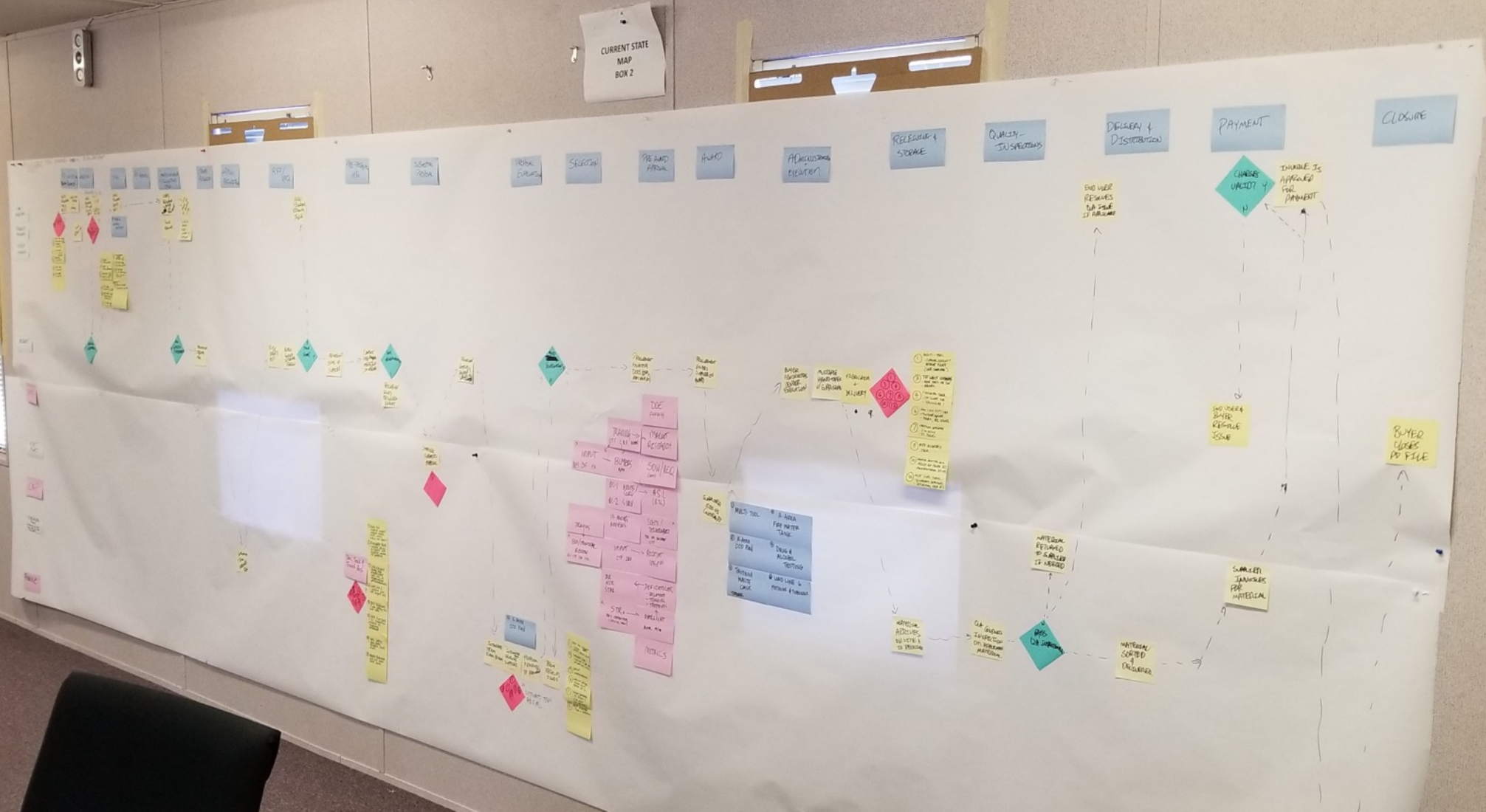


# Programmatic Issue: Proactive RCA of a Negative Trend of Procurement Program Issues at SRNS



# Programmatic Issue: Proactive RCA of a Negative Trend of Procurement Program Issues at SRNS

## Level of Effort:

- 9 days to complete the analysis
- 5 RCA team members
- 1 of the team members was a Manager from the Procurement Group (SME)
- Most comprehensive program review I have ever conducted

