#### THE GLOBAL AND MUTUALLY BENEFICIAL HUB

&

## 4W Continual Quality Improvement

(Case Study 6)

BY

#### **AOEC**

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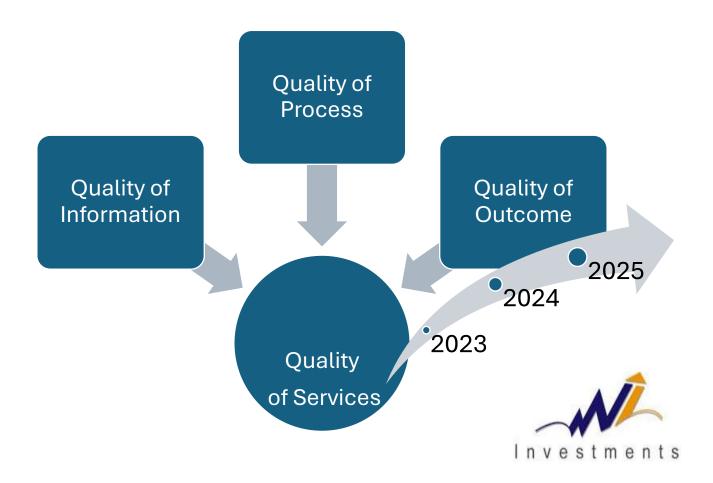
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## **TGMB Brand Equity Vision**



#### 3. EXECUTIVE SUMMARY

The Case Study focuses on Continual Quality Improvement Via questionnaires and reviews.

#### **Transformations or Ripple effect**



Today most dealer networks for automobile brands deal with

Manufactured/ CBU/Assembled products. These dealerships involve Showrooms, Service Centres, Service Workshops, Accident Repair Workshops, 24/7 Assistance, Warehouses etc. The investments are many.

For a brand and its need to enter, penetrate and grow in the market, SMART Brand Analytics is a solution finding that designs synergetic performance in automotive businesses.

Continual Quality Improvement (CQI) is the NEXT Step that holds all effort to design and implement synergetic performance together.

AOEC finds that a business can initiate projects to design CQI in its business practices. AOEC states that implementing such practices can make a business an Asset for its domain/sector.

AOEC finds that the automobile dealer network is a domain where CQI practices can help performance, profit making, return on investment and brand equity.

#### The Processes that help implement CQI via ZED as per relevance to the business are

- (a) Design Management (not relevant directly for the automobile dealer network)
- (b) Production Management (not relevant directly for the automobile dealer network)
- (c) Quality Management
- (d) Safety Management
- (e) Environmental Management
- (f) Energy Management
- (g) Natural Resource Management
- (h) Human Resource Management
- (i) Intellectual Property Management
- (j) Performance Management
- (k) Improvement-Innovation-Learning
- (1) Legal Compliance
- (m) NEXT Steps for sustainable development and growth (proposed via Business Intelligence and SMART Business Analytics)

The Government of India (GOI) via Quality Control of India (QCI) has recommended that governing bodies like MSME Development Institute refer and use the ZED (Zero Defect Zero Effect) framework for improving quality assurance and performance.

AOEC's Case Study series helps a business or dealer network incorporate Quality Control and CQI in the above areas. Please ask for more information by emailing us at <a href="mailto:venkataoec@gmail.com">venkataoec@gmail.com</a> or by calling us on 919342867666

## 4. A NOTE FOR THE COMPANY ASSESSED

Name:

**Nature of business:** 



#### 5. OBJECTIVES OF THE CASE STUDY 2



## Analyze and support the important management methodologies being used for branding in

- (a) Dealership/Showrooms,
- (b) Service Centre/Workshop related Customer Relationship Management, and
- (c) Business Analytics for Brand Promotion/Penetration/Assertion
- (d) Continual Quality Improvement for Brand development and growth

#### Steps followed to evaluate these pain points and present recommendations

- 1. Understand the impact on market position and business objective of the organization via the help of assigned members of the organization
- 2. Collect case study data by management level interactions, and interviews to develop evaluation methodologies for improved branding
- 3. Complete Evaluations via Statistical Tools (and the use of Datasets, Tableau and Excel)
- **4.** Present Results via a Case Study Report

#### Remarks about how this can help:

#### 5. THE CASE STUDY REPORT

This Case Study report includes Key Opinion focus (for brand development and growth) such as

- 1. Business Intelligence (BI) via KPI(s) and SMART Business Analytics (BA) for Continual Quality Improvement (CQI)
- 2. Budget and Financial Ratios Management programmes / enablers
- 3. Dataset Creation

Low

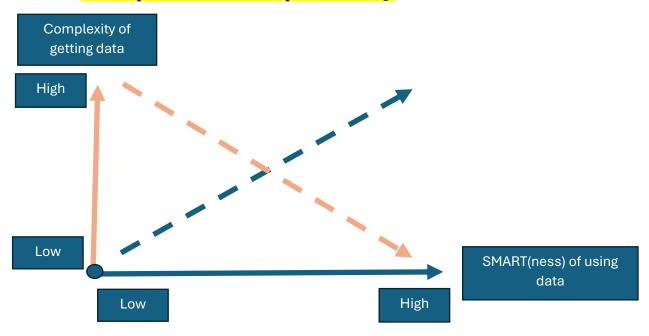


#### Some attributes of data quality required for CQI

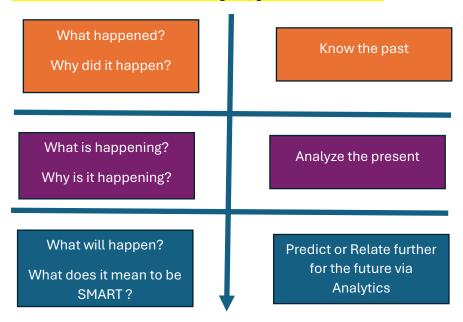
- 1. Relevant for data collection and evaluation
- 2. Accurate for evaluation and decision making
- 3. Credible for reference, evaluation and decision making
- 4. Accountable for analysis and decision making
- 5. Valid for collection, analysis and decision making
- 6. With preferred Integrity or Linkages for analysis and decision making
- 7. Interpretable for linkage, analysis and decision making
- 8. Coherent for reference, analysis and decision making
- 9. Timely for analytics and decision making
- 10. Periodic or Continual for synergy, analytics and decision making
- 11. Proactive but mission-confidential for business improvement and profit making

High

#### Some aspects of data value important for CQI



#### BI and its association with the past, present and future



#### Improvements can be designed and tracked by the use of

- ✓ Metrics
- ✓ Key Performance Indicators (KPIs)
- ✓ Data Gathering and Interpretation using Surveys/Interviews/ Engagement methodologies
- ✓ Data Analytics using BI/BA data value concepts

