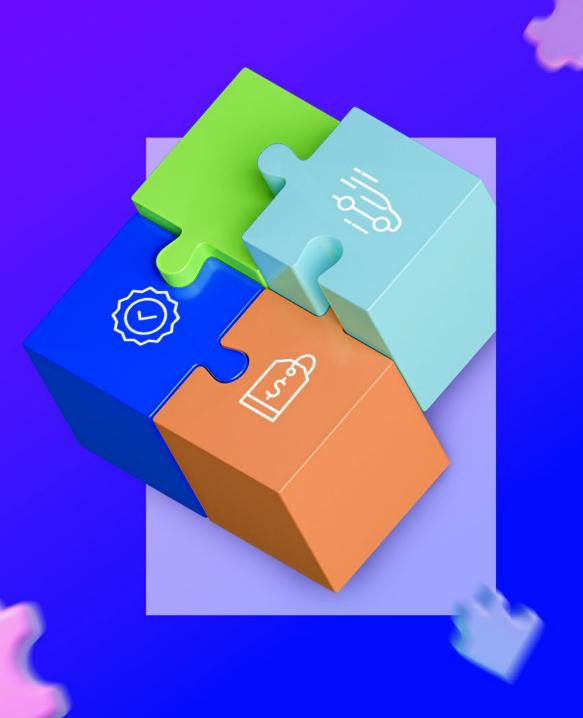


# Business Transformation Using Lean Six Sigma (LSS)

January 2023



# Quality-Cost-Delivery (Speed) – 3 Key Elements of Operations



# Quality

**Quality** refers to the usability (in functional and psychological aspect), reliability, and safety. Also, influence on the third parties, society, environment, and future generations needs to be considered.

 Quality is not only meeting the stated requirements of customer but identification & meeting latent requirements as well



Cost

- <u>Value (Price)</u> is what customer is willing to pay for the product or service.
- Competition decide the price.
- <u>Cost</u> is the only element where manufacturers / suppliers / service providers can have control.
- Cost decides profitability.



# Delivery

 <u>Delivery (Speed)</u> would affect the customer satisfaction; no customer would like to wait for the goods and services.



# Are you facing any of the following issues related to QCD?



Missing Delivery deadlines due to long lead time



High cost due to rejection / rework



**Repeat customer complaints** 



Low productivity



New product launch not successful



#### Poor employee morale





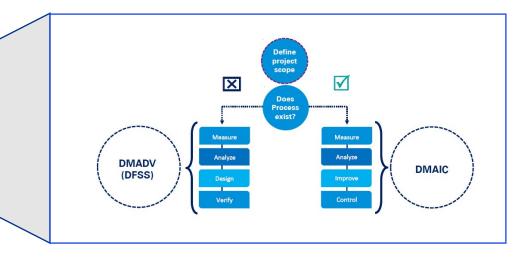
### Potential Solution to overcome these issues is 'Lean Six Sigma'

### Cost = **f**(Quality, Speed)-

**Lean** – address the wastes in the process to deliver **SPEED** 

**Six Sigma** – address the defects and variation in the product & process to deliver **QUALITY** 

Lean Six Sigma methodology has 2 frameworks: DMAIC – for improving existing processes DMADV – for new product / process design





# What is 'Lean Six Sigma'?

#### Lean

**Lean**, pioneered by Toyota, focuses on the efficient operation of the entire value chain.

#### Focus areas:

- Remove non-value adding steps to:
  - Reduce cycle time
  - Improve quality
- Align production with demand
- Reduce inventory
- Improve process safety and efficiency

#### Six Sigma

**Six Sigma**, developed by Motorola, made famous by GE, can be defined as a:

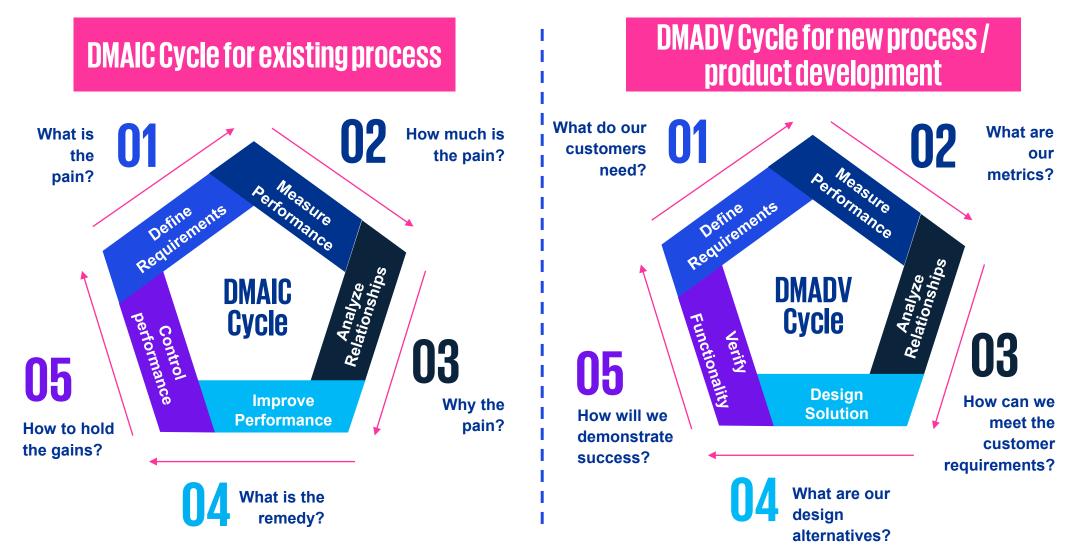
- Measure of process capability
- Set of tools
- Disciplined methodology
- Vision for quality
- Philosophy
- Strategy