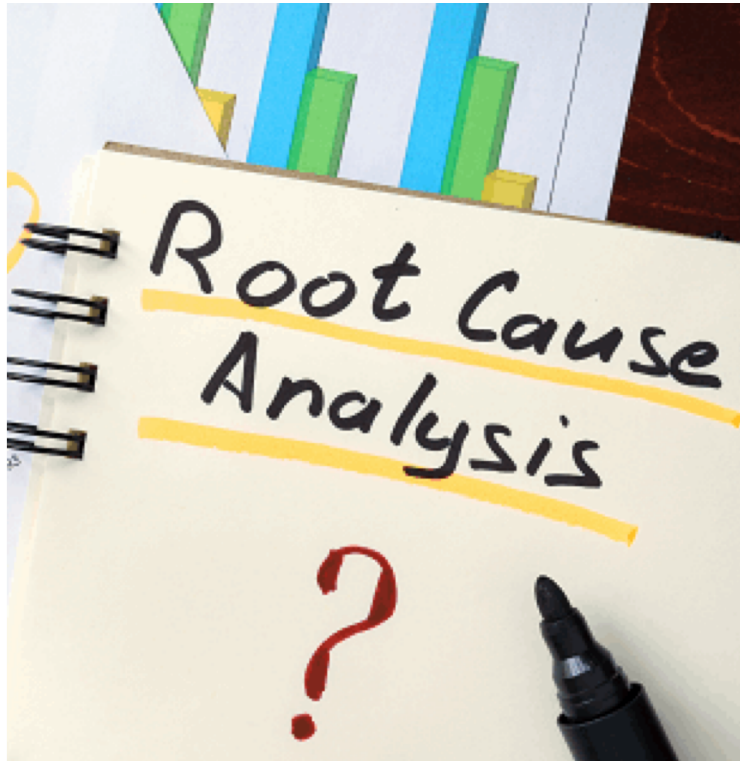




# Journey of Discovery:

Lessons Learned and  
Ways We Can Improve  
our Root Cause Analysis

# What is our role as Root Cause Analysts?



- Gather available information
- Organize the information using best available tools (data analysis)
- Analyze the information from multiple perspectives (causal analysis)
- Identify as many LATENT WEAKNESSES as possible (root causes and contributing factors)
- Recommend actions to eliminate those causes

