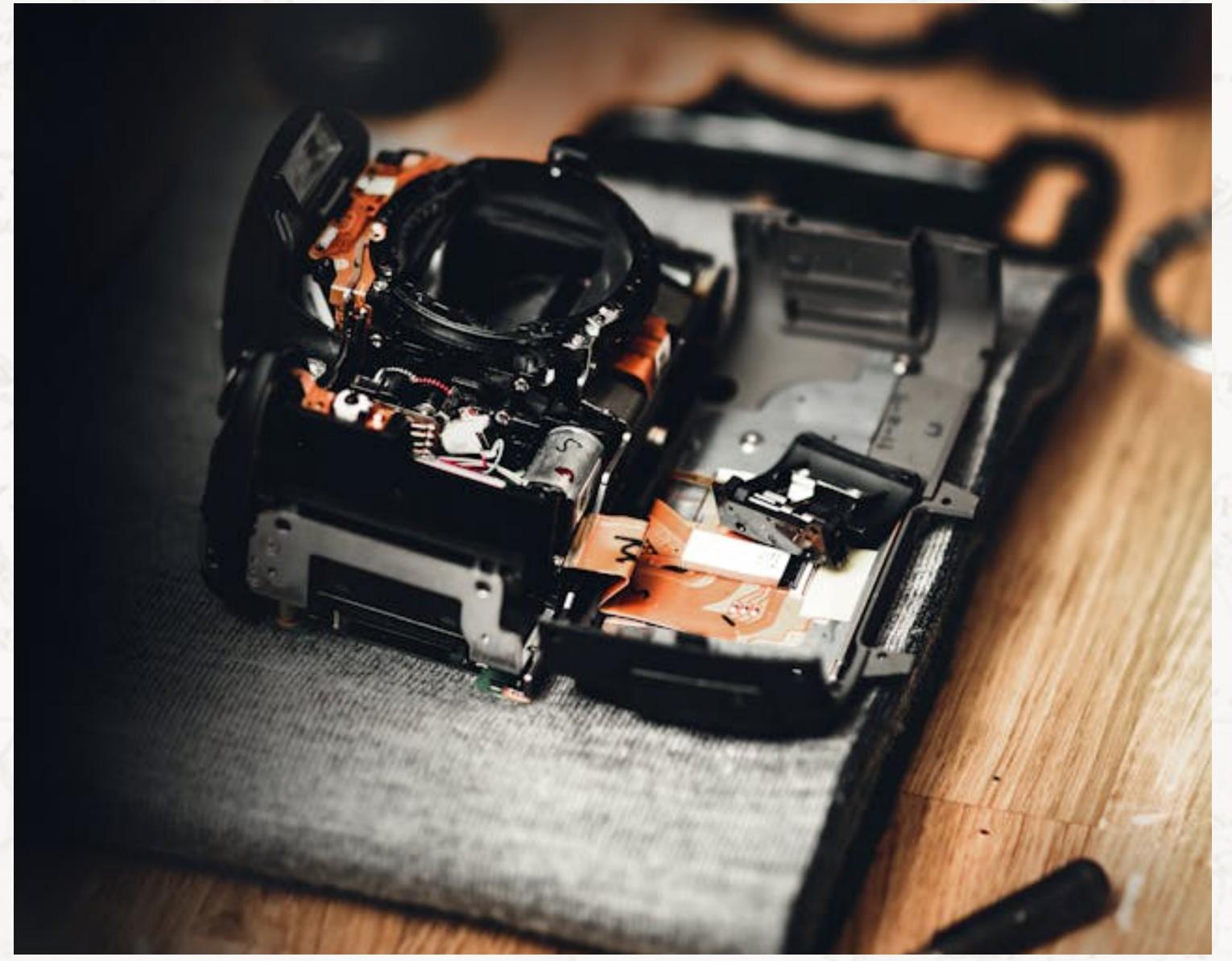
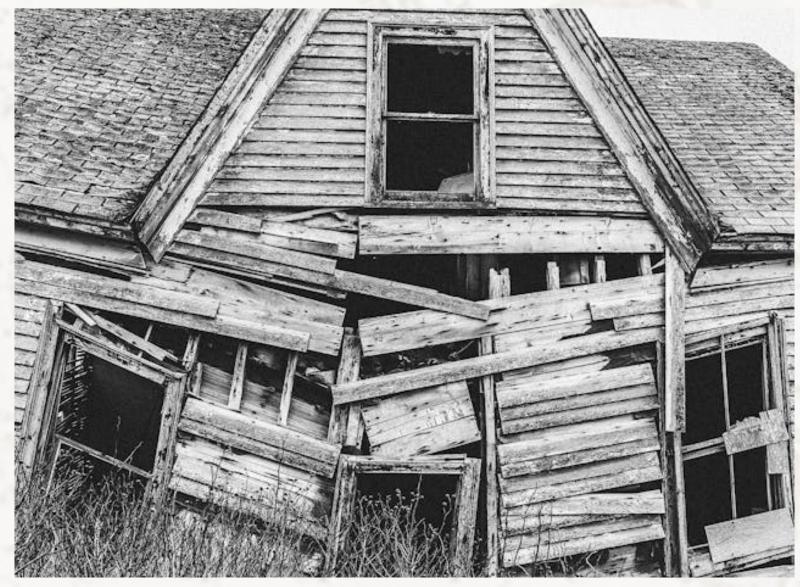