## The difference between BI and BA for CQI

Focus or Guides	<b>Business Intelligence</b>	<b>Business Analytics</b>	
	What happened?	Why did it happen?	
	Why did it happen?	Will it happen again?	
Answers the	Who is accountable for what	What will happen if SMART planning	
following questions?	happened?	is done?	
	How many areas of business	What else does the data tell the	
	are involved?	management that they did not ask or	
		review earlier?	
	How often is something	What is the best thing that can	
	happening?	happen? What is the value of CQI?	
	Where did this happen?	How does this affect the market	
	(location/network/	position and business objective?	
	dealership/department/function)		
Makes use of	Reports/KPI(s)/Metrics	Statistical / Qualitative Analysis	
	Threshold Monitoring/Alerting	Data layering/mining	
	Dashboards/Scorecards	Predictive modelling	
	Analytical Processing	Designing of experiments/empirical	
		studies/case studies to improve	
		learning out of business data	
	Adhoc querying	Multi-variate Testing	
	Performance and QoS analysis	SD&G Analysis	
Financial health analysis		Financial Ratios specific cost	
		management	

Some Quality of Service (QoS) KPIs that need highlighting are

Performance & Business Analytics management
Performance & SD&G (Sustainable development and growth)
Performance & Energy management
Performance & Environmental safety
Performance & Accelerating EV/Hybrid adoption
Performance & Risk mitigation / Contingency management
Performance & Disaster sensitization and preparedness
Performance & Customer connect solutions
Performance & Supplier connect solutions
Performance & Manufacturer connect solutions
Performance & Return on investment
Performance & Net worth
Performance & Business Cluster synergy

#### **More Details:**

KPI(s) are qualifiable or specific measurements of performance results, they can be used to measure and track business initiative/ process / product / service improvement.

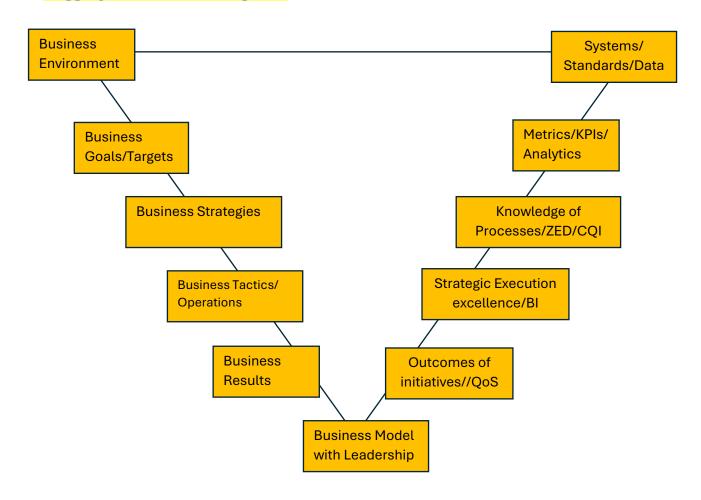
KPI(s) need to be

Valuable for the business mission/decision-making and goals
Realistic
Relevant
Measurable
Monitorable
Practically Achievable
Bound by a Time Frame
Sustainable when achieved

## **Potential sources for metrics**

Corporate Vision, Mission, and Values Business Performance Projections/Forecasts/Analysis or Guidance Business Plans for Sales Business Plans/Options for Marketing Production / Manufacturing Dealer networks Operations and Services Finance Procurement/ Sourcing / Supply Chains Quality Technology and Innovation Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management Society and CSR			
Business Plans for Sales Business Plans/Options for Marketing Production / Manufacturing Dealer networks Operations and Services Finance Procurement/ Sourcing / Supply Chains Quality Technology and Innovation Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Corporate Vision, Mission, and Values		
Business Plans/Options for Marketing Production / Manufacturing Dealer networks Operations and Services Finance Procurement/ Sourcing / Supply Chains Quality Technology and Innovation Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Business Performance Projections/Forecasts/Analysis or Guidance		
Production / Manufacturing Dealer networks Operations and Services Finance Procurement/ Sourcing / Supply Chains Quality Technology and Innovation Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Business Plans for Sales		
Dealer networks Operations and Services Finance Procurement/ Sourcing / Supply Chains Quality Technology and Innovation Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Business Plans/Options for Marketing		
Operations and Services Finance Procurement/ Sourcing / Supply Chains Quality Technology and Innovation Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Production / Manufacturing		
Finance Procurement/ Sourcing / Supply Chains Quality Technology and Innovation Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Dealer networks		
Procurement/ Sourcing / Supply Chains Quality Technology and Innovation Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Operations and Services		
Quality Technology and Innovation Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Finance		
Technology and Innovation  Energy Management  Infrastructure and Facilities  R & D  Performance Management/Improvement  Human Resource Management and Talent Management  Legal / Regulation / SMART Compliance  Environment Management  Natural Resource Management	Procurement/ Sourcing / Supply Chains		
Energy Management Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Quality		
Infrastructure and Facilities R & D Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Technology and Innovation		
R & D  Performance Management/Improvement  Human Resource Management and Talent Management  Legal / Regulation / SMART Compliance  Environment Management  Natural Resource Management	<u>.                                    </u>		
Performance Management/Improvement Human Resource Management and Talent Management Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Infrastructure and Facilities		
Human Resource Management and Talent Management  Legal / Regulation / SMART Compliance  Environment Management  Natural Resource Management	R & D		
Legal / Regulation / SMART Compliance Environment Management Natural Resource Management	Performance Management/Improvement		
Environment Management Natural Resource Management	Human Resource Management and Talent Management		
Natural Resource Management	Legal / Regulation / SMART Compliance		
<u> </u>	Environment Management		
Society and CSR	Natural Resource Management		
boolety and esix	Society and CSR		

#### Mapping metrics to business phases



#### Distinction that needs to be understood

<b>Continual Improvement</b>	Continuous Improvement	
Phased and Structured	Unstructured and Flexible	
Staircase effort (incremental on the basis of	Straight line approach (along a desired path	
pausing, evaluating, understanding and	to achieve some desired results, with no	
analysing the effectiveness of actions where	pausing at steps to make unplanned	
changes can be made at each step)	changes)	
No possibility of a failure	Possibility of milestone-based failures	
Involves Periodic Reviews and Audits	Involves milestone-based or versioning	
	specific reviews	
Clear understanding of processes/	Proposed improvement or desired result-	
improvements being planned	based understanding	
More difficult and time consuming	More flexible and adaptable	
Uses Metrics/KPI(s)/Data Analytics	Uses Kaizen/Lean Six Sigma	

## Common Model to help deliver business and run operations



Tabulation of the model to help deliver business and run operations.

