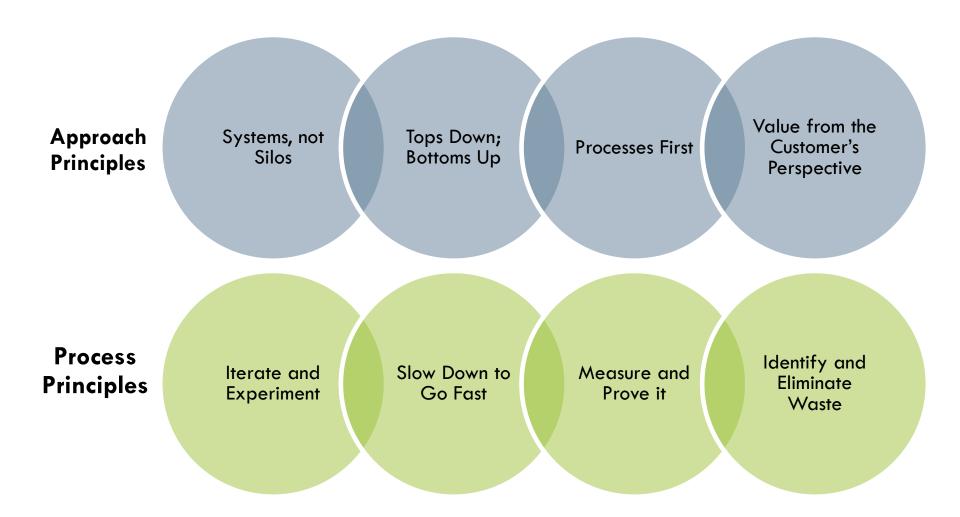
Citywide collaboration and perspective.



Key Beliefs

- Employees do the best they can in the system they work in they want to do a good job!
- There is waste in every process so there is room for improvement in the way we do our work.
- In order to improve we must look at what we do and how we do it.





Value for the Customer

The customer must recognize the task as important.

The task is done right the first time.

The product or service must physically change or transform.





Lean

The systematic elimination of waste.



Waste

Any action, process or product that adds cost, without adding value as perceived by the customer.



Customer

The internal or external recipient of any output (or final product) throughout the process.



Output

Information or materials after a task is performed in a process; input for the next task (unless a final product).

Process

Any step or series of steps that transforms an input into an output by adding value.



Value

An action has value if:

- The customer considers the task important (they would be willing to pay for that action)
- 2. The input physically changes
- 3. The task is done right the first time



Input

Information or materials required to perform the next task in a process.

Provided by a supplier.

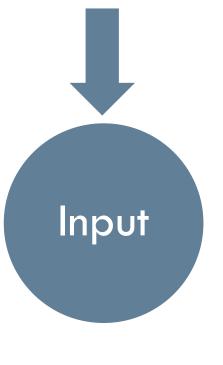


Supplier

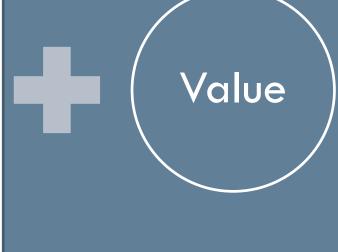
The internal or external provider of any input (or final product) throughout the process.



