Lean Six Sigma Green Belt Certification Course



# DIGITAL



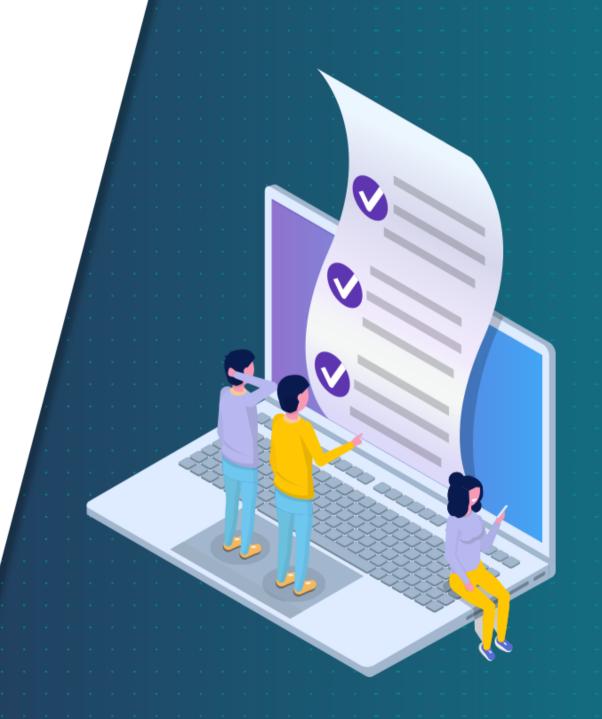
# **Voice of the Customer**

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### **Learning Objectives**

By the end of this lesson, you will be able to:

- Identify the types of customers
- Explain the VOC data collection methods and their importance
- Explain the VOC table and its analysis



#### Scenario

An IT Call Center has the goal to increase its customer satisfaction rating.

It is not likely that leaders would know WHAT to improve without knowing the issues that customers are experiencing. Therefore, we must gather the customer's needs or requirements.

Obtaining customer feedback, such as "I want the correct answer to my questions or issues" and "I don't want to be transferred around" could lead to a defined requirement of "get needed information" which is measured by the number of transfers and service times.

Focusing on a metric that has a direct relationship with the customer's definition of satisfaction will have a significant impact on the customer satisfaction rating. This can only be accomplished by obtaining the Voice of the Customer.



# DIGITAL PERATIONS

# **Customer Identification and Data**

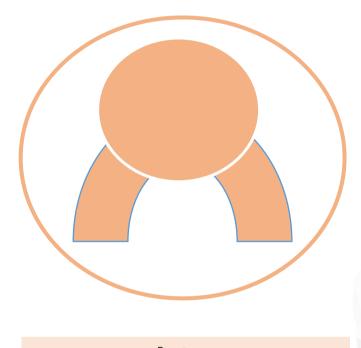
# **Importance of Customers**



# **Types of Customers**



**Internal Customers** 



**External Customers** 

#### **Internal Customers**

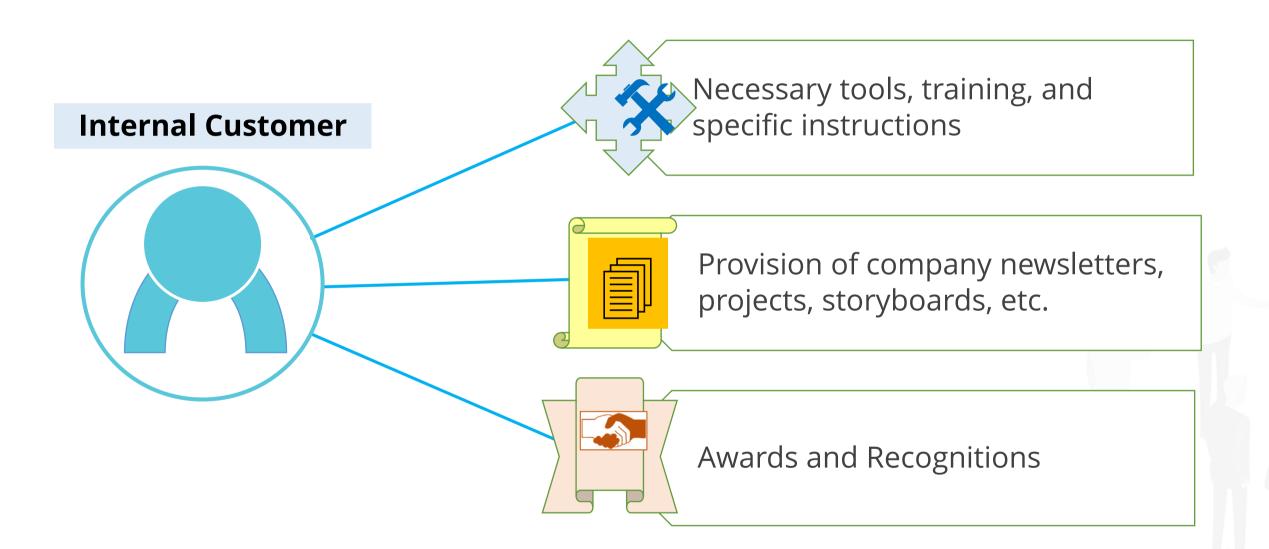
A person within the business system who is affected by the product or the service while it is being developed



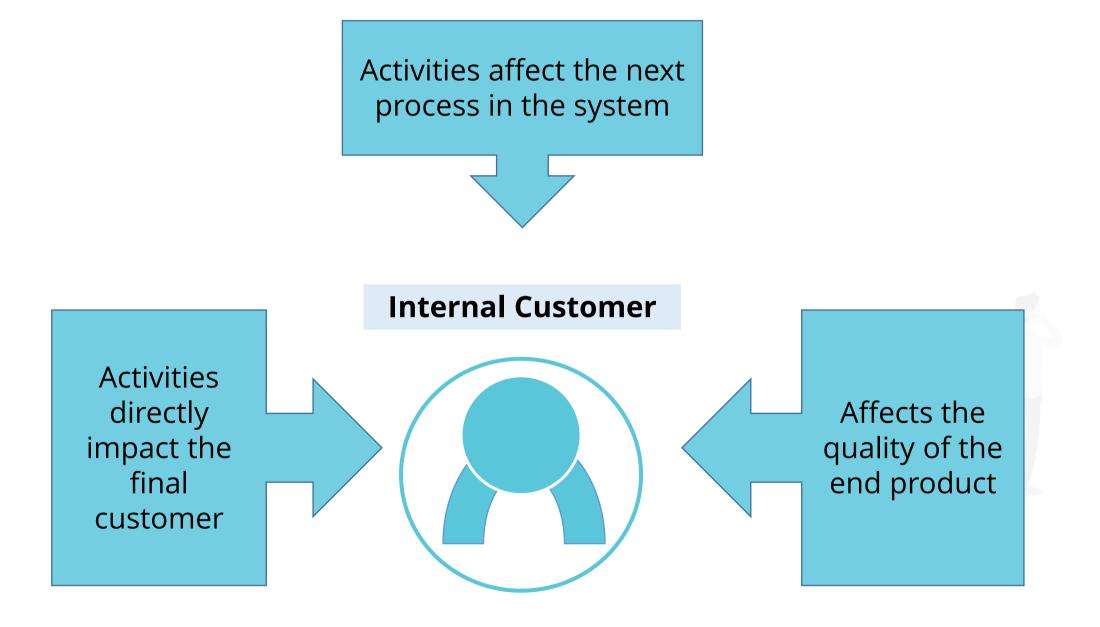


When the needs of the internal customers, especially the employees' needs, are met, they are more likely to maintain higher standards of quality and improve the productivity of the product or service.

#### **Internal Customer: Needs**

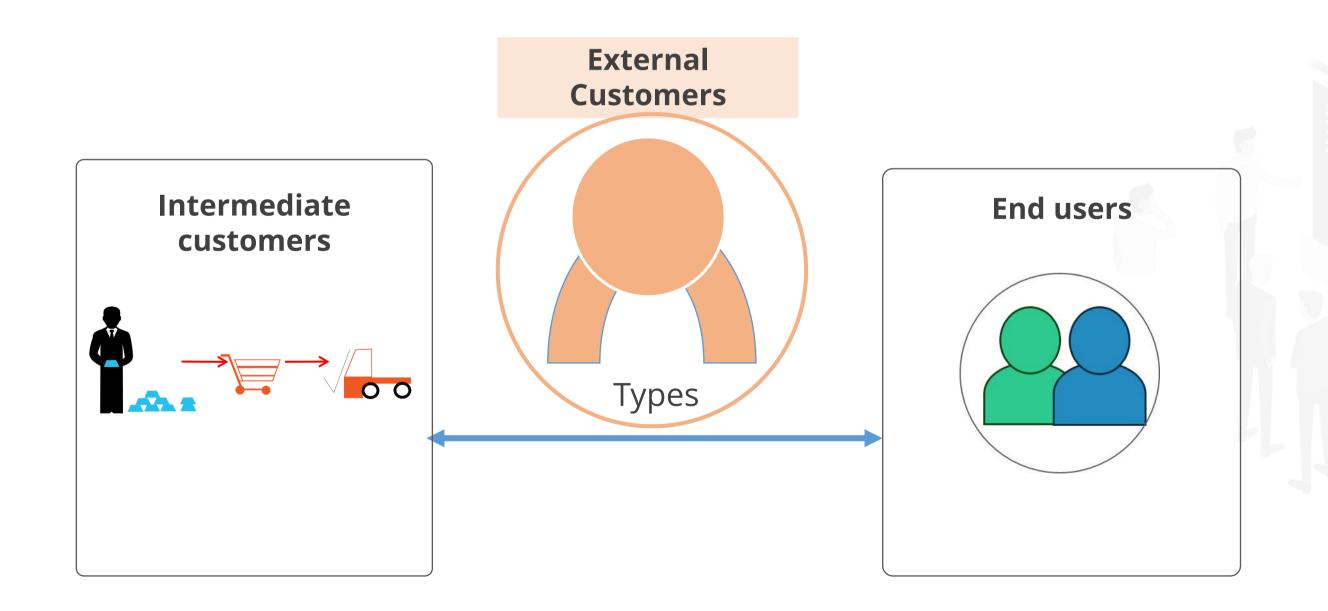


#### **Internal Customer: Importance**



#### **External Customer: Definition**

External customers are not a part of an organization but are impacted by it. They are the source of revenue for a business system.



# **Customer Feedback: Importance**



#### **Internal Customers**

High level of motivation

High level of job satisfaction

Undertake additional roles and responsibilities

Focus on delivering their responsibilities

Improved team bonding



#### **External Customers**

Solution to problems

Better product

Requirements are effectively met

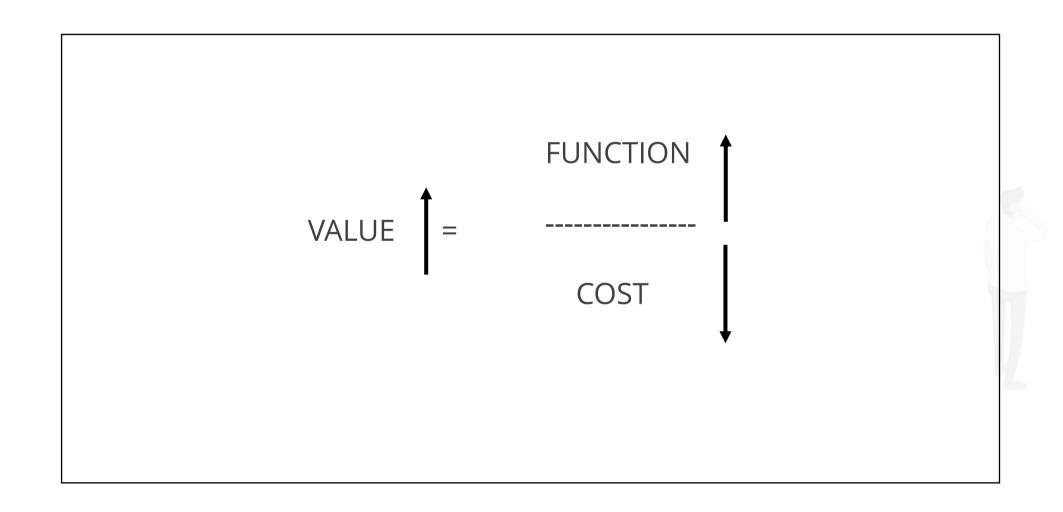
Improved customer service

Customer satisfaction

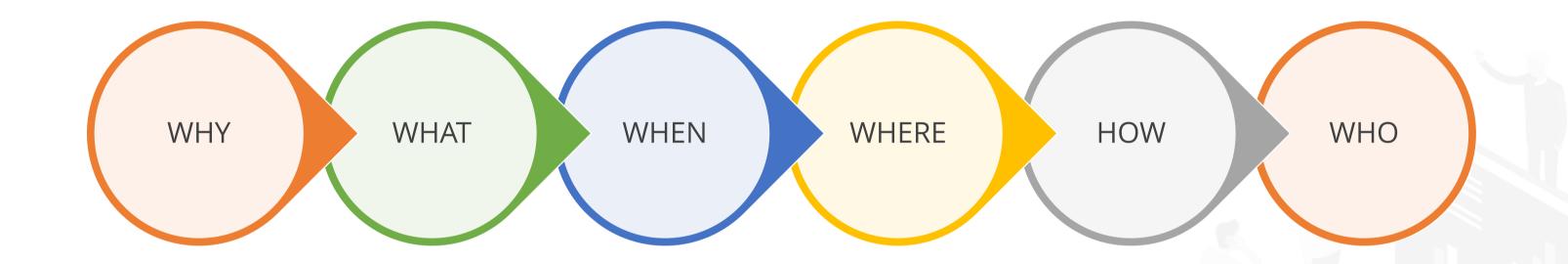
#### **Voice Of The Customer (VOC): Perceived Value**

