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LECTURE

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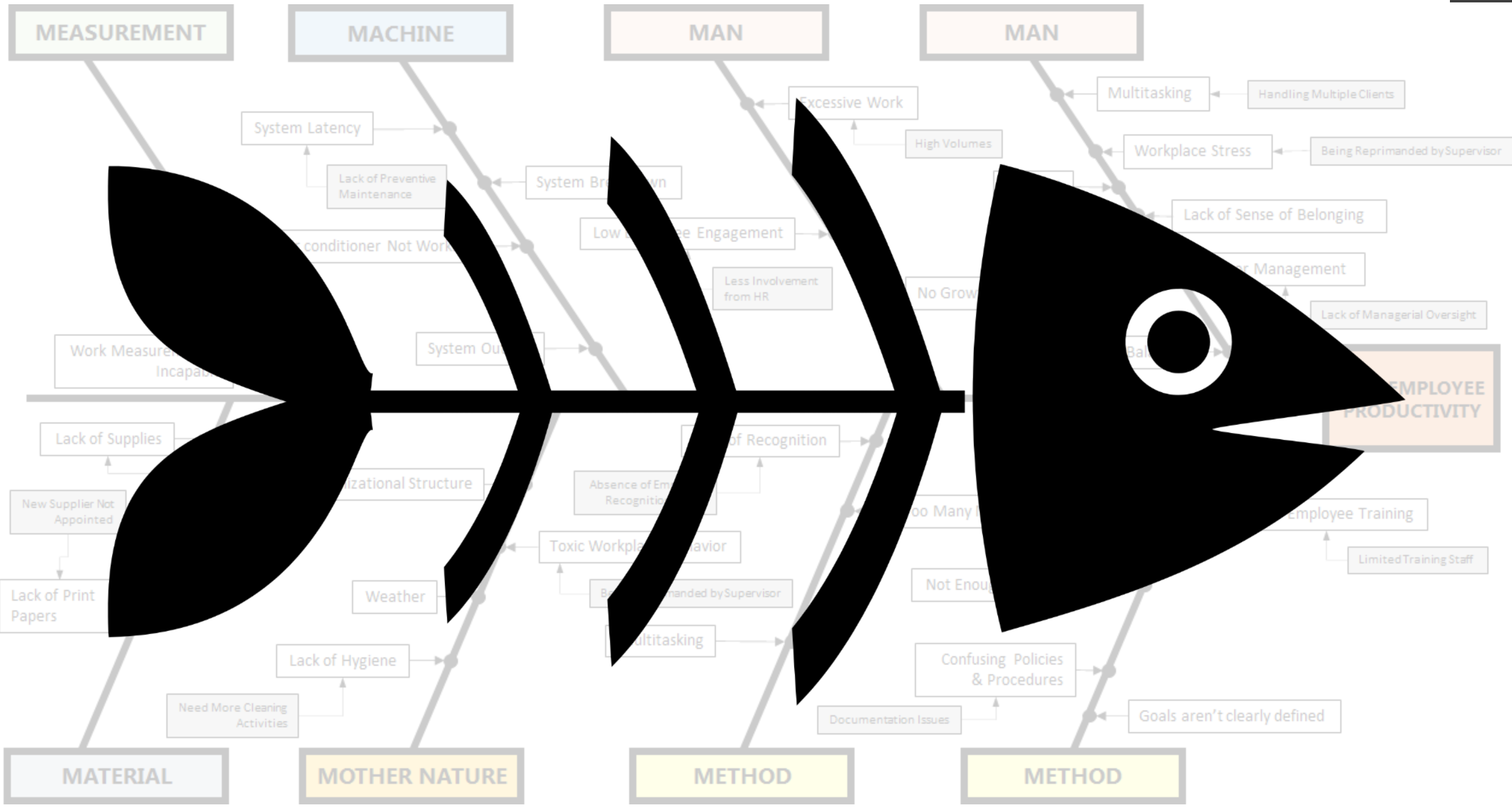
# WHAT IS A FISHBONE DIAGRAM?

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SIX SIGMA WHITE BELT


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# **WHO CONCEIVED AND DEVELOPED THE FISHBONE DIAGRAM?**



A person wearing a plaid shirt and an orange safety vest with reflective stripes is holding a yellow hard hat. The background is blurred, suggesting an outdoor construction or industrial setting.