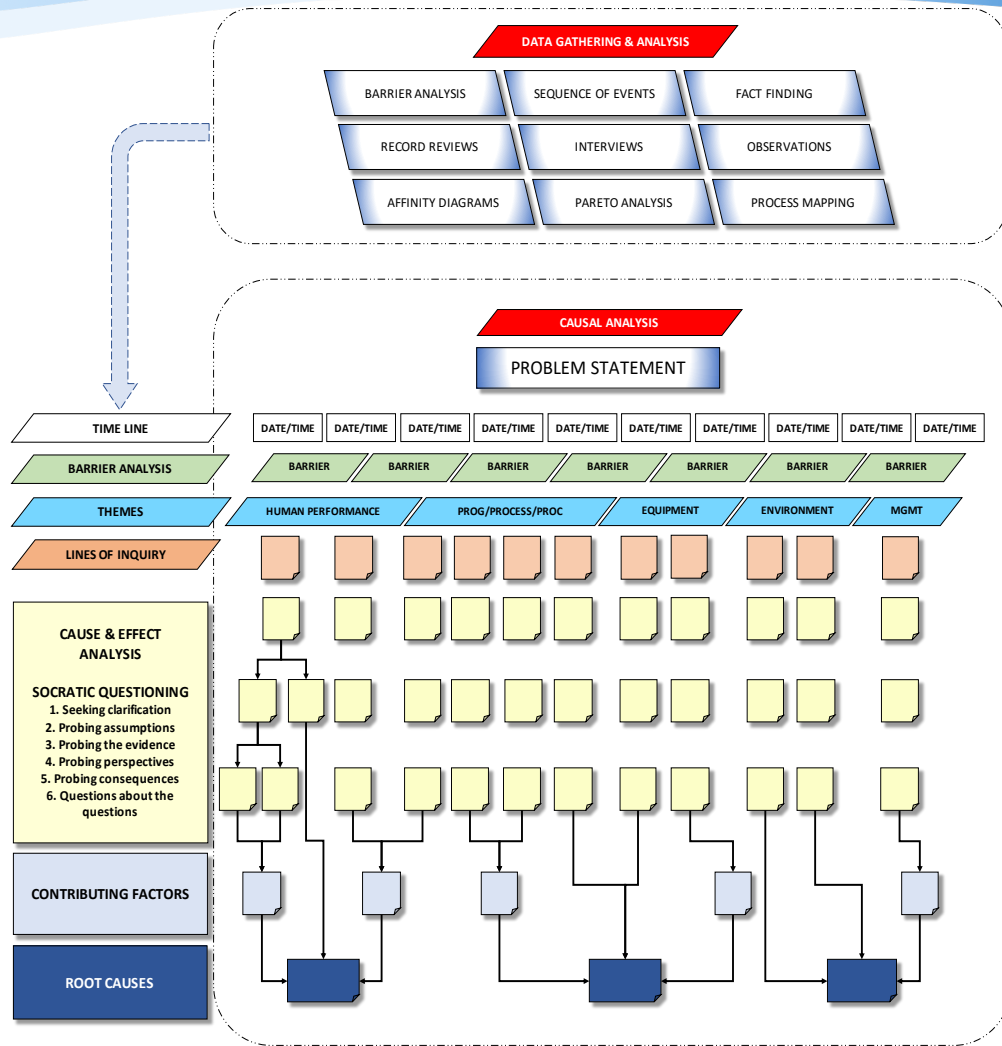


# What is our role as Root Cause Analysts?



Lesson Learned LL#1: our primary role should be to GUIDE the organization through the analysis and harness the expertise of the organization's SMEs

# The result of 3 decades of iterations is a framework for complex problem solving (i.e. RCAs and ACEs) that...



- Is built with a deep understanding of “The Anatomy of an Event”
- Uses Critical Thinking tools to develop insights and lines of inquiry
- Uses Socratic Questioning to identify root causes
- Integrates Lean and Agile techniques for max efficiency
- Is a single, scalable framework that can be used for simple or complex issues
- Is accurate and repeatable
- Can be used proactively on negative trends before they cause events



# LL#2: Understanding the anatomy of an event prompts us where we should look for latent weaknesses



# What skills do we need to identify latent weaknesses and solve recurring problems quickly and efficiently?

- Critical Thinking
- Complex Problem Solving

LL#3: with the advent of Artificial Intelligence and Machine Learning, we have gravitated towards root cause analysis software. Critical thinking and complex problem solving skills are becoming a lost art, but organizations should strive to develop these skills across the board.



