



Michigan Safety Conference

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CAN AI DO MY RCA?

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ROOT CAUSE ANALYSIS

**ROOT CAUSE ANALYSIS METHODS,
SOFTWARE AND EXPERTISE TO HELP
ORGANIZATIONS SOLVE PROBLEMS.**



RCA AND AI - OVERVIEW

- What can AI do now relative to RCA?
- Recommendations for getting the most out of AI

WHAT CAN AI DO NOW WITH RCA?

Analyze mountains of information to:

- Spot trends/patterns
- Generate summary narratives
- Suggest causes based on context
- Proposes Solutions

IT CAN SAVE YOU TIME!



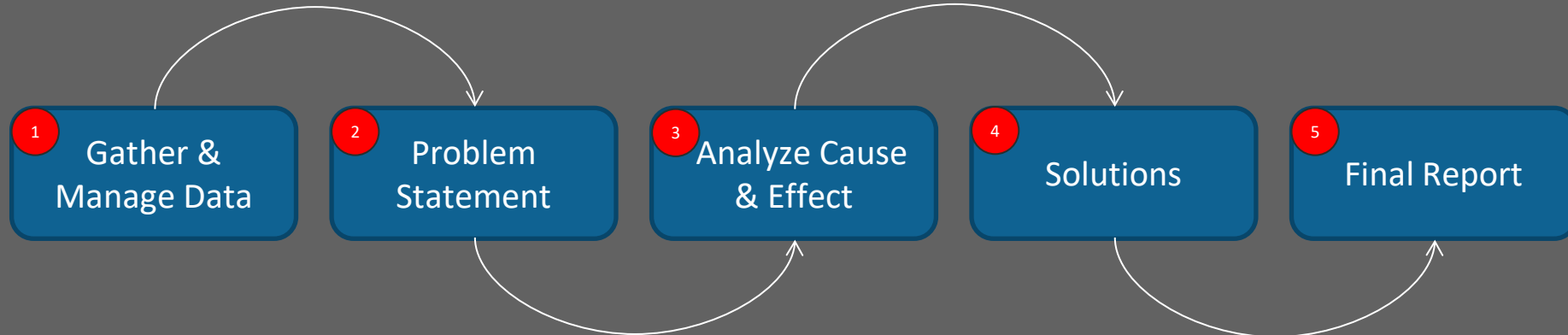
If excavating for a new pool.....

Both get the job done, but AI is like using a backhoe



THE RCA PROCESS-5 STEPS

1. Gather and Manage Data
2. Create the Problem Statement
3. Analyze Cause and Effect
4. Generate Solutions
5. Produce the Final Report



SOME THINGS TO THINK ABOUT.....

