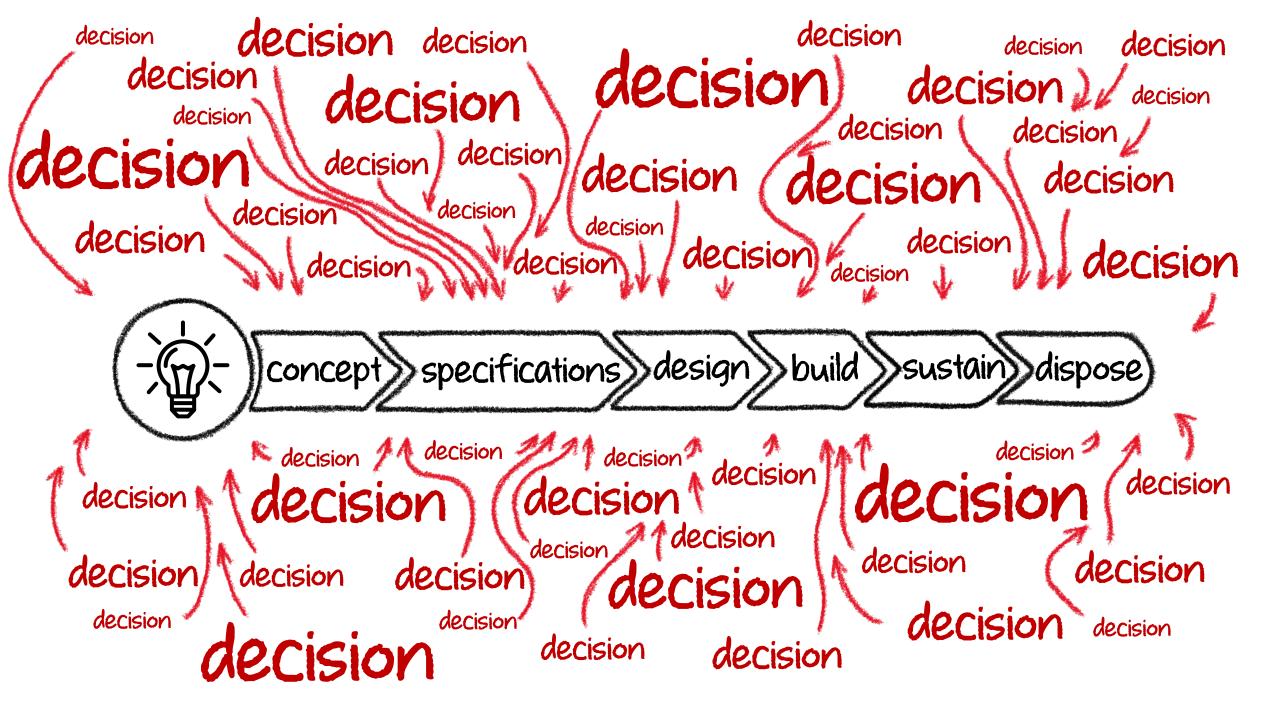
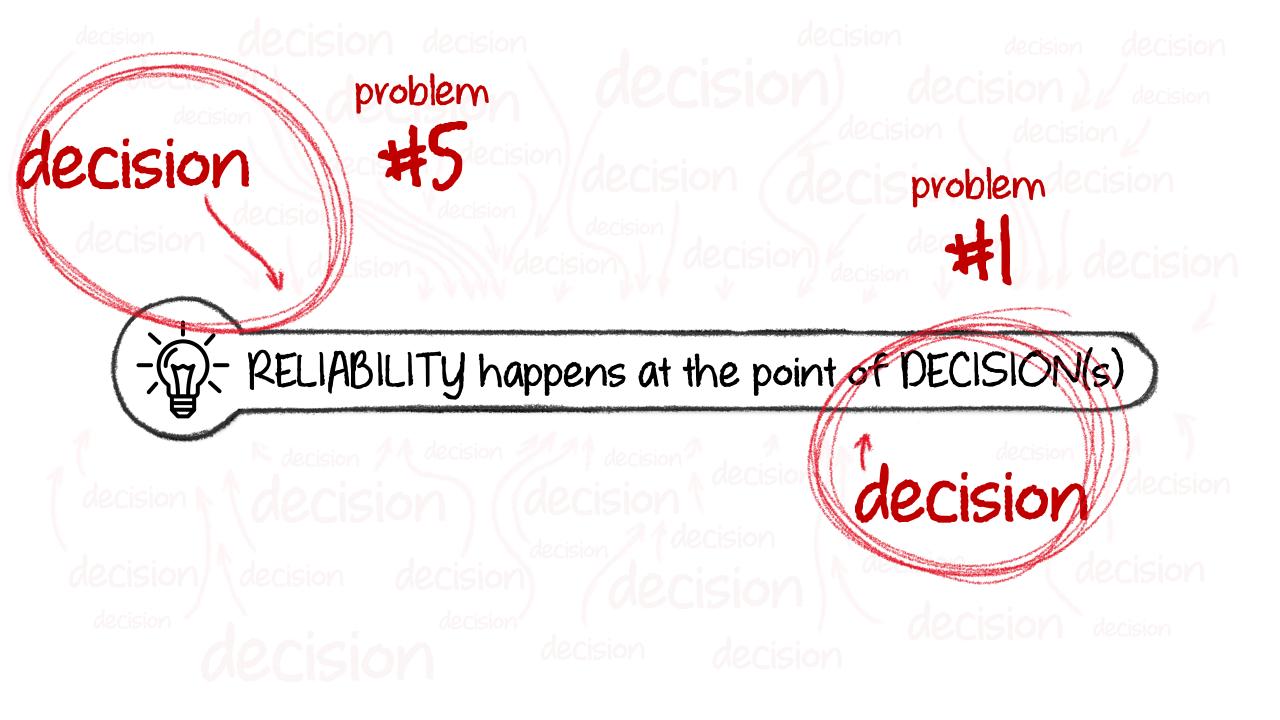
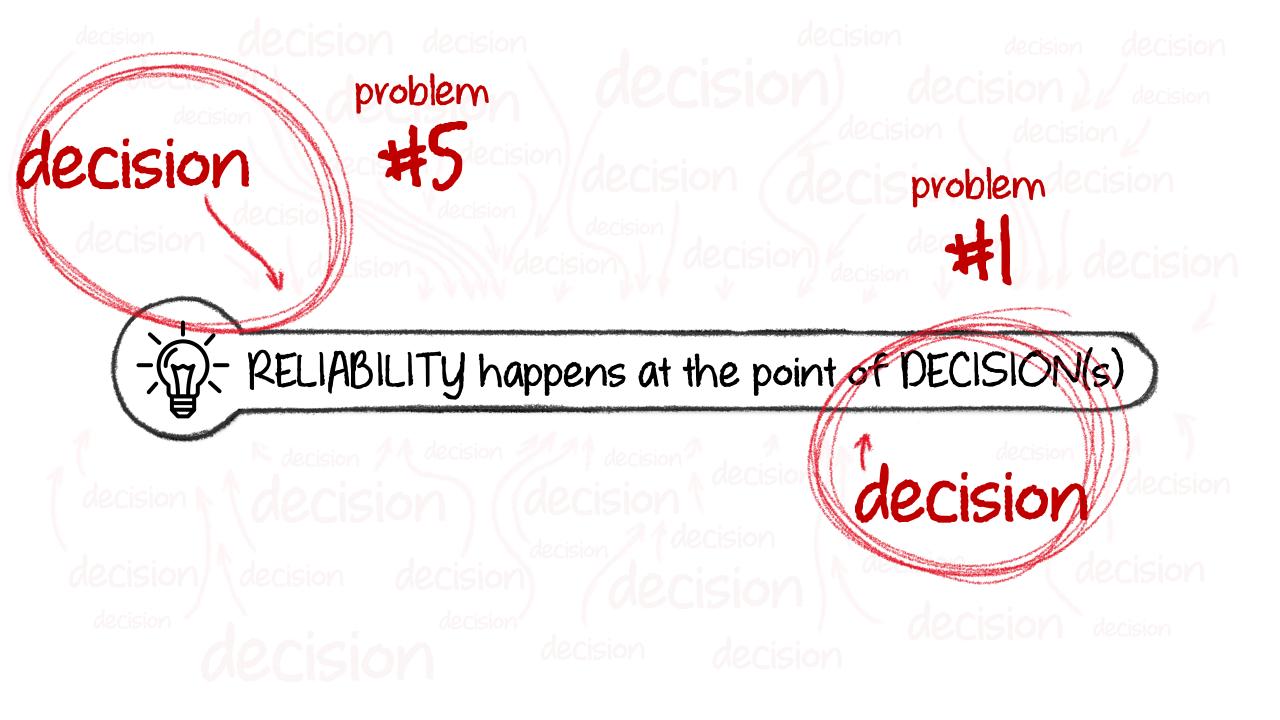
how to make a DECISION