## **KAORU ISHIKAWA DEVELOPED THE FISHBONE DIAGRAM**

# ISHIKAWA DIAGRAM

## CAUSE-AND-EFFECT DIAGRAM

# WHY IS A FISHBONE DIAGRAM USED?



# USE OF A FISHBONE DIAGRAM

**HELPS IDENTIFY A LARGE NUMBER OF  
ROOT CAUSES**

**ESTABLISHES THE CAUSE AND EFFECT  
RELATIONSHIP IN ONE DIAGRAM**

**STRUCTURES A BRAINSTORMING  
SESSION**

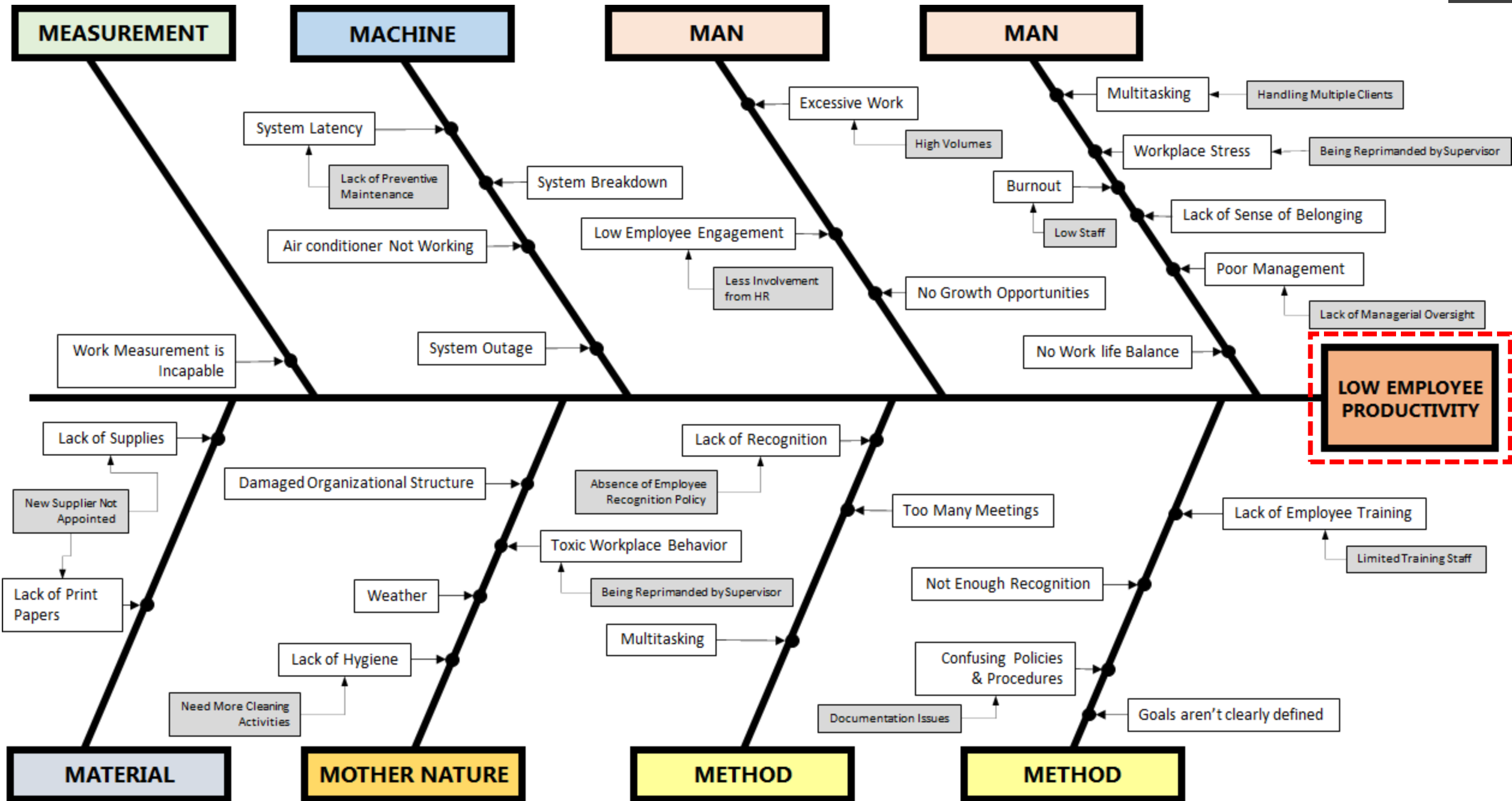
**AVOIDS OVERLOOKING POSSIBLE ROOT  
CAUSES**