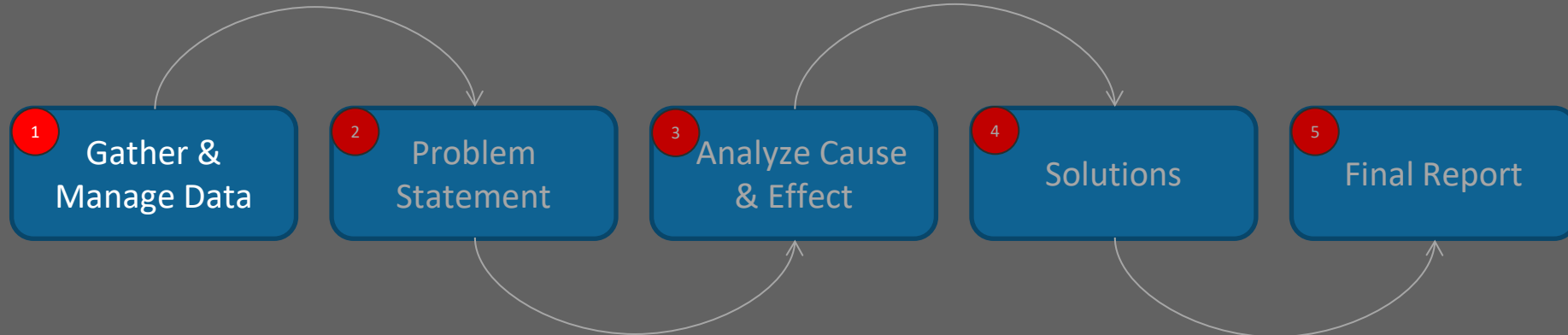
KNOW WHERE YOUR FOOD COMES FROM



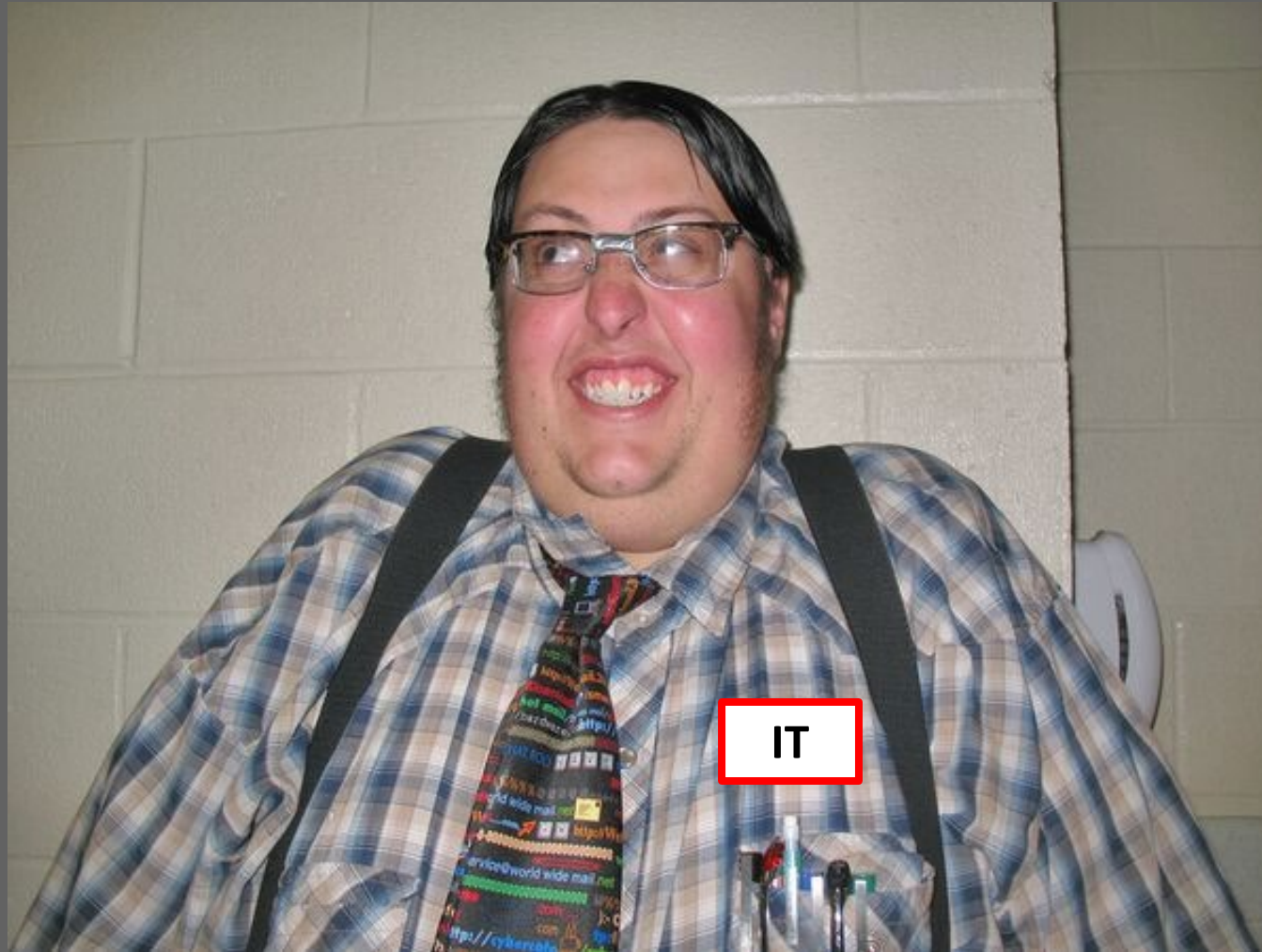
The same goes for the data AI accesses