Governance	Processes	People and	Culture	Measure and	Tools and Technology	
Interactions		Organization		Metrics		
Decision making	Work	Organization model	Culture	Incentives	Whether needed for	
policies	planning	for business units	awareness and	Or	efficiency and/or	
			adherence for	Metrics	performance	
			Customer			
			sentiments &			
			Customer			
			satisfaction			
Decisions making	Work	Centralized or	Accountability at	Metrics to	Decisions on Systems	
processes	estimations	independent decision	various levels	KPIs to	and Tools needed	
		making		motivate or		
				measure		
				performance		
Governance	Work	Centralized or	Motivation for	KPIs and	Work guidelines for	
interactions	execution	independent	way to work	Analytics	using Systems and	
		Roles, responsibilities			Tools	
		and reporting lines				
Operating guidelines	Work	HR systems	Drive to work for	Getting KPIs	Work instructions for	
	interactions		common goals	to work	using Systems and	
					Tools	
Operations	Information	Performance	SOP to deliver	KPIs and	Results	
management flow mana		management		effectiveness		

#### **Common Standard Operating Procedures (SOP) followed**

It is recommended that a SOP planner be designed with the following sections depending on the nature of business and its business model. The list that follows is quite common in dealership businesses.

Customer Relationship Management (CRM) SOP
Supplier Relationship Management (SRM) SOP
Dealership SOP
Head office SOP
Showroom SOP
Business Operations (Ops) Centre SOP
Customer Service Centre SOP
Sales SOP
Accounts SOP
Billing SOP
IT SOP
Back-office SOP
Stores and Spares SOP
Warehouse SOP
Front-office SOP
HR SOP

# $\underline{Customer\ satisfaction\ KPI(s)/\ Performance\ metrics\ and\ expectations\ from\ the}}\\ \underline{organization}$

This could relate to broad expectations such as

1	Management knowledge		
2	Management attitude		
3	Discipline		
4	Human Relationship		
5	Responsibility		
6	Positiveness and Stress Management		
7	Cost consciousness		
8	Job Competency and/or Technical knowledge		
9	Communication		
10	Creativity		
11	Leadership		
12	Team building (for management staff)		

#### 7. Our Online References

Our TGMB Hub framework solution can also provide scope for Global and Mutually Beneficial research, competition, acclimatization, and progressive problem evaluations for sustainable development and growth.

**Contents**: Some previews of management frameworks to help nurture the brand or organization's unique tagline and accelerate towards a unique "Global and Mutually Beneficial" (TGMB) experience.

#### Work in progress

Proof of concept URL for Business Tableau (or Tab or Showcase:

https://aakkashkvautoengg.wixsite.com/businesstab

Proof of concept URL: <a href="https://aakkashkvautoengg.wixsite.com/transformviability">https://aakkashkvautoengg.wixsite.com/transformviability</a>

#### **Additionally**

Please ask for the proof-of-concept URL(s) for automotive brands that we have identified

- 1. Honda
- 2. Hyundai
- 3. Kia
- 4. Maruti Suzuki
- 5. Porsche
- 6. Toyota
- 7. We are work in progress for other brands

#### **APPENDIX I -** Approach for Continual Quality Improvement

- 1. Does your organization rely on any long-term planning? Yes/No/Partially
- 2. Does your organization have any methodology to constantly monitor and regularly analyze your organization's environment, delivery model and system influencers for Quality of service? Yes/No/Partially
- 3. Does your organization have a clear idea of all its interested parties, business units, on-site organizations, their individual impact on the performance, as well as plan of how to meet their needs and expectations in a balanced way? Yes/No/Partially
- 4. Does your organization continually engage interested parties to keep them informed of the organization's plans, activities, and intent for the future? Yes/No/Partially
- 5. Does your organization plan approaches to establish mutually beneficial relationships with consultants, partners, business clusters, suppliers, and other interested parties? Yes/No/Partially
- 6. Does your organization identify associated short-term and long-term risks and deploy overall strategies to mitigate them? Yes/No/Partially
- 7. Does your organization project anticipated future resource needs (including competencies expected of its people, business units or other on-site organizations)? Yes/No/Partially
- 8. Does your organization plan for and establish processes to achieve the organization's strategies and does it ensure these processes are capable of <u>responding quickly to changing circumstances</u>? Yes/No/Partially
- 9. Does your organization regularly assess conformance of services to quality levels, SMART Brand Analytics and compliance with plans and procedures? Does your organization take appropriate corrective and preventive actions? Yes/No/Partially
- 10. Does your organization establish and maintain processes for restorative innovation and continual improvement? Yes/No/Partially
- 11. Does your organization ensure its people have sufficient opportunities for learning for social benefits and also to maintain the quality levels and vitality of the organization? Yes/No/Partially
- 12. Is your organization in a position to make decisions in all cases based upon factual evidence? Yes/No/Partially
- 13. Does your organization have a well-formed approach to assess and understand the current performance, with root cause details of all problems in the past, or for exit business-association-cases, or as relevant, in order, to avoid their recurrence? Yes/No/Partially
- 14. Can new or modified processes be established in a timely manner, with any necessary planning and resources being provided to support them? Is your organization agile? Yes/No/Partially

- 15. Does your organization have a well-formed approach to ensure all communication is meaningful, timely and continual? Yes/No/Partially
- 16. Does your organization ensure resources (infrastructure and non- infrastructure) are used effectively and efficiently, by ensuring processes are in place to provide, allocate, monitor, evaluate, optimize, maintain and protect these resources? Yes/No/Partially
- 17. Does your organization plan for any scarcity setting in the availability of its resources?

Does your organization actively pursue ways to improve their utilization? Yes/No/Partially

- 18. Does your organization have a well-formed approach to control financial investment by reducing non-conformity costs, unethical practices, process failures, facility utilization costs and also by eliminating wastage of materials or time? Yes/No/Partially
- 19. Does your organization have a well-formed approach to share case studies, information, knowledge and experience within the organization/bio- cluster? Yes/No/Partially
- 20. Does your organization perform self-assessments, audits, and other gap analysis periodically for SMART Brand Analytics? Does your organization show trends of recording and using such results effectively? Yes/No/Partially

#### Note

For a business owner, the selected 20 questions all need an answer of Yes to indicate conformance for Sustainable Development with SMART Brand Analytics and continual Quality assurance