# What is the first thing to do when a failure is discovered?

#### 8D process







# Form a Team and Describe the problem 8D process

Not every problem needs this process

D1: Form a team

consider members with product, process, and data

D2: Describe the Problem

what do we know and do not know using inductive and deductive tools



# D3: Interim Containment 8D process

Is this a one-off (probably not)

Batch, vendor, production line?

everything?

Stop the line, stop shipping

Alert customers? (safety)



#### D4: RCA and Escape Point 8D process

Can the root cause be turned on/off

A mix of brainstorming, experimentation, observations, and lots of thinking

Non destructive and destructive tools

DO NOT SEND TO THE VENDOR!



# What is you experience

# sending failures to the vendor?

#### 8D continued







#### D5: Permanent Corrective Action

#### 8D continued

This step may iterate with verification to find viable solutions

It's a trade-off decision

Make changes

- solve the root cause
- monitor escape point

this might be a people process problem



## D6: Implement and Validate 8D continued

This might take planning to roll in the solution

Check everything that has changed

Check what the changes could impact (unintended consequences)

This is where too many teams stop



#### D7: Prevent Recurrence

8D continued

Make the changes systemic

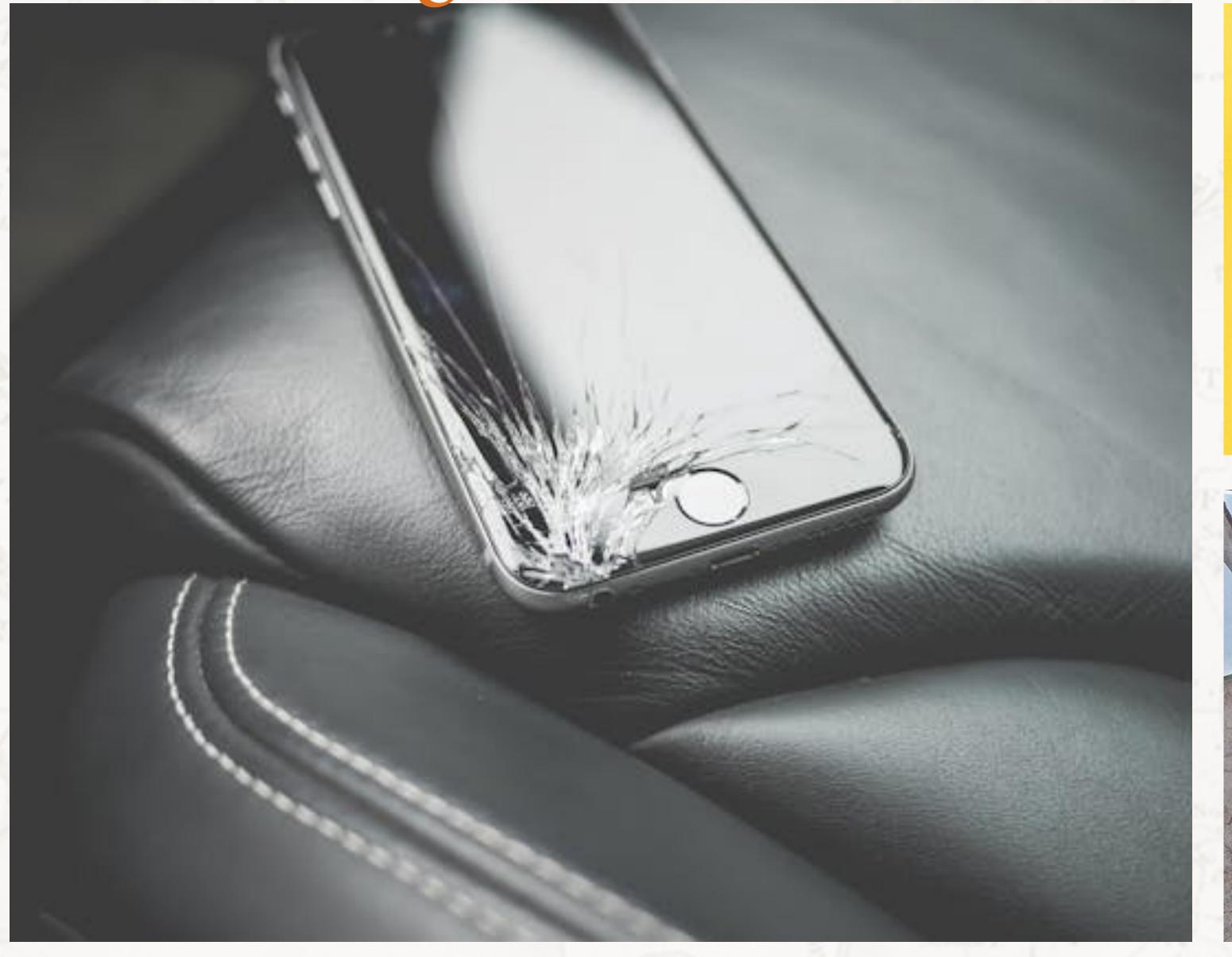
- review similar products/ processes
- educate other on findings/ results
- -update documentation