THE RCA PROCESS-5 STEPS

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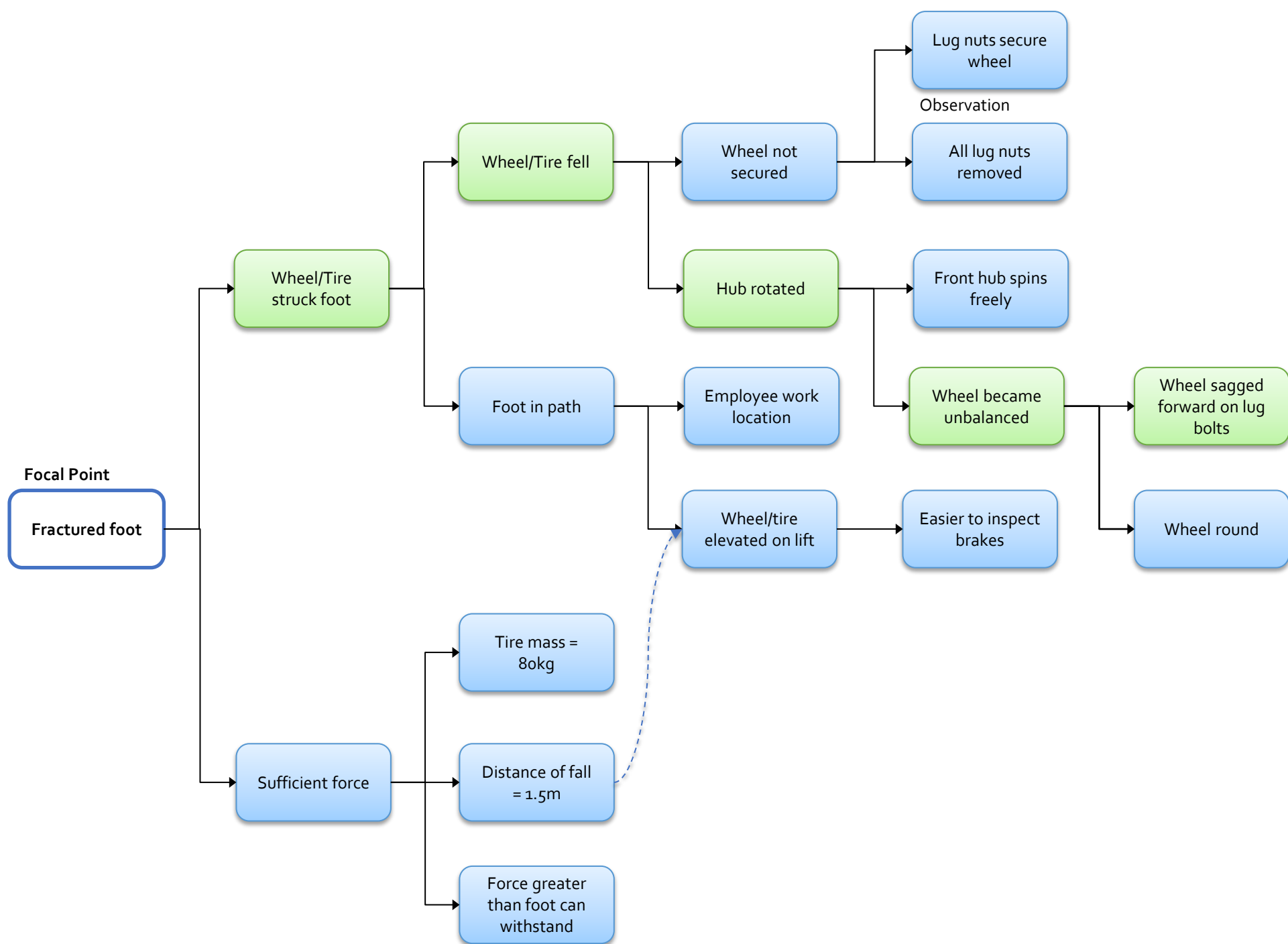
RCA QUALITY \approx DATA QUALITY, AND
QUANTITY



