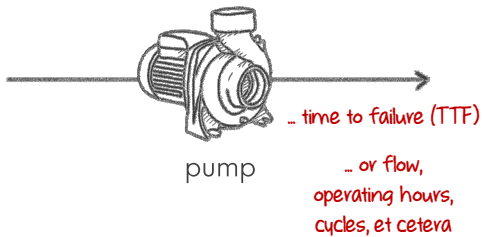


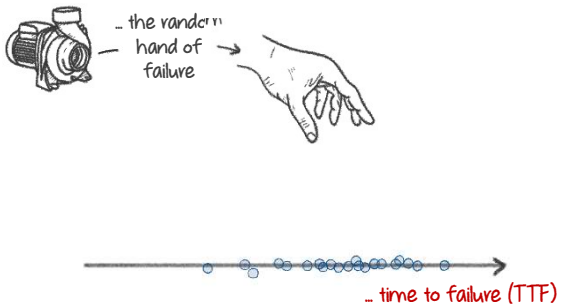


Optimizing Service Intervals and Witchcraft. There is a difference.

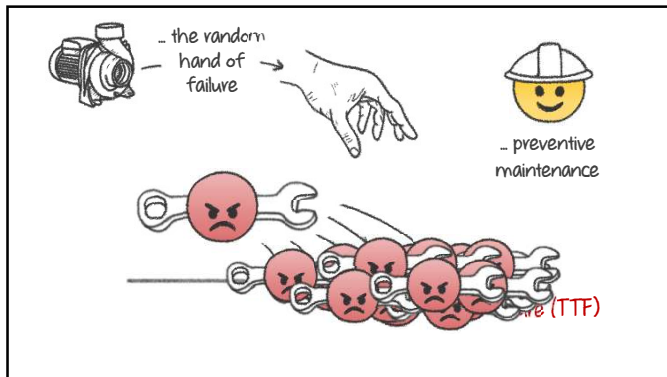
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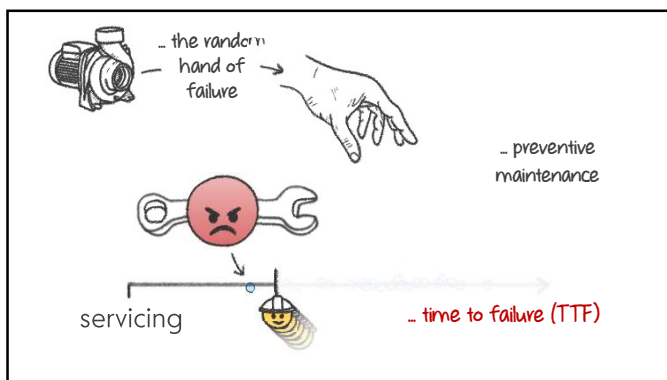
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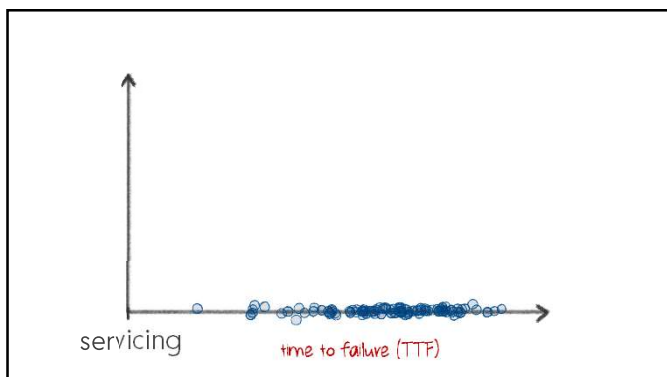
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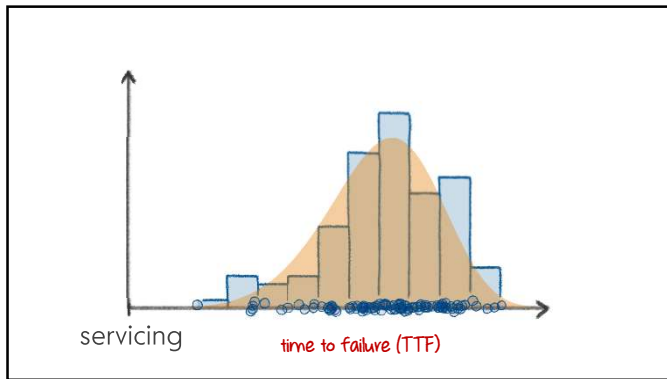
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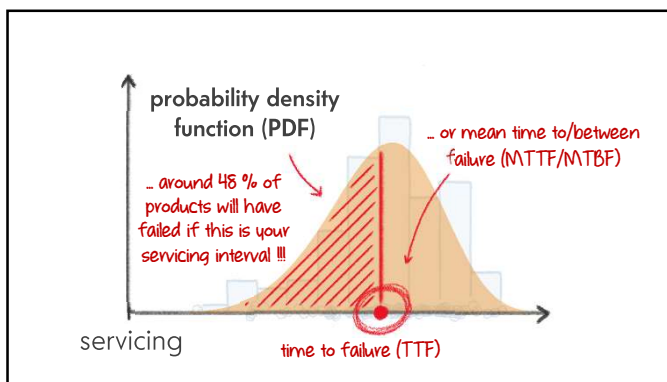
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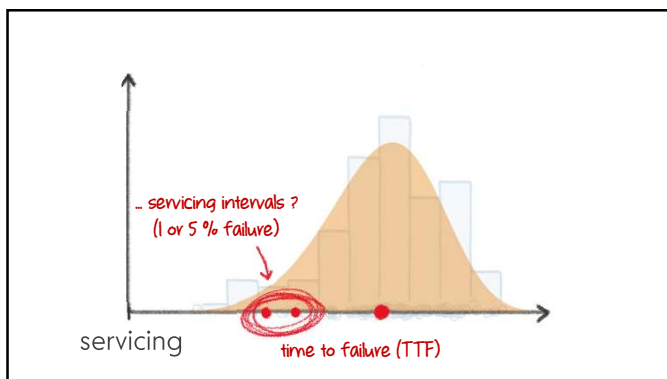
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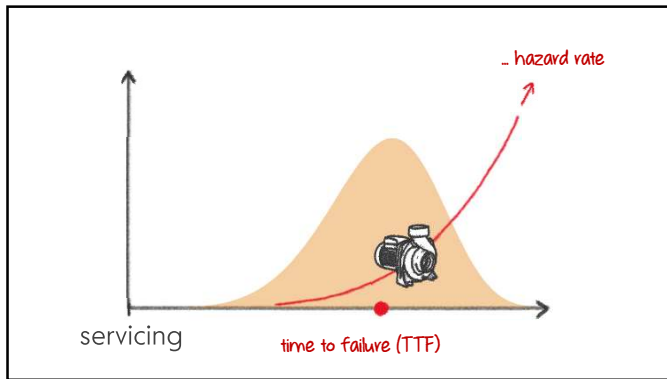
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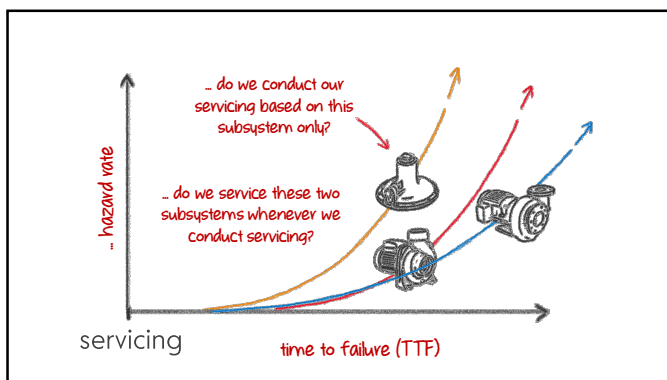
8