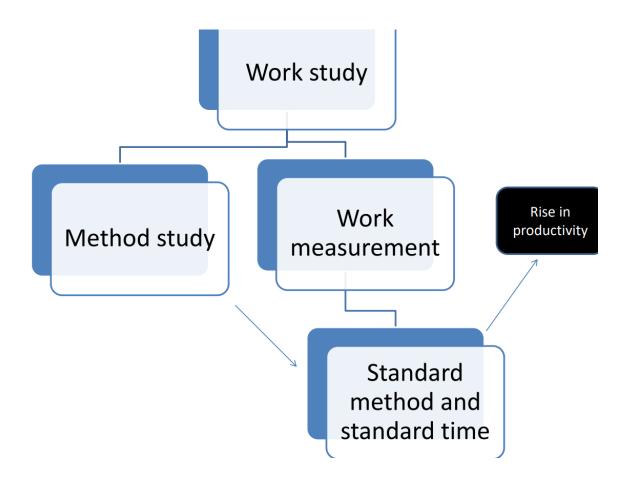
#### Steps important for improvement in the Automobile industry

- ♣ Engaged leadership for capturing opportunities for improvement, evaluating them, implementing them, measuring them and sharing the knowledge / learning
- **♣** Compliance With Standards
- ♣ Practice Process Discipline
- ♣ Process and operational efficiency
- **♣** Maximum and Sustainable resource utilization
- **♣** Teamwork and organizational culture
- ♣ Definition of value from the Customer's Point of View
- **↓** Common understanding of Performance Budgeting and Cost of Quality
- ♣ Incorporation of PROCESS / WORK METHOD VARIATION studies
- ♣ Holistic Problem solving
- ♣ Leveraging of Improvement specific Management methods/tools/techniques

#### **WORK STUDY**

#### **According to ILO**

"Work study is a term used to embrace the techniques of method study and work measurement which are employed to ensure the best possible use of human resources and material resources in carrying out a specified activity.



**Method study** – Evaluate most economical working method. •

**Work measurement** – Determining time of carrying out the work by most economical method

**Work study** helps to reduce waste through standardization of qualitative and quantitative element of the job

#### **OBJECTIVES OF WORK STUDY**

- Improve the basic process by research and development.
- Improve the methods of operations.
- Improve manpower efficiency
- Standardize the product.
- To motivate the workers

#### BENEFITS OF WORK STUDY

- Increased productivity.
- Reduced manufacturing / production costs.
- Improved work place layout.
- Improved work flow
- Basis for sound incentives scheme.
- Provide better job satisfaction to employees.
- Reduce material handling costs

#### PROCEDURE (CONVENTIONAL) – WORK STUDT

1	SELECT- SELECT THE JOB TO BE STUDIED
2	RECORD- RECORD BY COLLECTING DATA OR BY DIRECT OBSERVATION
3	• EXAMINE- EXAMINE BY CHALLENGING PURPOSE, PLACE SEQUENCE AND METHOD OF WOR
4	DEVELOP – DEVELOP THE NEW METHOD BY CONSIDERING THE ABOVE CONCERNS
5	EVALUATE- EVALUATE THE DIFFERENT RESULTS OF METHODS
6	DEFINE THE NEW METHOD AND PRESENT IT
	INSTALL THE NEW METHOD AND TRAIN THE PERSONS IN APPLYING IT
8	MAINTAIN- MAINTAIN AND ESTABLISH CONTROL PROCEDURES

#### **METHOD STUDY**

- According to BRITISH STANDARD INSTITUTE
- "Method study is the systematic recording and critical examination of existing and proposed ways of doing work as a means of developing and applying easier and more effective method and reducing costs"

#### **OBJECTIVE OF METHOD STUDY**

- To study the existing /proposed method of doing any job, operation or activity.
- To improve utilization of resources.
- To eliminate wasteful and inefficient motions.
- To standardize work methods of process, working condition, machinery, equipment and tools.
- To develop improved method

#### BENEFITS OF METHOD STUDY

- Improve layout of office/working area of factory.
- Improved flow of work.
- Improved safety standards.
- Better working conditions.
- Economy of expenditure.
- Improved design of plant and equipment.
- Most effective handling of materials
- Effective utilization of human effort.

#### **METHOD STUDY - PROCEDURE**

The procedure is same as work study.

- Select
  - Economic consideration.
  - Technology consideration.
  - Human consideration.
- Record (record of all facts relating to existing methods)
  - Select a Recording techniques
- Process charts
- Diagrams (flow diagram/string diagram)
- Examine
  - Questioning the purpose
  - What is achieved
  - How is it achieved
  - o Sequence
  - o Place
  - Person
- Improve work /develop
  - Develop the improved method by generating several alternatives and selecting best method
  - Factors to be considered in evaluating alternative Cost of implementation
- Feasibility
- Produce ability
- Reaction of employees
- Acceptance to design, planning, control sales department
- Evaluate
  - Compare the cost effectiveness of the selected method with current method of performance.
- Define
  - Present the new method to management, supervisors and workers.
  - Provide "operation instruction sheet"

#### • Install

- Test the method for short period and then install
- Provide training to employees in the new methods.
- Get active support of all members before installing.

#### • Maintain

- Periodically check and verify the new methods at regular intervals.
- It is important to see that improved method is not gradually changed back to the original method through force of habit

## TECHNIQUES FOR METHOD STUDY

- Process chart
  - Outline process chart
  - Process flow chart
  - Two handed chart
  - Multiple activity chart.
  - SIMO chart.

#### • Diagrams

- Flow diagrams
- String diagrams
- Cycle graph
- Chrono cycle graph

#### PROCESS / WORK METHOD VARIATION

#### PROCESS VARIATION

- 1. Variations in processes, systems, materials, products etc necessitate Quality analysis and control. There is commonly a conflict between the following 2 influencing facts
- a. Variation and non-uniformity is inevitable
- b. Production and the use of materials & products is most potentially economical when there is no variation in their quality
- 2. Very commonly we know that variations can never be eliminated but the study of the sources of variation and thereon reducing & controlling variations is important for uniformity in quality and reliability.