... reliability happens at the points of DECISION







- I. What are the GOALS I NEED TO GIVE?
- . What do I need to CHANGE ON MY DESIGN?
- 3. What are the DOMINANT FAILURE MECHANISMS?
 - 4. Can I PROCEED TO THE NEXT STEP?
 - 5. WHAT WILL I DO to help my team?
 - 6. What TESTS AND TOLERANCES do I need?
 - 7. What part of our BUSINESS CASE needs to change?
 - 8. What MANUFACTURING OR PRODUCTION

activities and parameters need to change?

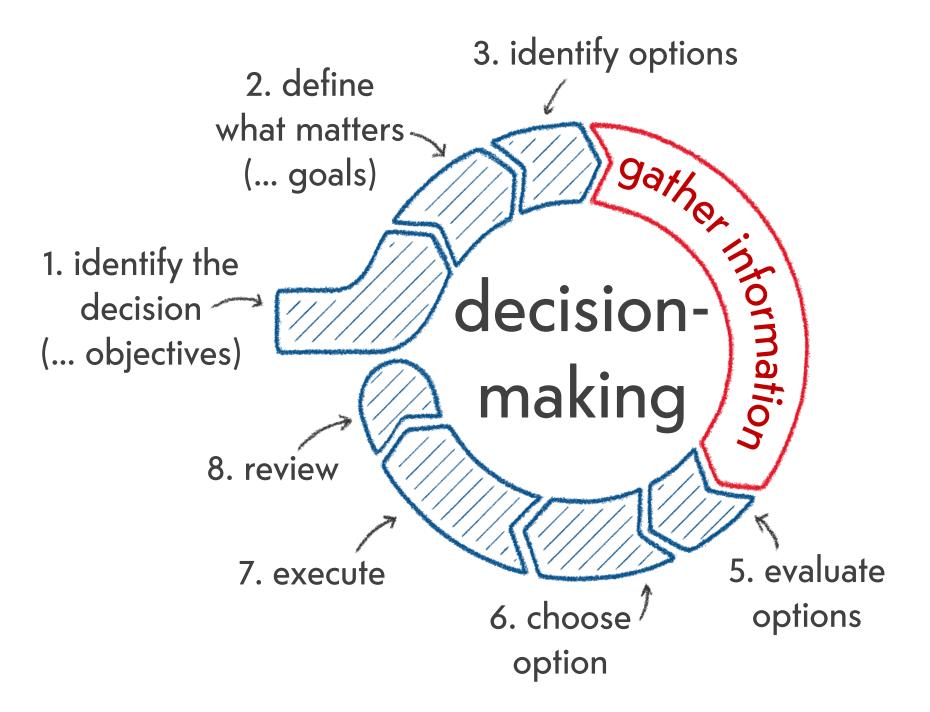
- 9. What CONTINGENCIES do I need to change?
- 10. What SUSTAINMENT AND MAINTENANCE ACTIVITIES and

