How to Create an ALT Plan

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Cheating
Time
13 09
#GIRLBOSS
CREATIVITY, INC.

Future Performance

Budget,
Time,
Resources

ALT Plan Elements

Failure Mechansism — Model — Resouces — Stress Application

Failure Mechanism

Get into the physics and chemistry here

Acceleration Model

How are you going to translate the testing to use conditions?

Resources & Constraints

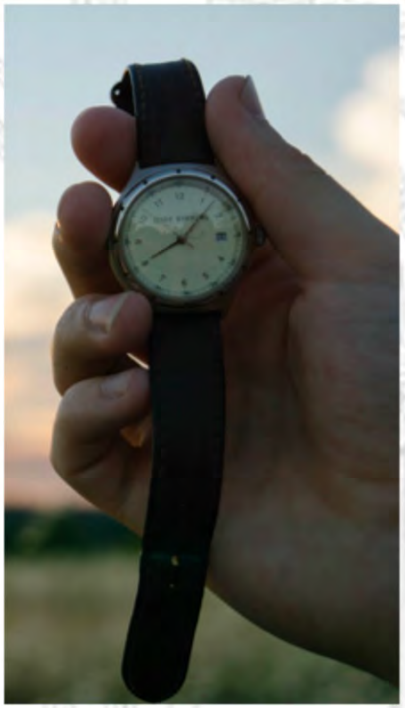
What are the available people, equipment, samples and
when do we need to have the answer and to what detail is required?

Stress Application

How to apply the accelerating stress in a meaningful manner?

Other Considerations?

How long will these last?



Let's explore a few examples to spark a bit of conversation.

Thickness Wear per Cycle

How many cycles of use do we have with this design?

Cylindar of radioactive material

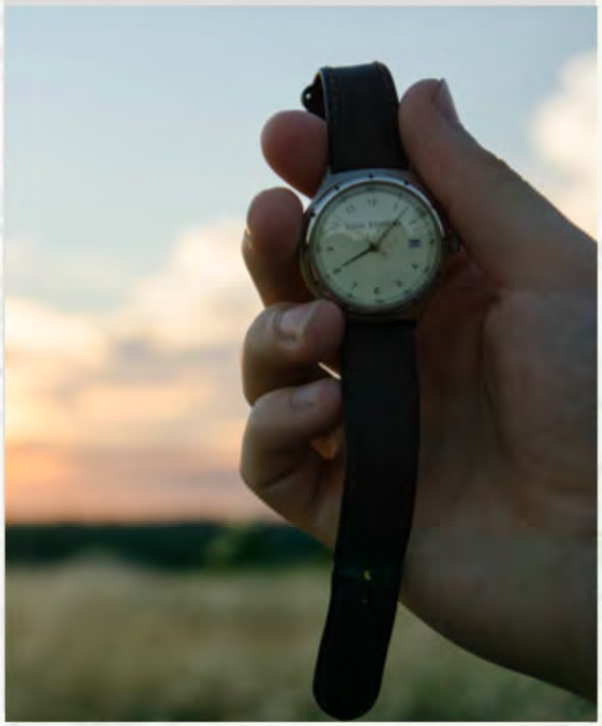
Wear on outside top corner w/ each use cycle

Cable Supporting Plastic Ties

Which vendor provides the most durable cable ties?

Plastic ties holding power cabling

Watch Band Hasp



Will this hasp design last 20 years?

A friction and magnet based connection

Fan Bearings

How long before the bearing noise is too loud?

Sleep aide device - quietness is essential

Creating an ALT Plan

In essence it is asking the right set of questions

What is the failure mechanism?

How do we measure the failure?

What part of the system is impacted?

Is there a suitable acceleration model?

What are the constaints?

