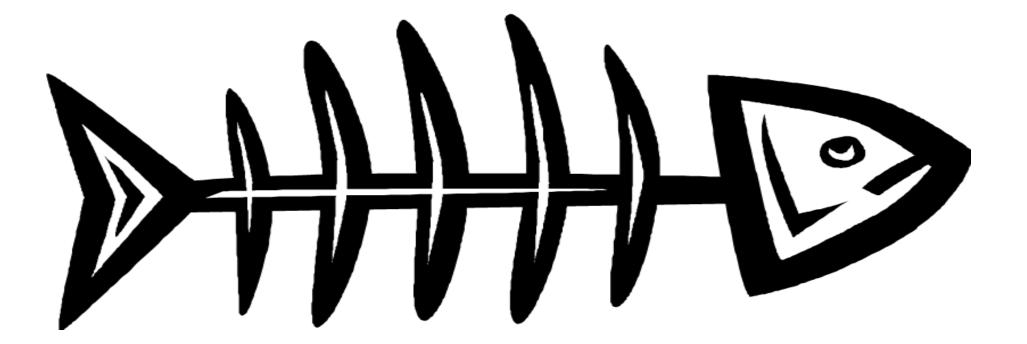


Constructing the Fishbone Diagram October 27, 2022 Amanda Norton Quality Improvement Advisor altn14@gmail.com





Fishbone Diagrams/Ishikawa Diagram





Learning Objectives

- Discuss the benefits of constructing a Fishbone diagram to assess causes of a problem.
- Identify the steps in constructing a Fishbone diagram.
- Discuss how to successfully use a Fishbone diagram to identify and address causes.
- •Build your own Fishbone diagram.



WILL THE REAL "..." PLEASE STAND UP....

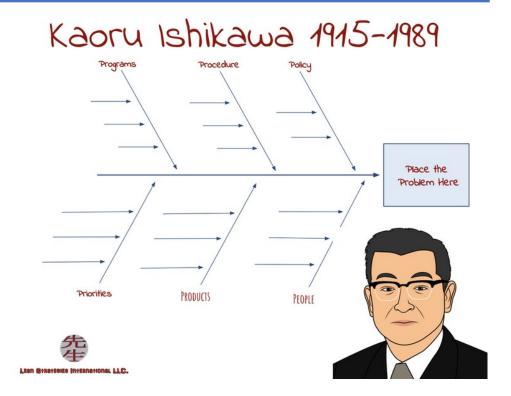
- •Ishikawa diagram
- •Fishbone diagram
- •Cause and effect



Ishikawa Diagram

The Ishikawa Diagram was created by Kaoru Ishikawa, an organizational theorist professor at the University of Tokyo.

Ishikawa believed that increased internal cooperation and coordination positively affects a customer's needs and ultimately leads to process efficiency and better quality of products and services. He expressed the need for the top-level management to support the teams which were under their control all the time.





BENEFITS AND IMPORTANCE OF ISHIKAWA DIAGRAM

- Displays **all the possible causes** of a particular problem in a simple, easy to read graphical way.
- Captures the relationships between the potential causes and shows them in the chart.
- A great tool **for solving complex problems** where many factors have to be taken into consideration.
- Stimulates an in-depth analysis and evaluation because it allows you to explore possible causes in detail.



BENEFITS AND IMPORTANCE OF FISHBONE DIAGRAM

- Gives you a bigger picture and better understanding of the problem.
- Boosts and frameworks brainstorming about the possible reasons.
- Stimulates in-depth discussion among team members about the problem.
- Helps in maintaining team focus.
- Identify where a process isn't working.