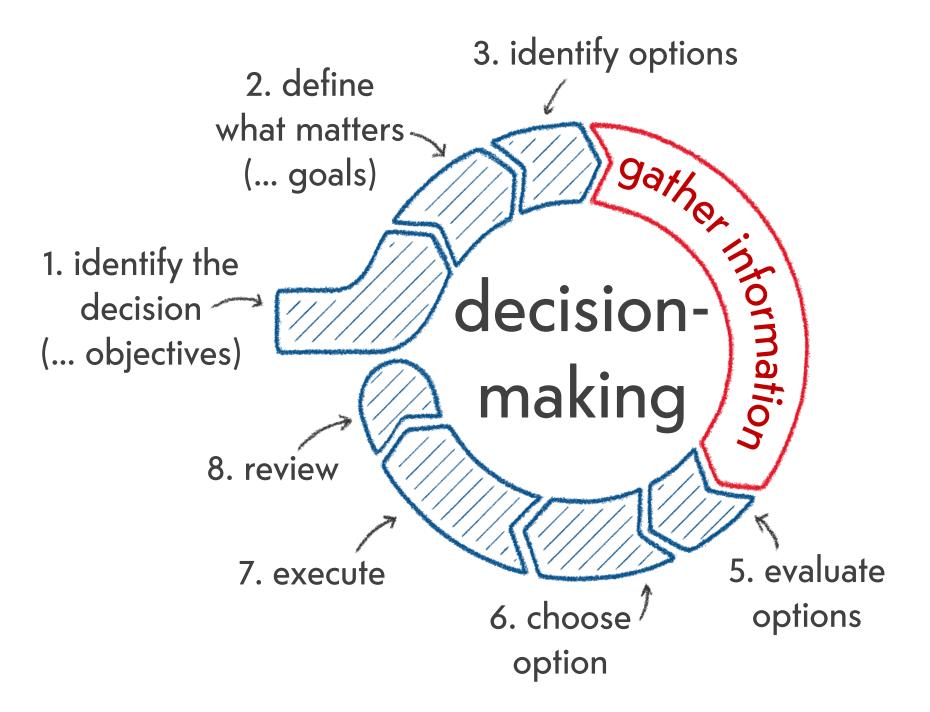
schedules should we change?

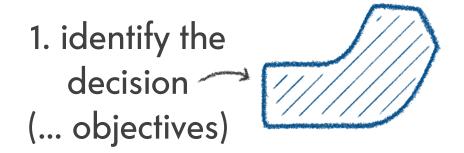
- II. What do we need to do NEXT TIME?
- X. And no doubt PLENTY OTHERS ...

... so what if you feel OVERWHELMED?

... break your decision down







do we need to DO SOMETHING because we are not getting the results we want?

1. identify the decision (... objectives)

do we need to DO SOMETHING

because we are not getting the results we want?

do we need to IMPROVE reliability?



do we need to MEASURE reliability?



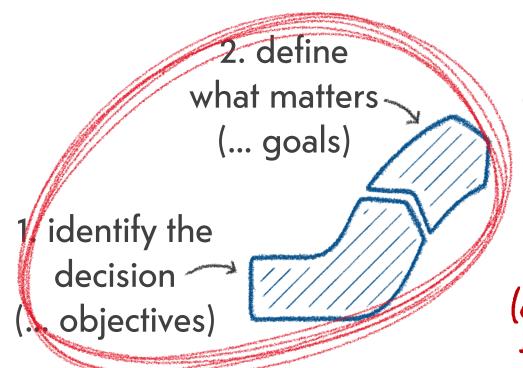
what if our customers are unhappy with reliability?



- I. What are the GOALS I NEED TO GIVE?

 2. What do I need to CHANGE ON MY DESIGN?
- 3. What are the DOMINANT FAILURE MECHANISMS?
 - 4. Can I PROCEED TO THE NEXT STEP?
 - 5. WHAT WILL I DO to help my team?
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 - 9. What CONTINGENCIES do I need to change?
 - 10. What SUSTAINMENT AND MAINTENANCE
 - ACTIVITIES and schedules should we change?
 - II. What do we need to do NEXT TIME?
 - X. And no doubt PLENTY OTHERS ...