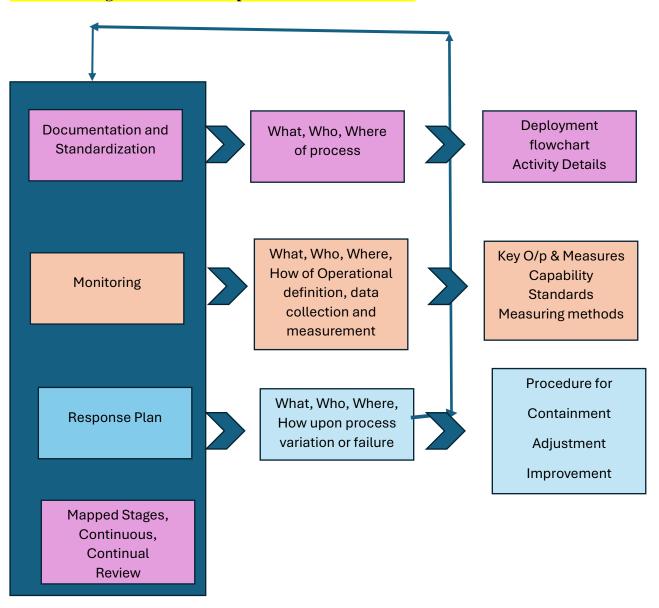
#### SOURCES OF VARIATION

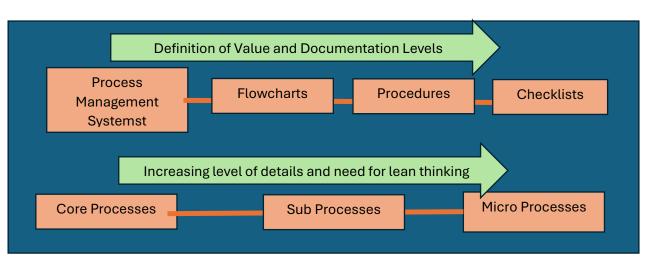
- 1. Sources of variation in a production system are mainly due to people, work methods, machines, equipment and materials.
- 2. There can also be variations in the operating environment that affect people, work methods, machines, equipment and materials.
- 3. Suppose these variations need to be controlled, the key questions that need answering are what variations are present in the operating procedures and processes used.
- 4. As we cannot enforce fixed environmentally related factors of variability, what can be done as a key policy is ensure there is minimum variation in processes and their stability.

#### PROCESS CAPABILITY ANALYSIS (CONVENTIONAL)

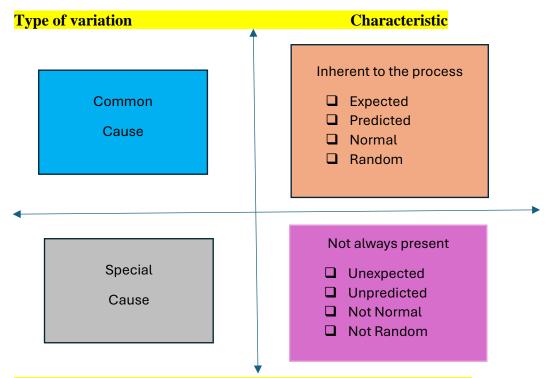
- 1. To enable minimum variation in processes and their stability, organizations conduct process capability analysis.
- 2. Process capability analysis is an effort to document a process' capability.
- 3. The mechanism includes
- 3.1 Defining the conditions in which the analysis must be done
- 3.2 Defining the key process / product characteristic expected
- 3.3 Defining the Sample set and Sample units
- 3.4 Defining the Sampling size and frequency
- 3.5 Calculating the statistic results like mean, standard deviation, concepts like control limits
- 3.6 Deciding on the Control charts that will be plotted
- 3.7 Interpreting the Control charts for process capability, variation etc

#### **Process Management with a disciplined flow of interactions**





#### Variation – Common causes versus Special causes



Questions while planning operational definition and data collection

- 1. Why collect data
- 2. What to collect
- 3. How to collect
- 4. Collect data on the basis of operational definition
- 5. Ensure consistency and stability

#### Questions to consider while selecting a solution from many options

- 1. Use of the Payoff matrix that evaluates benefits against efforts
- 2. Use of Screening against "Must be" for compliance, policies, regulations, Customer CTQs, Business CTQs
- **3.** Use of N/3 Voting that helps rationalize, justify, or reject solutions as it permits a group of members to choose from 1/3 of the many options, tally votes for each choice, generate or update important solution list, combine all similar choices with consensus, and to repeat this cycle if needed
- 4. Use of the Citeria based matrix that tabulates solutions with reference to established criteria with columns like Solution 1, Solution 2, ..., Assigned Weightage, No of Votes. Where established criteria involve ease of use, inter-site availability or implementation, use of information on a real time or planned basis, preparation of indicators, graphs or reports, auto resolution or manageable resolution of unresolved issues, filtering of results or regulated access to outputs and associated data generation.

#### APPENDIX II – GENERAL BUDGETING SYSTEM

#### What is budgeting?

It is a financial plan for a defined period of time, usually a year, where the plan includes

□ Approximate costs during a period (if applicable)

□ Approximate revenues during a period (if applicable)

□ Future financial conditions (if applicable)

□ Planned sales volumes and revenues (if applicable)

□ Resource estimations (if applicable)

□ Costs and expenses (if applicable)

□ Assets (if applicable)

□ Liabilities (if applicable)

#### How is a budget used?

 $\Box$  Cash flow

It is used for analysing & interpreting calculations and for comparing them to make future decisions.

#### How does a budget help?

It is essential for managing, spending, avoiding debts, and for properly allocating resources. It may include a budget surplus.

#### How does a budget influence managers?

(if applicable)

- (a) It enables and controls managers to consider how the business, market and operating conditions may matter and then helps decide what steps should be taken.
- (b) It helps managers compare and consolidate problems before they occur
- (c) It helps coordinate the activities of the business by enabling managers to examine relationships between a specific department's functions and those of other departments
- (d) It helps control resources
- (e) It helps communicate plans to specific departments/managers via a cost centre framework
- (f) It helps motivate managers to strive to achieve budget goals
- (g) It helps managers perform visibly and accountably

#### What are the objectives of a budget?

A budget provides a basis for

- (a) Examining the achievements of a business with respect to the industry, market and forecasts
- (b) Checking and approving the various expenditures of different departments
- (c) Evaluating managerial policies from time to time
- (d) Developing programmes for systems development, process development and service operations development
- (e) Deciding the basis, estimates and baseline for expenditures from funds allocated for a period
- (f) Knowing & assessing the efficiency and economical hindsight of the business

For the organization, the steps to prepare a budget may need some finalization to achieve the business vision, mission and costs management expected

#### What are the steps to preparing a budget?

- Step 1: Formation of a budget committee and costs centre framework
- Step 2: Creation of standard budget forms that include estimations of funds, income, expenses, where the forms will need to be approved or revised by all associated departments
- Step 3: Drafting and submission of reports from the accounts departments (for the past 2 years) showing the comparison between costs of service operations, income and expenses
- Step 4: Preparation and submission of a forecast by each department
- Step 5: Analysis of business and market conditions with forecasted, past and present data
- Step 6: Formalization of departmental budgets by the budget officer and sharing of these budgets with departments for their strategic approval or revision
- Step 7: Preparation of service operations plans and policies using reports submitted by the various departments
- Step 8: Revision and correction of service operations plans and policies by the budget committee in consultation with finance and other departments

To gain a better start, we look at some excerpts to highlight what goes in planning a budget, where we review some templates used for different kinds of budgets, where an experienced advisor said the main templates of interest are the Cost of operations budget and the Capital Expenditure (or Capital allotment) budget with due attention for the Cash budget and the Master budget. It was also felt that including in some templates a comparison between the budgeted amount and the current utilized amount is very important.