### Lean Six Sigma

Lean Six Sigma (LSS) is a combination of two powerful and proven process improvement methodologies Lean and Six Sigma, that builds on existing organization capability in quality, statistics, and project execution.



### Lean Six Sigma Implementation Approaches



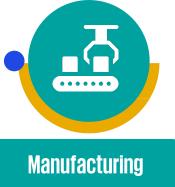


# Adoption of LSS across diverse sectors (a glimpse of few projects)



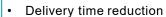
#### Retail

- Reduction in procurement time
- Optimization In inventory cycle
- Improvement in delivery time
- Helps in identifying opportunities to eliminate waste and reducevariations
- Improve invoicing cycle time
- Streamline item order cycle
- Optimize and improve goods
   disbursement layout and cycle
- Improving customer satisfaction by reducing TAT for customer billing
- Improving transportation cycle and more....



- Production Cycle Time reduction
- Production/process defect reduction
- Breakage handling error reduction
- Changeover timings reduction
- Production planning accuracy
- Logistics optimization
- Inventory management
- Procurement /material acceptance accuracy
- Downtime reduction
- Capacity planning/ preventive maintenance and more...





- Defect reduction for
- high/medium/low severity bugs
- Robotic arm displacement accuracy for chip manufacturing
- Requirement stability index enhancement
- Requirement gathering accuracy
- RD-HLD-LLD translation
   accuracy
- SLA compliance/productivity
   enhancement
- TAT reduction for agreed KPI
- Lean processes work value analysis and more...



Healthcare

- Reduced OPD waiting time
- Faster billing cycle
- Increased manpower productivity
- Better patient management
- Improved coordination between departments
- Faster response rate
- Overall financial gains
- Increased response rate to emergency responses
- Improved quality of care
- Increased brand loyalty
- Increased shareholder value
- Reduced TAT for medicine issue from pharmacy
- Reduce TAT for patient discharge, lab andradiology reports and more..



# Adoption of LSS across diverse sectors (a glimpse of few projects)



#### Finance and Accounting

- Reduction of turnaround time for book closure
- System error proofing
- Reducing disbursement time
- Reducing the working capital and financial requirements
- Optimizing cash cycle
- Reduce instances for non-Compliance
- MIS data accuracy for statutory reporting
- Underwriting accuracy for
- loan/insurance processes
- Eliminate delay in application review
- Eliminating the possibility of erroneous data entry
- and more...

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- Increasing the effectiveness
   of sales budget
- Optimizing sales to cash cycle
- Increasing the reach of existing products
- Identifying the potential in new market products
- Maintaining project timelines
- Optimizing new product development cycle
- Increasing customer engagement
- Market research data accuracy for product/service potential
- Pre-sales campaign accuracy
- and more...

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#### Human Resources

#### • Reducing onboarding time

- Salary normalization
- Compensation strategy
- /predictive analysis
- Data accuracy for cost of living analysis and others
- Resource initialization for
- T&M billing projects
- Resource loading/productivity improvement
- Salary/separation/PF disbursement for employee satisfaction
- Competency mapping accuracy
- Breach instance reduction for SLA
- and more....



**Operations** 

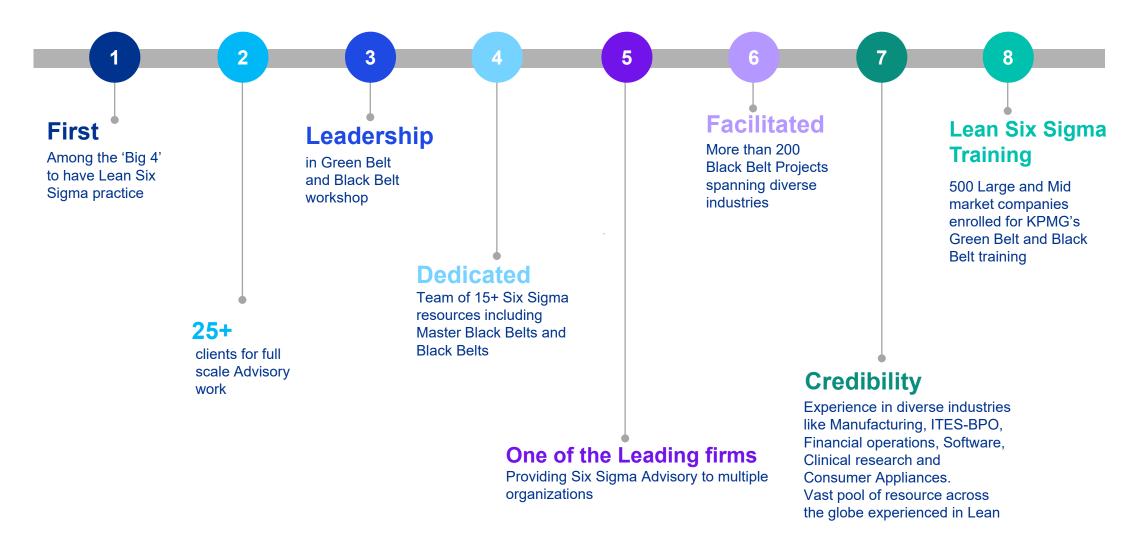
- Reduction of turnaround time
- System error proofing
- Optimizing product disbursement time
- Reducing the working capital and financial requirements
- · Optimizing cash flow
- management
- Focused Cost reduction facility management, transport management, energy management, travel management and related more
- Work flow optimization for faster process execution and more....