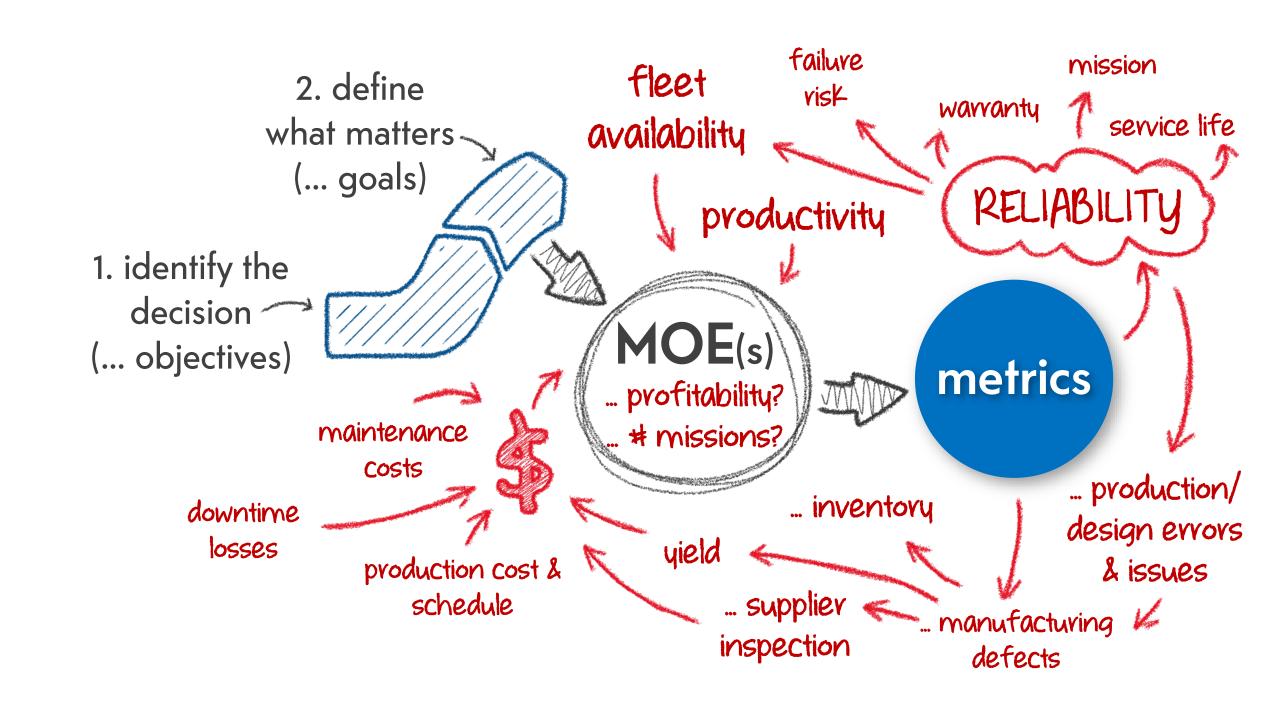


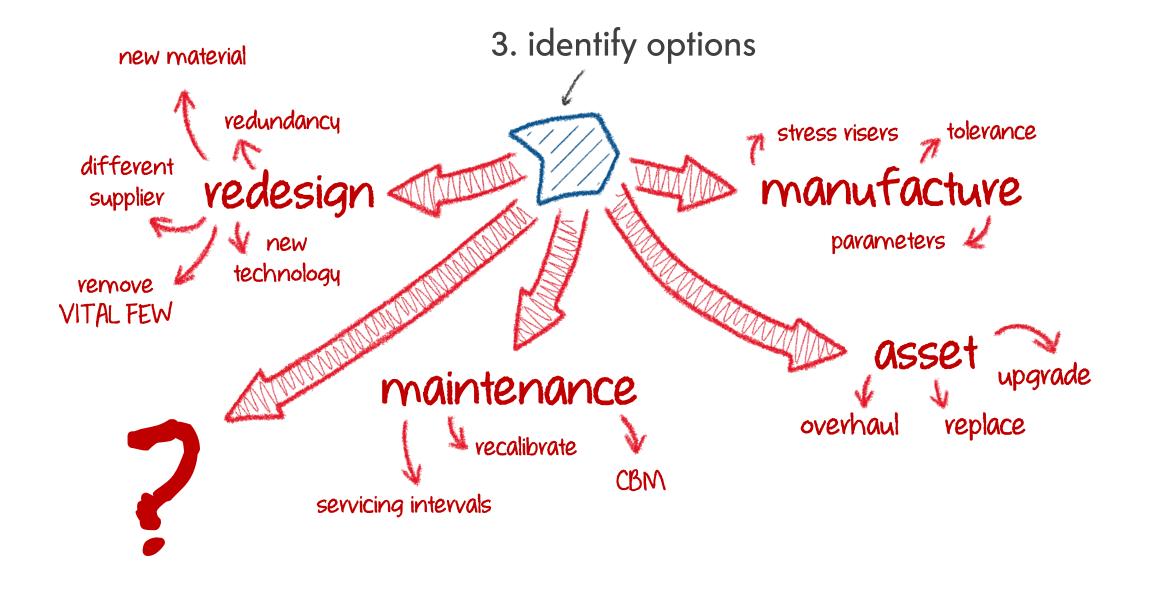


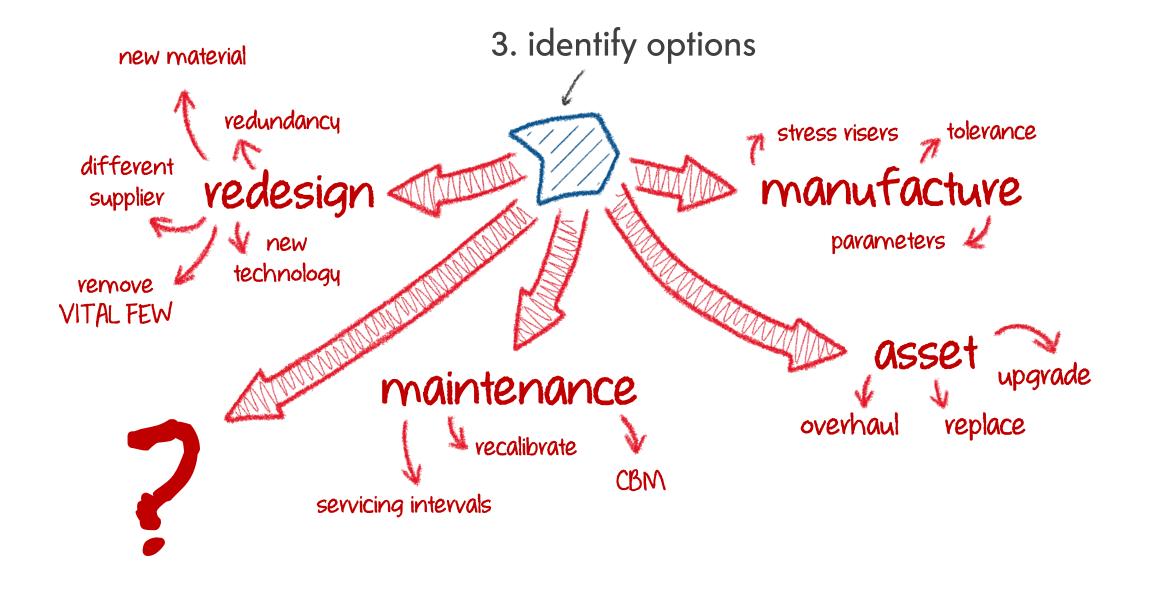
... if we don't