#### **Common Capital structure and cash flow** (excerpts)

Fixed Capital		
Working Capital		
Partner's/Board's Stake holding Funds		
Cash		
Deposits		
Securities		
Credit facility / Overdraft		
Interest accruals		

## **Important Financial ratios** as applicable to the business (excerpts)

# We find stating whether the health of these financial ratios is Good, Unsatisfactory or Not Applicable helps plan ahead, or develop business vision and operating policies.

Ratio	Health	Formulae
Profit (ROIC)		Return on invested capital = Net profit / invested
		capital
Profit (ROA)		Return on total assets = Net profit / Total assets
Liquidity Ratio		Current Ratio = Current assets / Current liabilities
(Current Ratio)		
Liquidity Ratio		Quick Ratio = Current assets - inventory / Current
(Quick Ratio)		liabilities
Activity Ratios		Inventory turnover = Cost of goods sold / inventory
(Inventory		
Turnover)		
Activity Ratios		DSO = Accounts receivable / (Total sales/360)
(Days sales		
outstanding)		
Leverage Ratios		Debt to Assets ratio = Total debts / Total Assets
(Debt to Assets		
ratio)		
Cash flow		
position		

## **Indicators of Health in Balance Sheets** (excerpts)

Capital (Fixed and Working)
Assets
Liabilities
Income
Expenses
Profits and Margin of profits
Cash flow
Contingency funds/Reserves
Debts, Out-standings, Bad debts
Overrun expenses
Legal claims

To get a budget to work, Continual Quality Improvement and cost management are important elements. We preview some details on cost management to get started.

## Cost management via a Cost Centre framework (excerpts)

The Cost Centre is a framework that helps a company or budget committee create categories and sub-categories of budgets to suit the nature of business.

The proposal is to use a Cost Centre framework to create different categories of budgets:

<b>(1)</b>	According to time (as applicable today)
	Long-term
	Short-term
	Current
	Rolling
<b>(2)</b>	According to function (as applicable today)
	Sales budget
	Marketing budget
	Production/Delivery system budget
	Equipment and Spares Purchases budget
	Consumables Purchases budget
	Sales outlet Expenses budget
	Business Operations Centre Expenses budget
	Customer Service Centre Expenses budget
	Warehouse Expenses budget
	Cost of operations budget
	Capital expenditure budget
	Cash budget
	Revenue budget
	Performance budget
	Project budget
	Master budgets
(3)	According to flexibility (as applicable today)
	Fixed budgets
	Flexible budgets

#### **APPENDIX 3 – BUDGET FOR CQI**

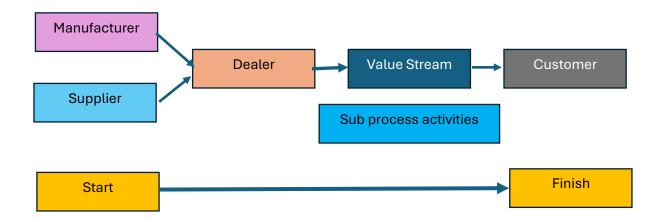
#### **Common improvement methods**

- o Kaizen
- o P-D-C-A cycles (Plan-Do-Check-Act)
- o 5 Whys and Root Cause Analysis
- o Continuous Improvement (CI) board and/or Kanban cards

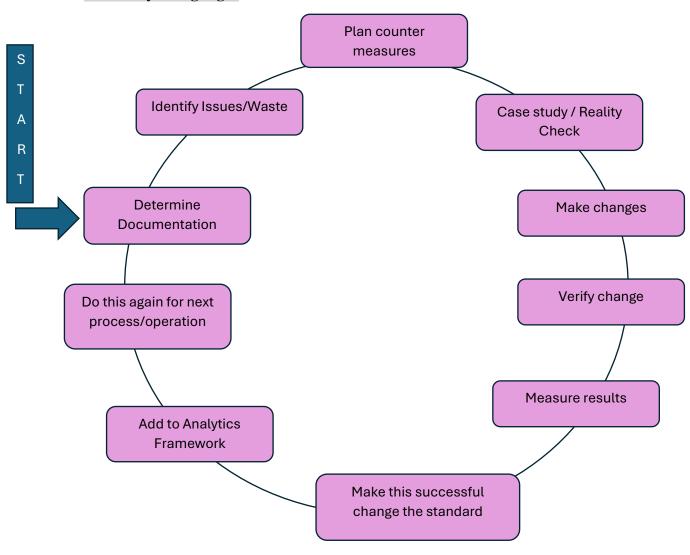
New CI Idea	CI Idea Issued	CI Idea Implemented
Assessment, audit, and	Owner assigned	Use of tools/techniques
other problem analysis		
5 Whys/ TMS studies	Due Date decided	Solution implemented
New Solution proposed	Solution Issued	CQI Budget feedback

#### Rapid improvement tools

- ❖ A3 paper based ideation
- ❖ 5S (sort straighten shine standardize sustain)
- Standard Work (TMS based variation studies)
- Catch ball or Call to attention (Assign team, Pass down "purpose, goals, background, challenges" for improvement to other interested stakeholders for opinion, help and action)
- ❖ DMAIC (Define measure analyze improve control)
- ❖ 5 Whys (Ask Why for 5 repeated times)
- Gemba walks (Walk by managers to identify opportunities for improvement)
- ❖ Hoshin Kanri (Policy development to focus on action, improve organizational alignment, develop CQI / Performance forecasting and budgeted strategy, increase engagement in improvement)
- ❖ Kanban cards for visualization of workflow, limiting of work in progress, maintaining steady flow in process/material and incorporating of continuous improvement
- ❖ Demings cycle (PDSA Plan, Evaluate or Do, Study, Act)
- Value Strean Mapping (Interested stake holding, Assemble a team with resources, Process a problem, Current state map, Define required state for improved value or for reducing waste such as non-value added transportation, inventory, motion, human intellect or involvement, waiting, over capacity allotment, over production, over processing, defects)



#### Kaisen Cycle highlight



#### KANBAN DETAILS for a Service Cente/Workshop

Production Kanban: authorizes service of vehicle

Withdrawl Kanban: authorizes movement of material/parts/components

Kanban Square: marked area to hold material/parts/components

Signal Kanban: Signals status of service at work location

Material Kanban: Used to order material in advance of process for service of vehicle

Supplier Kanban: moves between the Service Centre and Supplier

## CQI budget - A preview only

All improvements need	time, resources and	money so can be budgeted for
THE HIPTO CHICKS HEED	cillie, i esoul ees ullu	money so can be baageted for