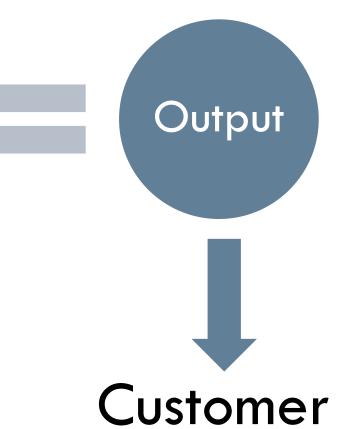
Supplier



Process



SIPOC





Stakeholders versus Customers

Stakeholders

Internal or external to the City

Vested interest in the outcomes (not the output) of a process

Customers

Internal or external to the City

Direct recipients of an output

Determine whether or not a step in a process has value



Exercise – Stakeholders, Customers, Suppliers

Think about one processes: Identify the stakeholders, customers, and suppliers

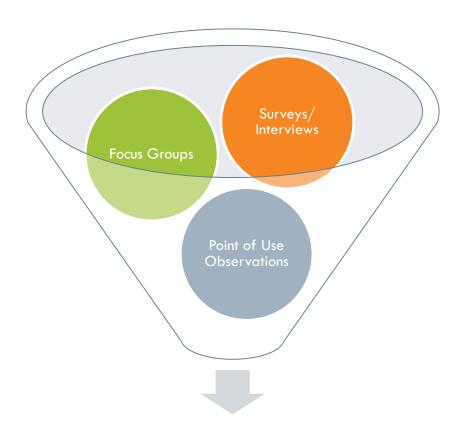
Ask yourself the following:

- What do they need from the process?
- Who gives it to them?
- Where are the gaps?





Voice of Customer Tools



Voice of the Customer



8 Wastes

Process Maps

Core Tools

Value Analysis Root Cause Analysis



8 Wastes

- Waiting
- Overproduction
- Over processing
- Defects
- Motion
- Inventory
- Transportation
- Unused Employee Creativity (fun)



Waiting

Idle time created when material, information, people, or equipment is not ready; time when no value is added to the product or service



Overproduction

Producing more than is required at that time by your customers. Leads to other forms of waste. Also, consider useless-production: choosing or continuing to produce products, reports, or services that do not add value.

Over processing

Performing non-value added activities to change products or services beyond what the customer expects and is willing to pay for. Often the result of inefficient attempts to mitigate risks or forgetting what the customer values.

Defects

Mistakes; unusable products that result from variations in the process; errors in documents or reports; activities that must be reworked before the product or service meets the customer's requirements.



Motion

Unnecessary movement of people to complete the task. This may include travelling or motions such as bending, reaching, and lifting.



Inventory

Money and resources tied up in supplies, raw materials, work in progress, or finished products beyond what is necessary for short term operations.

Transportation

Unnecessary movement of materials (compared to motion which is the unnecessary movement of people). Moving supplies more often or further than should be necessary to complete the job.



Unused Employee Creativity

Underutilization of employees' knowledge, energy, or talent. Lost time, ideas, productivity and improvements - often as a result of not empowering employees or asking them to be creative.

Waste Activity

What process would you like to streamline/improve in your department?

Customers

- Requirements:
- Gaps:

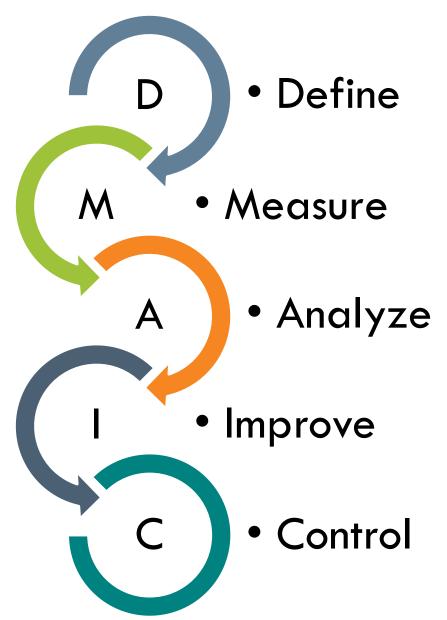
Suppliers

- Requirements:
- Gaps:

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Process Mapping

Time

Varies based on scale of project

Requires 3 Meetings:

