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Building a Reliability Plan



Objective



A close-up photograph of a chain-link fence. A horizontal metal bar crosses the frame, and a vertical post is visible. A rusty chain is wrapped around the post and the bar, secured with a silver padlock. The background is a blurred outdoor scene with greenery and a blue sky.

Plan,
Execute

Barriers



What process do you use
for reliability planning?

End in Mind



Vision

End in Mind

Where does the company want to be in five years related to reliability?

Be specific

Understand why

This is the basis for alignment toward a common long term goal



Project Objectives

End in Mind

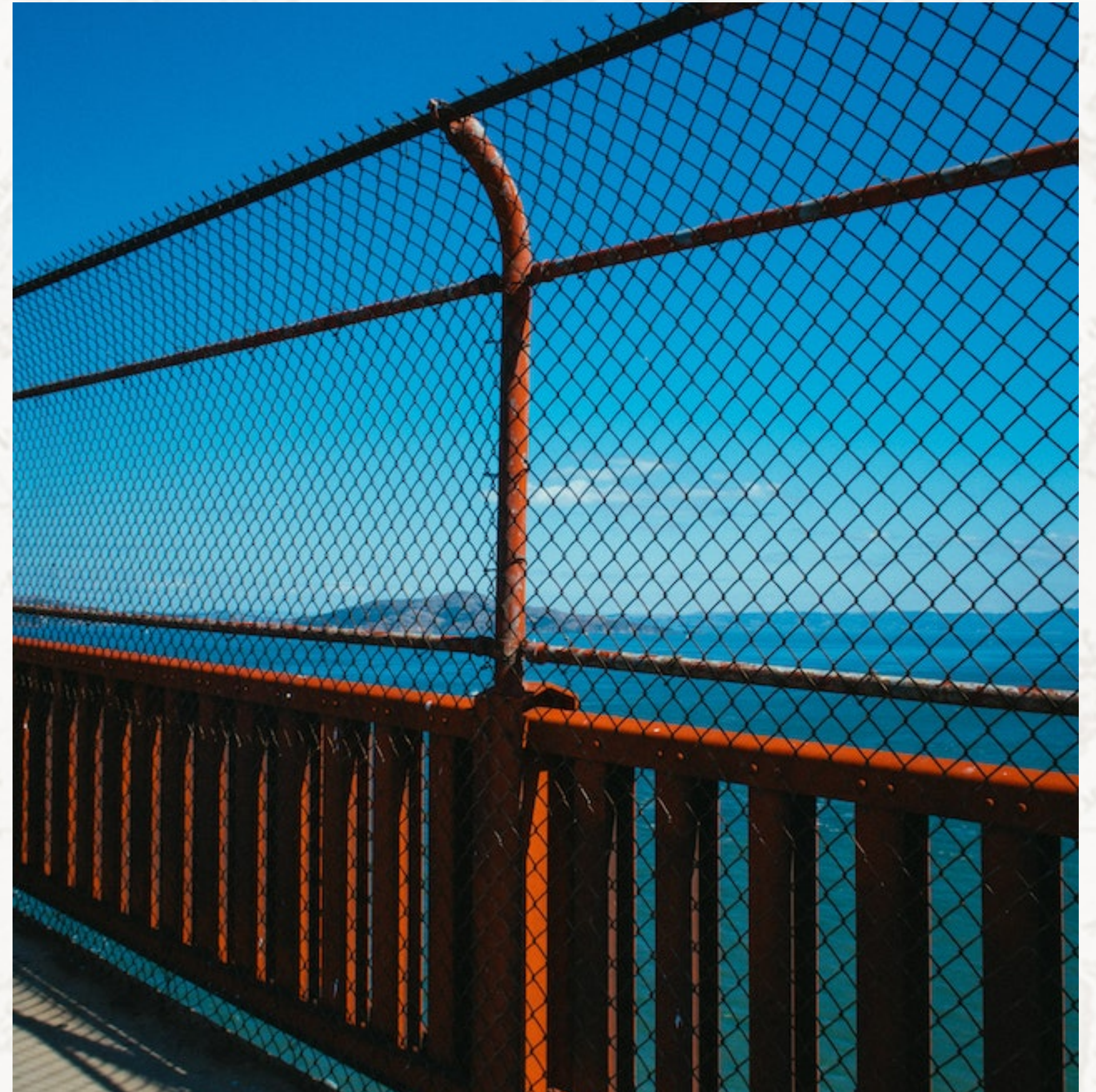
Focus and constraints

Best in market

Improve from past

Stay the course

Warranty or Lifecycle Costs



Complete Statement

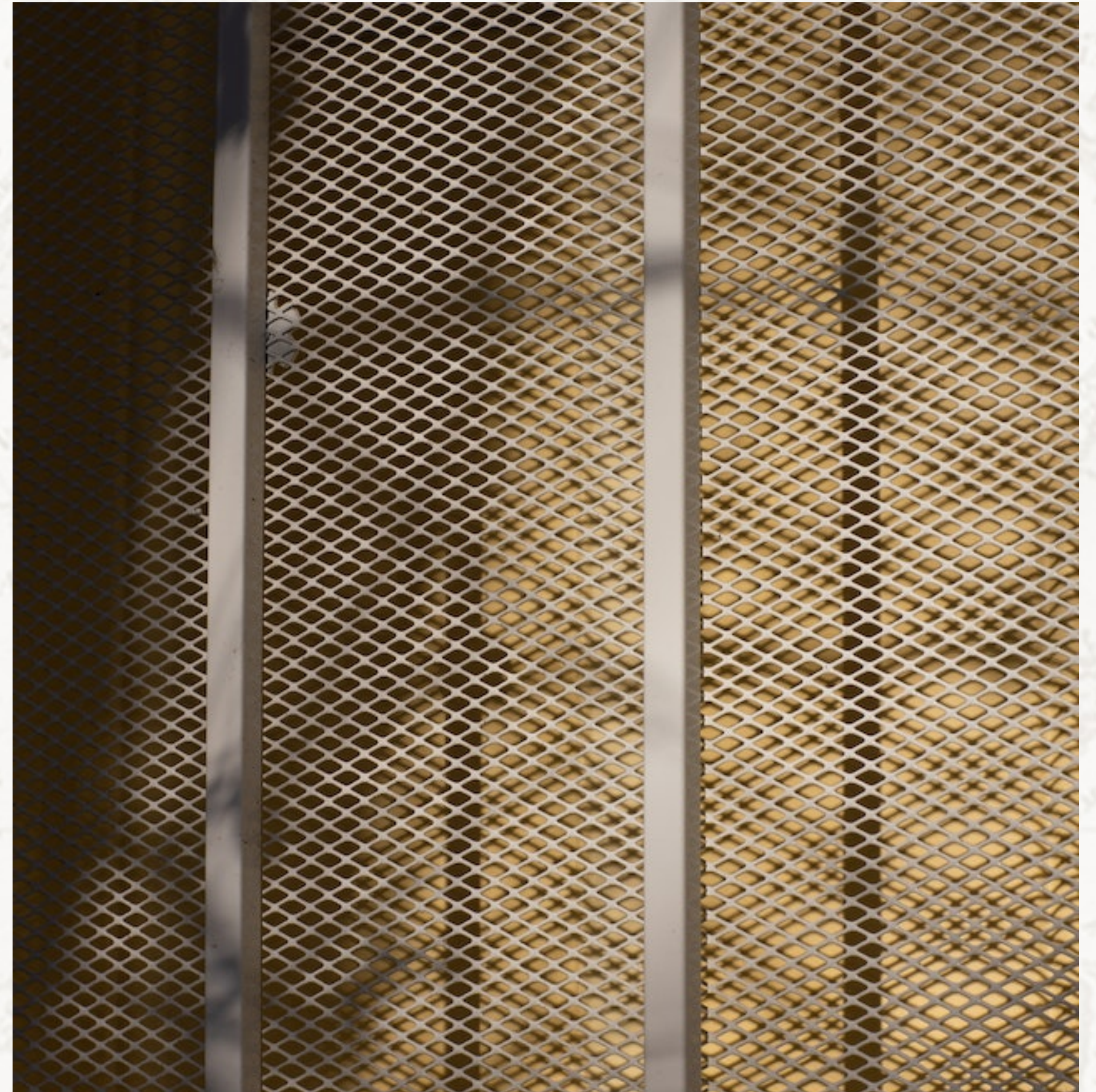
End in Mind

Primary Function

Environment/Use Conditions

Probability of Success

over stated Duration



Can you state your

project's reliability goal?