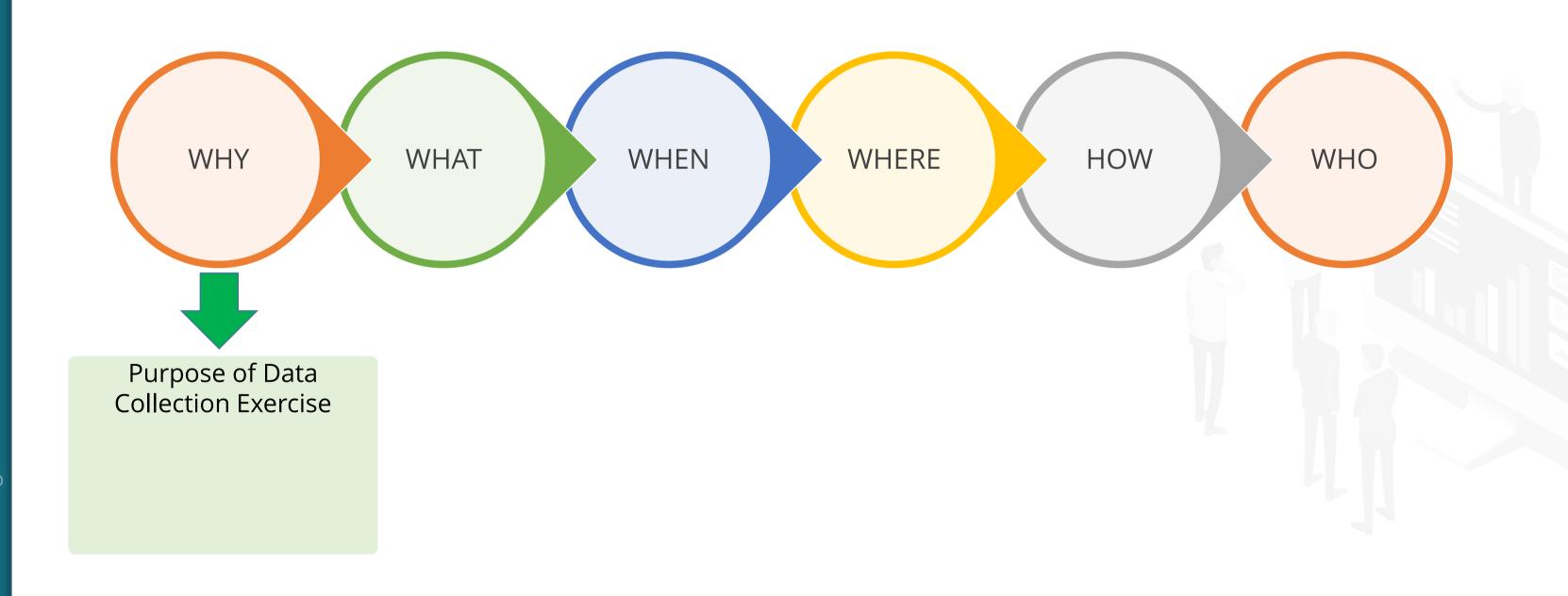


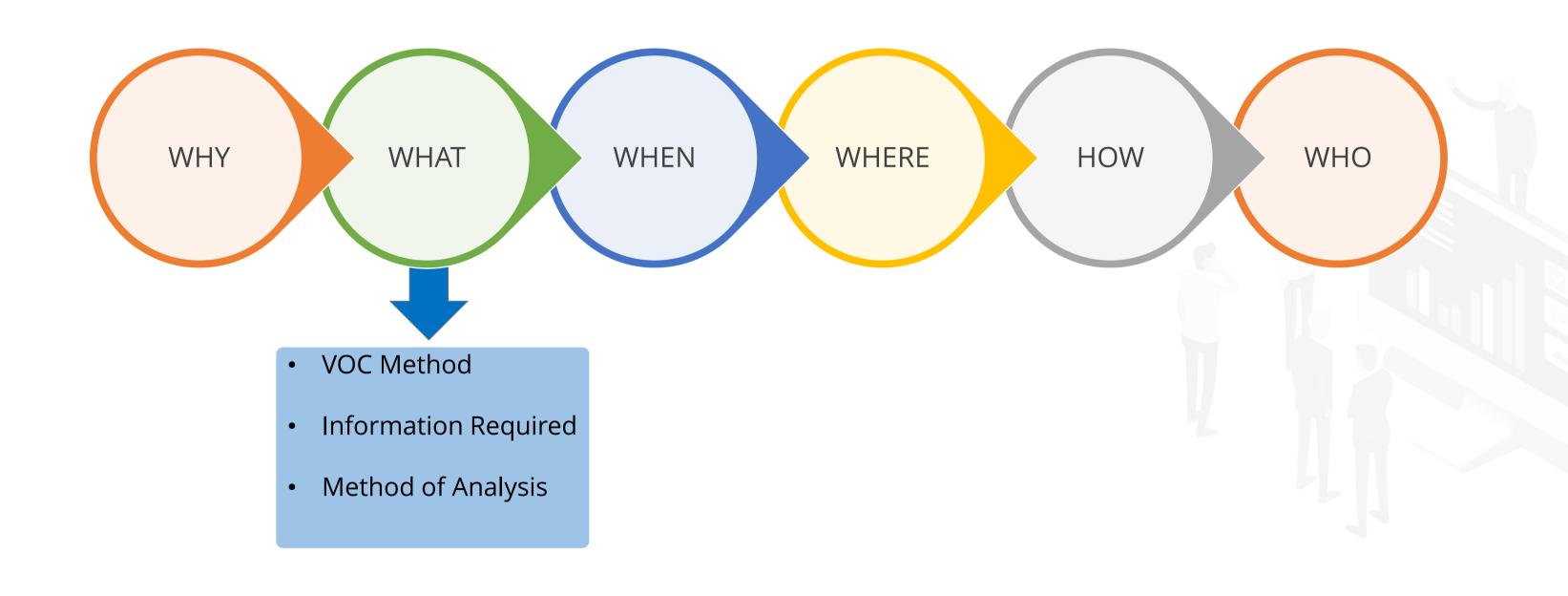
Value is the output the customer expects versus the cost to achieve that expectation.