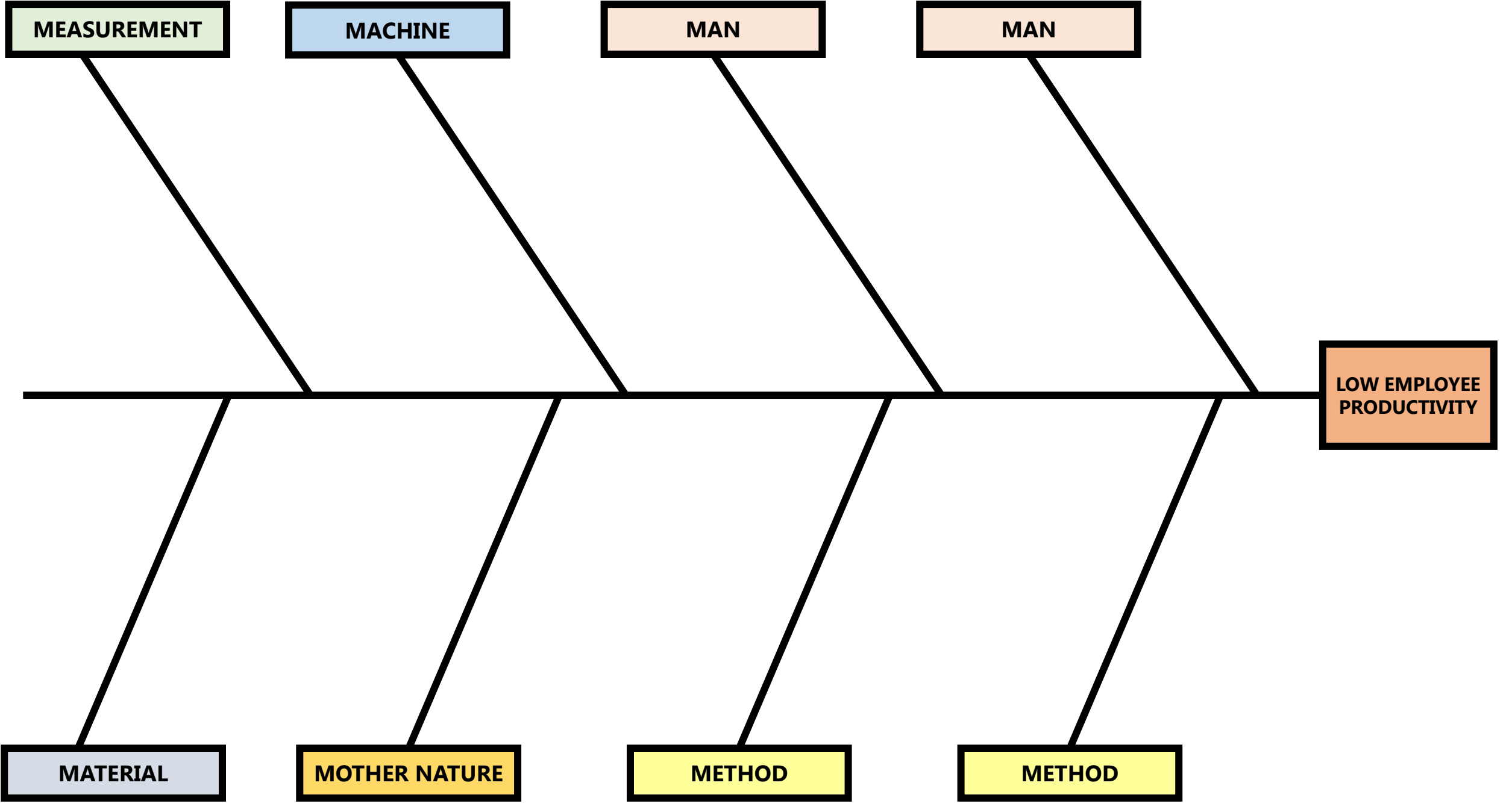
**KEEPS THE TEAM FOCUSED ON THE  
CAUSES**



# THE EXAMPLE OF A FISHBONE DIAGRAM







**MAN**

**INCLUDES PEOPLE RELATED  
ROOT CAUSES IN YOUR  
PROCESS**

**METHOD**

**INCLUDES PROCEDURE  
RELATED ROOT CAUSES**

**MACHINE**

**INCLUDES SYSTEM AND  
OTHER HARDWARE RELATED  
ROOT CAUSES**

**MATERIAL**

**INCLUDES MATERIALISTIC  
PROBLEMS THAT YOUR  
PROCESS MAY FACE**

