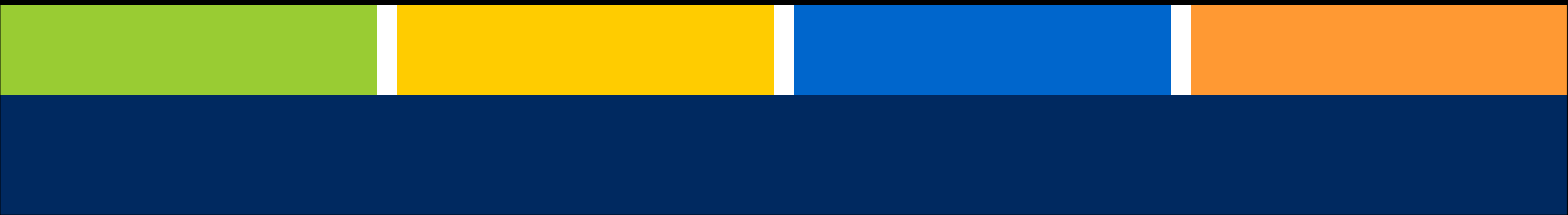


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KAIZEN



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- ❑ What is Kaizen (Overview)
- ❑ Why Kaizen
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Overview

- Kaizen is a Japanese term which simply means change for the better

Kai	Zen
	
Change	Good

What is Kaizen?

- ❑ **The primary goal of kaizen is to achieve excellence in quality, cost and delivery simultaneously**
 - Total Quality Management and Control (TQM and TQC) are key elements supporting quality production
 - In Kaizen cost management is not cost cutting but reducing cost by eliminating waste
- ❑ **Develop products with higher quality, lower cost and higher productivity in meeting customer demand**
- ❑ **Kaizen is more of a continuous improvement mindset than a tool**
- ❑ **The key piece of Kaizen mindset is that everything can be improved and everything can perform better or more efficiently**



Kaizen Principles



Change



Efficiency



Performance



Elimination of waste

- Achieve all the above through continuous improvement

Why Kaizen?

- Just in time process improvement
- Low cost & low risk
- Better results
- Speed up the change process
- Structured approach
- Used by many companies as a way to obtain great benefits in a quick and effective manner
- Does not demand great investment for implementation but demand continuous efforts and commitment
- Does not need high cost technology but low cost techniques are sufficient