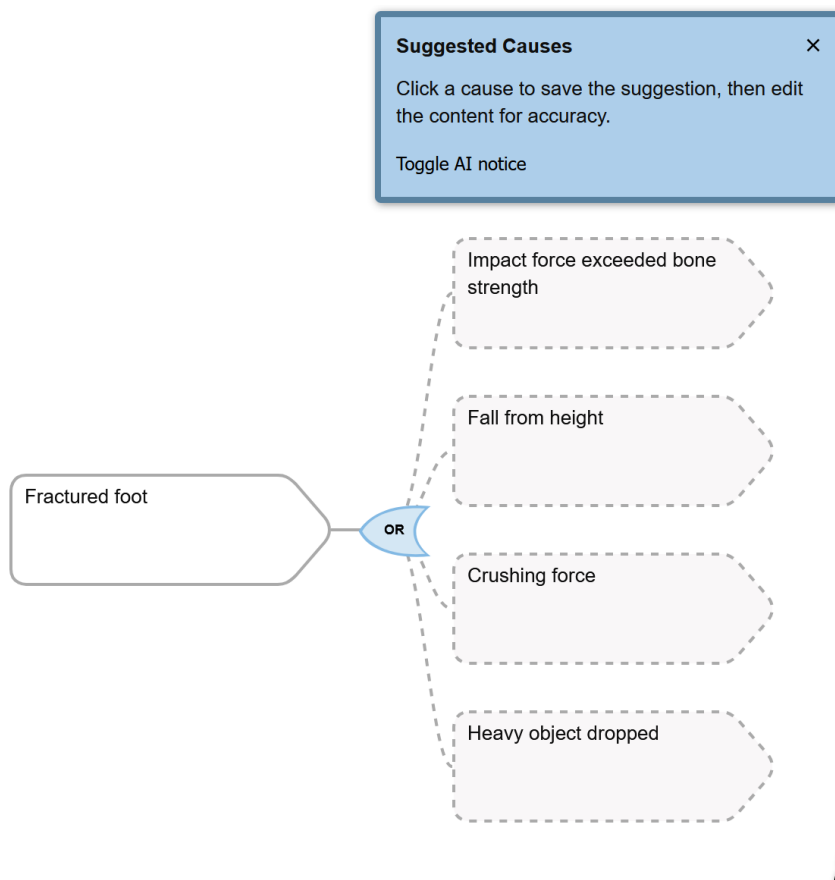
Before plugging incident data into ChatGPT, buy this guy a Red Bull and ask him about it.

CHATGPT (ET AL) PULLS FROM PUBLIC DATA

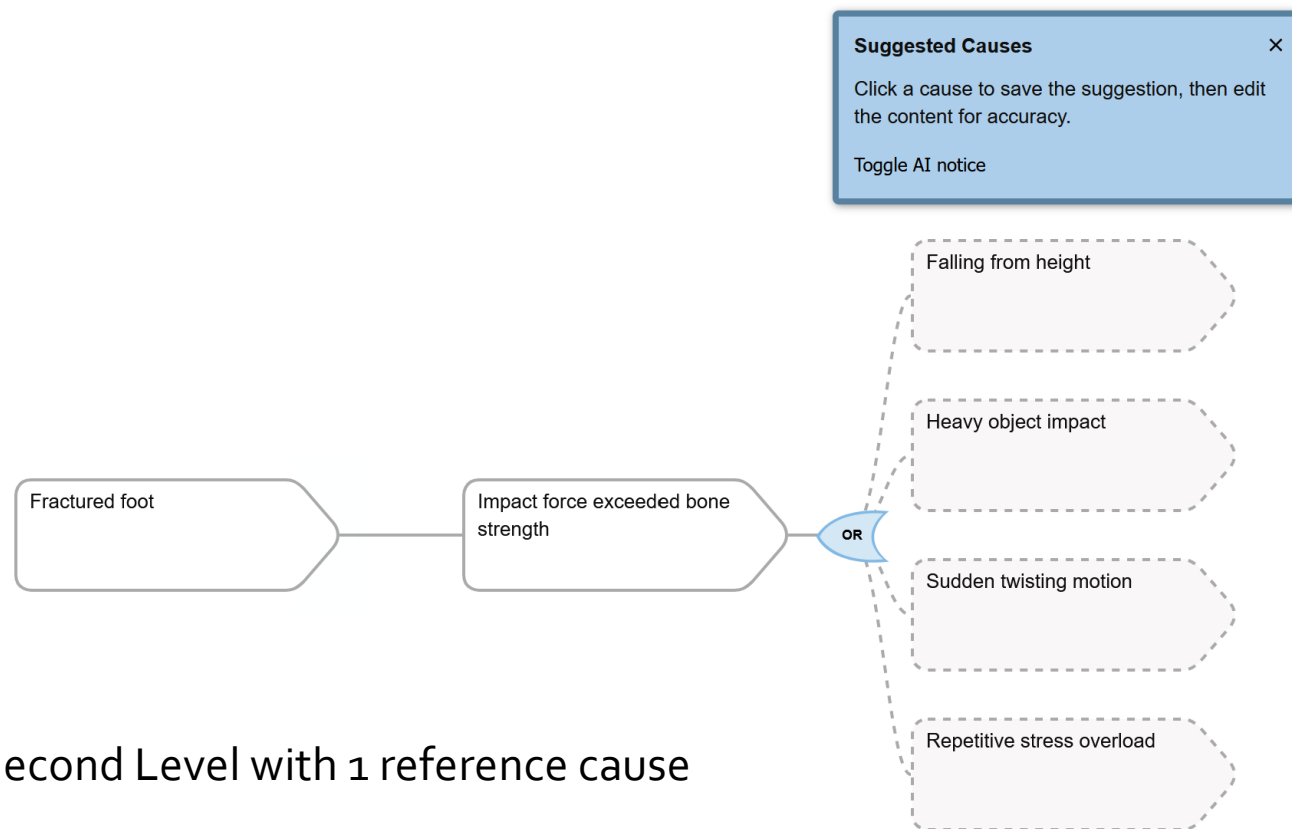
WHAT HAPPENS TO YOUR DATA
WHEN YOU PLUG IT IN??