**MEASUREMENT**

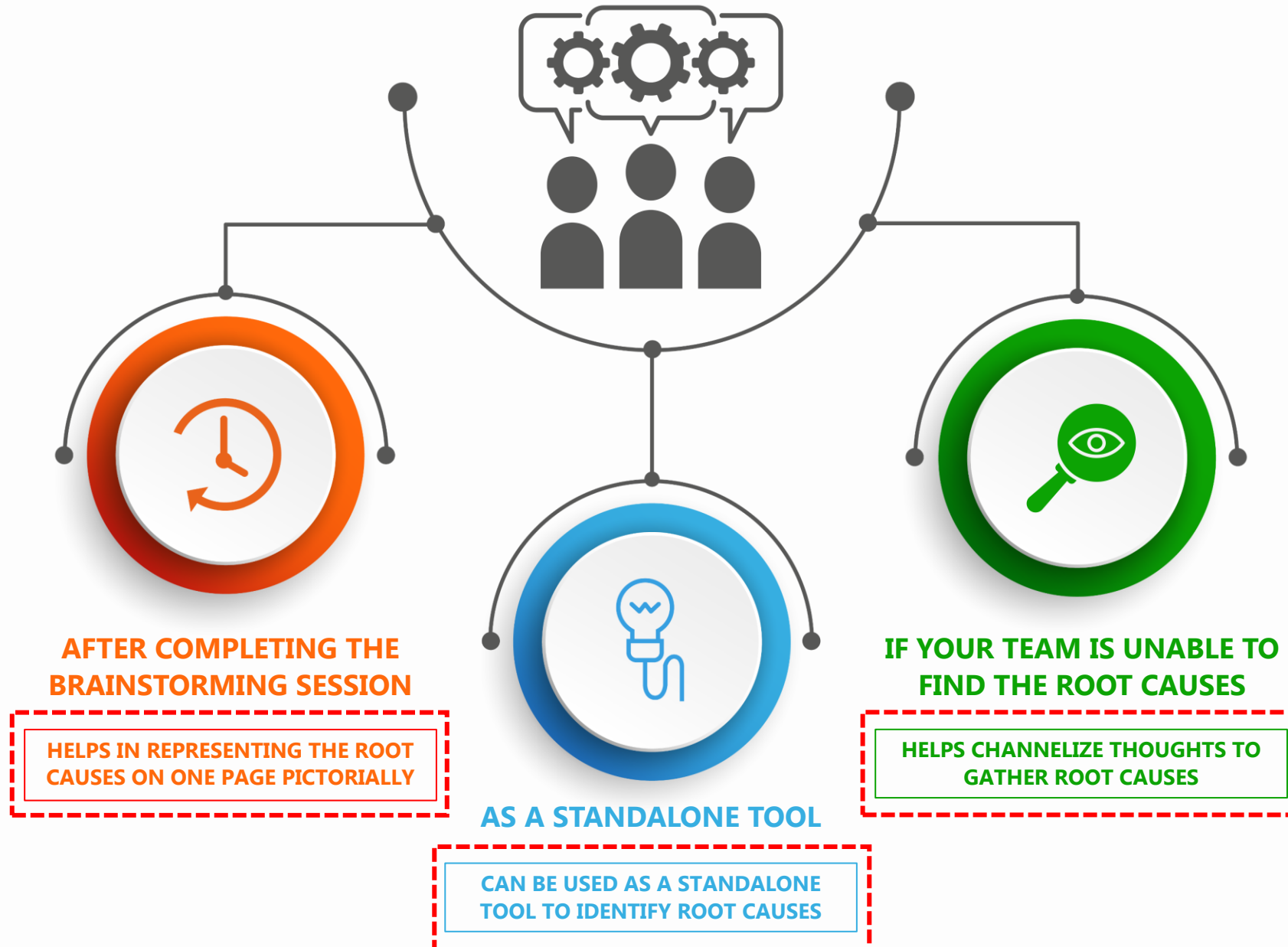
**INCLUDES MEASURING YOUR  
METRICS, KEY DELIVERABLES,  
OR OTHER MEASURING  
GAUGE-RELATED ISSUES**

**MOTHER NATURE**

**INCLUDES UNCONTROLLABLE  
EXTERNAL FACTORS**

# WHEN TO USE A FISHBONE DIAGRAM?





# ***SMART GROWTH HACKS***

A thick red horizontal bar with slightly angled ends, positioned below the main title.

**DEDICATED TO YOUR CAREER SUCCESS**