Determine what to address



Assessment

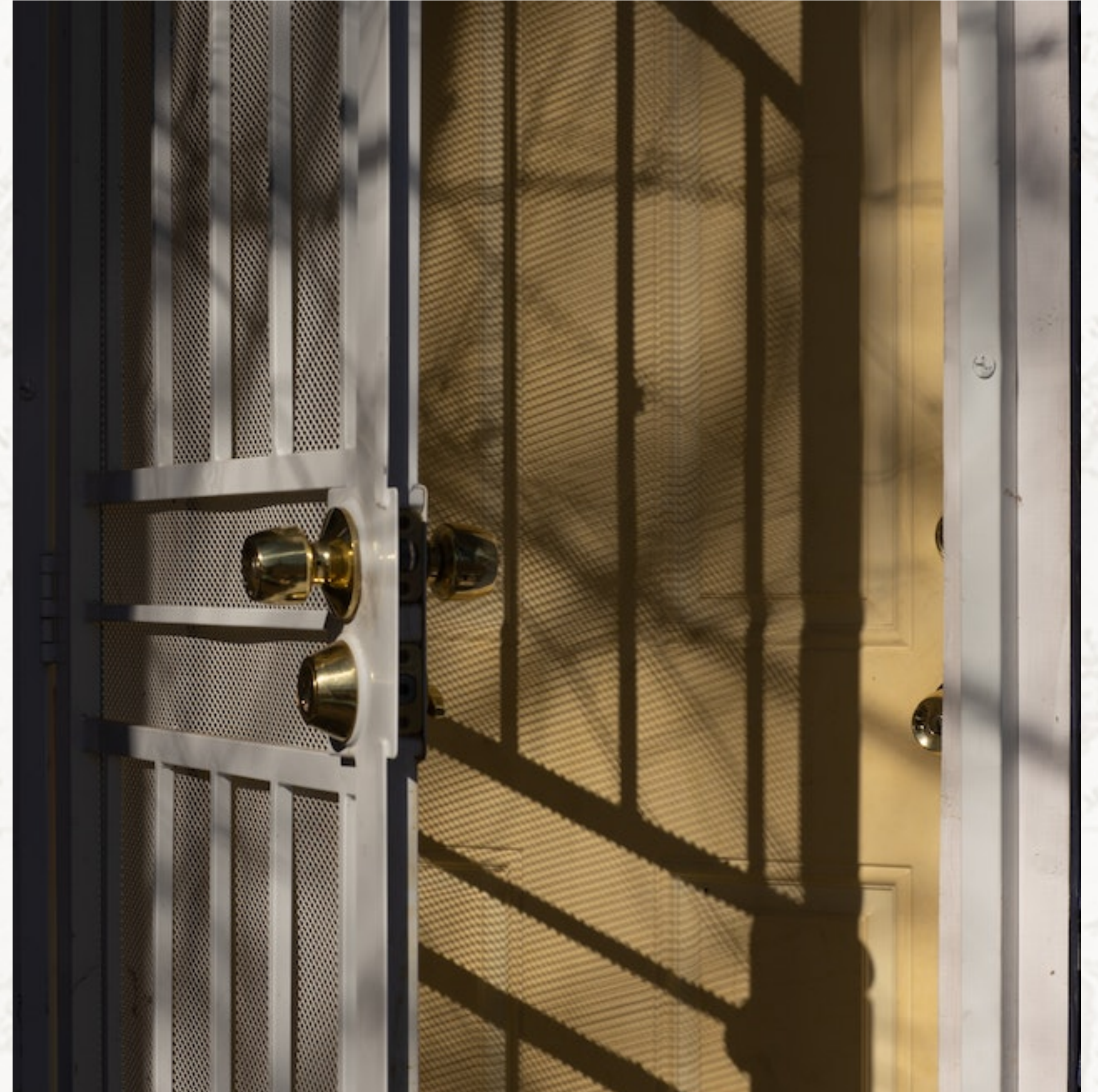
Determine what to address

What is the team good at?

and not so good at?

Compare what you need to achieve goals, and what the barriers are to do so.

This is an interview process to fully understand the culture



Decisions

Determine what to address

“Good enough to ship?” – someone will have to make this decision at some point in time.

Identify the decisions that have a better chance of being made correctly with appropriate reliability information.



Priorities

Determine what to address

Sort decisions by:

risk to the project's objectives

difficulty to address

High risk easy to address is a good place to start

Difficulty to Address

High

Low



Low

High

Risk Posed to Project

Do you prioritize

tasks or decisions?