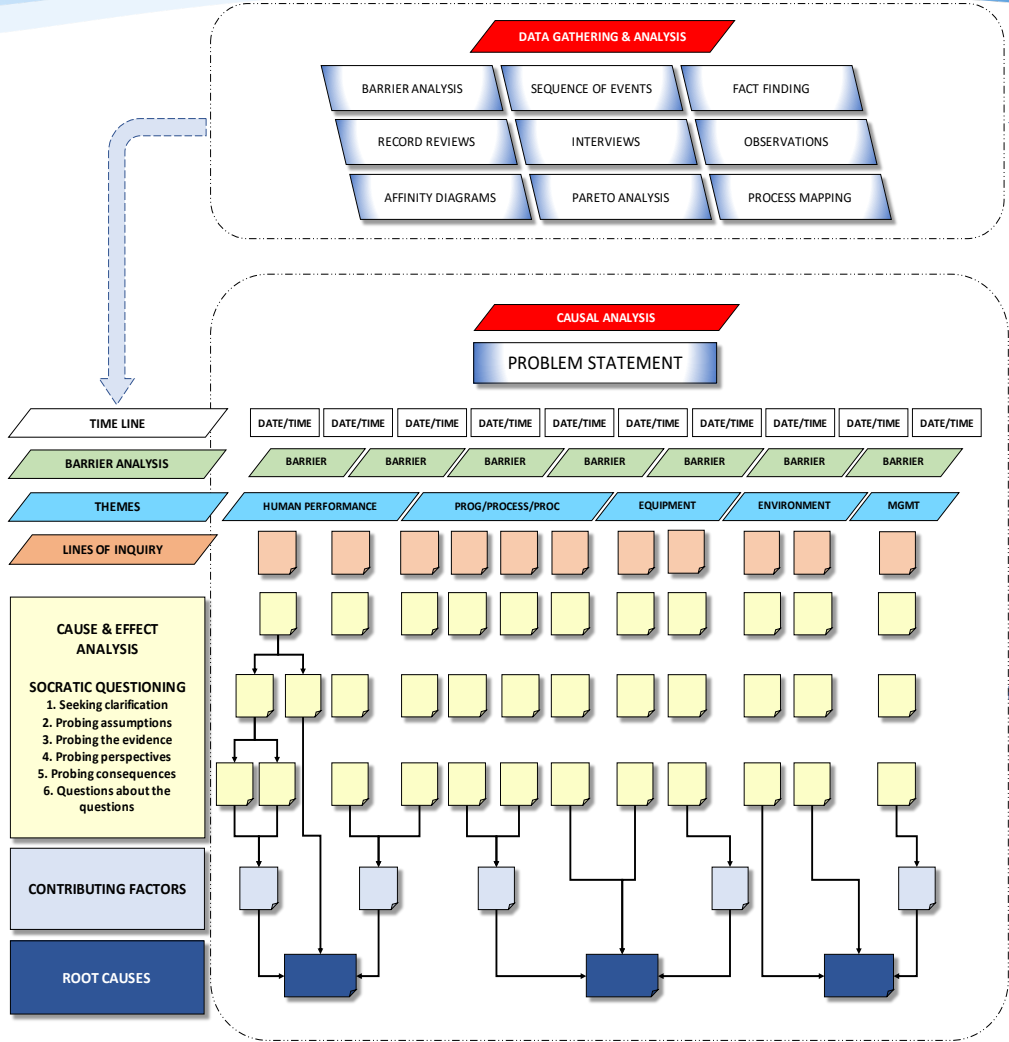
# Critical Thinking Simplified...

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LL#4: Having a disciplined and organized process for conducting causal analysis prevents us from jumping from the problem straight to solutions

1. The intellectually disciplined process of...
  - ✓ Gathering data,
  - ✓ Organizing data,
  - ✓ Analyzing data...
2. ...so we can take the best course of action

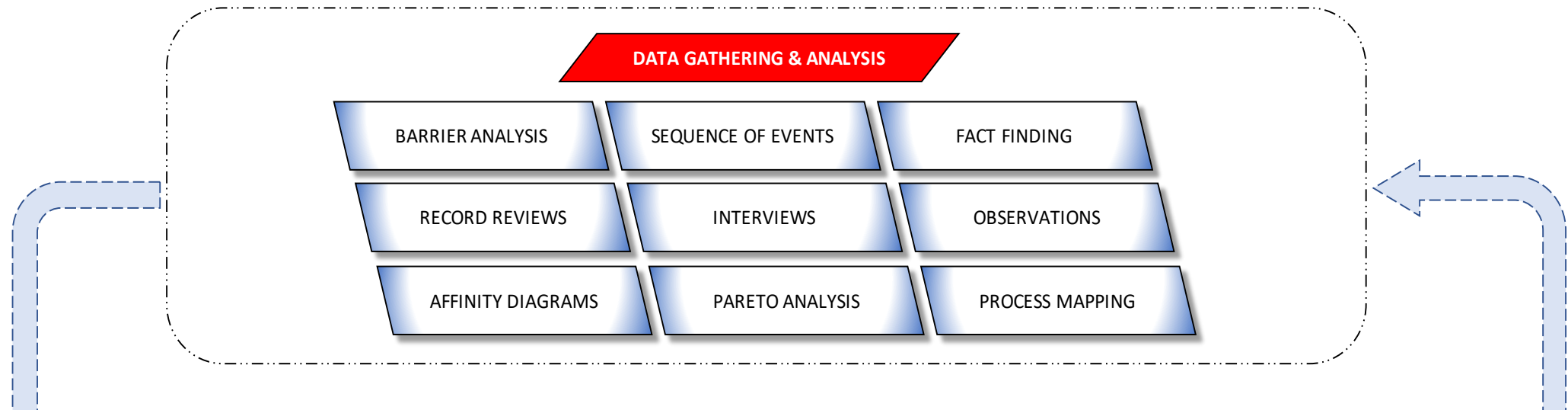
# LL#5: Integrate critical thinking tools, data analysis and other approaches that were being done separately, to gain efficiency