LETS SEE HOW AI DOES WITHIN CAUSELINK
FOR BUILDING CAUSE AND EFFECT CHARTS



First Level with no context

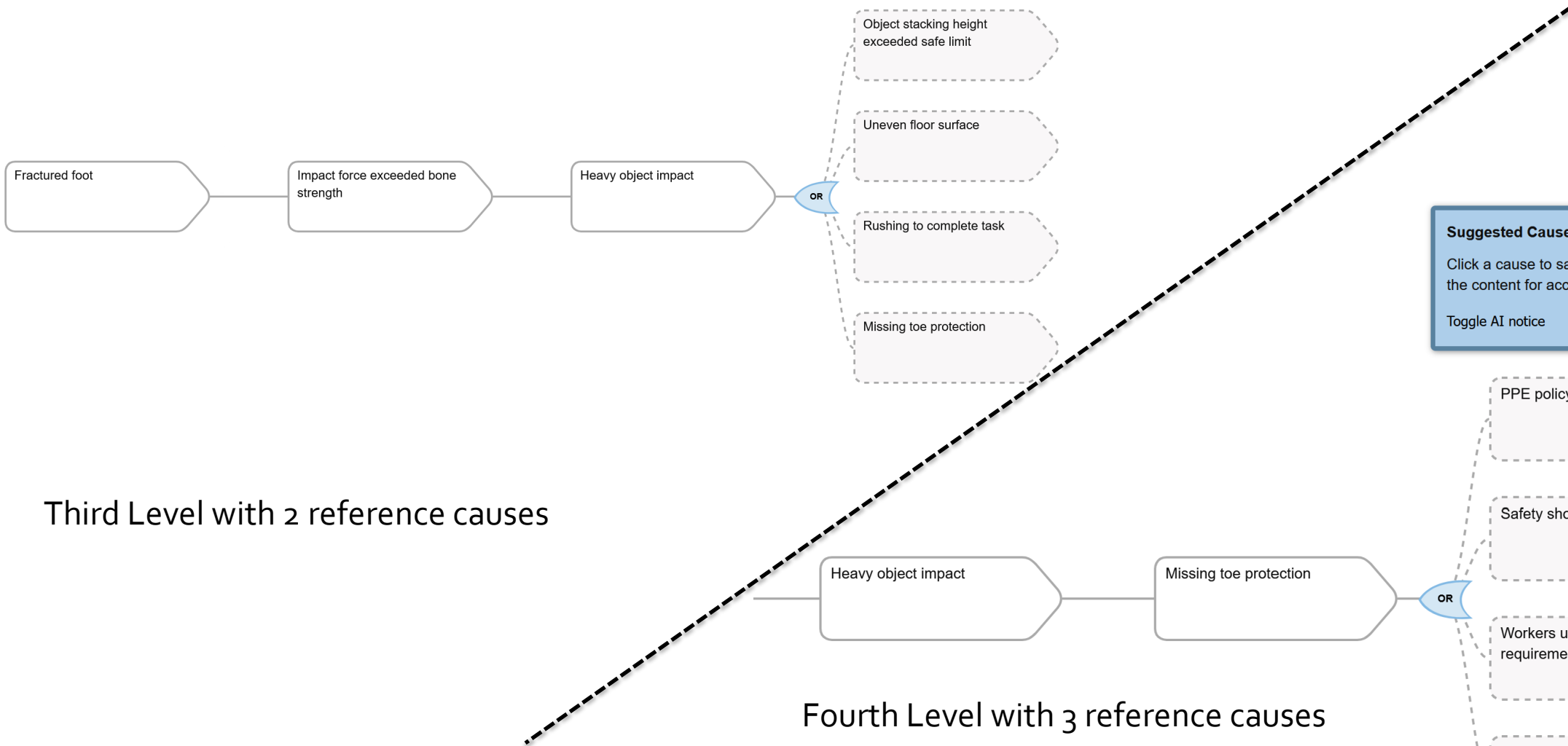


Second Level with 1 reference cause

Suggested Causes ×

Click a cause to save the suggestion, then edit the content for accuracy.

Toggle AI notice



Suggested Causes ×

Click a cause to save the suggestion, then edit the content for accuracy.

Toggle AI notice

