

Kaizen Introduction

Welcome to the Kaizen workshop





Workshop Objectives

- Learn about Kaizen
- See how Kaizen fits into our business
- Learn about Process Mapping using a Ferag drum stitcher as the model.
- Use Process Mapping results to determine shop floor organisation required for Sheffield.





Why are we doing Kaizen?

- We are doing Kaizen because the circumstances require dramatic improvement.
 We will
 - Achieve our business aims
 - Have a better way of working





British Productivity

- 1970-1994 Britain lost 3 million jobs
- 1994 Study showed the UK to have the most negative workforce in Europe
- 1970-1990 Japan tripled production
- 1970-1990 France doubled production
- 1970-1990 Britain was the only industrial power with no increase





Kaizen Definition

投

KAI = CHANGE

美当

ZEN = FOR THE BETTER

改善

KAIZEN = CONTINOUS IMPROVEMENT





Kaizen - What it is not

- Kaizan
- Kaisan
- Kaisen

- Falsification
- Break up
- Scabies





Kaizen definition

Continuous improvement through the elimination of waste involving everyone in the business

This can only be maintained by self-discipline and standards





Kaizen – where are we now?

The starting point of KAIZEN is to recognize that whatever we are doing, can be improved.

Some people set the challenge by saying "We should regard how we currently do our job as the worst way to do it."

In order to improve we must first perceive the need for change, then recognise the problems and work to solve them.





What is a Paradigm?

A paradigm is a set of rules and regulations (written or unwritten) that does two things:

- It establishes or defines boundaries
- It tells you how to behave within these boundaries in order to be successful

When we react to a situation in a stereotyped or usual way this is called a paradigm





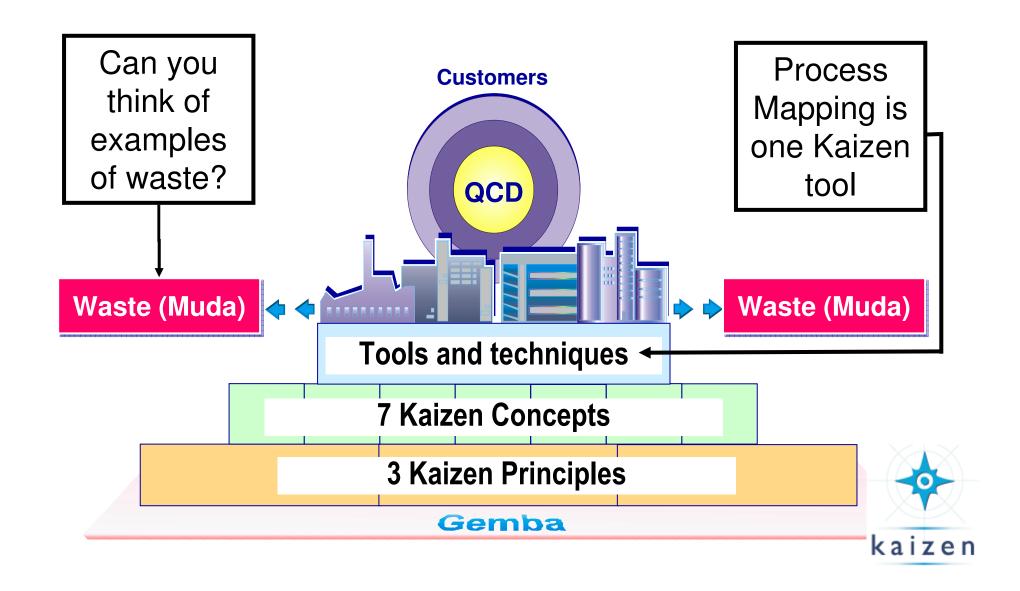
Paradigm Example

- Sony made research into laser disks until 1976 when research was shelved as it was deemed to be inappropriate as a medium for audio.
- In 1979 Phillips wanted to talk to Sony about setting new audio standard for audio disks
- Although Sony had shelved their project they invited Phillips over
- Sony assembled the team who had done their research to meet the Phillips representatives
- The Phillips representatives started by stating that they knew Sony were way ahead in terms of R&D. They then showed Sony a prototype CD a little larger than today's CD.
 - "We think this is about the right size", they said
- Sony realised the paradigm that had made them shelve the project they had made their disks the same size as a vinyl LP!
- Once they realised their paradigm the rest is history!