- 1. Map current state
- 2. Analyze current state
- 3. Map future state

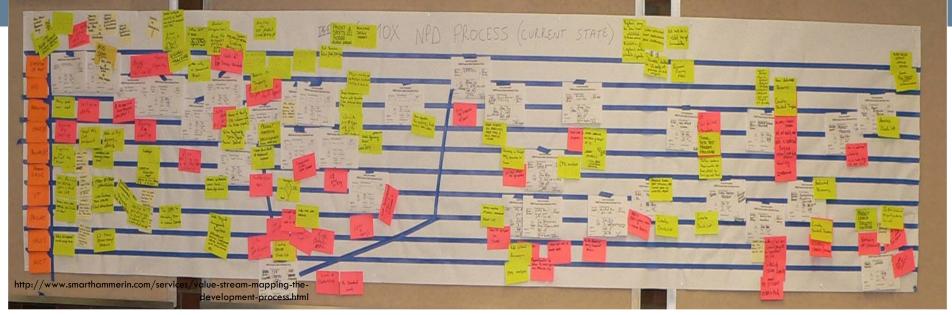
Purpose

To understand all of the steps involved in a process and to analyze each step for value according to the customer's perspective. Directly attacks and eliminates waste to free up capacity in an organization.

Execution

- Hands on process requiring executive support and commitment
- Begin with understanding of customer needs
- Require input from those closest to the work





Detailed Process Map





Value Added Analysis

Value Added

- The customer must recognize the task as important.
- The product or service must physically change or transform.
- The task is done right the first time.

Non Value Added

- Waste. A process step that adds no value to the product or service.
- Does the customer want to pay for this?

Non Value Added, but Required

 A process step that adds no value to the product but is currently required to produce the product or service. A required law, regulation, rule etc. Internal or external.



SIPOC

Time

Approx. 1 hour

Purpose

Identifies the key supplier and customer relationships within the organization. Focuses on understanding the purpose of a process rather than the process itself.

Execution

- Excellent starting place for lean thinking
- Require coordination between departments
- Identify gaps between inputs/outputs that are received/produced versus what's needed



What is a SIPOC?

A SIPOC is a high-level view of a process. It stands for Suppliers, Inputs, Process, Outputs, and Customers:



Person/Organization to a Process.

Resource that is Series of steps where that provides Input added to a Process an Input converts to by a Supplier. an Output.

Resource that is the result of a Process.

Person/Organization that receives products or services.



http://GoLeanSixSigma.com

SUPPLIERS	INPUTS	PROCESS	OUTPUTS	CUSTOMERS
Staff Citizens Elected Officials Financial Professionals Vendors Government Entities Stakeholders Businesses	Internal Data External Data Historical Data Demographic Data Legislative Info Regulatory Info Performance Data Resident Input Funding for Studies 2/17 Draft Financial Plan Computations Assumptions	COMPLETE RESERVE POLICY (DEFINE USES OF EXCESS RESERVES) REVIEW AND DECIDE ON QUICK OPERATIONAL DECISIONS REVIEW DISCUSSION ITEMS UNDERSTAND CHANGES IN REVISED OPERATIONS PLAN REVIEW/PRIORITIZ E CAPITAL AND EXPLORE ALTERNATIVES	2015 Appropriations Sustainable Budget Reserve Policy Reliable forecast model Capital Improvement Plan Know "what is spendable" List of Risks Communication Plan Look at what is Bondable List of 'must haves' Consensus – Something to Adopt Validation of City Services Quick Operational Answers Timeline of Deliverables Desired Level of Services Website Status Tracker 5 year Plan	Citizens Elected Officials Staff Media Lending Institutions Businesses Developers Future Citizens Other Communities Stakeholders/Service s Users Community Groups State/Federal Govt. County Schools MORPC