Why?
Kaizen

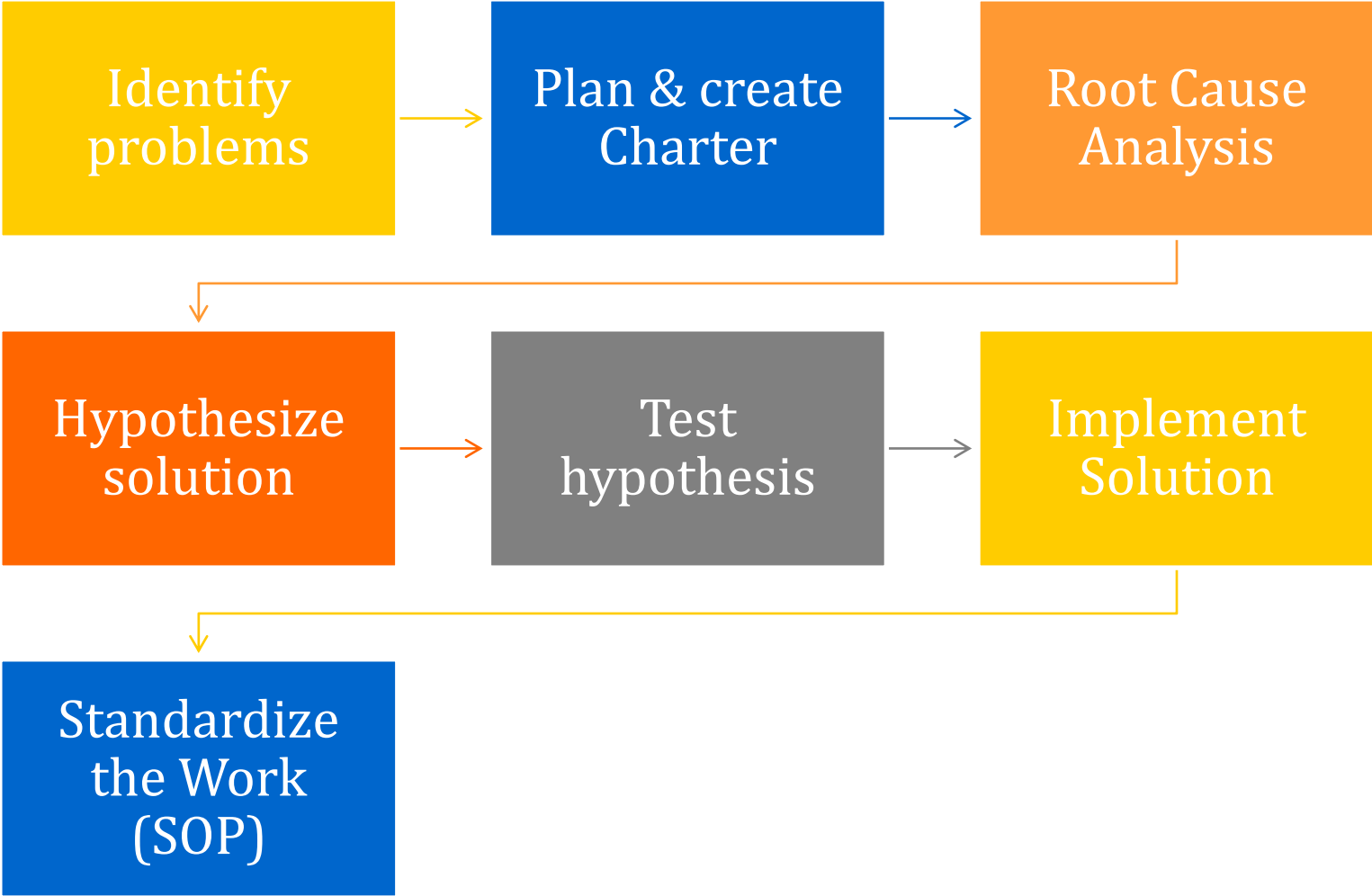
Need for Kaizen

It helps organization to achieve better operational excellence and improve their productivity through

- Discovering problems at their source and solving at the source
- Decreasing the waste in some areas
- Better use of production capacity, capital and employee retention
- Elimination or transformation of existing procedures
- Concentrating on small improvements to get immediate results

Kaizen Approach

Kaizen Approach



Kaizen Approach

- ❑ It can greatly contribute towards the growth of your business, standardize the working culture and measure all possible metric to attain the best market results
- ❑ Kaizen should be considered to be a long term project
- ❑ Trying to link Kaizen to key performance indicators
- ❑ All employees of an organization needs to be involved in Kaizen activity
- ❑ Need to commit to the process and ready to accept small changes

Kaizen Tools

1. PDCA
2. 5 Why's?
3. Cause and Effect Analysis/Fish-bone Analysis
4. Kanban
5. TQM
6. Just In Time (JIT)
7. Total Productive Maintenance
8. ...

PDCA

□ Plan Do Check Act



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PDCA - Stages

Plan for changes to Bring about improvement

- Flow charting
- Brainstorming
- Root cause analysis

Do changes on a small scale to first try them out

- Experiment design
- Conflict resolution

Check to see if changes are working and to investigate selected process

- Control Charts
- KPI's
- Data check sheets

Act to get the greatest benefit from changes

- Process standardization
- Formal training for standard process

When to Use PDCA

- There is a problem that needs to be addressed
- Have a solution for problem but not sure if it would work 100%
- It always makes sense to run well crafted pilot projects
- Then if the pilot does not produce expected results, have a change to improve and fix the problem