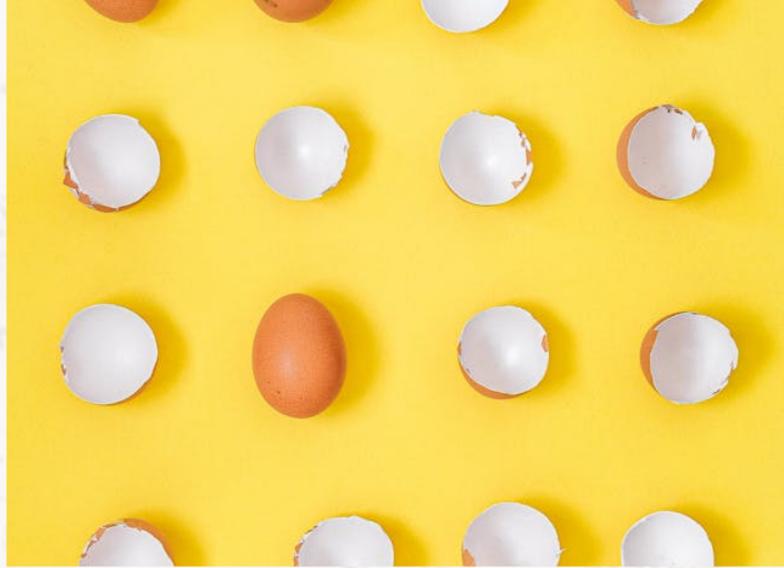


## D8: Closure and

## team celebration

Some Thoughts







# Urgency and Time Some Thoughts

The 'jump to solution' issue

All hands on deck issue

Management pressure issue



# Root Cause Analysis Some Thoughts

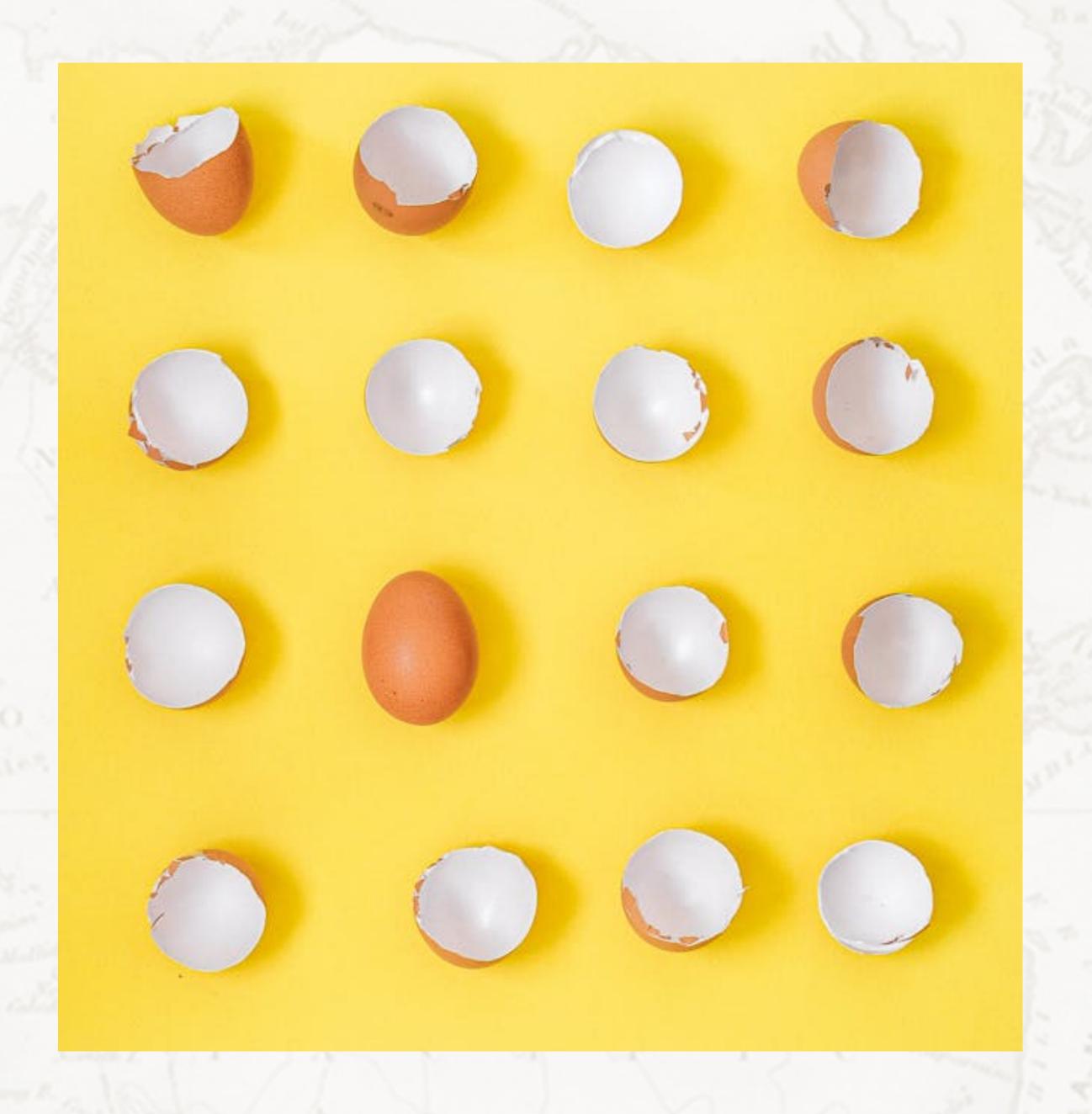
Crime scene approach

collect data and information

do not needlessly destroy evidence

Remember, the part that failed may be a victim or hero not the cause

Work with a FA lab, not the vendor



# Getting the Full Benefit Some Thoughts

Spend the time to understand the problem and root causes fully

Verify, Verify, Verify

Follow up with the systemic changes to documents, processes, etc

Update the useful lessons learned system



# Are you benefiting from

# proper failure analysis?

# Additional Comments and Questions

# Thanks

see more at AccendoReliability.com