The Kaizen way of working





The 7 deadly wastes!

- Overproduction
- Inventory
- Transport
- Movement/motion
- Over-processing
- Waiting
- Defects

The 8th Waste - Talent





7 deadly wastes: Over-production







7 deadly wastes: Over-production







7 deadly wastes: Inventory









7 deadly wastes: Inventory



Perfect Binder spine glue.

1 container needed per week.

1 months worth of stock in place!

Each container costs £500.





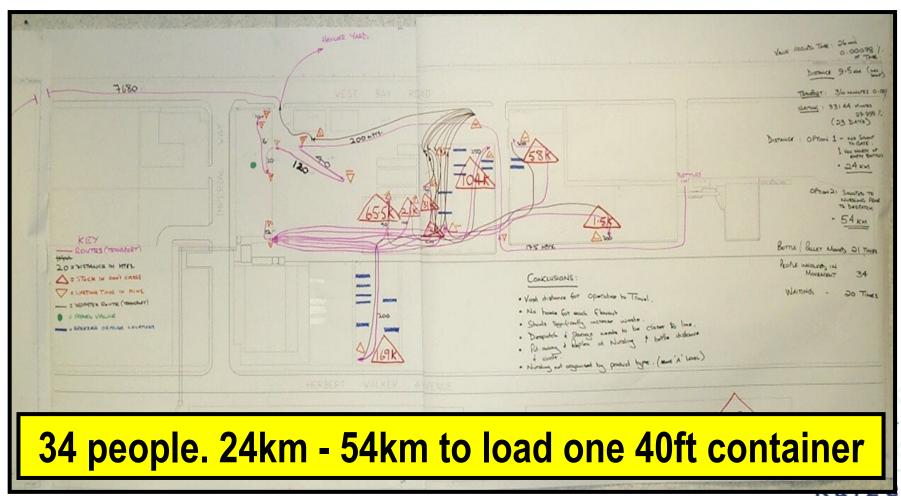
7 deadly wastes: Transport







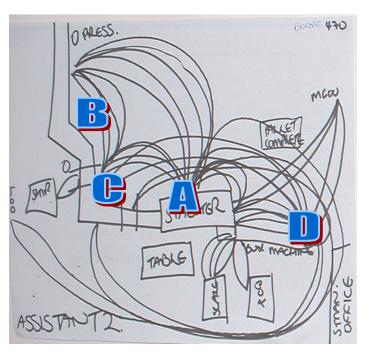
7 deadly wastes: Transport





7 deadly wastes: Movement/Motion

Example



Where to-from	Distance (Yards)	Number of times	Total yards
A-B	30	6	180
A-C	20	4	80
A-D	25	5	125
B-C	15	3	45
C-D	20	2	40
		Total	470





7 deadly wastes: Movement/Motion

 Bending, stretching, reaching.

Carrying heavy items.