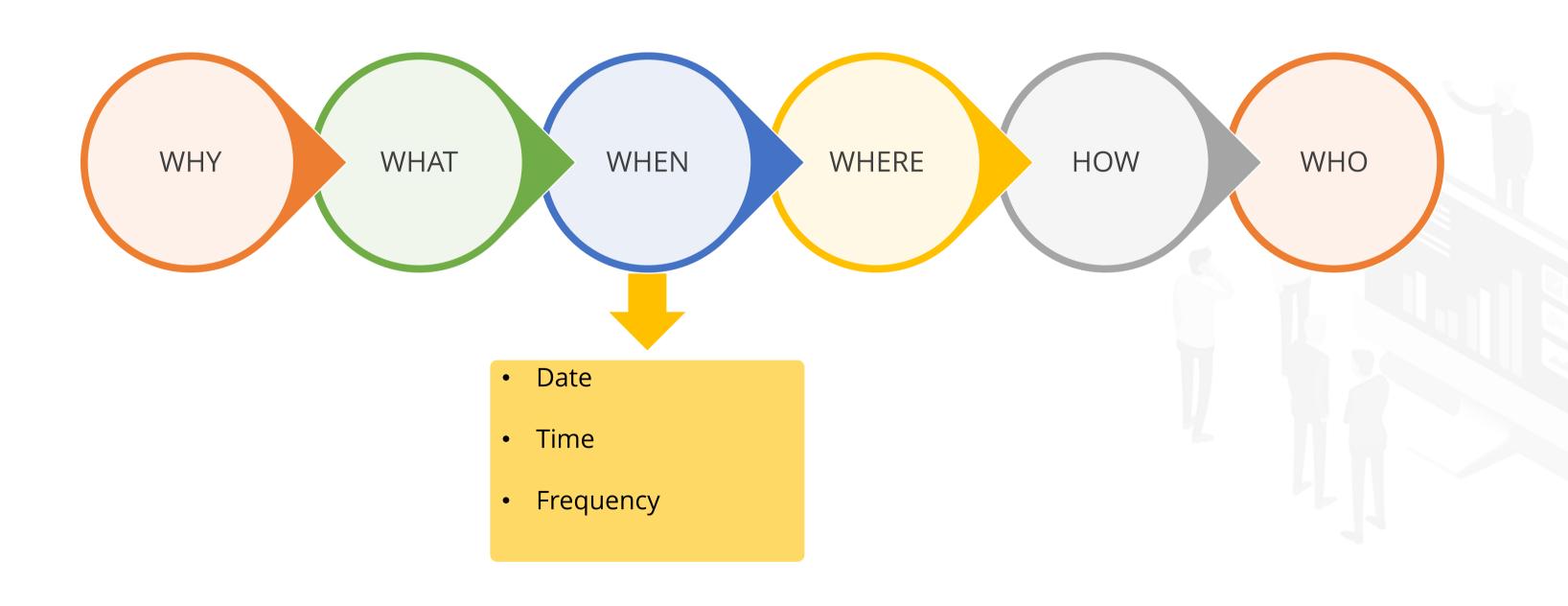


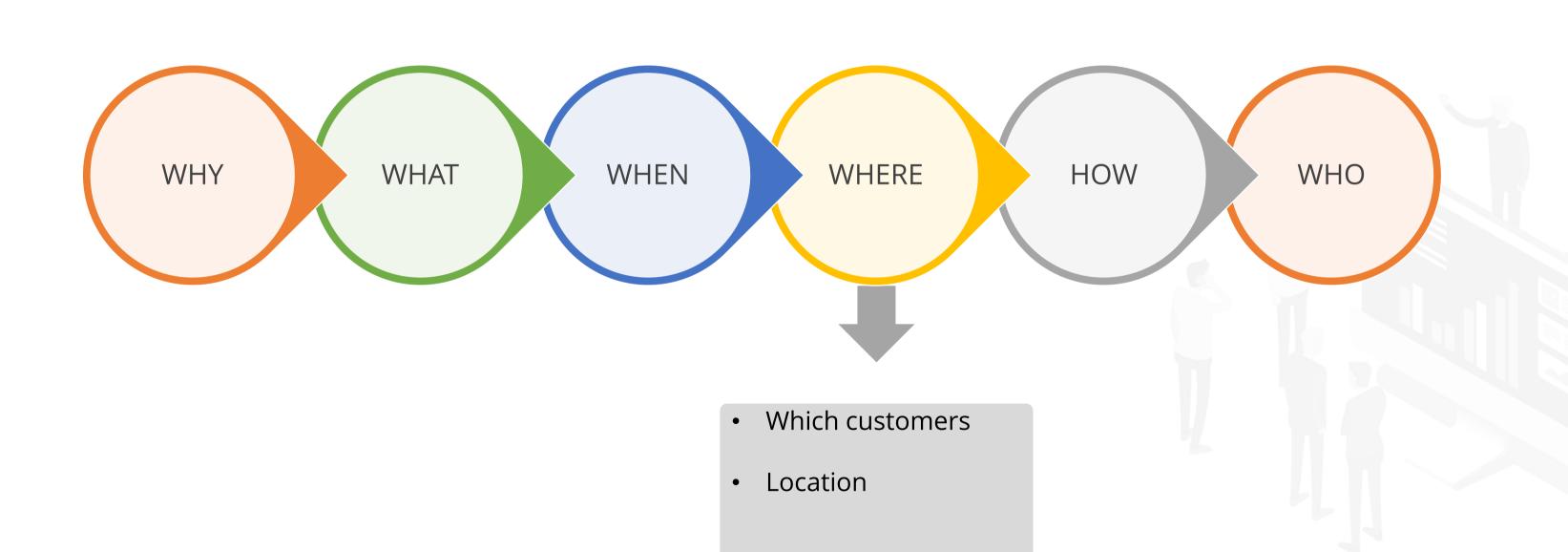
# **VOC Data Collection Plan**

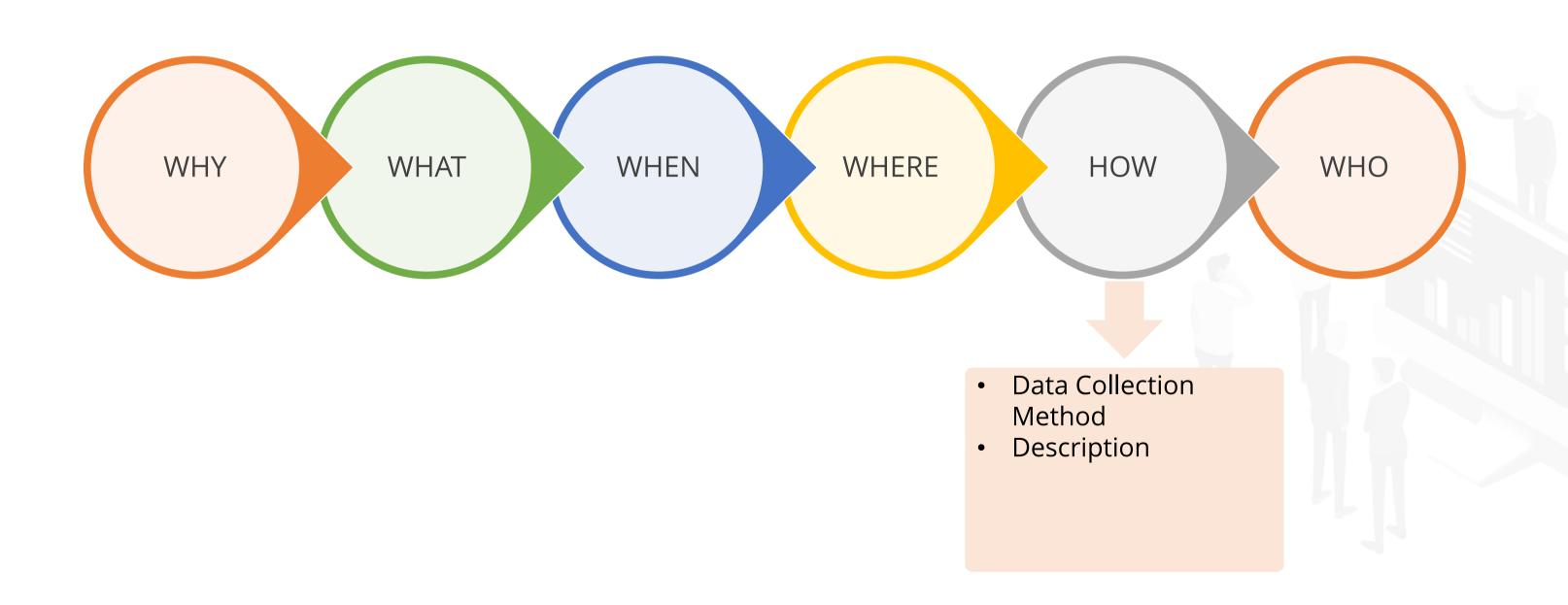


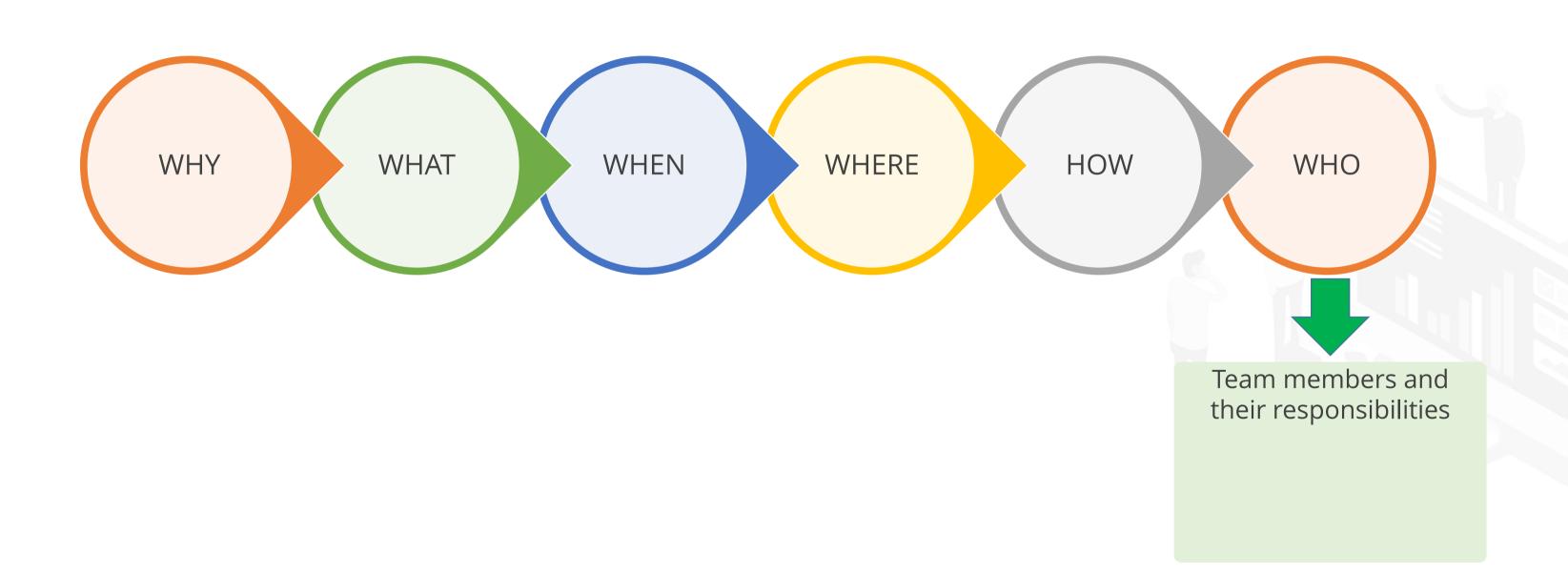












#### **Reactive vs. Proactive Data Sources**

Reactive Data Sources

Warranty claims, product returns, customer complaints

Information comes whether action is taken or not

Used to address immediate needs of customers

Proactive Data Sources

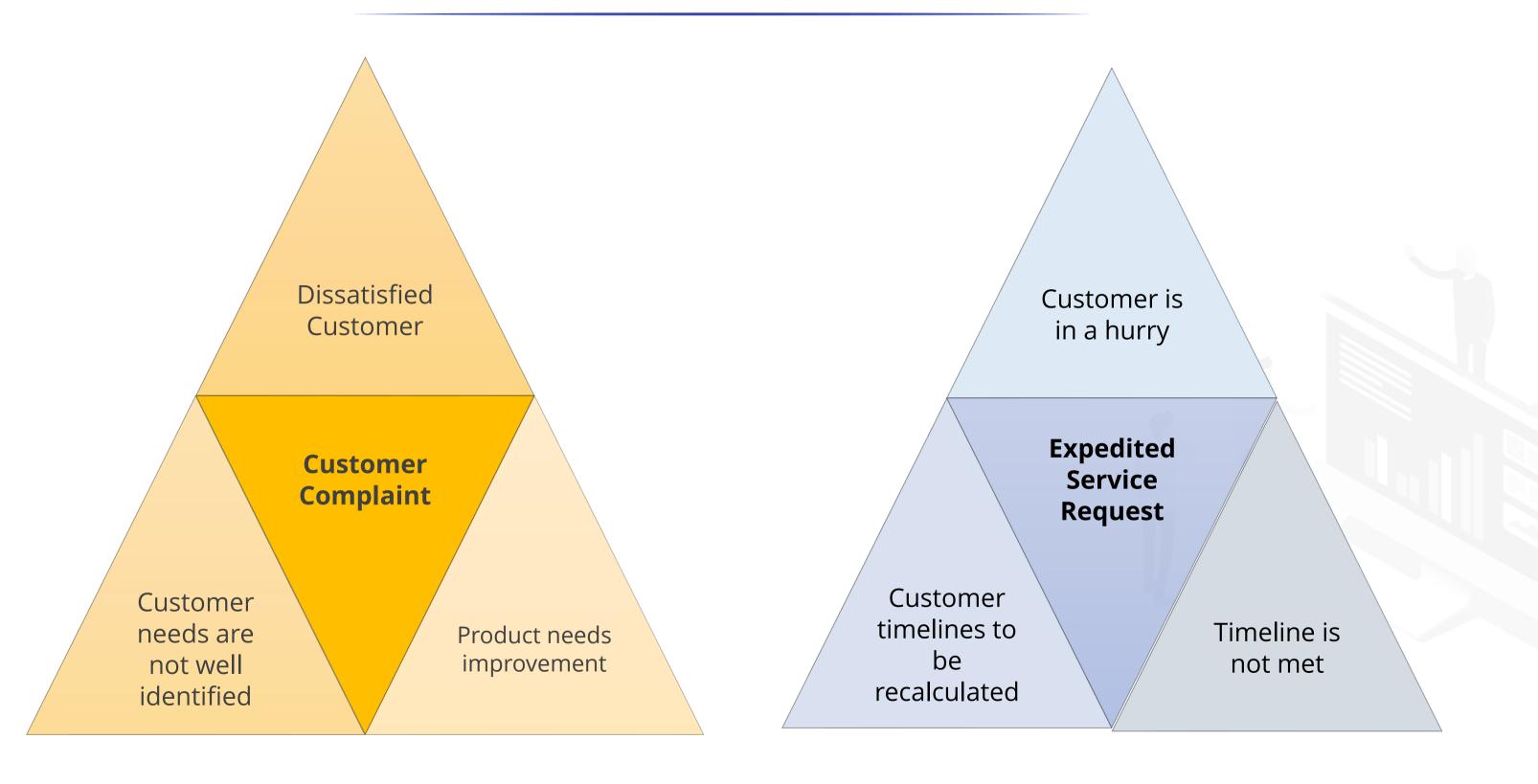
Questionnaires, focus groups, and interviews

Information is gathered from the customer after contact is initiated

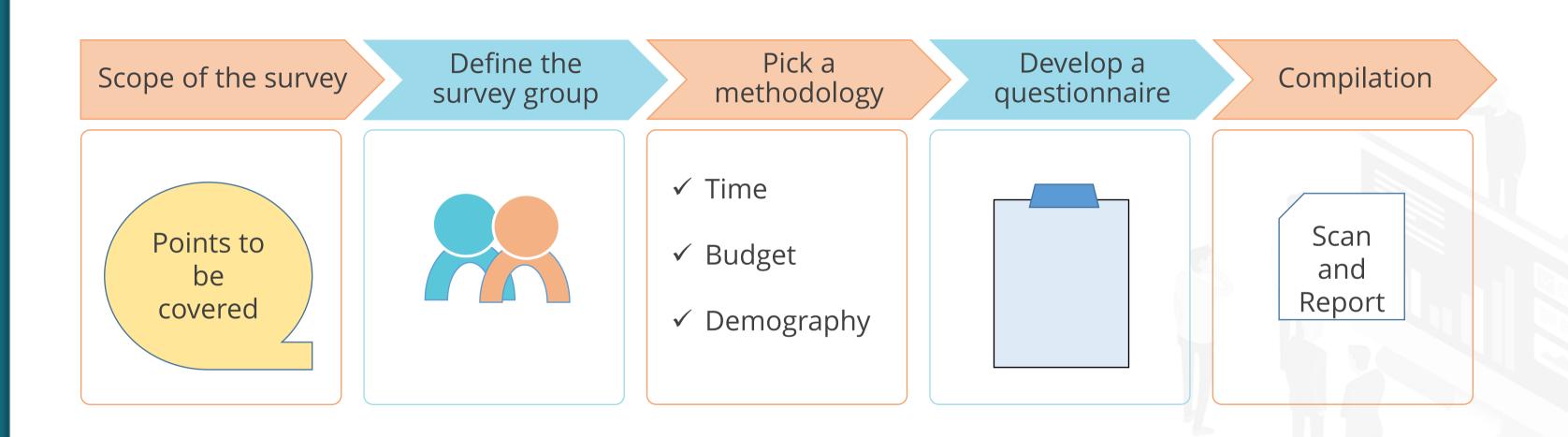
Requires targeted customer contact to obtain information related to the project