Third Level with 2 reference causes

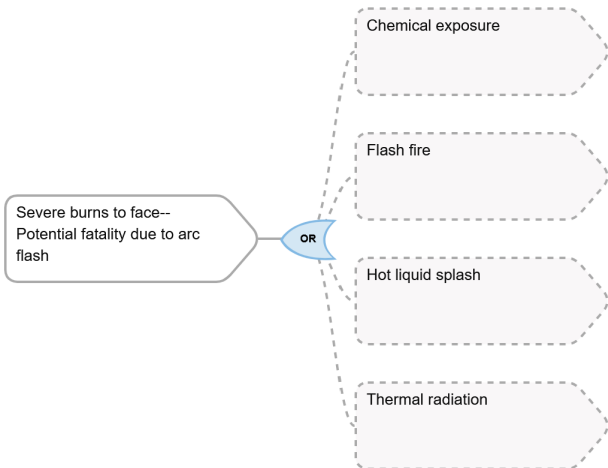
Fourth Level with 3 reference causes

Lets look at a different problem....

Suggested Causes ×

Click a cause to save the suggestion, then edit the content for accuracy.

Toggle AI notice

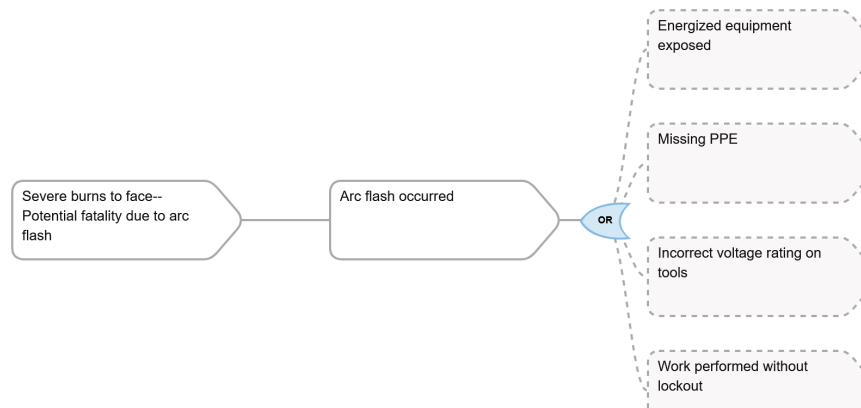


First level

Suggested Causes ×

Click a cause to save the suggestion, then edit the content for accuracy.