THE 5 WHYS

- Five is not mandatory, sometime there are only three reasons
- Aims improvement at root cause
- Avoids addressing symptoms
- Performed systematically
- Continuous improvement tool
- Systems focused
- The "5 Why's" not the "5 Who's"



THE 5 WHY'S: EXAMPLE

Example: My computer shuts down hourlyWhy: Its seven years oldWhy: We never bought new onesWhy: It has not been in the budgetWhy: There is no central person to control ITWhy: They retired and were never replaced



GROUP EXERCISE ON 5 WHY'S

Why am I always late to work?

- 1. 2.
- 3.
- 4.
- 5.



CONSTRUCTING A FISHBONE DIAGRAM

Establish what the problem (effect) is:

• State in clear, concise terms, agreed by everyone

Write the effect on the head of the fish

• Main causes and related causes are identified by the team under categories

Brainstorm

- Use standard categories
- Use major steps in the process if the effect is resulted from a recognizable process
- Continue to ask "why?" until you've reached a useful level of detail
- When ideas run low, ask for "just one more" Check for logic, completeness and balance



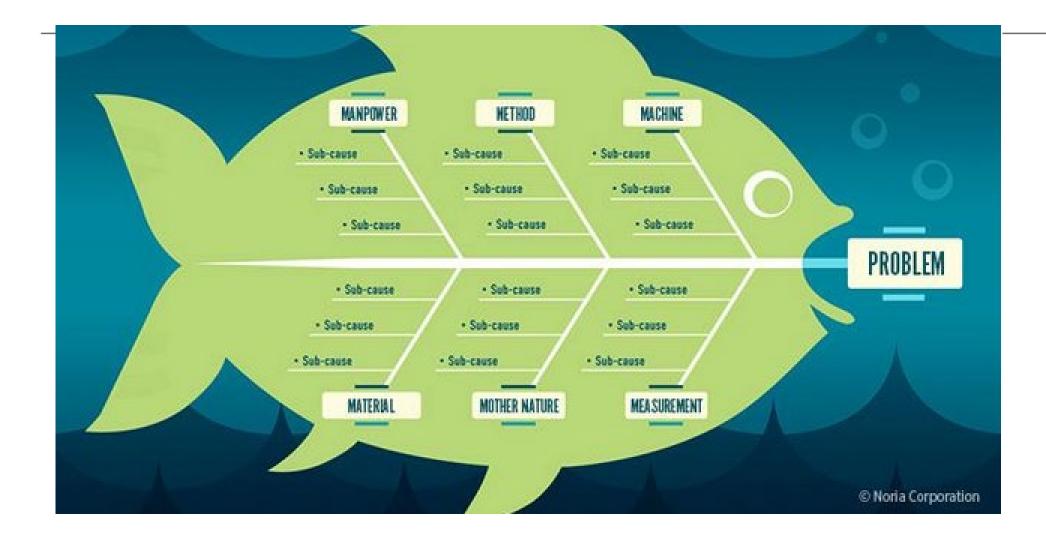
COMMON CATEGORIES USED

People: Anyone involved with the process

Methods: How the process is performed and the specific requirements for doing it, such as systems, policies, procedures, rules and regulations