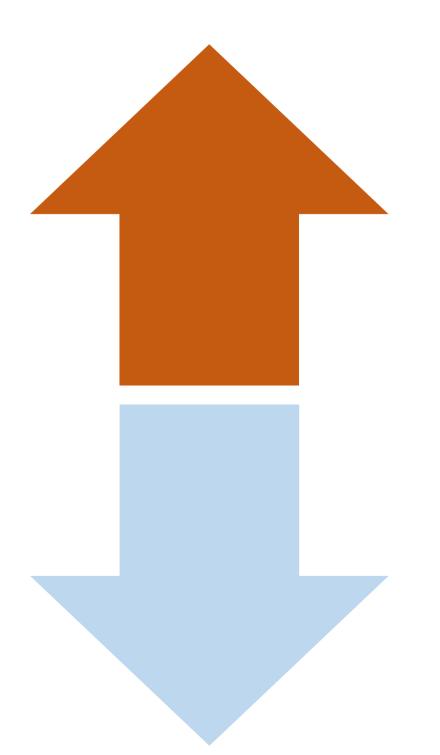
### **Customer Complaint vs. Expected Service Request**



#### **Proactive Data Source: Steps In The Process**



#### **Proactive Data Source**





#### **Advantages**

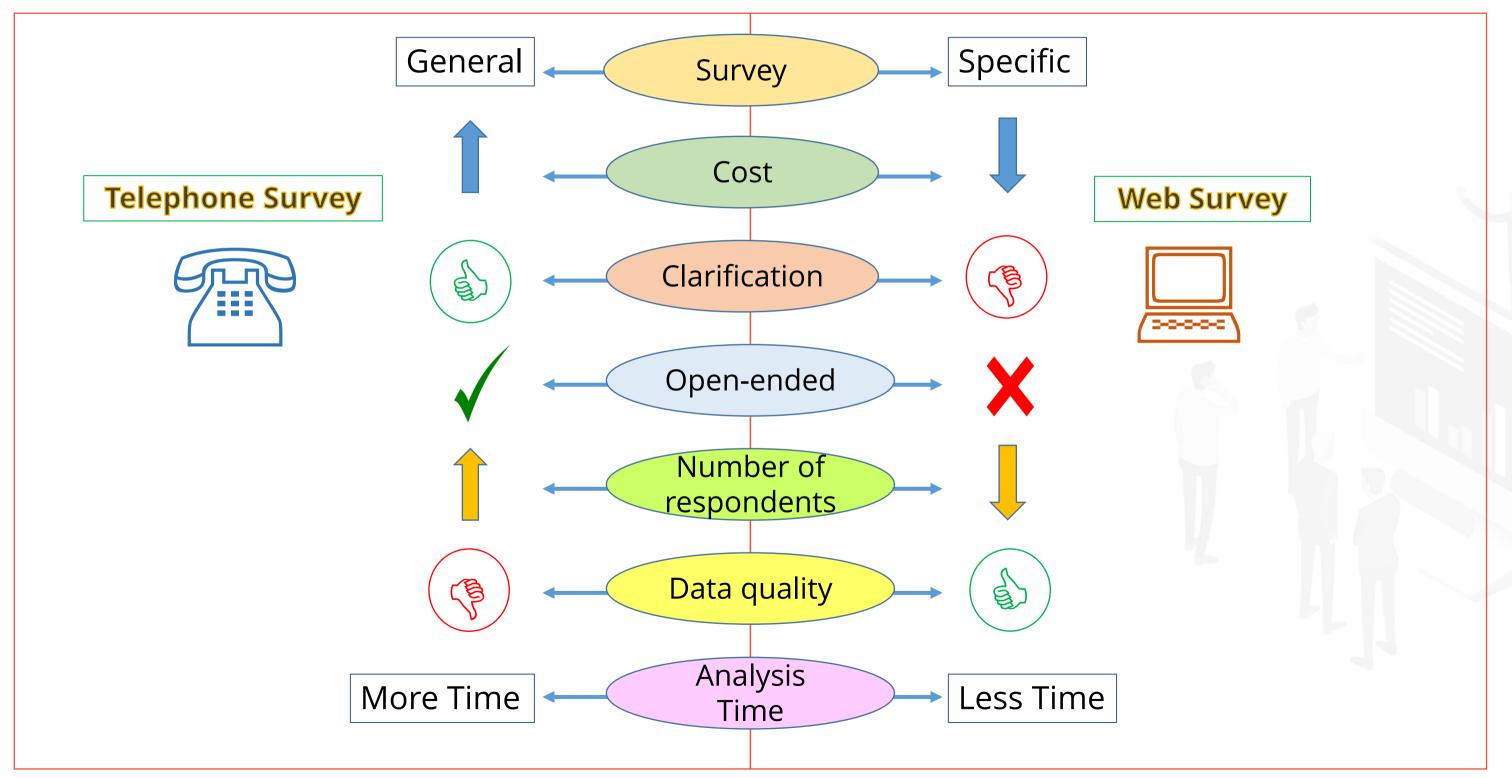
- Low cost
- 70% 90% high phone response rate
- Faster results
- Analysis of mail questionnaires requires few trained resources



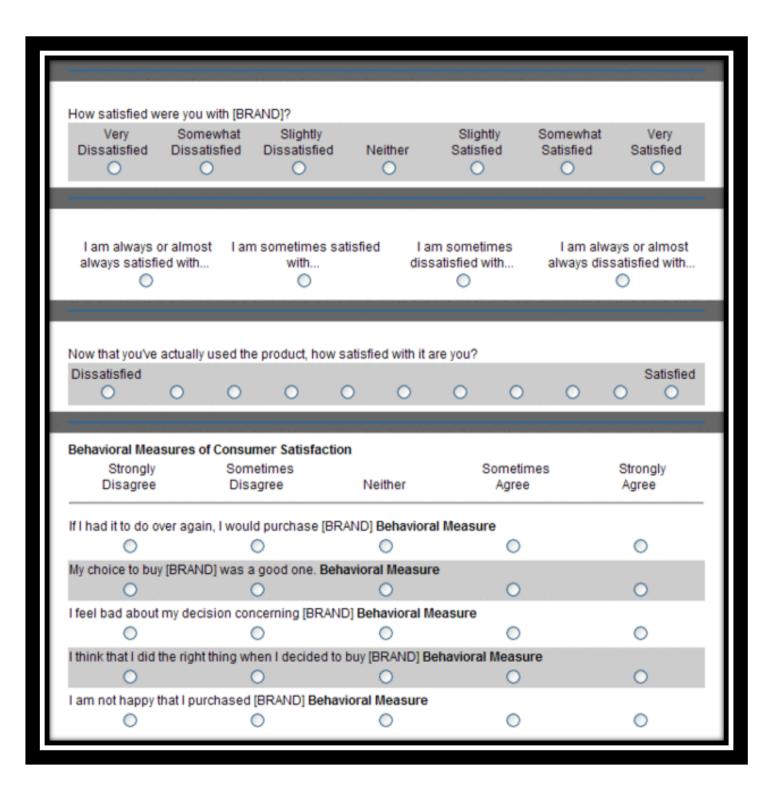
#### **Disadvantages**

- 20% 30% mail response
- Phone surveys: interviewer may influence the interviewee
- Lack of clarity

#### **Proactive Data Source: Telephone Vs. Web Survey**



#### **Proactive Data Source: Sample Survey**





#### **Steps to Conduct a Focus Group**

#### Preparatory stage

#### Planning stage

# Conducting Session

#### Compilation

- Identify scope of focus group
- Analyze the problem that needs to be addressed

- Finalize session, venue, and time
- Arrange a means for transcription
- Advertise session details
- Arrange for refreshments

- Facilitate introductions
- State the agenda and transcription factor
- Record the session
- Retreat to an observatory

- Study transcription material
- Make notes about key customer needs and requirements



#### **Focus Group: Advantages**

#### Advantages of a Focus Group



- ✓ Interaction generates information
- ✓ Provides in-depth responses
- ✓ Addresses more complex questions or qualitative data
- ✓ Gets critical-to-quality definitions

#### **Focus Group: Disadvantages**

#### Disadvantages of a Focus Group



- ✓ Learning is subjective
- ✓ Data is qualitative
- ✓ Generates anecdotes and incidents by individuals in the group

#### **Proactive Data Source: Interview**



- ✓ Interview is a technique of questioning and probing an individual to gather information.
- ✓ It is informal.
- ✓ It encourages the interviewees to voice their opinion.
- ✓ Individual interviews can be time consuming.

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#### **Proactive Data Source: Process of an Interview**











# Introduction and Greetings

- Greet in a friendly manner
- Understand interviewee's background

#### **Gather Feedback**

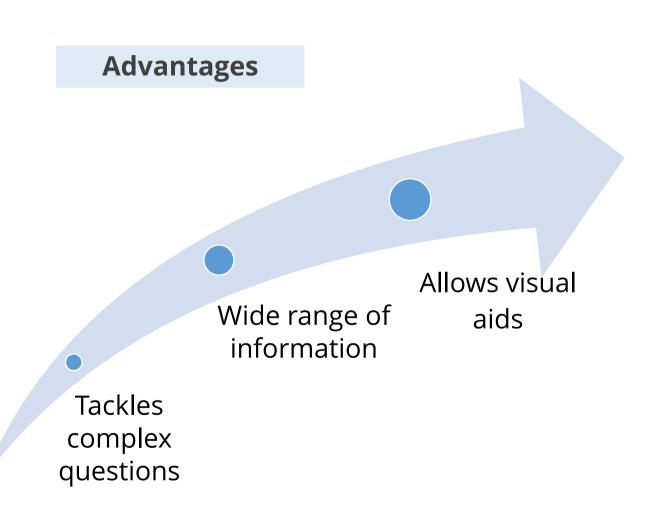
- Avoid taking notes
- Give complete attention
- Gather information