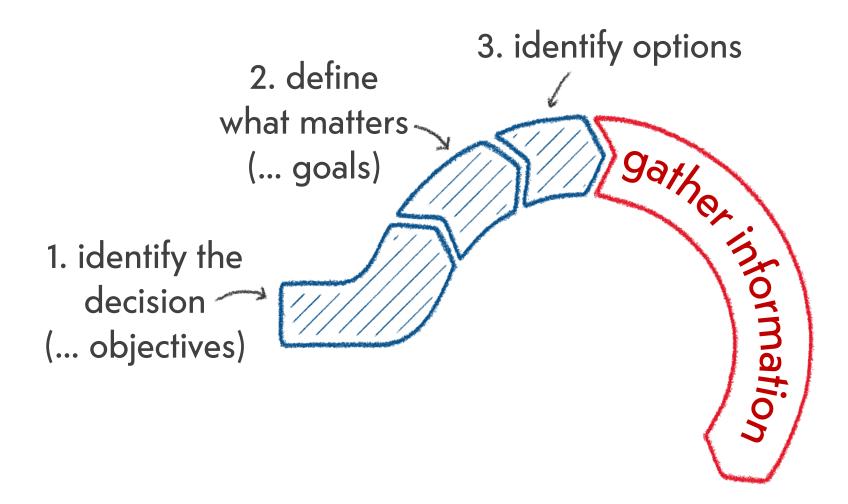
think

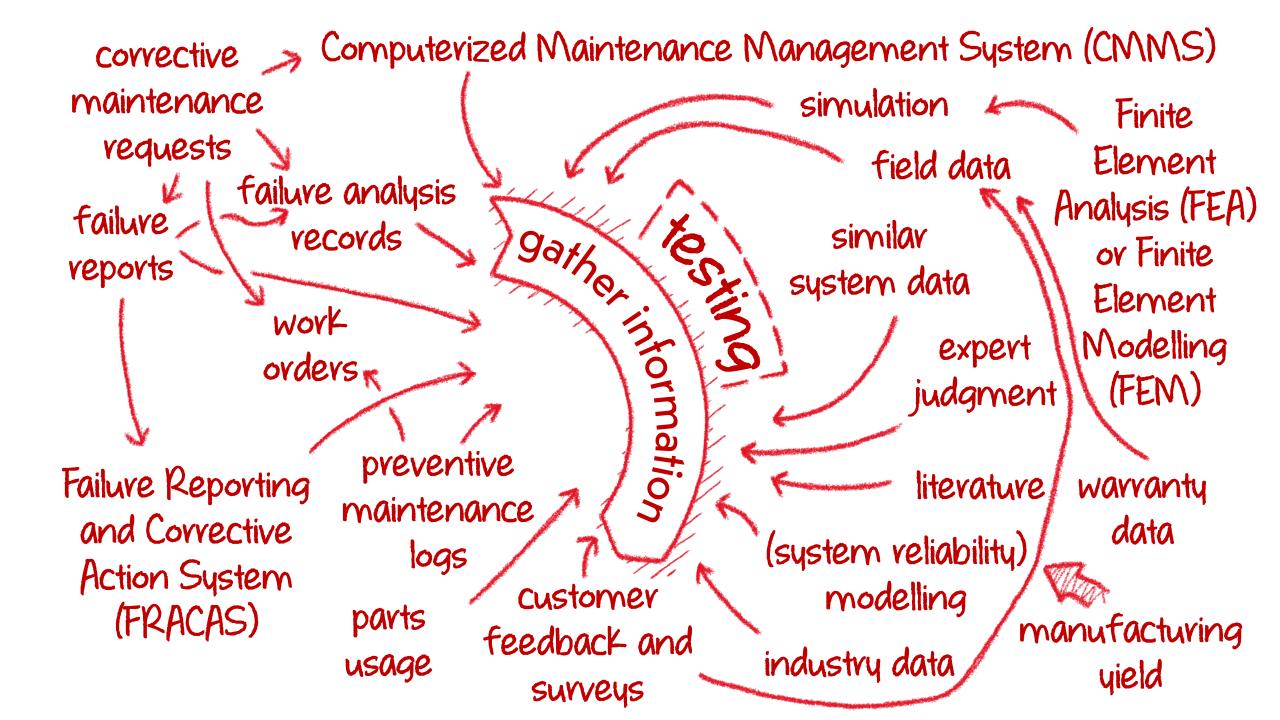
about these enough (or couldn't be bothered to think about them at all) ...