Company: Department:

Year: Quarter: Q1/Q2/Q3/Q4

Type of operations: Sales outlet/Business Ops Centre/Customer Service Centre/

Warehouse

City: Area:

Items	Budgeted	Additional	Total
	Amount	Expenses	
Micro & Macro Factors			
Cycle time			
Defect reduction			
Error reduction			
Waste reduction			
Improved safety			
Cost reduction			
KPI incorporation/improvement			
Make or Buy decisions and Process			
selection			
Process development			
Service operations development			
Systems development			
Capacity and Aggregate Planning			
Customer satisfaction/engagement			
Employee engagement/teaming			
Supplier selection/engagement for			
MRP/Inventory management/QA			
Environmental management for			
standard work			

## **Applicable Remarks:**

Template is suitable/unsuitable/not applicable

## APPENDIX 4 – PERFORMANCE BUDGETING

Co	Company: Department:					
Ye	Year: Quarter: Q1/Q2/Q3/Q4					
Ту	ype of operations:					
Ci	City: Area:					
<u>Pe</u>	erformance influencers relevant for the business	<u>:</u>				
	Forecasting (costs and accuracy)					
	Capacity and Aggregate Planning (costs and a	ccuracy)				
	Make or Buy Decisions and Process Selection	(costs and accuracy)				
	Costs management through Time Motion stud	ies				
	Inventory management (costs and accuracy)					
	Supply chain management (costs and accuracy					
	Materials Requirement management (costs and	d accuracy)				
	Kaizen and Continuous improvement (costs ar	nd benefits)				
	Process improvement (costs and benefits)					
	Six Sigma methods (DMAIC) (costs and accur	• •				
	Six Sigma methods (DMADV) (costs and accur	• •				
	<b>Environmental management (costs and benefit</b>	ts)				
Pe	erformance indicators relevant to the business:					
	Economic rate of return for a given period (sag	y a year or a quarter)				
EF	ROR = (Cash flow + Changes in PV or present v	ralue)/PV at the beginning of the				
pe	eriod					
	Book rate of return for a given period (say a ye	ear or a quarter)				
BF	ROR = (Cash flow + Changes in book value)/Boo	ok value at the beginning of the period				
	Market share					
	<b>Return on Total Assets</b>					
	Average annual market share growth for the p	oast 3 years				
	Average annual sales growth over the past 3 years	ears				
	Average annual growth in return on total asset	ts over the past 3 years				

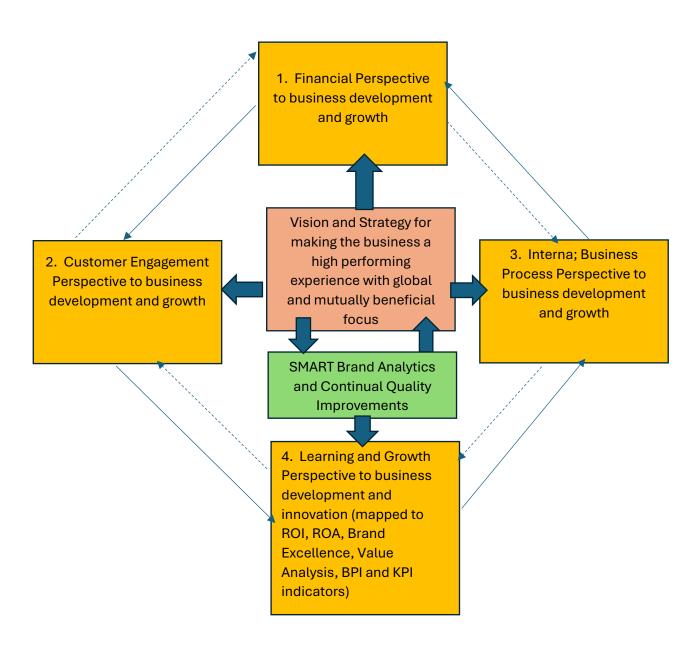
Items	50% capacity		60% capacity		75% capacity		100% capacity	
	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
<mark>Variance</mark>								
<mark>Analysis</mark>								
Direct								
Materials								
Variance								
Direct Labour								
Variance								
Overhead								
Variance								
Sales								
Variance								
<b>Contribution</b>								
<b>Margin</b>								
Sales –								
Variable cost								
of Sales								
<b>Balanced</b>								
Scorecard Scorecard								
<mark>costs</mark>								
Customer								
Focus								
Internal								
Business								
Focus								
Learning and								
Growth								
Financial								
Growth								
<b>Responsibility</b>								
Centres								
Cost Centre								
Framework								
Value								
Analysis								
Value								
Engineering								

Applicable Remarks: Template is suitable/unsuitable/not applicable

#### **APPENDIX V** - CQI Scorecard highlight

The CQI Scorecard revisits the Balanced Scorecard structure often used. The 4 perspectives of the Balanced Scorecard are 1. Financial perspective, 2. Customer perspective, 3. Internal business process perspective, and the 4. Learning and growth perspective.

The CQI Scorecard includes the Approach for Continual Quality Improvement into the 4 perspectives to help the business innovate and transform management systems to be more Global and Mutually Beneficial in investments for Quality of Services and Quality of Outcome where per say there is more vision to Empower to Enable to Engage perspectives.



#### **CQI Scorecard functional elements**

For continual quality improvement, a planning framework must be developed to acknowledge the macro and micro focus that needs to be unitedly accepted by all management levels

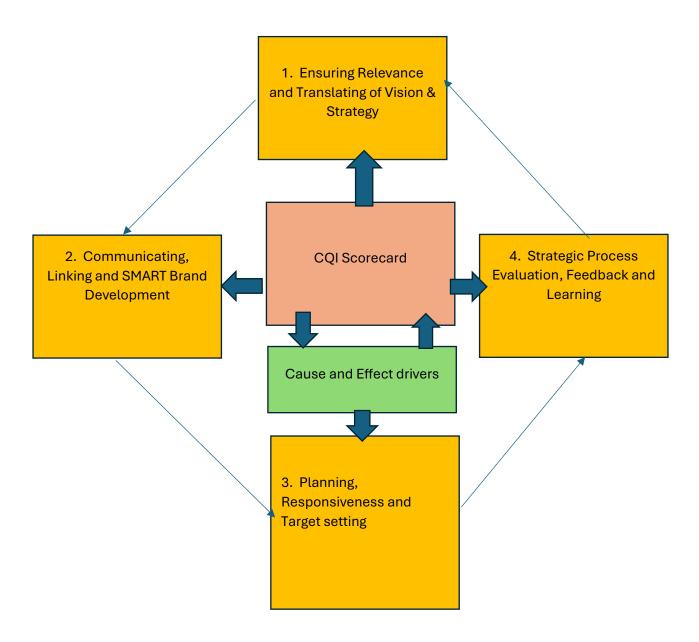
EMPHASIS ON SOLUTION FINDING						
Initiative	Objective	Target	Measurement			
Brand Equity (Macro focus)	Sustainable development and growth	Cost of business presence and branding elements	Brand Assertion Brand Satisfaction Brand Stability Brand Scalability			
Brand Management (Macro and Micro focus)	Market penetration and market share	Cost of brand /image presence	SMART TMS studies Business Drivers Business Intelligence			
Systemic responsiveness (Micro focus)	Right investment, decision making and timing	Cost of responsiveness and quality	Availability Accessibility Affordability Supportive Scorecards Provisioning			
EASE OF DOING BUSINESS AND EASE OF PROVIDING SERVICES						
UNDERSTANDING AND ADDRESSING OF PESTLE INFLUENCERS						