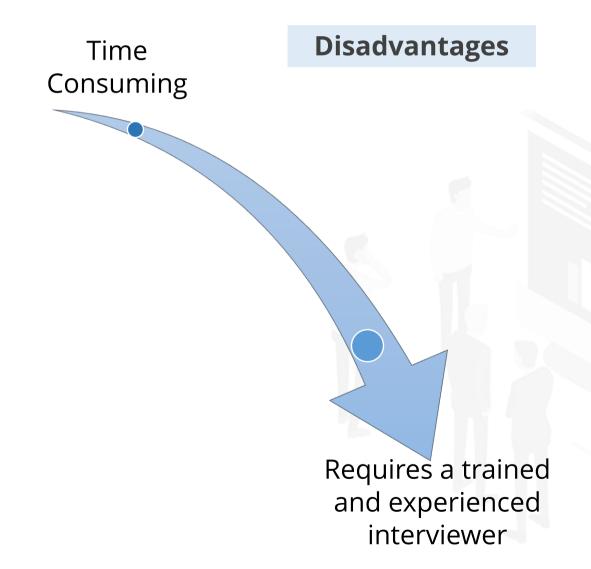
#### Compilation

After session,
 make a list of
 points



#### **Proactive Data Source: Interview**

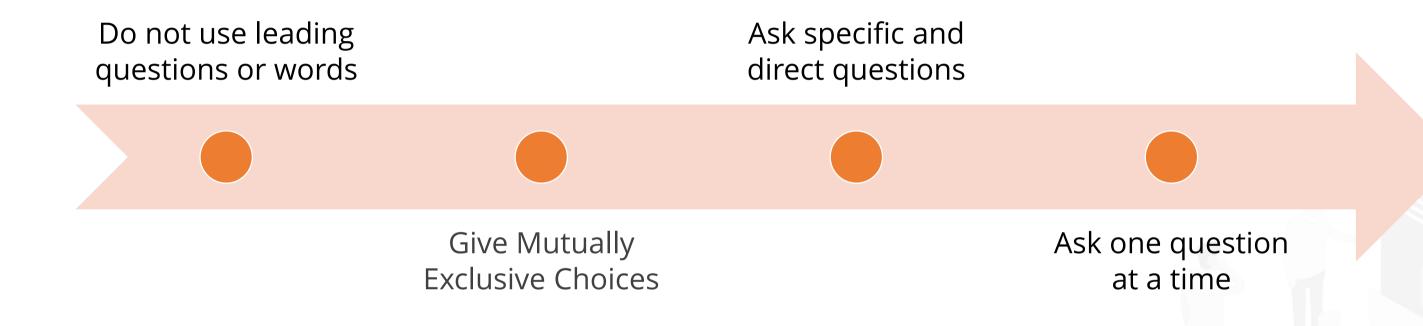




#### **VOC Proactive Data Collection Methods**

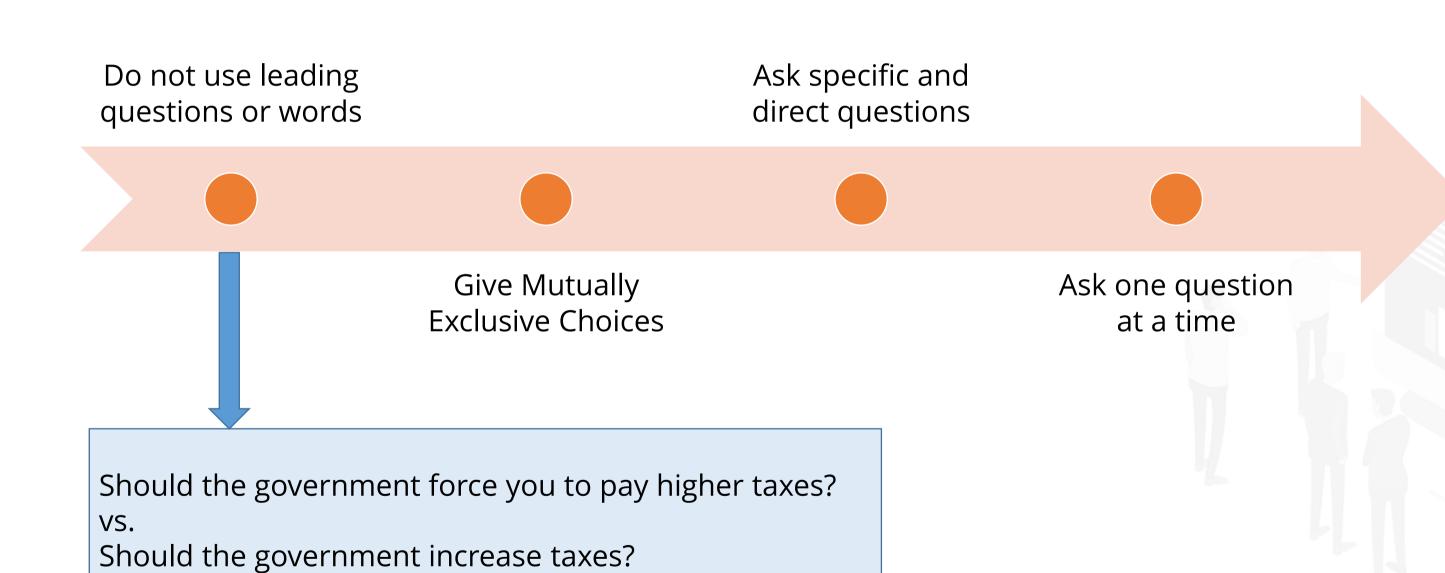
Criteria / Factors	Weightage	Telephone Survey	Web Survey	Interview
Respondents' availability	12	8	8	6
Lead data	6	8	8	9
Cost involved	20	3	9	1
Time consumption (organization perspective)	5	5	10	1
Availability of time from customer (for the survey)	5	3	10	4
Response rate of the customer	15	7	5	8
Judging the quality of data	10	1	6	10
Clarification	3	7	0	10
Visualizing feature	2	0	10	10
Compiling and analyzing data	2	3	10	3
Resource requirement	10	1	10	1
Preparation time	5	7	1	9
Accessibility to customer	5	8	8	4
TOTAL	100	471	744	522

#### **Write Effective VOC Questions: Tips**

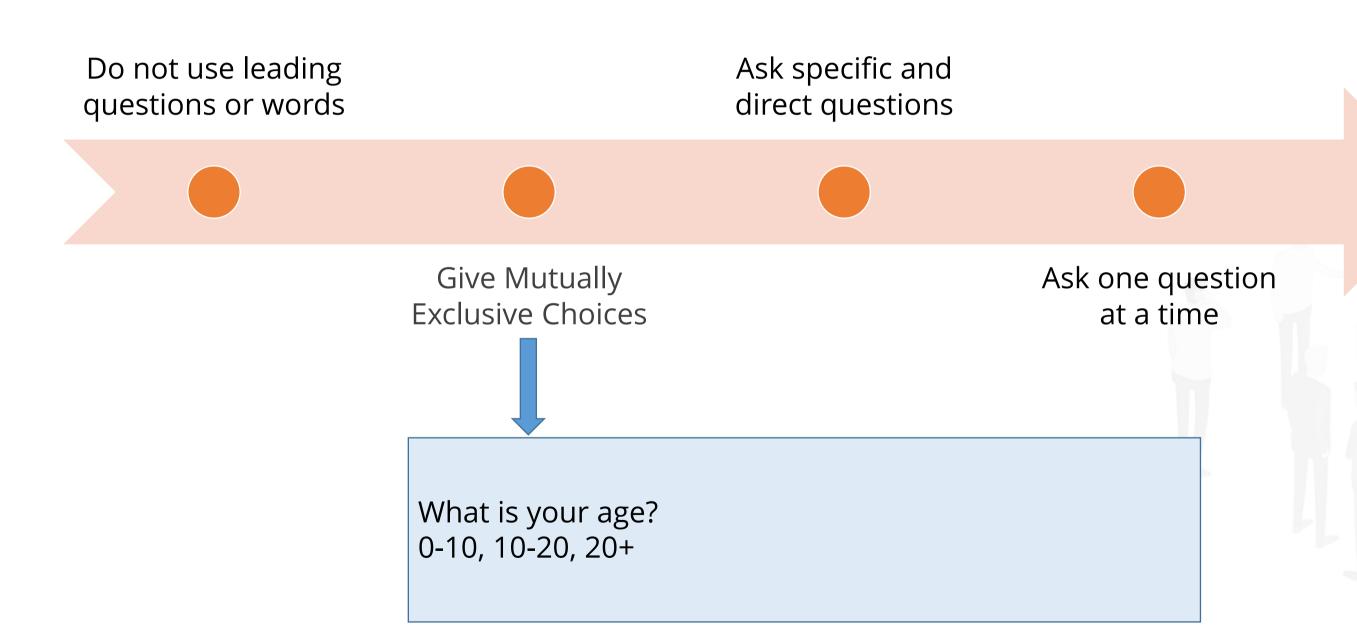




#### **Write Effective VOC Questions: Tips**

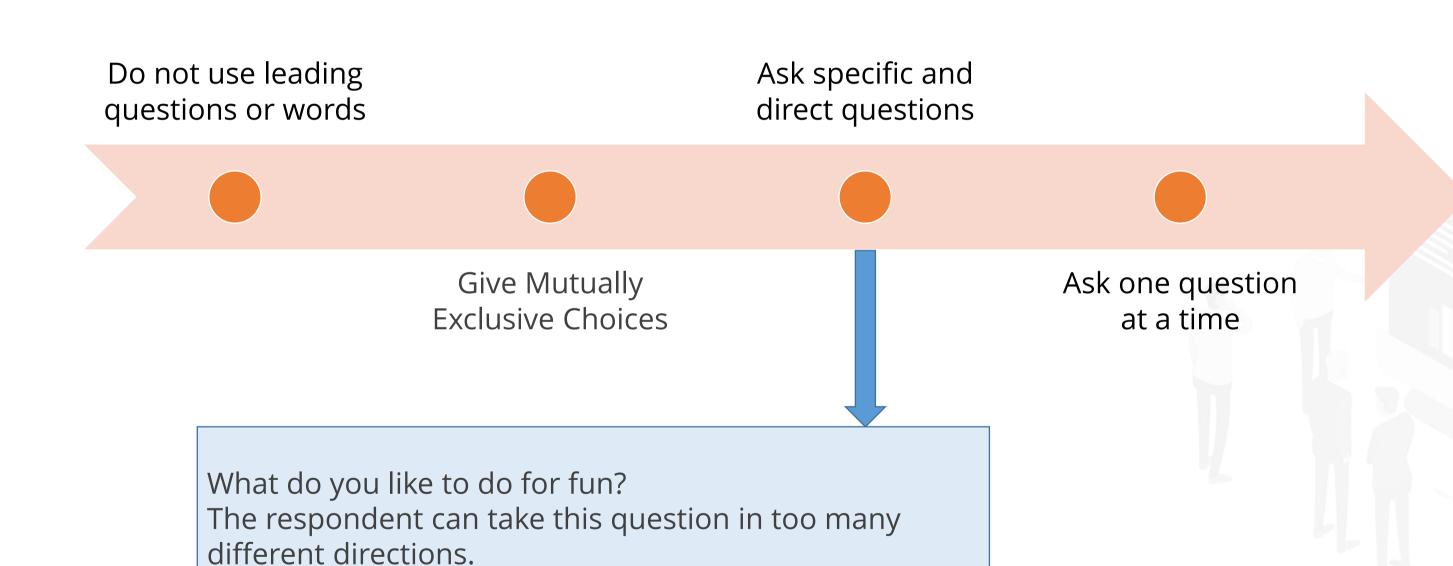


#### **Write Effective VOC Questions: Tips**



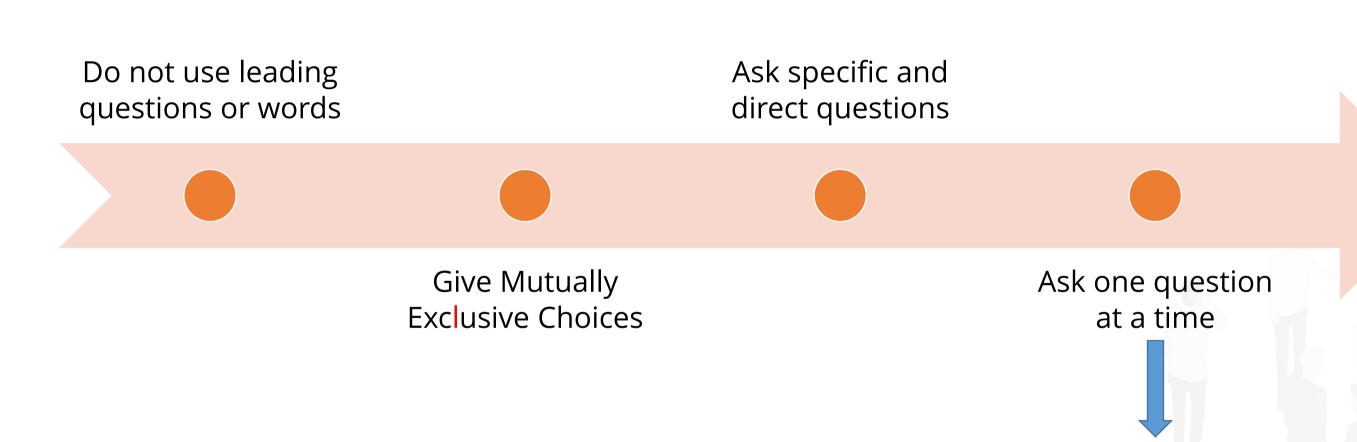


#### **Write Effective VOC Questions: Tips**





# **Write Effective VOC Questions: Tips**



How likely are you to come back and tell a friend? These are really two questions in one.