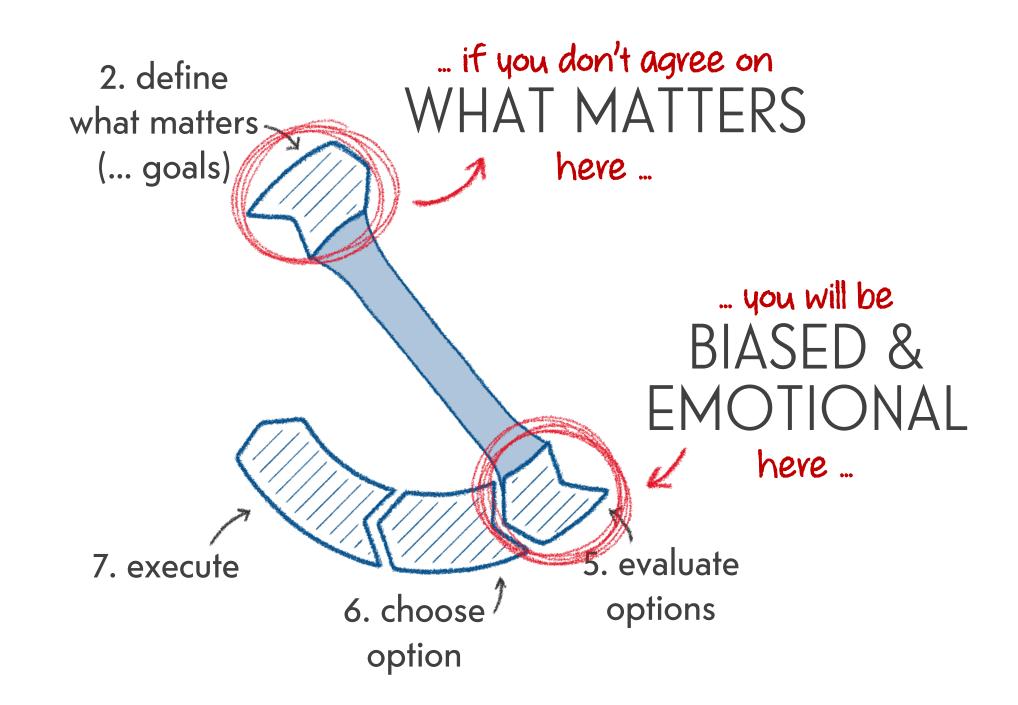








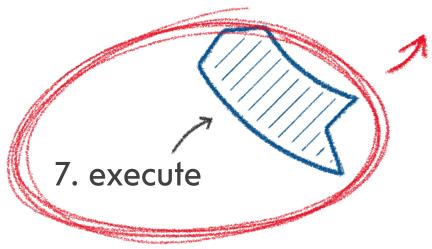




... OY OUY

organization is not serious

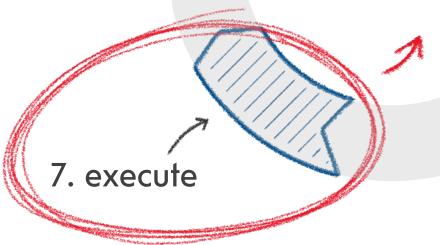
about DOING reliability



... OY OUY

organization is not serious

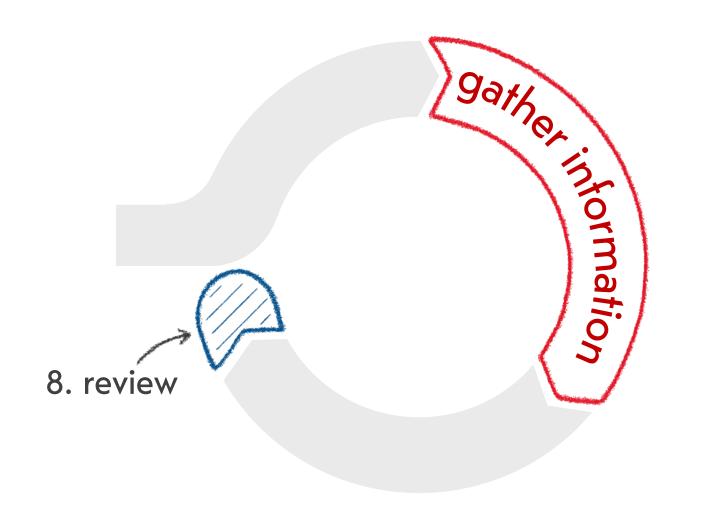
about DOING reliability



garrer mormation

... then all this is a

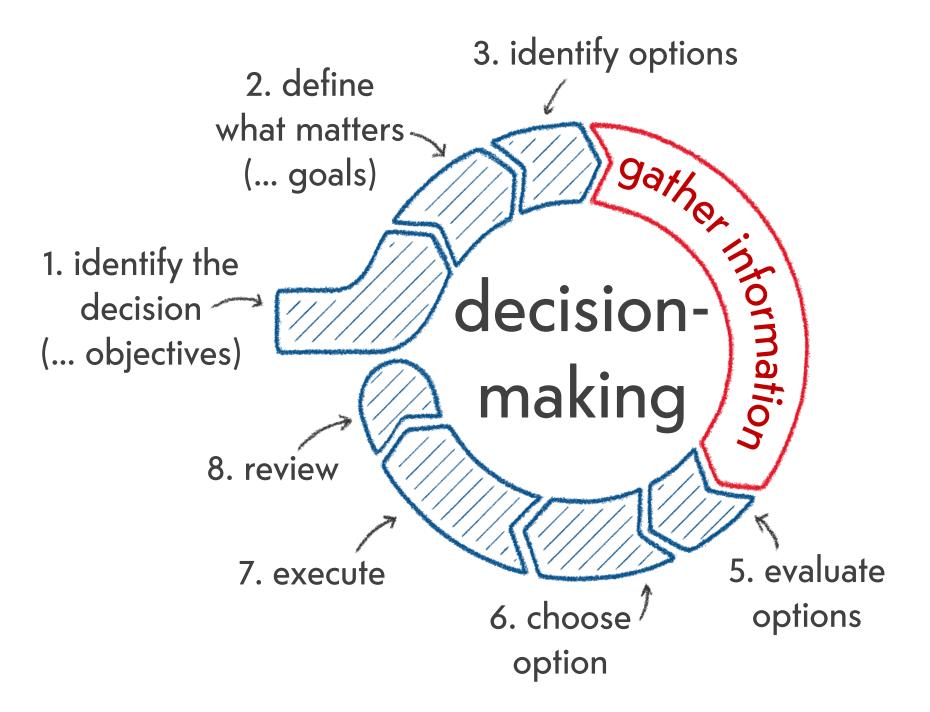
waste of time

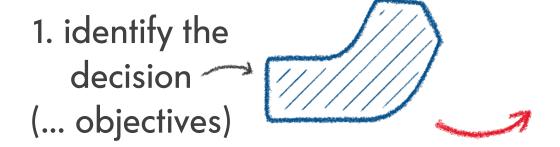


... reliability decisions

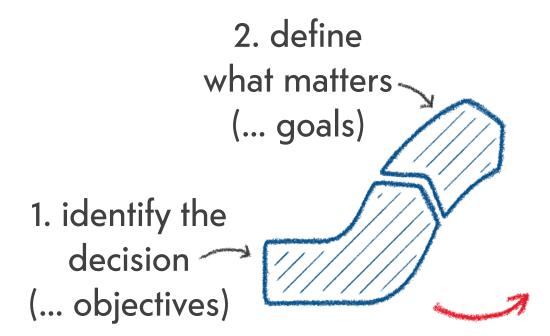
... reliability decision-making







... have you worked out YOUR PROCESS?



... have you worked out YOUR PROCESS?

2. define what matters (... goals)

PERSONAL & ORGANIZATIONAL GOALS ALIGN

and are clearly understood?

3. identify options

... ave people
TRAINED & HAVE
ALL THE SKILLS

to understand what options are available to them, how to collect and then analyse data to find the right ones?

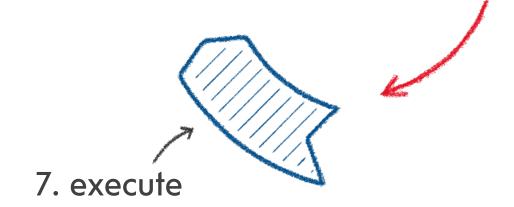


... are there established PROGRAMS & PLANS that help you gather and interpret the right data?