If the insight of a CQI Score card interests your organization, please mail us at <a href="mailto:venkataoec@gmail.com">venkataoec@gmail.com</a> and <a href="mailto:aakkashkvautoengg@gmail.com">aakkashkvautoengg@gmail.com</a> or call us at 91 9342867666 for more details.

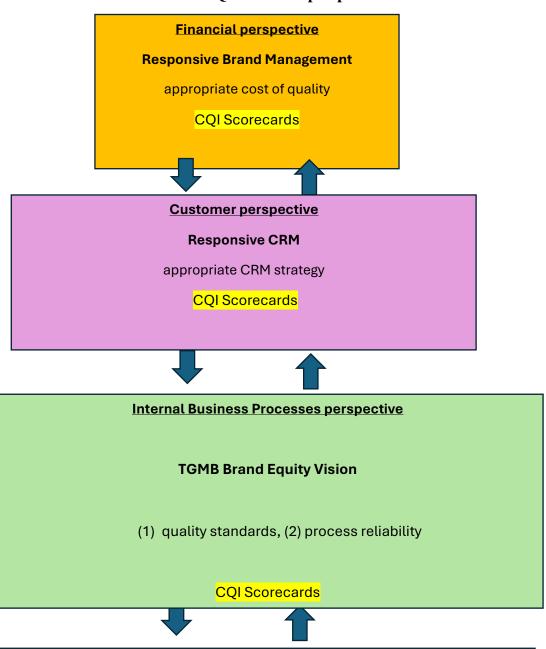
We ate attaching our quotation for taking up this case study and implementing a Continual Quality Improvement platform for your dealership related brands, products and services.

We look forward to achieving more results with your team.

# 4 Steps to designing a CQI scorecard for SMART Brand Analytics and continual Quality assurance



#### Cause and Effect drivers for the CQI scorecard perspectives



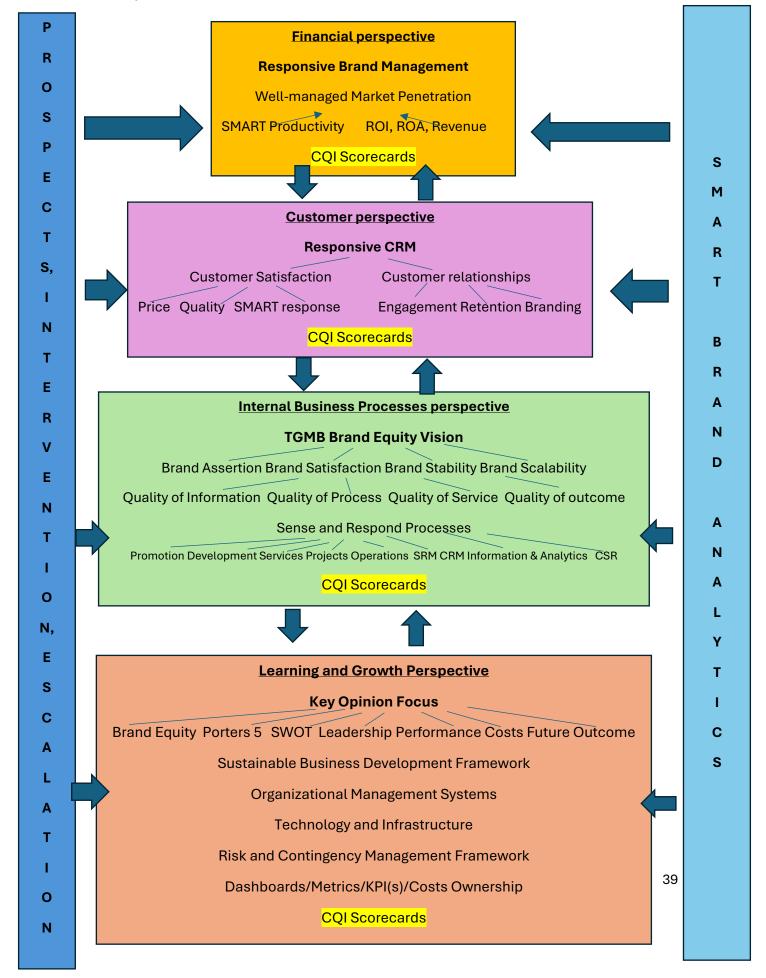
#### **Learning and Growth Perspective**

#### **Key Opinion Focus**

continual systemic responsiveness for TMS synergy, needs, benefits analysis, incidences, complaints, and feedback

**CQI Scorecards** 

Strategic map depicting the CQI scorecard perspectives in strategic brand management hierarchy



#### **APPENDIX VI** - List of case studies for automobile dealer networks

#### Closing note for the first 6 case studies

We hope your management finds this information important for improved brand development & growth.

We are attaching our consolidated quotation / invoice for the services being offered.

We look forward to taking up a consolidated case study or a selective case study specific to your dealership or business.

The NEXT steps are about making an automobile brand Global and Mutually Beneficial.

Our series of case studies help incorporate strategic data evaluation and analytics for this vision and value building. Please ask us for more details if required.

Case study 1: Brand Equity Case Study

Case study 2: Proactive Emphasis on Sustainable Quality to improve brand equity

Case study 3: Market Penetration Analysis to improve branding

Case study 4: Service Centre Improvement

Case study 5: SMART Brand Analytics (this document)

Case study 6: Continual Quality Improvement

For helping business development and growth in 2024-2025, we have also developed a vital scope highlighter called - An Empirical study of the impact of budgeting on the operations and performance of a firm.

#### **NEXT Case study**

Our next case study will be designed around the subject called Developing Key BI Accelerators with Knowledge & Training Strategies. We will send more details on this in the weeks to come.