#### Sample Review of Data Collection Questions

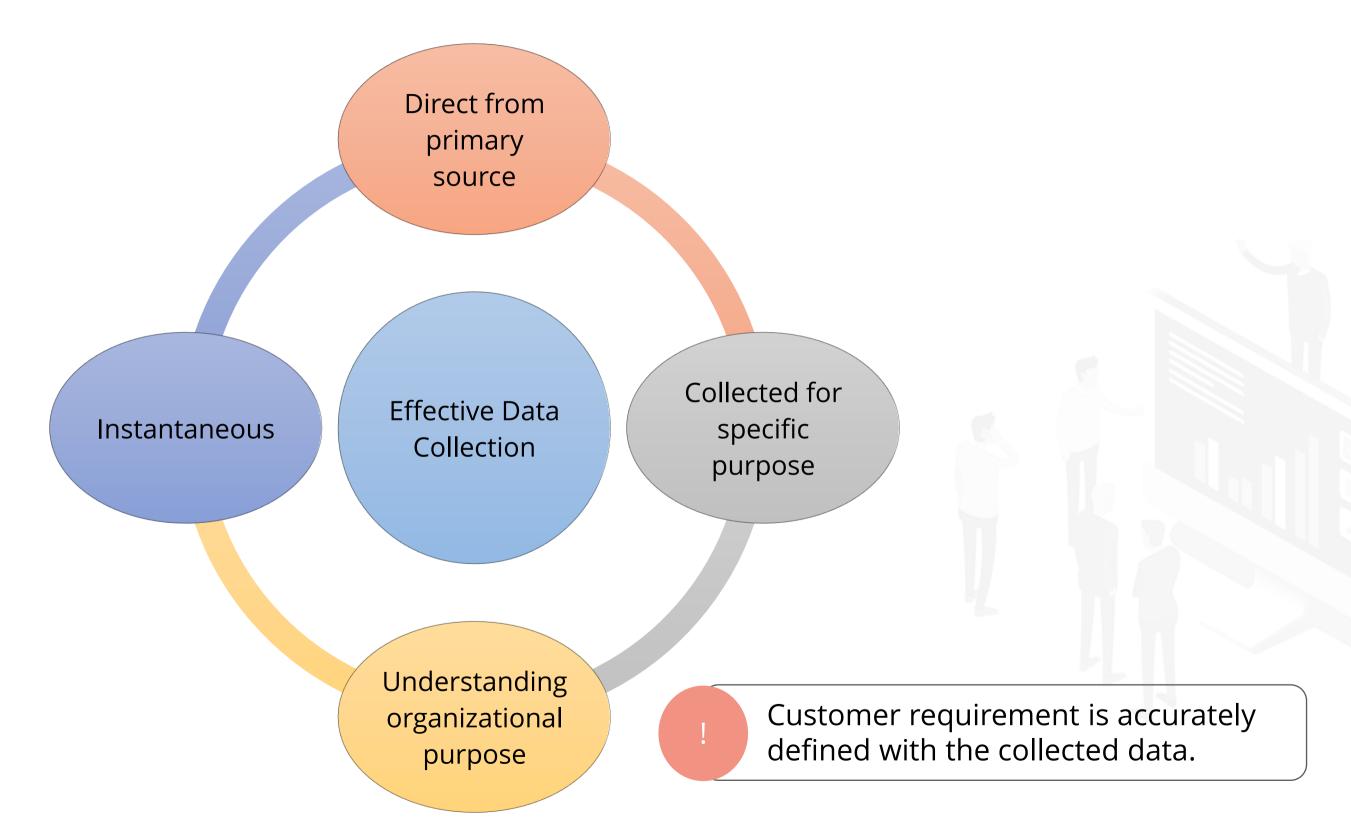
#### Customer feedback sheet before review

- Name:
- Gender: Male/Female
- Occupation: Student/Professional
- Were sales executive supportive? Yes/No
- Was the product delivered on assured time? Yes/No
- Please rate overall experience between
   1 and 10 (1 lowest and 10 highest)

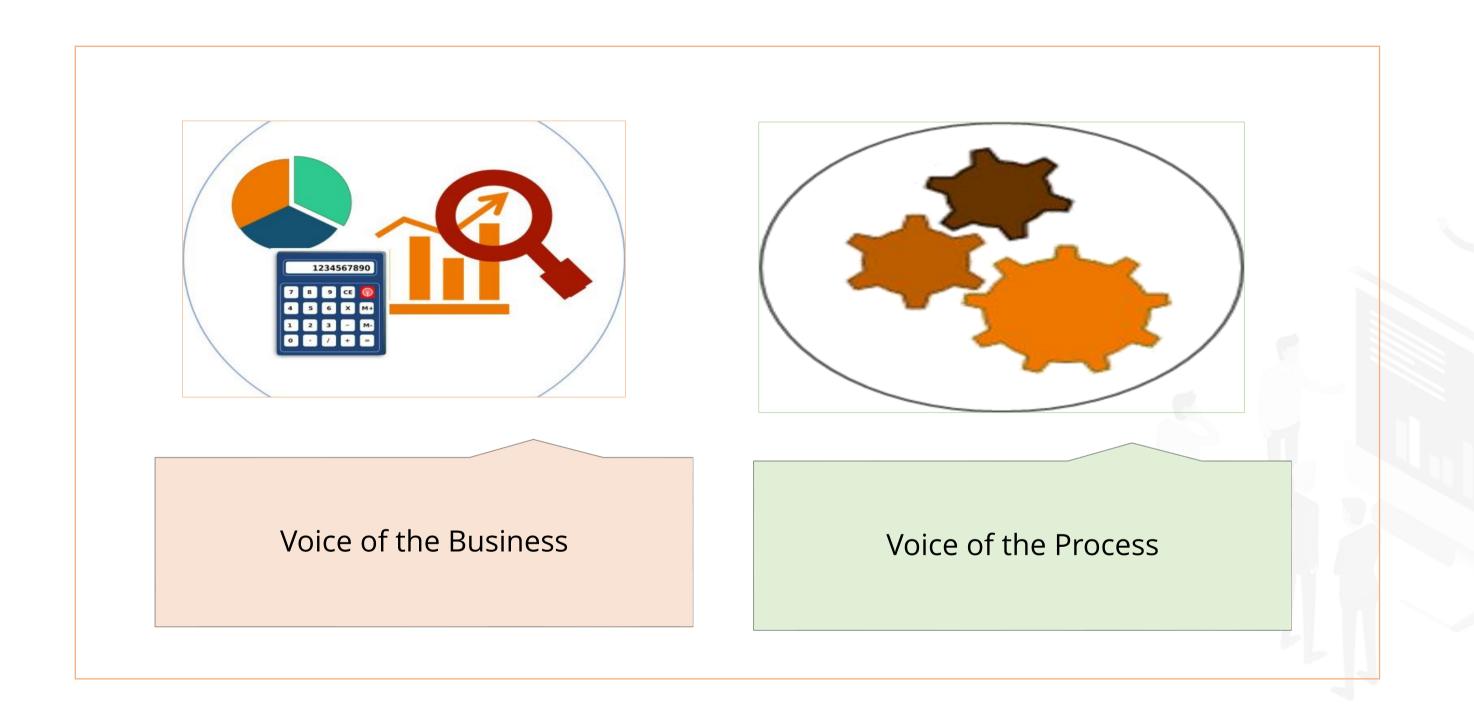
#### **Customer feedback sheet after review**

- Name:
- Gender: Male/Female
- Occupation: Student/Professional/others (Please specify)
- Rate sales executives on the below areas: (10 high-1 low)
  - Politeness
  - Ability to understand and identify problem
  - Quick reply to queries
  - Overall
- Was the product delivered on assured time? Yes/No
- Please rate overall experience between 1 and 10 (1 lowest and 10 highest)

#### **VOC Data Collection Methods: Key Methods**



# **Additional Voice Considerations**



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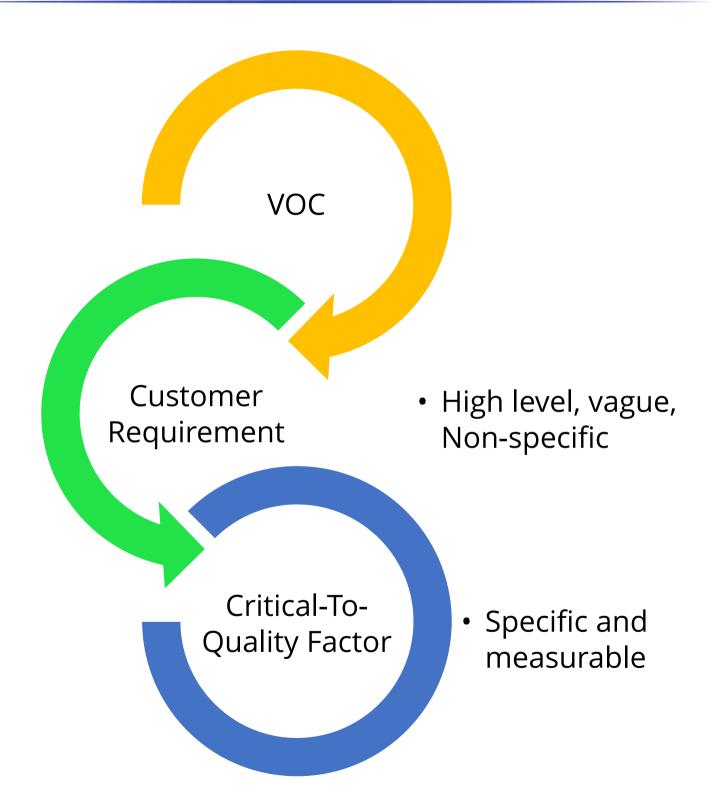
**Customer Requirements** 

# **VoC Table**

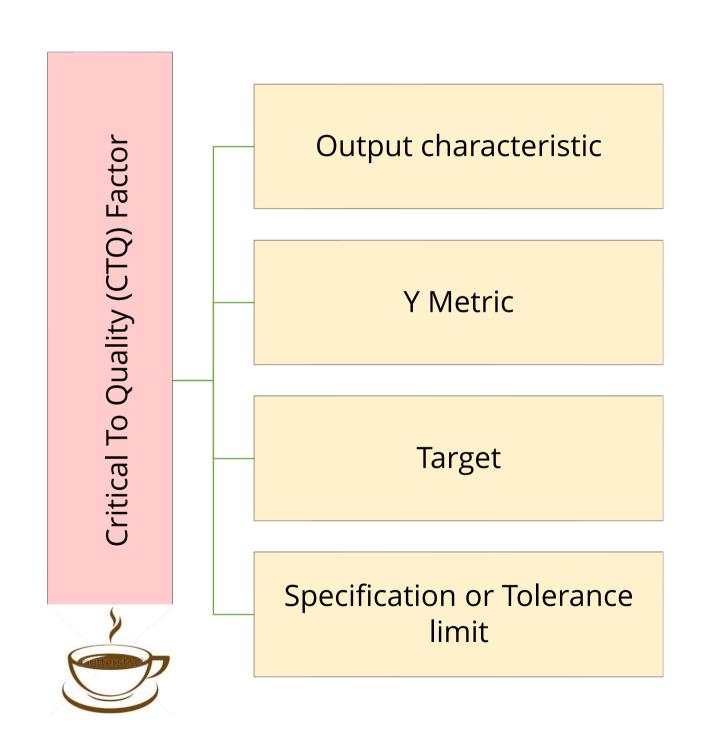
Who is the customer	What the customer said (VOC)	What the customer meant				
		What is the need?	When is the need felt?	Where is the need felt?	Why is the need felt?	How is the situation handled now?
Office Rep	AC should be silent	Quiet work environment	During the work day	In the office	To focus on work	Uses a ceiling fan that makes a lot of noise
	AC should be efficient	Good cooling	During the work day	In the office	Weather is very hot in May and June	Uses a ceiling fan that is not so effective in summer
	AC should be economic	Affordability	N/A	N/A	Limited finances	N/A

Sample analysis of VOC – AC purchase

# **Translating VOC to Critical-to-Value (CTQ)**



# **CTQ Factor: Major Elements**



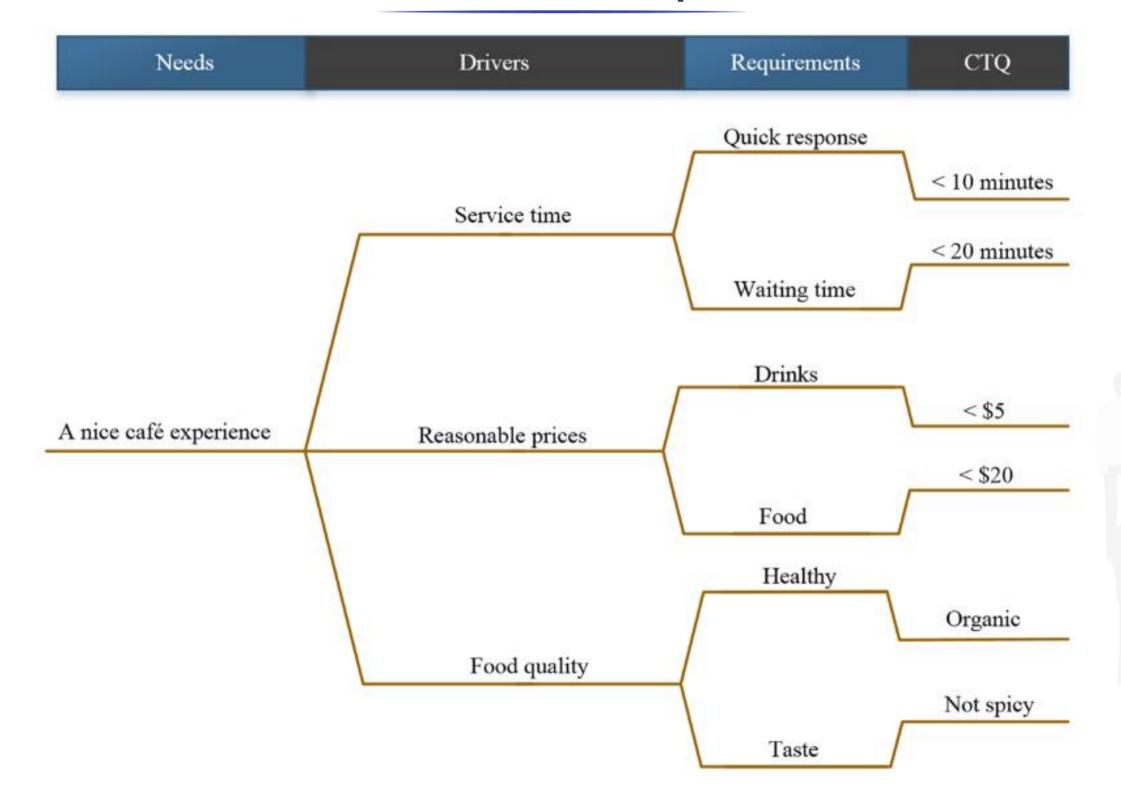
#### **Steps to Develop CTQ Tree**

Critical-to-Quality factors – Quality parameters set by the organization relating to the customers' needs