- Data Gathering and Analysis
- Comparative Time Line Analysis
- Task Analysis
- Change Analysis
- Barrier Analysis
- Fish Bone Themes
- Lines of Inquiry
- Cause & Effect Analysis
- Events & Causal Factors Charting
- Socratic Questioning (5-Why's)

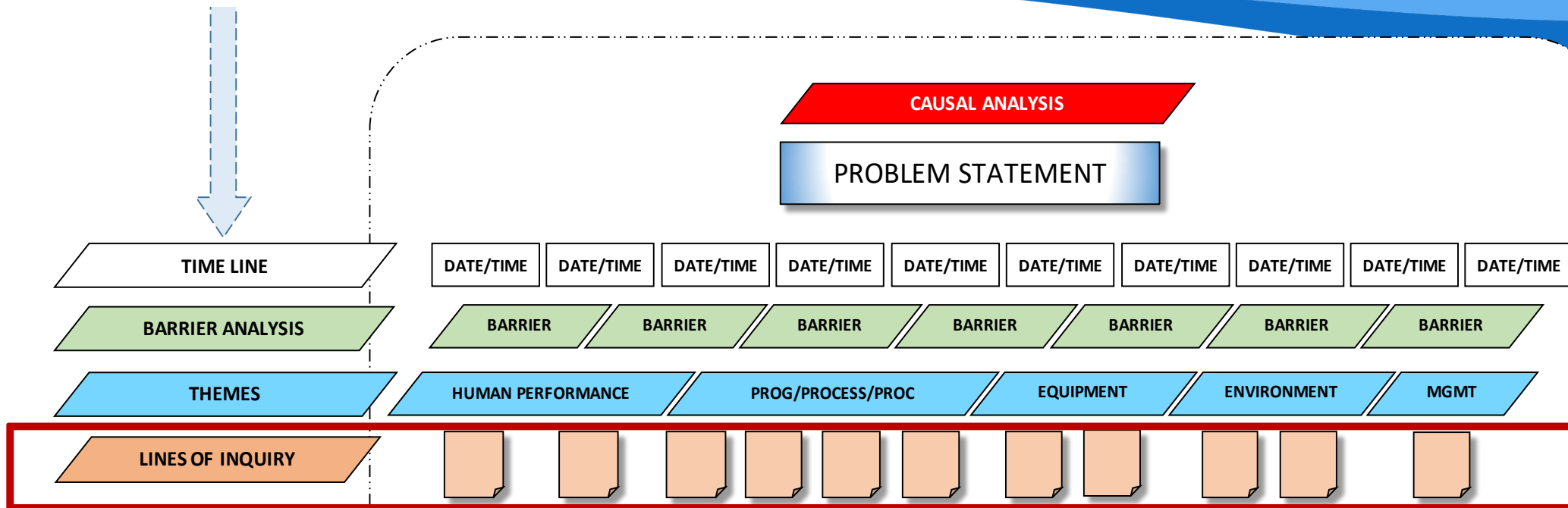


# The first phase prompts us to analyze available information and gain insights that help focus our Causal Analysis



LL#6: Data Analysis is separate from Causal Analysis.  
The results from the Data Analysis are used to develop Lines of Inquiry for the subsequent Causal Analysis

# The second phase uses all available information to generate lines of inquiry and conduct the Causal Analysis



LL#7: “The RCA’s outcome hinges on how well we develop our Lines of Inquiry”

Once we have developed a great set of lines of inquiry,  
the causal analysis proceeds quickly

# Lines of Inquiry

"If I had an hour to solve a problem and my life depended on the solution, I would spend the first 55 minutes determining the proper question to ask, for once I know the proper question, I could solve the problem in less than 5 minutes."

- Albert Einstein