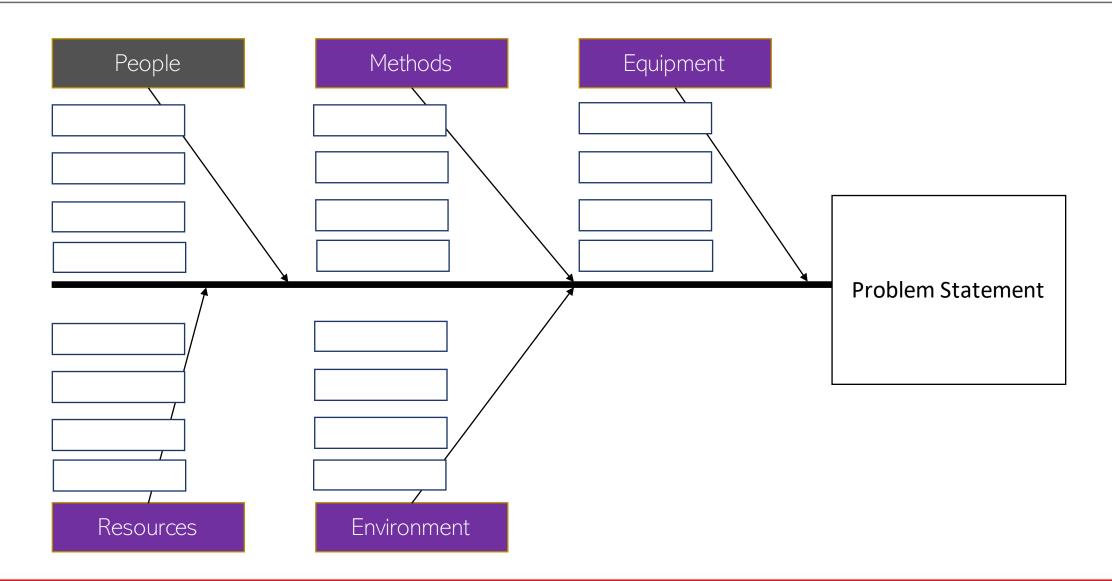
- Equipment/Resources: Computers, tools, bus pass, car, childcare "etc."things required to accomplish the job/task
- **Environment:** The conditions, such as location, time, temperature, and culture in which the process operates