 Stock too low or shelves too high







7 deadly wastes: Over-processing

Inserts are often received in boxes



When they could be bulk packed



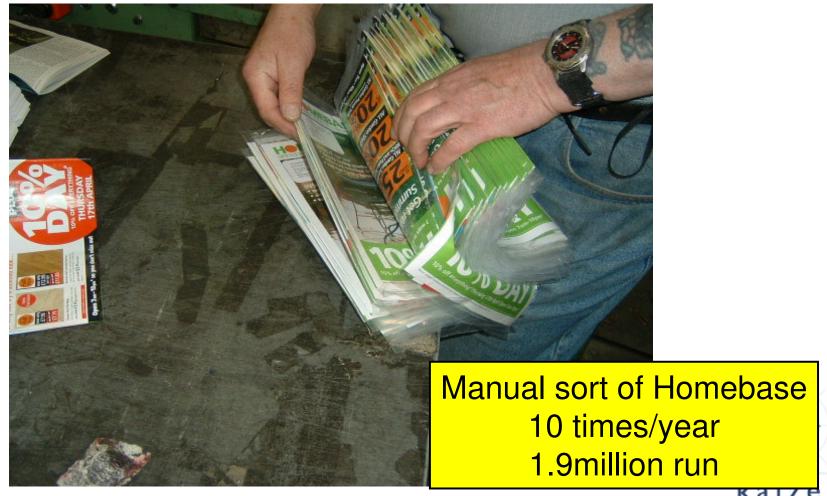
Extra work

- remove sellotape
- open box
- take bundle out of box
- destroy box





7 deadly wastes: Over-processing





7 deadly wastes: Waiting







7 deadly wastes: Defects







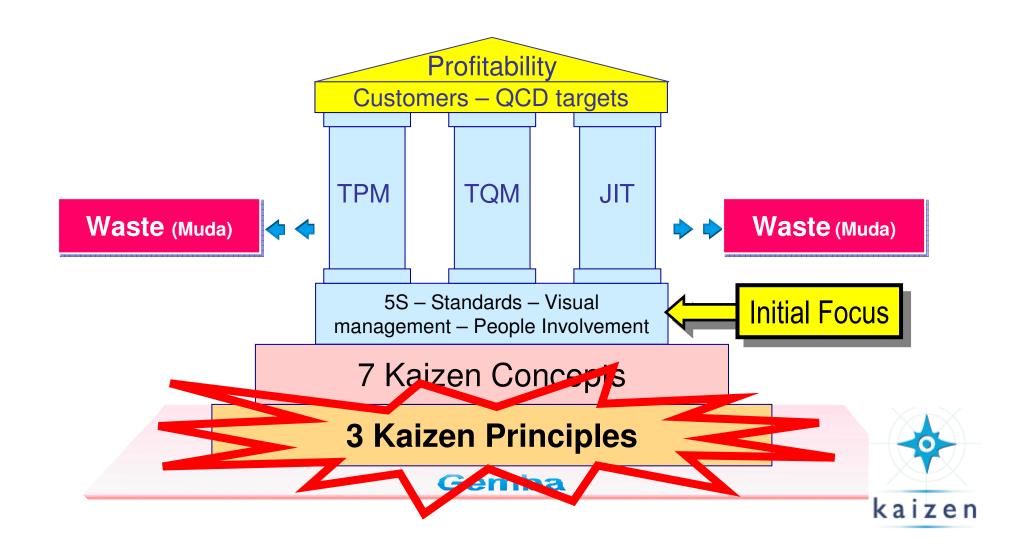
7 deadly wastes: Defects



kaizen



Kaizen





Kaizen Principles

- Processes and results
- Total systems
- Non blaming/non judgemental





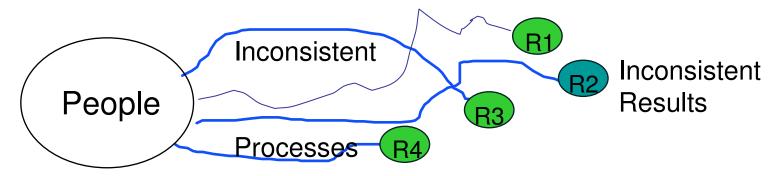
Process and results

"I don't care how you do it, just give me the results!"

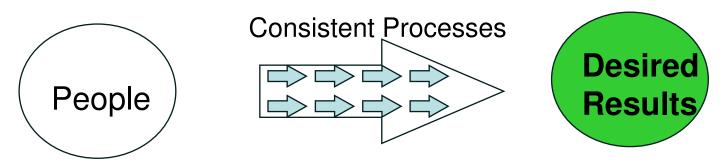




Process and results



TRADITIONAL = People doing what they can to get Results



KAIZEN = Using processes to get Results





Non Blaming/non Judgemental

People and problems

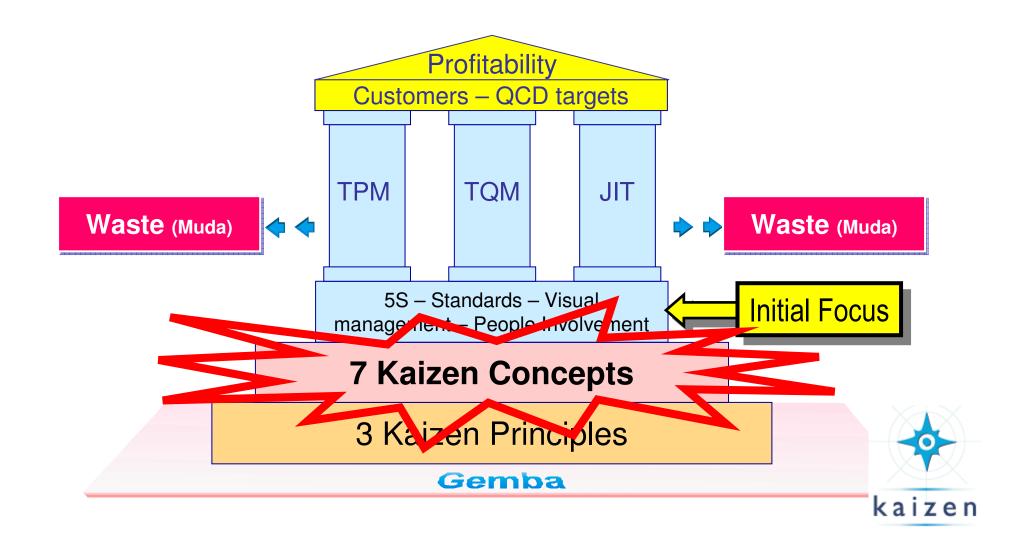
- People are not the problem
- Blaming people does not solve your problem
- The answer is to make people problem-solvers!