Root Cause Analysis

Time

Varies based on scale of project

Half day for a simple event

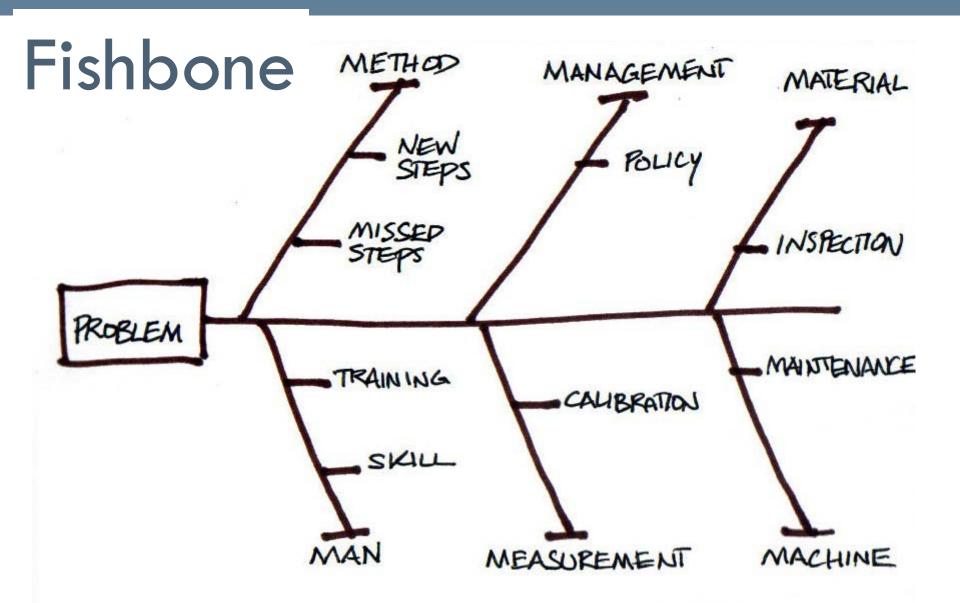
Complex
problems with
high risk may
require
significant
investigation

Purpose

To explore the major contributing factors to a specific breakdown or failure. Focuses on one actual occurrence rather than a type or pattern of failure.

Execution

- Focus on impacted goals
- Rely on facts about what happened
- Require input from those closest to the work
- Deliver several possible solutions





5 Whys

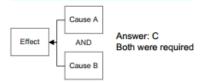




Cause-and-Effect Quiz

What is the cause of a burn by hot coffee?

- (A) Coffee was 180 degrees F
- (B) Person spilled the coffee
- (C) Both A and B



HOT COFFEE BURN

Cause Map

Debate the Solutions, Not the Cause

When a 79-year-old woman spilled a cup of McDonald's coffee in her lap and sued McDonald's, the case quickly became famous. More than 15 years later, it's still presented by some as a case for legal reform to stop frivolous lawsuits and defended by others as an important victory for victims of powerful corporations. But regardless of the legal implications, this famous case teaches a lesson about how to effectively solve problems.

The Basic Facts

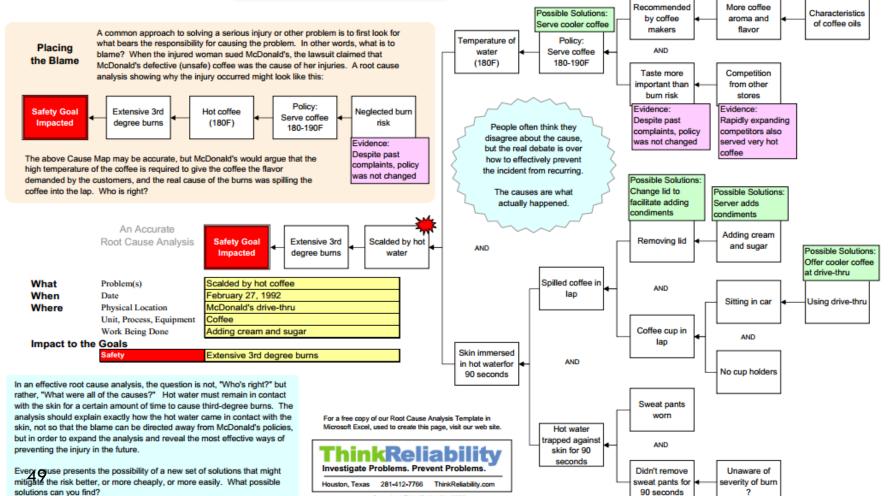
The injured woman was the passenger in a car at a McDonald's drive-thru. She received a cup of hot coffee, sealed by a lid, with an estimated temperature of 180 degrees F.