Toggle AI notice

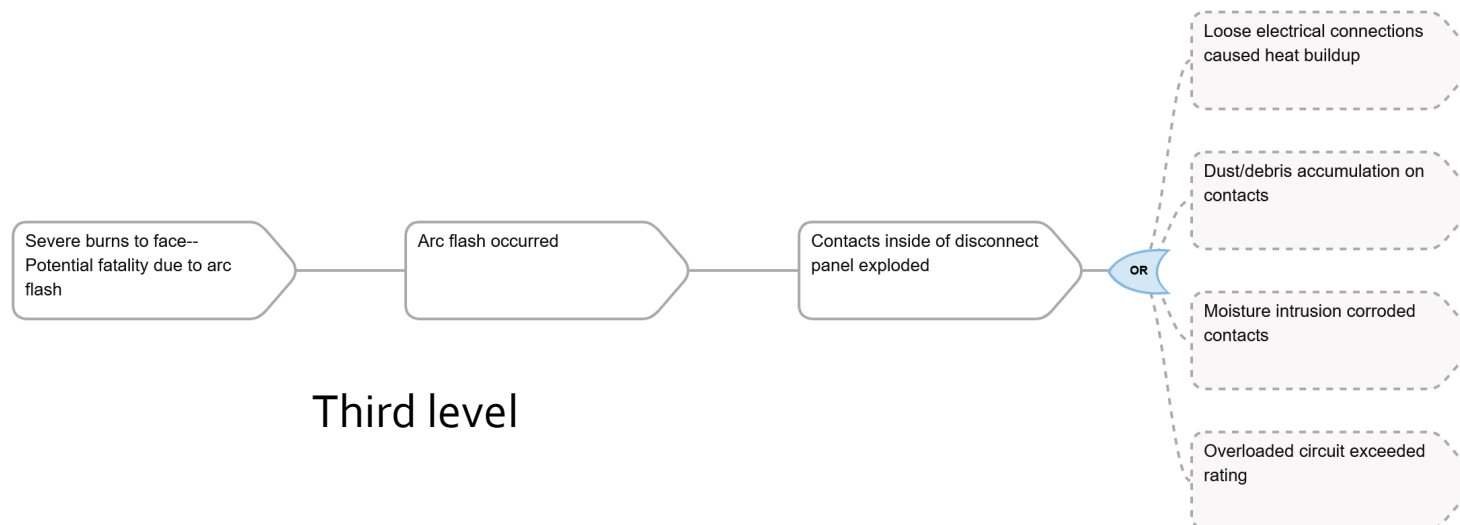


Second level

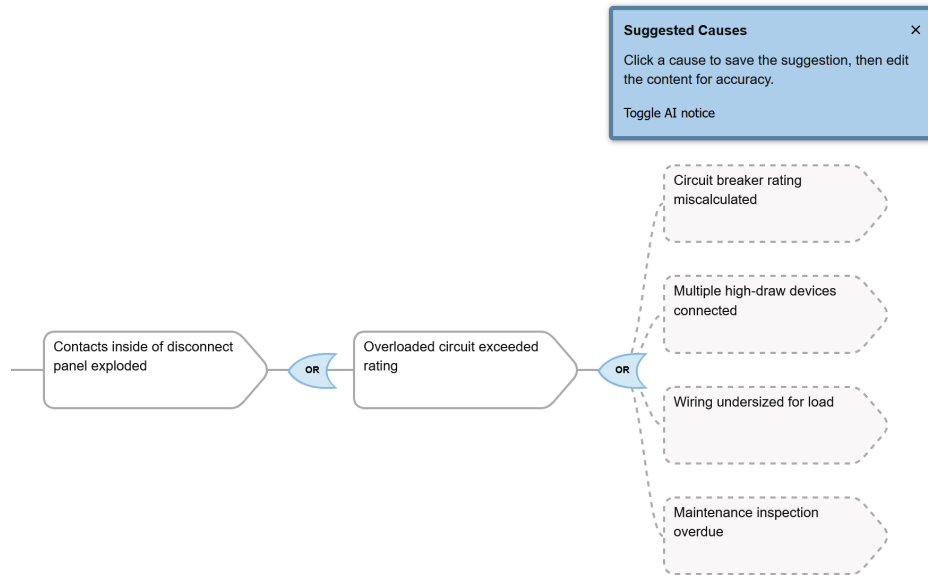
Suggested Causes ×

Click a cause to save the suggestion, then edit the content for accuracy.