Advantages of PDCA

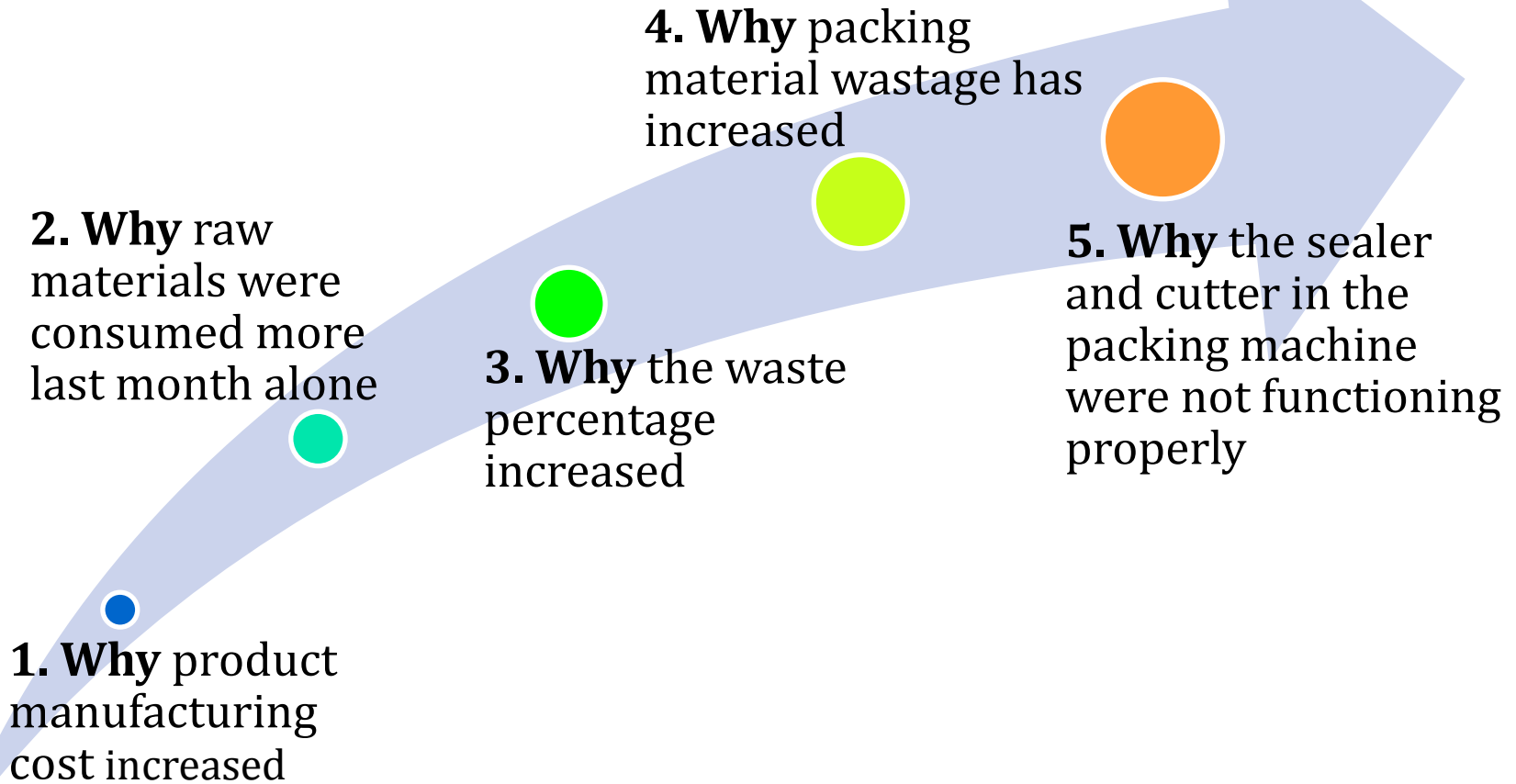
- ❑ PDCA provides a simple but effective approach
- ❑ Encourages you to be methodical in your approach to problem solving and implementing solutions
- ❑ It helps in increasing the processes ensuring the quality of product or process is up to the industrial standards
- ❑ Minimizes cost by allowing a business to test a process or model before implementing which might work or not
- ❑ Once a model or process is tested and approved, then it can be easily transferred to other parts of the business

5 Why's

5 Why's

- ❑ It is an analysis method used to identify the root cause of a problem
- ❑ This method involves asking why's in continuous succession
- ❑ It is an iterative question asking technique to drill down to the root of the problem

5 Why's Example



Kaizen - Case Study

Kanban System

XYZ Industries

Improve On-Time Delivery

Case Study : Kanban System

xyz Industries

- Producers of screws, fasteners and other automobile parts for Ford, GM and Chrysler
- Customer orders start coming in 10 days before the date of delivery
- Production team will have a duration of 10 days for most customer order to complete the production
- The parts are picked up by the customers on the date of delivery

Case Study : Kanban System

Problem Statement:

- Unable to meet on-time delivery due to under production
- Over production leading to inventory holding cost and raw material cost
- Unable to control WIP and FG inventory

Objective:

- Manufacture products 3 days ahead of delivery date
- Manufacture only the required quantity or demanded quantity