5. evaluate options

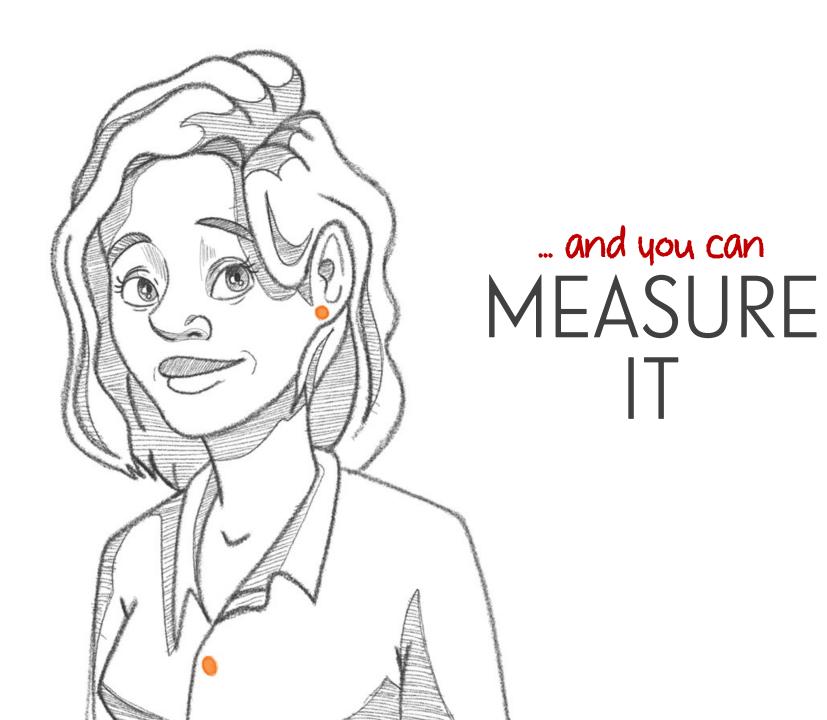
7. execute 5. ev

... does leadership MOTIVATE people to do the 'right' things?



... it's all about CULTURE as this (by definition) is all about collective behaviours ... which are themselves