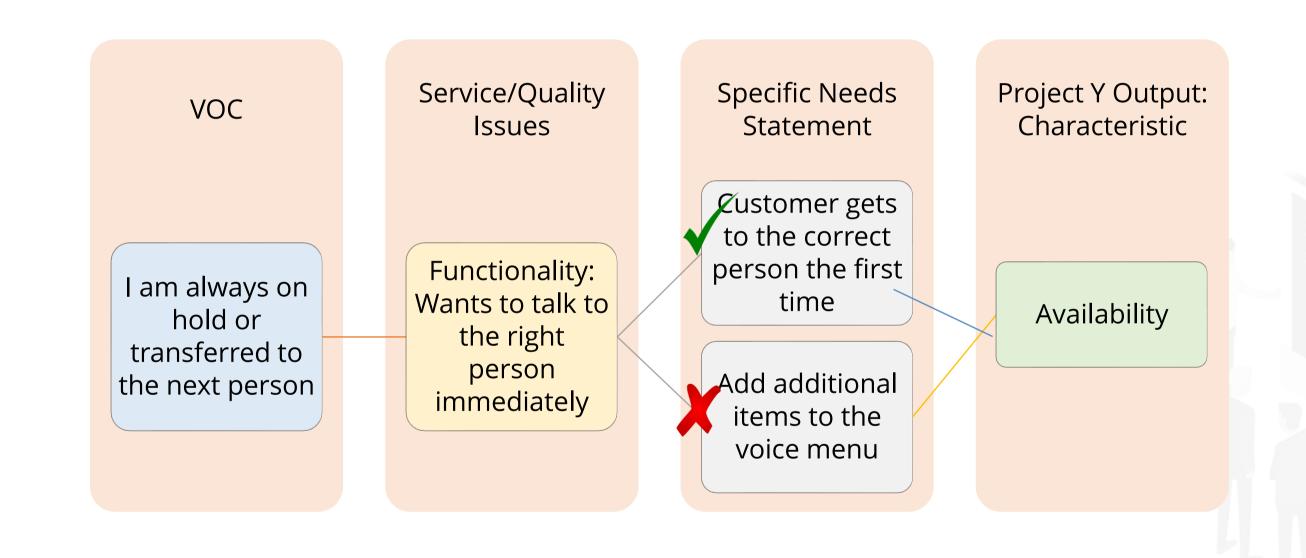
CTQ tree – A diagram-based tool that helps develop and deliver quality products and services



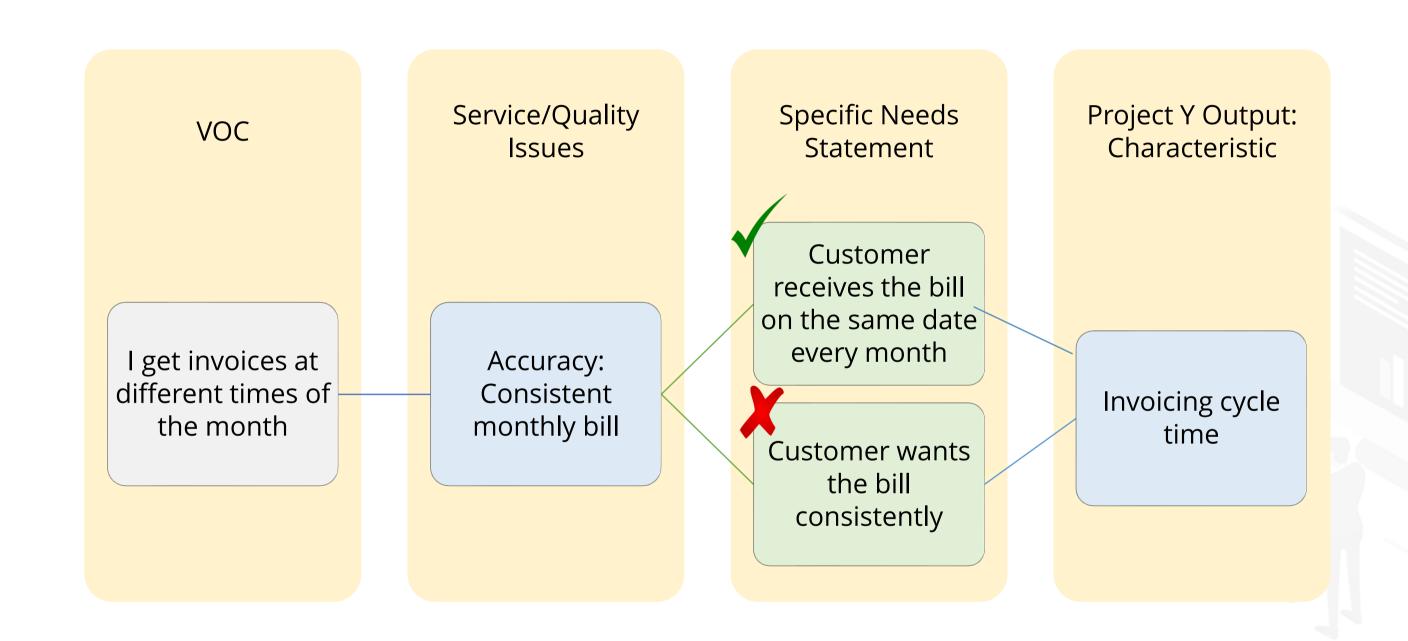
# **CTQ Tree: Example**



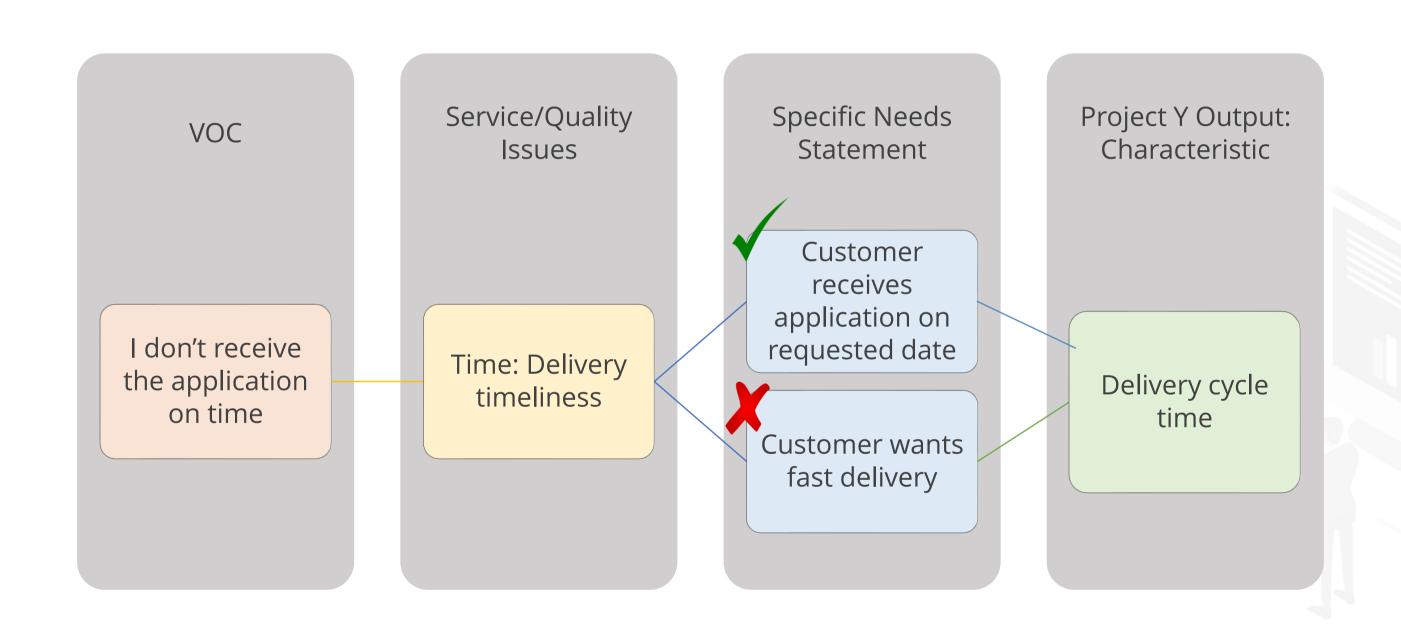
# **CTQ: Translation Worksheet Example 1**



# **CTQ: Translation Worksheet Example 2**



# **CTQ: Translation Worksheet Example 3**



# **Quality Function Deployment (QFD): Definition**

It is a process to understand the customers' needs and translate them into a set of design and manufacturing requirements while motivating businesses to focus on its customers



Customer requirements



Organization's strengths and weaknesses



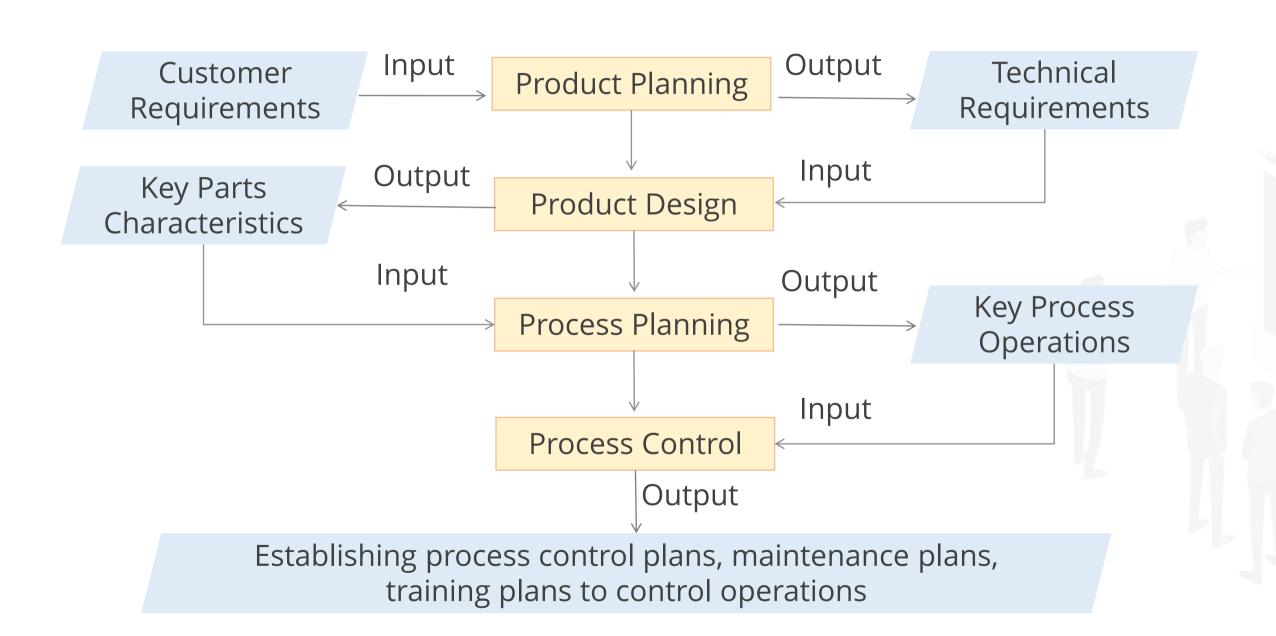
Areas where most of the work is to be done