While attempting to remove the lid and add cream and sugar, she spilled the contents of the cup into her lap. She was wearing sweat pants that reportedly held the hot liquid against her skin for over 90 seconds.

She suffered severe, third-degree burns on her thighs, hips, and groin that required extensive hospital treatment, including skin grafts.

McDonald's defended its policy of serving coffee at a temperature of 180 degrees or greater by arguing that both coffee experts and market research showed that coffee should be served at this temperature. However, McDonald's had received 700 complaints of coffee burns (of varying severity) over the past 10 years.

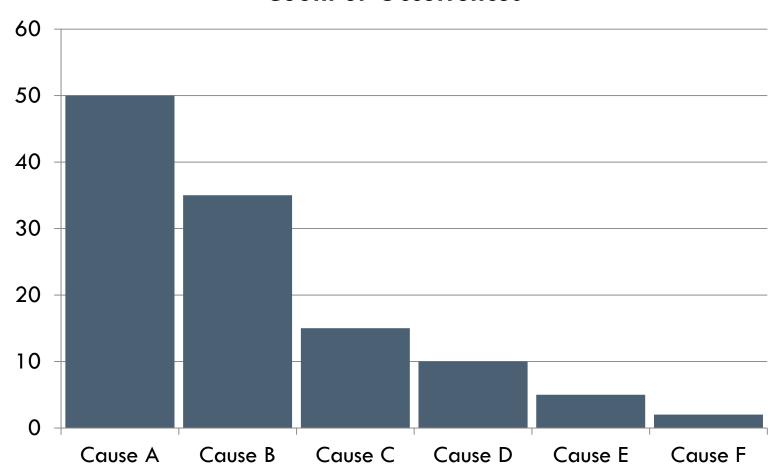
Example from www.thinkreliability.com



Copyright ThinkReliability 2009

Pareto Chart

Count of Occurrences





Pick Chart

Difficulty

Easy

Implement

Possible

Hard

Challenge

Kill

High

Low



Impact

Measures

"You can achieve incredible progress if you set a clear goal and find a measure that will drive progress toward that goal"



Bill Gates: My Plan to Fix The World's Biggest Problems

"From the fight against polio to fixing education, what's missing is often good measurement and a commitment to follow the data. We can do better. We have the tools at hand."



Measures: Points to Consider

The difference between the time it takes to do it and the time it takes to get done.

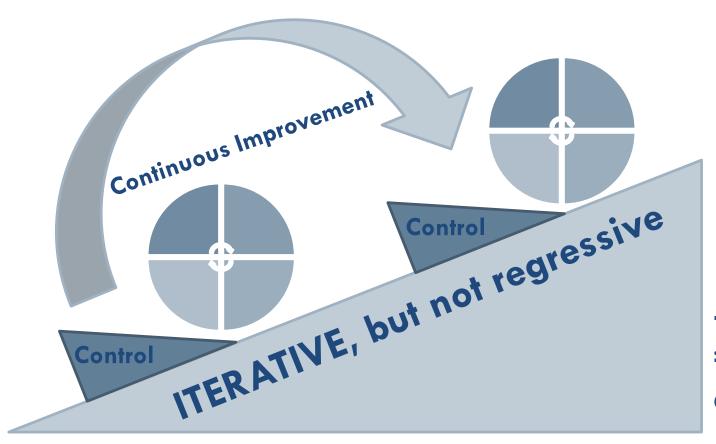
What the customer values as well as key management indicators

The difference between stakeholders in the organization and the customer for a particular activity