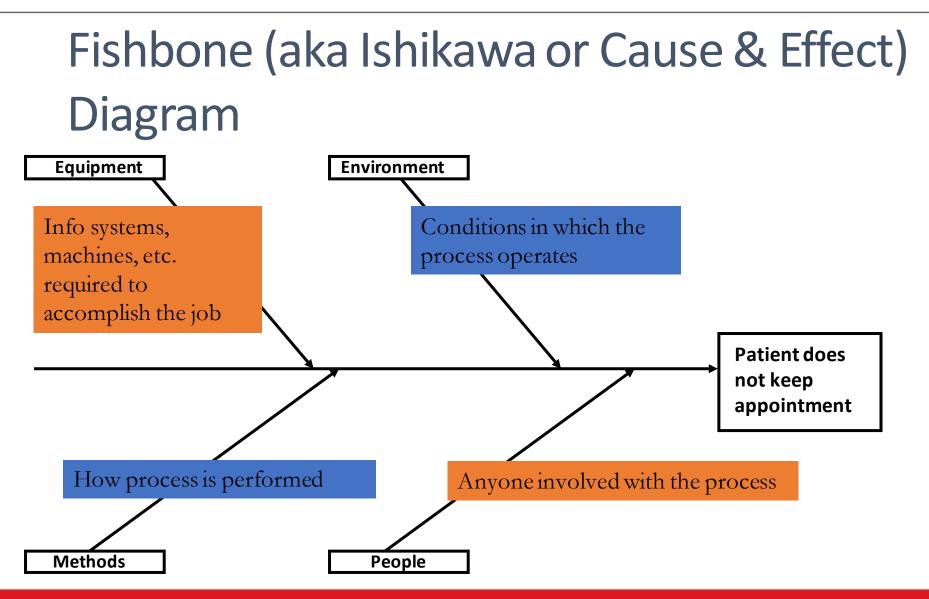


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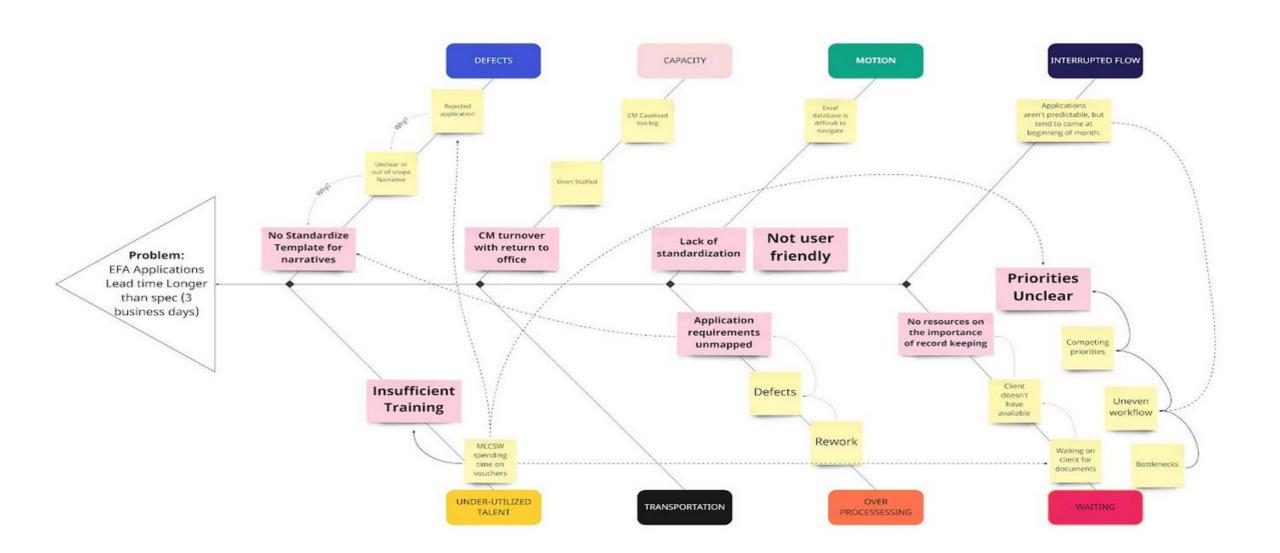










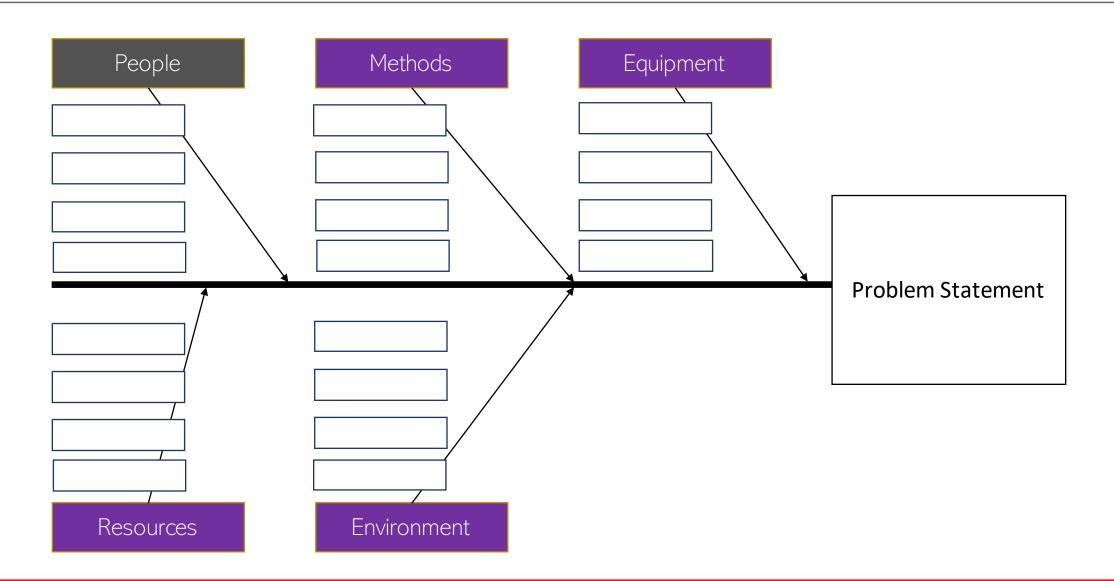




LET'S PRACTICE













Thank You



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Learn More

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