The 1st time management gets angry is the last time it will get good data about what's going on !





Kaizen





Kaizen concepts

- SDCA to PDCA
- The next process is the customer
- Quality first
- Market-in
- Upstream management
- Speak with data
- Variability control and recurrence prevention (ask "why?" 5 times)





SDCA to PDCA

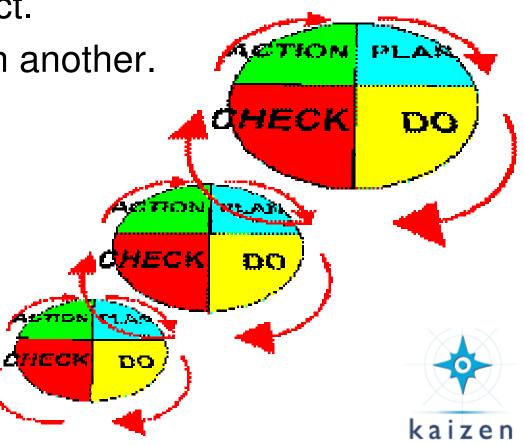
PDCA cycle.

Plan, Do, Check, Act.

Finish one item with another.

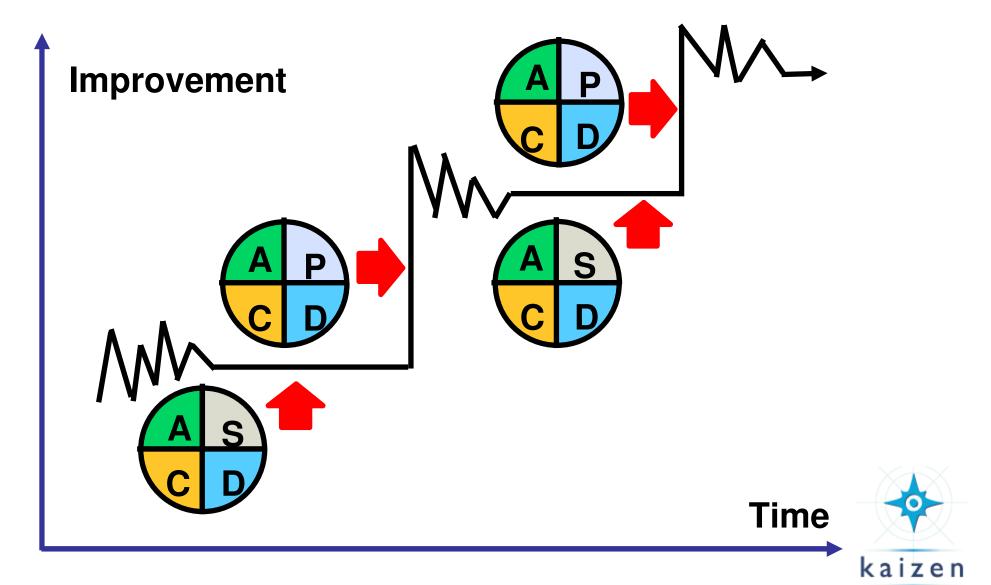
Never ending.

Always improving.