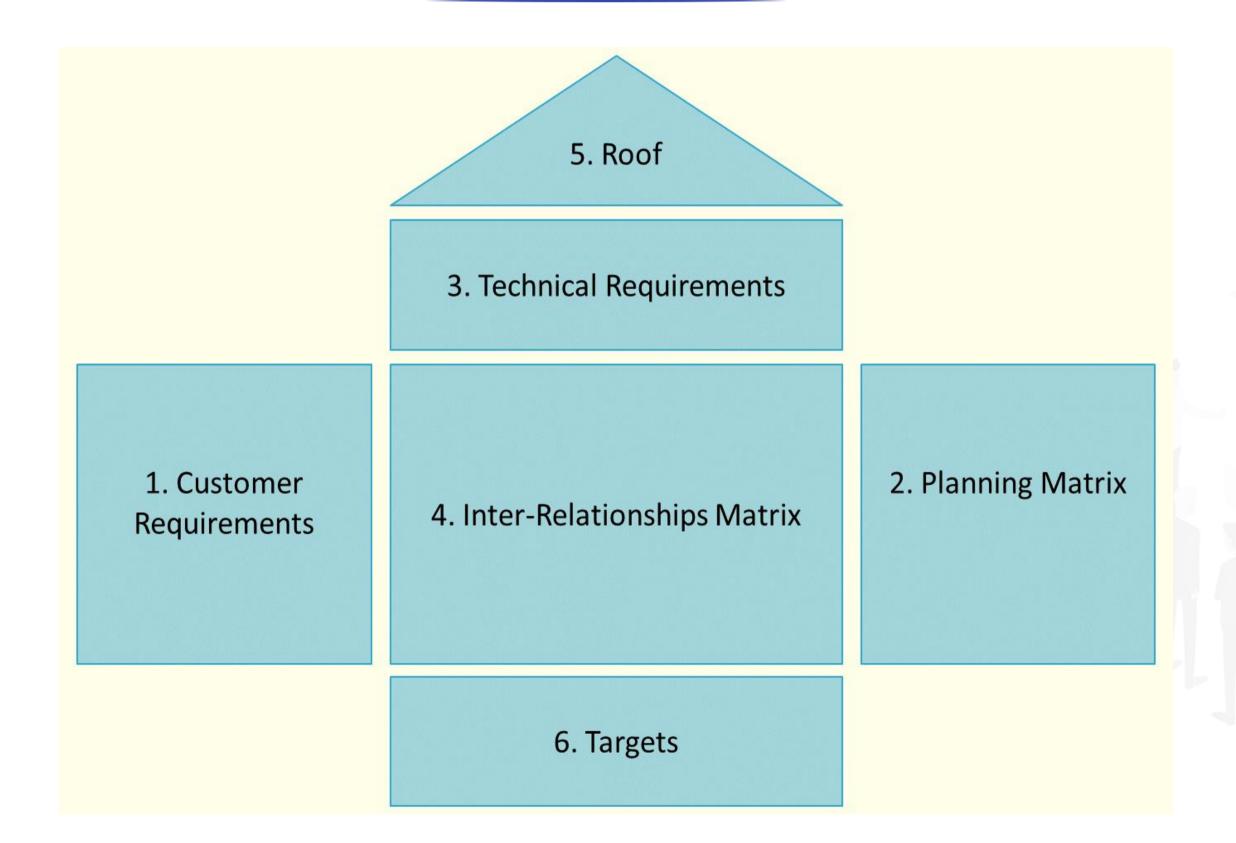
Areas where the focus should be

# **QFD: Deployment**

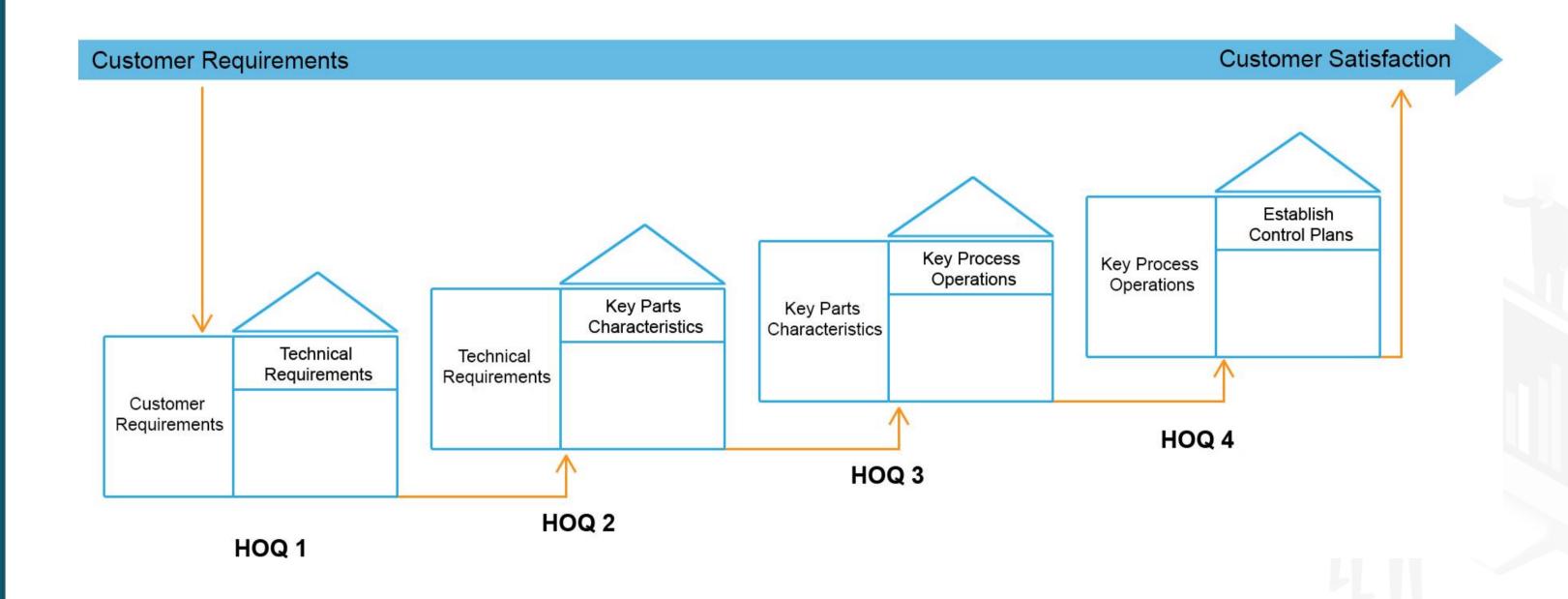
Quality function deployment involves four phases. The output of a phase is the input of the next phase.



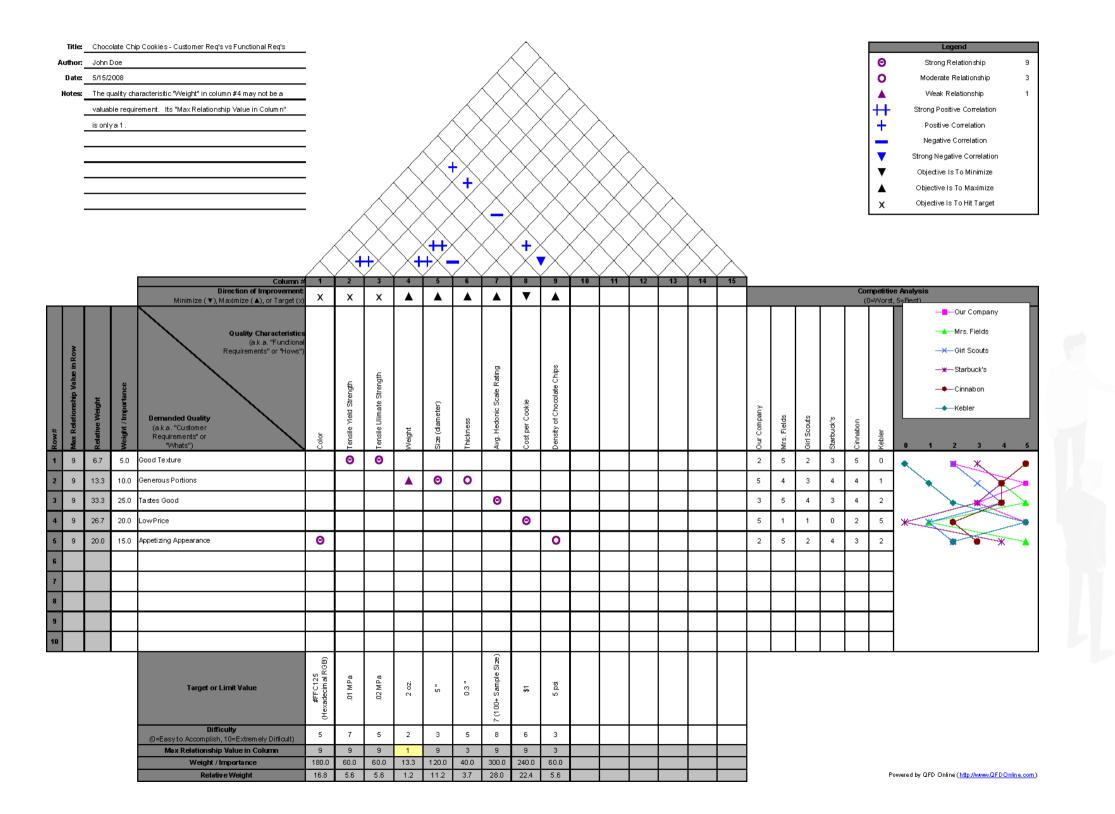
# **QFD: Six Sections**



# **QFD: Post-HOQ Matrix**



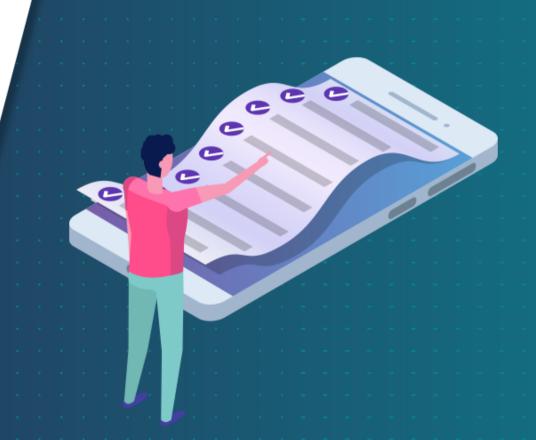
# **QFD: Example**





#### **Key Takeaways**

- There are two types of customers: internal and external.
- Customer feedback is important for the success of any project.
- Data collection methods can be reactive or proactive.
- The VOC is a technique to organize, analyze, and profile the customer's requirements.
- A CTQ tree is used to visually show the relationship between the VOC needs, Drivers, Requirements, and CTQ.
- The QFD method is a 4-phase iterative process.



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**Knowledge Check** 

# There are several methods and considerations to collect VOC data, but what is the primary purpose of VOC data collection?

- A. To satisfy the internal customer's expectations of the product
- B. Find out what the customer likes and does not like about the products
- C. Identify the customers needs so we can translate them to CTQs
- D. To satisfy the external customer's expectations of the service





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- D. To satisfy the external customer's expectations of the service



The correct answer is **C** 

The primary purpose of VOC data collection is to obtain as much information as necessary from the customer to define Critical to Quality (CTQ) requirements.



7

#### When should a team use a telephone survey over a web survey?

- A. Anytime
- B. Target customer group is easily accessible over the Internet
- C. A high response rate is needed
- D. Time availability of customer is a concern





2

When should a team use a telephone survey over a web survey?

- A. Anytime
- B. Target customer group is easily accessible over the Internet
- C. A high response rate is needed
- D. Time availability of customer is a concern



The correct answer is **C** 

A telephone survey has a higher response rate than web surveys so if that is only requirement by the organization, the telephone survey method should be used.



#### Which VOC data collection method is the least costly?

- A. Survey
- B. Interview
- C. Focus Group
- D. VOC Table





3

#### Which VOC data collection method is the least costly?

- A. Survey
- B. Interview
- C. Focus Group
- D. VOC Table



The correct answer is A

Implementing a web survey does not cost as much as an interview or focus group.



4

#### Which of the following is NOT an element of a developed CTQ?

- A. Metric
- B. Target
- C. Supplier characteristic
- D. Specification limit





4

#### Which of the following is NOT an element of a developed CTQ?

- A. Metric
- B. Target
- C. Supplier characteristic
- D. Specification limit



The correct answer is **C** 

An output characteristic is needed and not a supplier characteristic.



5

#### How many phases are there in QFD?

A. 2

B. 3

C. 4

D. 5





5

How many phases are there in QFD?

- A. 2
- B. 3
- C. 4
- D. 5



The correct answer is **C** 

There are four phases in the QFD. The four phases are product planning, product design, process planning, and process control.