Toggle AI notice

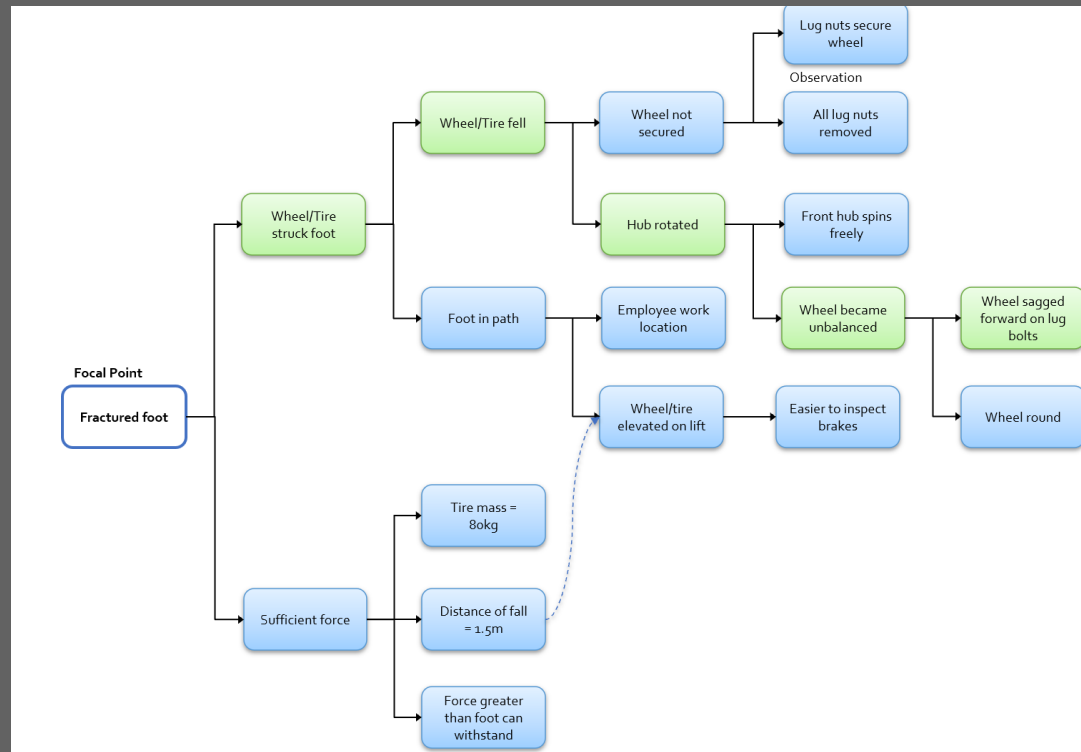


Third level



Fourth level

AI-GENERATED SOLUTIONS



AI can read your C/E chart
and suggest solutions

Lets take a look.....

AI IS MAKING RAPID PROGRESS



Now assist with building cause and effect charts



At the start of the chart, AI lacks context, so you need to guide it.



Suggest adding 2 to 3 levels of causes before asking AI to contribute—point it in the right direction

GETTING THE MOST OUT OF AI

View it as another team member---not Einstein

Best results obtained when you:

- Ask it to drill deeper for causes, one step at a time
- First create the cause and effect chart before asking AI for solutions and report narrative

IN CONCLUSION; CAN AI DO RCA?

Its not quite there, and may never be completely

But, already today:

- Improves RCA quality by pointing out things that may have been missed
- Reduces time to complete the RCA

PARTING THOUGHTS.....

- Do not outsource Core Thinking to AI

"It is more important to know the right question than the right answer"

Leonardo da Vinci

So, do not stop asking questions.....

Want to try AI on one of your problems?

Free 14 day trial: www.Sologic.com

Navigate to 'Software', 'Causelink Individual'

- RCA Method (incl. Causelink)

Great Lakes Safety Training Center (Midland)

April 22/23 RCA Specialist (Facilitator)

April 24/25(am) RCA Master (Advanced)

QUESTIONS?



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