8



# How KPMG could help clients in LSS Deployment

### Introducing LSS Advisory



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# How KPMG could help clients in LSS deployment

#### A Comprehensive Approach : Road Map for LSS Deployment in an organization



#### Diagnosis, Project Selection & Organization

- Understanding business & key issues
- Selection of high impact
   LSS projects
- Organization Design



**Project Definition** 

Team SelectionProject charter



Training and Project Work

- Belt training
- Project initiation & Facilitation

### Project Review and Completion

Execute projects
Document and publicize success stories

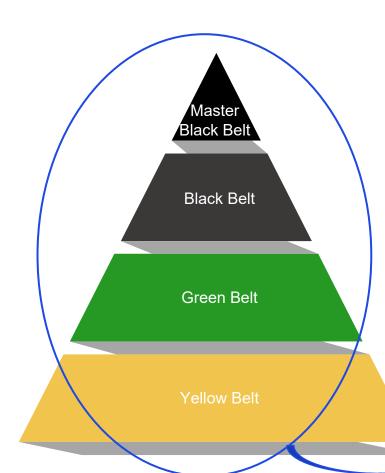


### Institutionalize Lean Six Sigma

Horizontal spread to all areas



### Lean Six Sigma Competency levels





Lean Six Sigma Yellow Belt is an individual who has attained a basic knowledge of Six Sigma but does not lead projects on their own

The training covers:

- Overview of lean six sigma
- Explanation of DMAIC
- Seven QC tools



certification course wherein

you will receive a hands-on

intermediate statistical tools

and techniques. These are

essential for participating in

· Overview of lean six sigma

Explanation of DMAIC

Intermediate Statistical

improvement projects.

The training covers:

Tools

understanding of basic to

#### **Black Belt**



The Black Belt Certification is a third-level belt of the six-sigma family and the most exceptional level affirmation.

#### The training covers:

- Overview of lean six sigma
- Explanation of DMAIC
- Advanced Statistical Tools
- Project management Tools

20

**Master Black Belt** 

Master Black Belts are experts responsible for the strategic deployment of Six Sigma within an organization.

#### The training covers:

- Strategic deployment of six sigma
- Stakeholder
   management
- Project management
- Team Management

KPMG also offers a one-day 'Champions Program' to equip the Senior Management with managerial and technical knowledge necessary to drive Lean Six Sigma culture in the organization.



# Establishing LSS Management Office (LSSMO) - Overview

To drive business transformation projects for realizing management vision and build a culture of continuous improvement using Lean Six Sigma

Approach KPMG will deploy Experts at client site and help build a structure for sustainable improvement

#### **Benefits to the Organization**

- LSSMO support leadership in deployment of long term and short-term business plans
- Initiative managed by KPMG professional experts resulting into faster deployment of LSS
- Long Term Capability Building for driving such initiatives

#### **Benefits to the employees**

- Working hand in hand with KPMG experts
- Multi perspective learning



# Establishing LSS Management Office (LSSMO) – Key Activities

- Conduct diagnostic study and understand business issues
- Establish LSS Management office and governance structure
- Identify priority issues and high impact improvement projects
- Identify internal teams for various projects
- Capability building on LSS
- Driving projects by engaging senior leadership team and other resources
- Periodic review and management updates
- Publishing success stories
- Rotating PDCA / projects cycle continuously to realize management vision
- Handover of LSS MO to the organization
- Periodic review by KPMG on the LSSMO operations



### **Our Team**



**Vo Thuy Doan Trang** Director Green Belt

**Deepak Bansal** 

Director Lean Six Sigma Master Black Belt, Advanced TQM



Hoang Thi Hong Ha Associate Director Green Belt



**Quyen Anh Ngoc** Associate Director Black Belt



Vu Anh Kha Associate Director Green Belt



**Pratiksha Bhanti** Associate Director **Black Belt** 



**Nguyen Thi Kieu Chinh** Manager Black Belt



**Nguyen Thi Hoang Yen** Manager Green Belt



Nguyen Thu Manager Green Belt



Nguyen Thi Hong Van **Assistant Manager** Green Belt



**Quyen Minh Tuan Senior Consultant** Green Belt



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