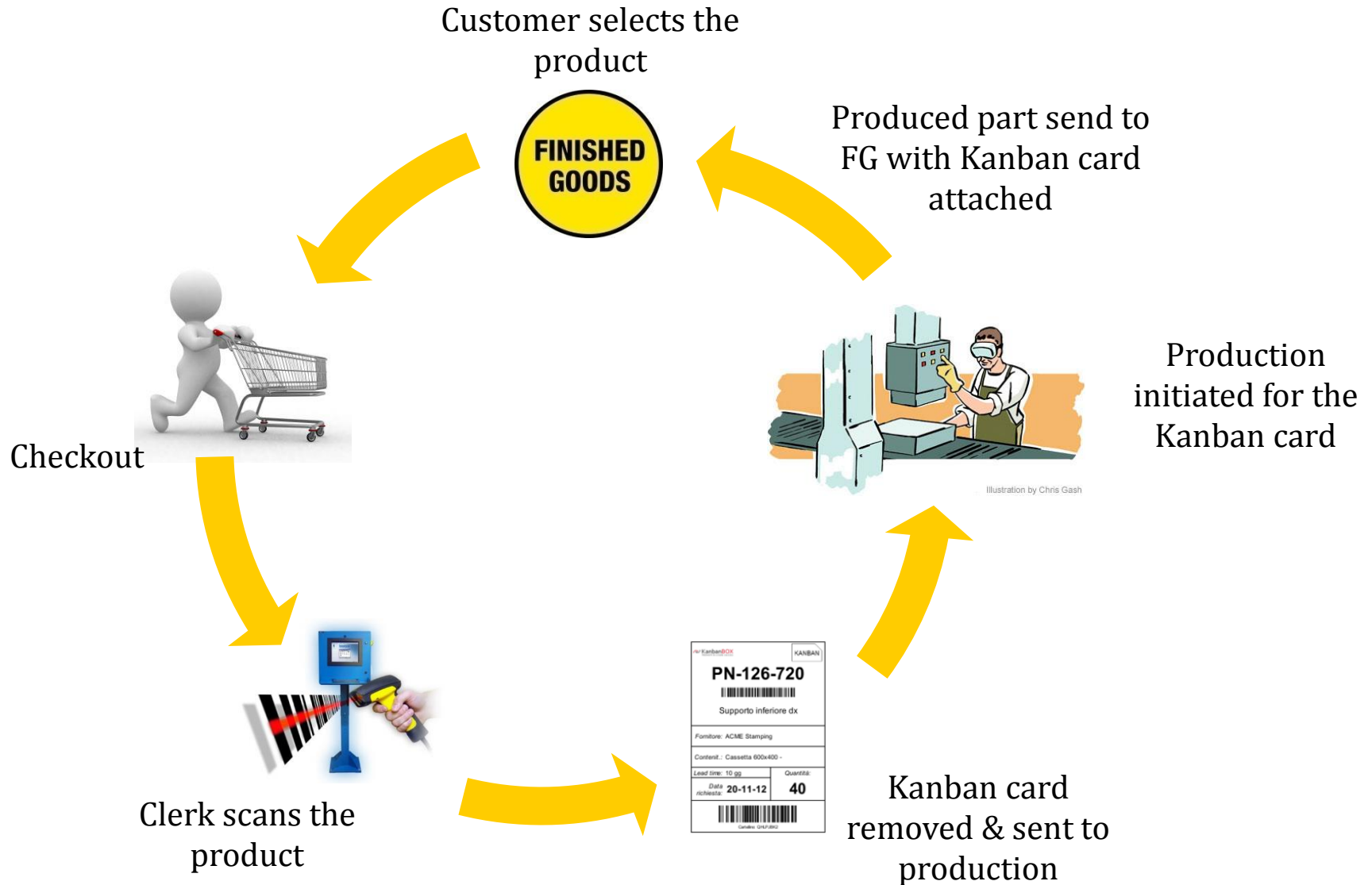
Solution:

- Implement Kanban system for high running products

Case Study : Kanban System

- ❑ Kanban is a card with an inventory number attached to a part
- ❑ Right before the part is dispatched, the card is detached and sent to the production as a request for another part
- ❑ So, a part is manufactured only if there is a Kanban card for it

Case Study : Kanban System



Kanban Card

XYZ Industries
KANBAN CARD

S. No : 1 of 24

Customer Name : FORD

Part Number: 6C3417A386AB

Std Quantity : 500

Totes : 24

FORD-6C3417A386AB-1-24-500

Case Study : Kanban System

- No items are made or moved without a Kanban
- A kanban must accompany each item at all times
- The number of kanban were monitored carefully to reveal problems and opportunities for improvement

Summary

- Kaizen
 - Continuous Improvement
 - Change for good
 - Discard conventional fixed ideas
 - Think of how to do it, not why it cannot be done
 - Ask 5 Why? And determine Root Cause Analysis
 - Do not seek perfection, do it even if you have only 50% of the target
 - Correct it right away, if you make a mistake
- Need for Kaizen
 - Easy to implement
 - Step by step process
- Kaizen Tools
 - PDCA, 5 why's, Kanban, etc...

Contact Us

For more information,
please contact:

Swetha Kochar

Associate Partner

+91-98401-30516

swetha@pkcindia.com

Corporate Office

+91-44-25323-666

info@pkcindia.com

www.pkcindia.com

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