Select & Execute Methods



Info Required

Select & Execute Methods

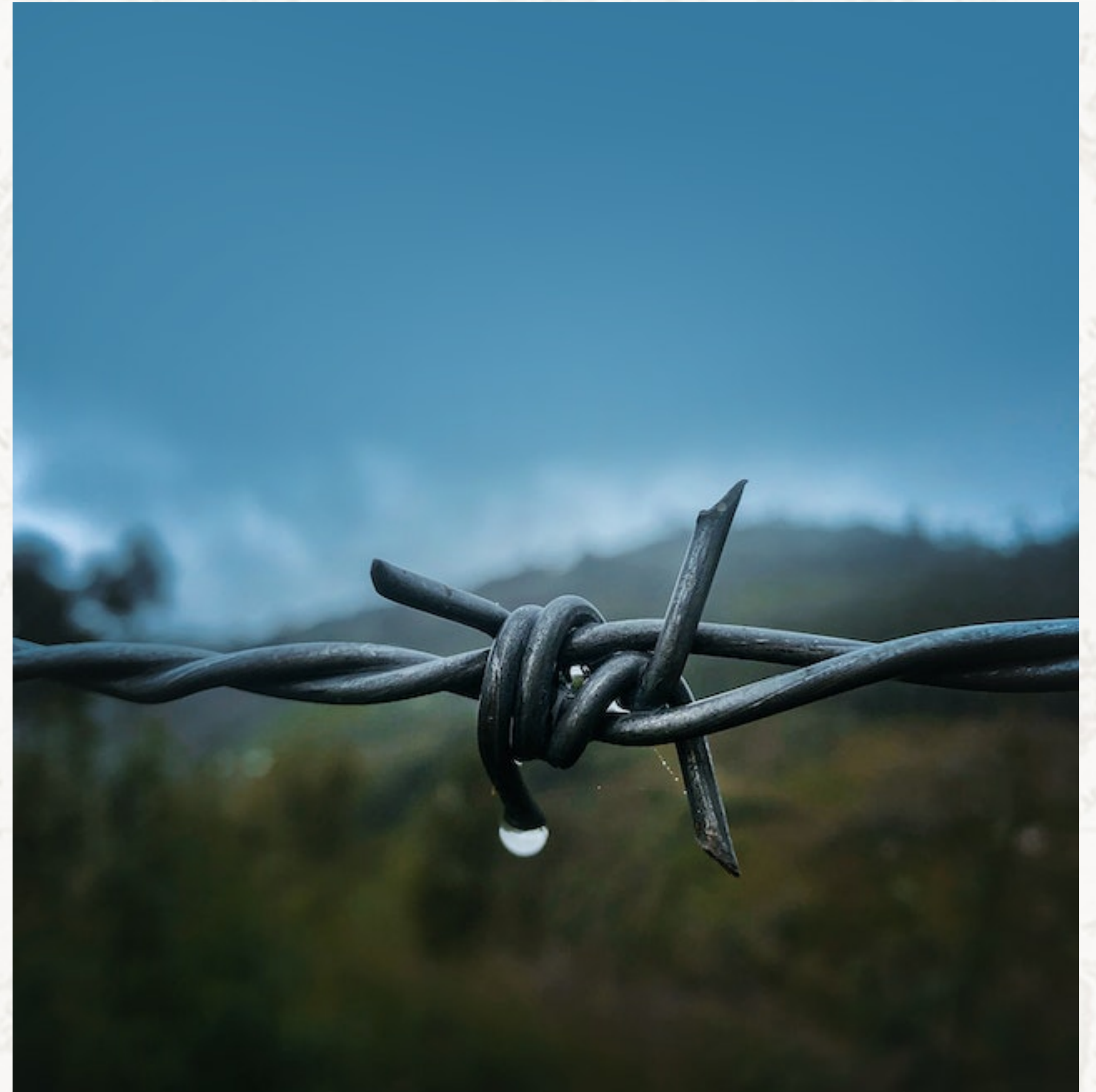
for each decision you are going to address:

what information would be useful?

what format?

when needed?

potential methods?



Constraints & Tradeoffs

Select & Execute Methods

Timing

Costs

Samples

Precision

etc



Do the work & report

Select & Execute Methods

The plan is not of value; the resulting information that improves decision-making is of value.

Monitor for changes and new information that will change the plan.



Do you know our book?

**The Process of
Reliability Engineering**

Additional Comments and Questions

Thanks

see more at AccendoReliability.com