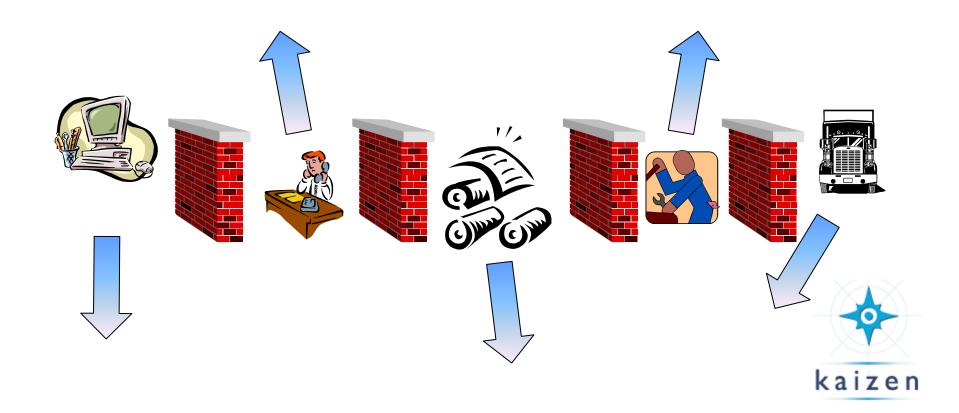
Using PDCA / SDCA





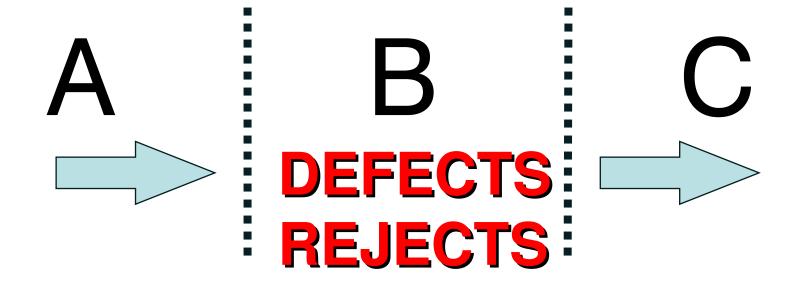
The Next Process is the Customer

- Customer/supplier chains
 - Each department should see the next in line as their customer
 - E.g. the press hall should see the bindery as their customer.





What is Quality First?



Do Not Receive
Do Not Make
Do Not Pass On





Market-in:

Conventional Model

Cost + Profit = Selling Price

Is a result of cost + profit

kaizen

Is determined by the customer

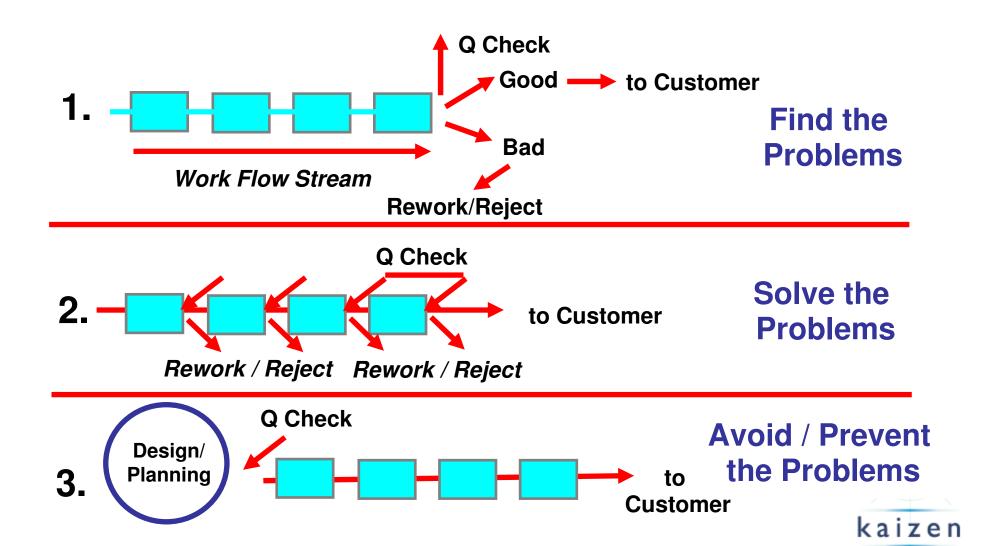
Market-in Model

Selling Price - Profit = Cost

Cost is decided by the market and the profit needed by the company



Upstream Management





Only Speak With Data



The press is always breaking down

- We always waste a lot of material during make ready
- We have a lot of customer complaints



- The press broke down 3 times this week, which represents 4 hours stoppage time
- We wasted 3500 copies during make ready

kaizen



month.





Variability Control and Recurrence Prevention