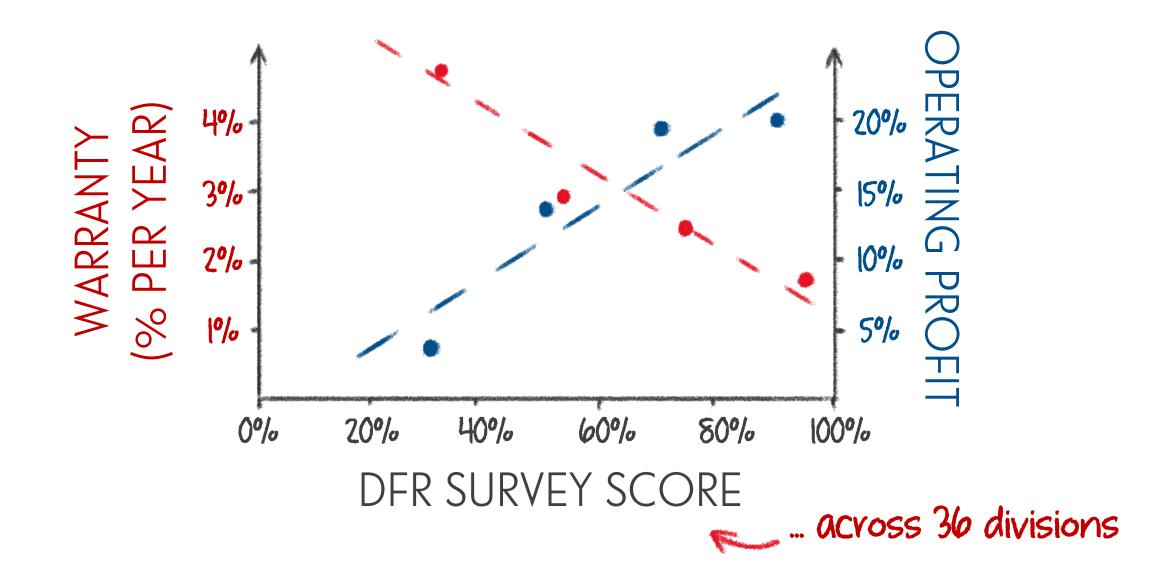
decisions we make

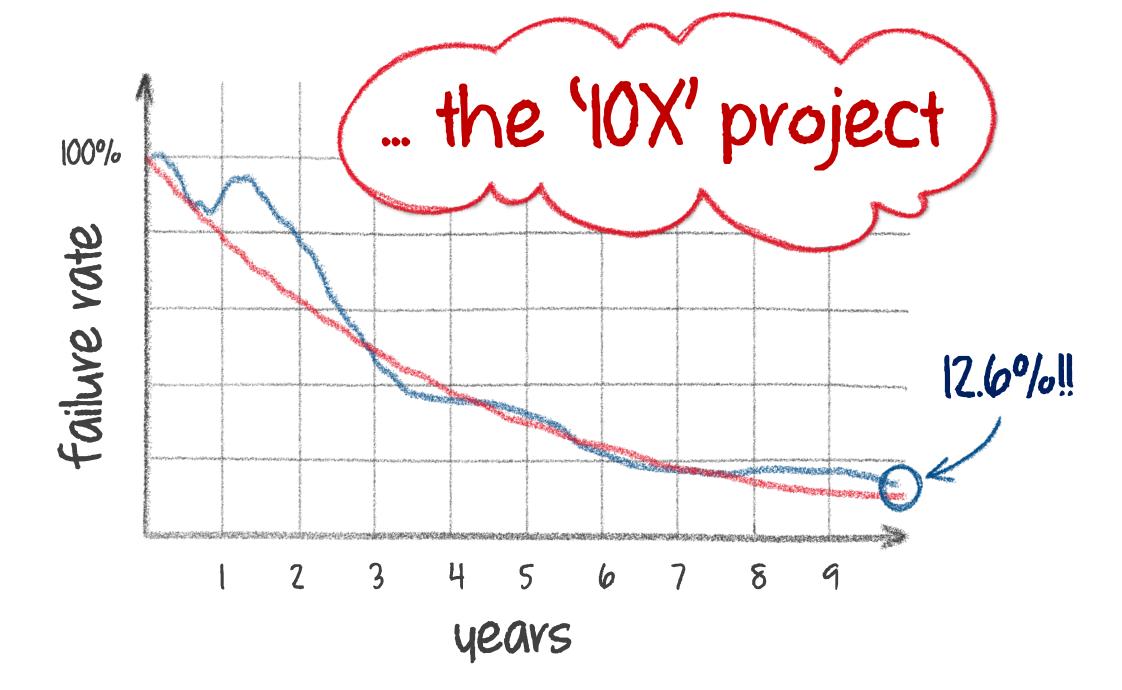


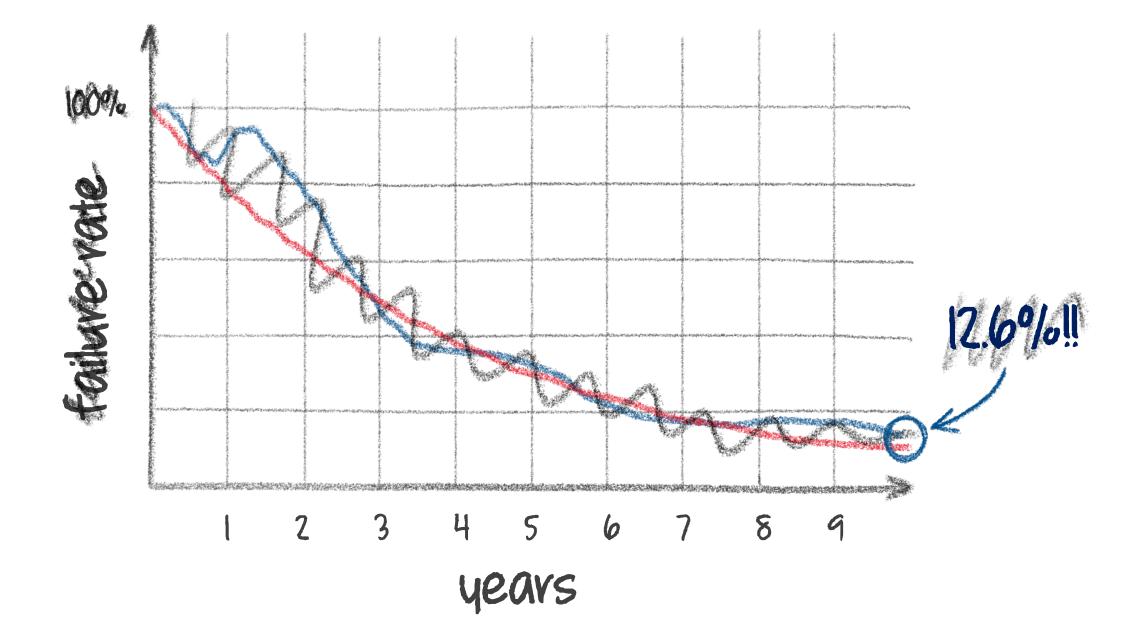
... many reliability engineers measure culture through a Design for Reliability (DfR) Survey

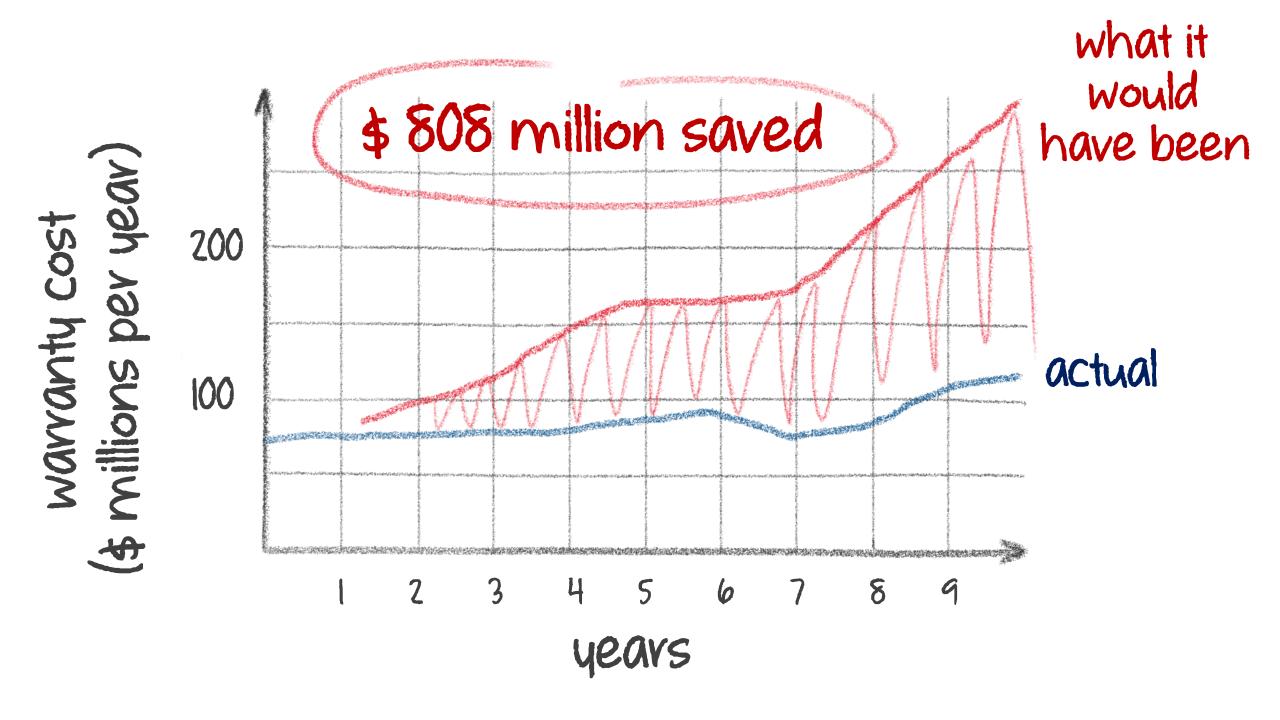












reduced PRODUCION TIME BY 30% warvanty cost savings of \$808 MILLION

reduced cost of MAINTENANCE BY 35%

inventory savings of \$200 MILLION

reduced RRP BY 16%

... wo what are you waiting for!