Metrics form the baseline for improvement



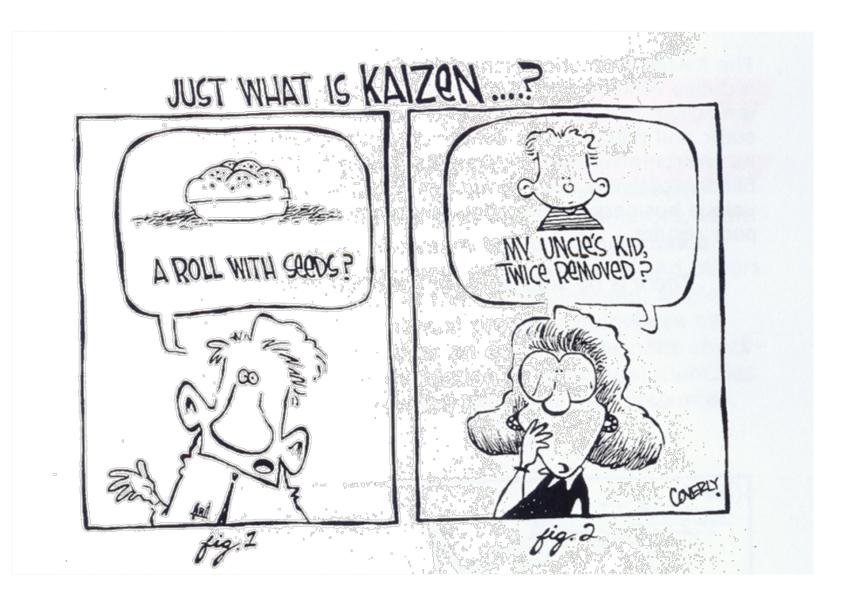
Standard Work

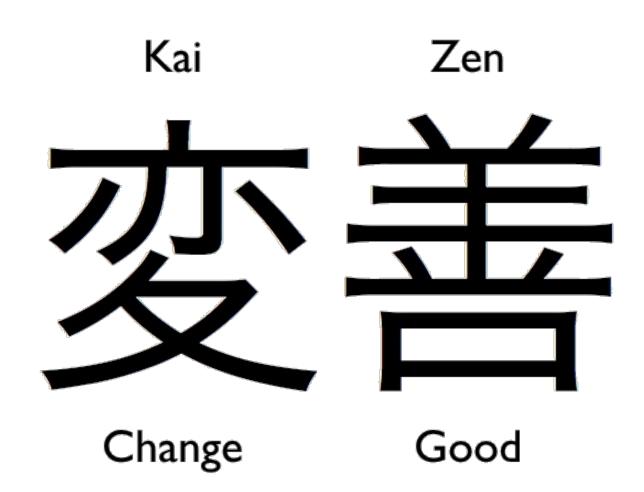


Quality Improvement

Time









Kaizen FAQ

- What is a kaizen?
- Is it really a full time commitment?
- What will that week be like?
- What can I expect coming out of the event?



- Create process map
- Define metrics and set baseline



- Conduct value, waste, and flow analysis
- Conduct root cause analysis



- Brainstorm possible solutions
- PICK solutions
- Create future state map



- Implement recommendations or create plan
- Verify changes with process co-owners