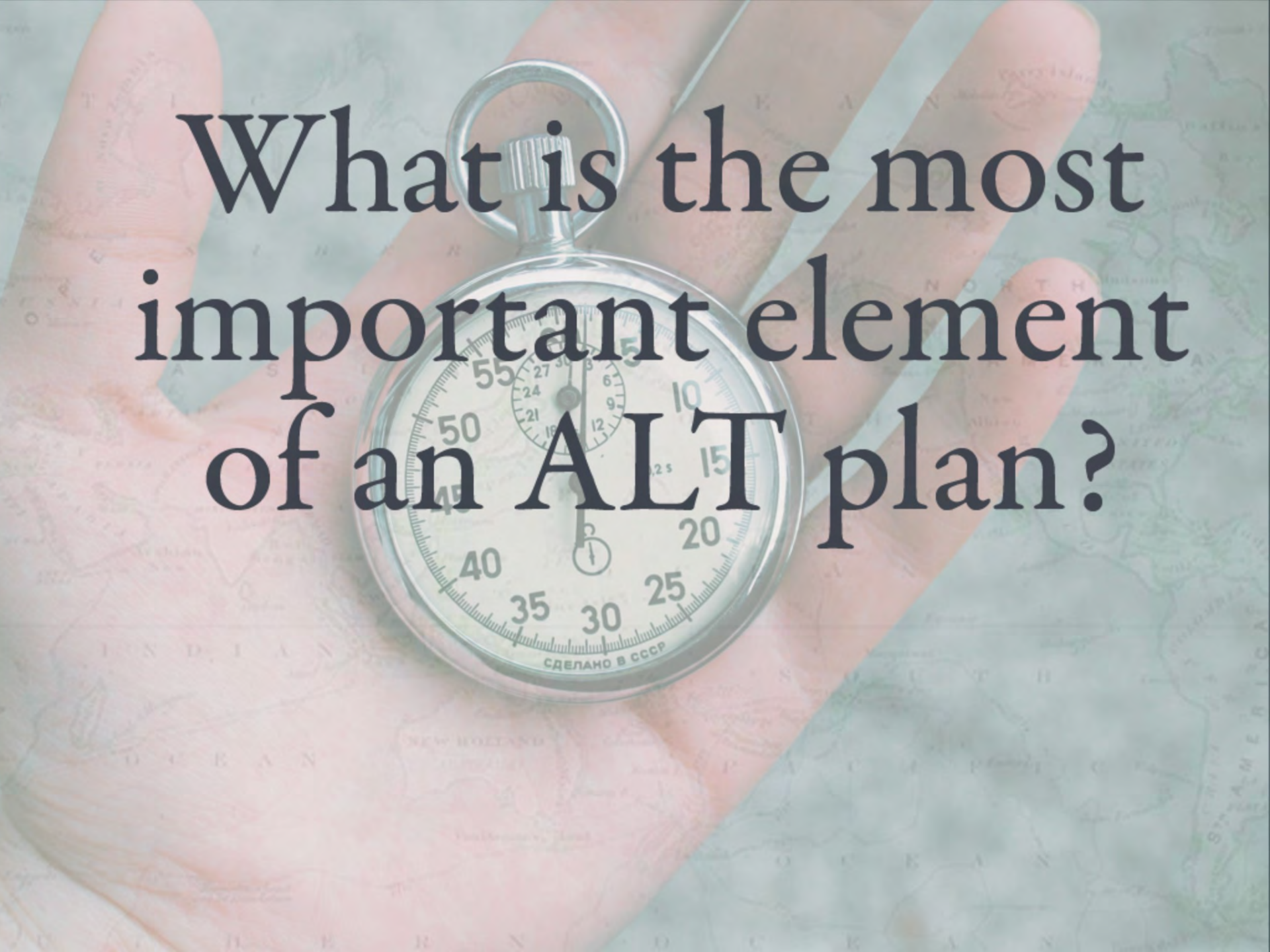
Who needs to know and by when?

To what detail?

How can we apply the stress meaningfully?

What other stress attributes should we consider?

Any interactions? Assumptions?


What is the most important element of an ALT plan?

More Information

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Join the roundtable discussion on Friday Feb 19th, 9am US Pacific time.