- Establish communications plan
- Present findings to key stakeholders

Define

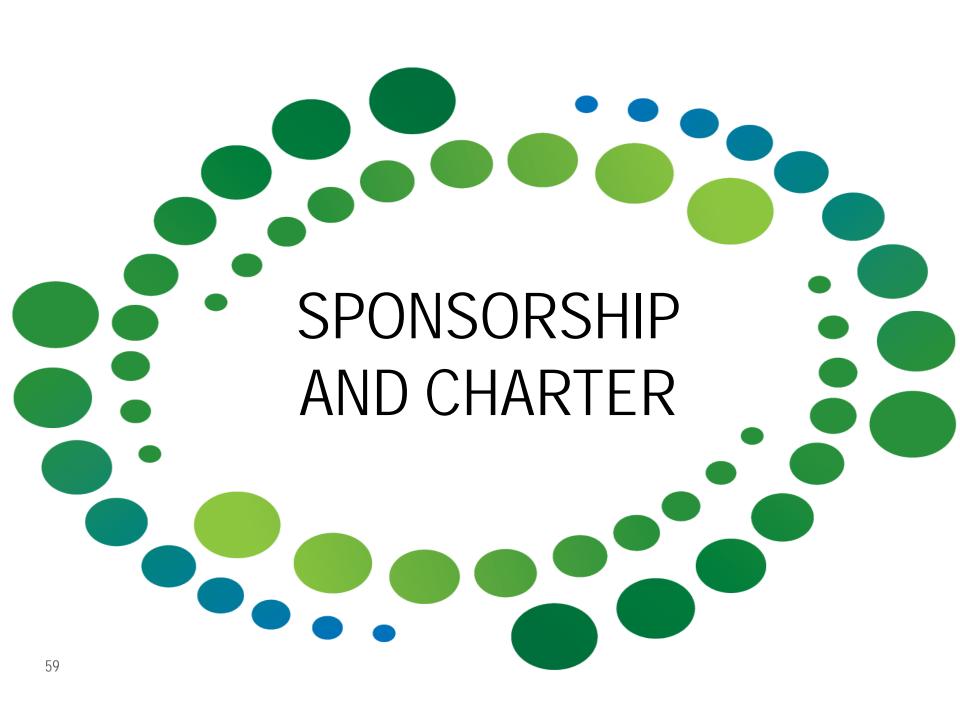
Measure

Analyze

Improve

Control





property which means the City incurs additional staff time and costs and the property owner continues to incur penalties. Dan McConaughy IT - Sally Pomerville Currently, the process to board up, issue penalties, and bill property owners is time intensive for staff and there are delays for the property Code Enforcement Staff (1-2) owners from when the work is done to the time that property owners receive bills. Time delays in billing may be impacting cost recovery Customer Support Staff (1-2) because property owners do not see the full impact of their inaction and trigger additional work and costs. Time delays early in the process delay all later stages and may impact the length of time the property remains in derelict status (non-productive use). Scope Stakeholders Finance **Targeted Outcomes** Code Enforcement **Property Owners** What is the general intent for this situation in the future? How would we know if the project was a success? Collections Agency Increased cost recovery **Bank Representatives Property Preservation** Decrease the time it takes to return building to productive use **Boundaries**

Date: 05/11/2015

Executive Support: Nadia

Sponsor: Lisa Wojtanowicz

Team Lead: Christina Tate

CII Facilitator: Katie Johnston

Team

Team:

Chandler Hardy

From case creation to when the City receives payment.

Project: Derelict Building Process

Problem Statement

Eliminate waste in the process (including financial costs and staff time) Reduce the time from when work is completed/fine issued to billing of property owners

Decrease the number of derelict buildings that are demolished

No new technology investments (OK to request changes to current SAP system)

10116	Timeline			
J()[]S	April	May	June	July
MENT	Prep/Draft Charter	Approve Charter Current State Analysis	Improvement Activity Recommendations	Implementation

Derelict buildings are buildings which are not safe for people to live in. Derelict building pose a safety and human health impact for the

community. The City wants to reduce the number of buildings that become derelict and return derelict buildings to productive use. The

board ups are costly for the City and property owners. As long as the property remains derelict, the City continues reinspecting the

longer the building is derelict the higher the chance of community impacts and possible demolition. The property owner is responsible for securing derelict buildings. When the property is left unsecured, the City boards up the property (approximately 350 annually). These

The Team







- Focused on the process of problem solving
- Equipped with tools for exploring tough issues
- Invested in the team's success
- Dependent on you for subject matter expertise and participation
- Working for the whole team (not just for the CMO, OMB, or management)
- Going to ask a lot of (obvious) questions

- A BLANK expert (I don't have "the answer")
- Invested in a particular outcome
- Going to let the team "fail"