9



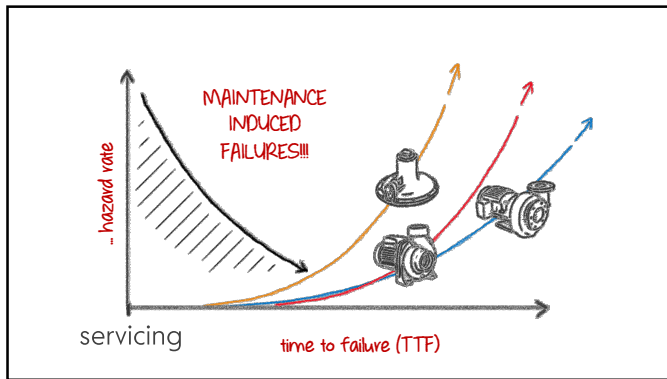
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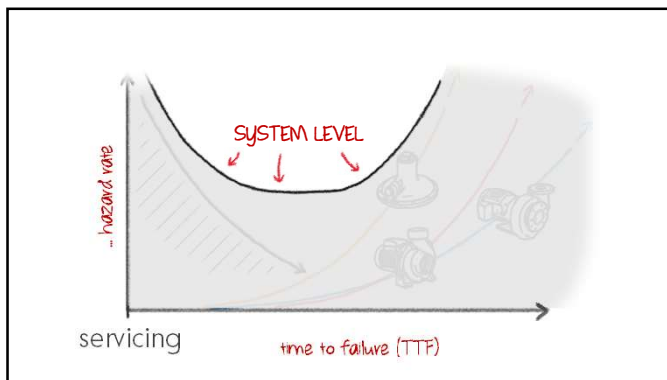
11

... but there is
one BIG thing
missing

12



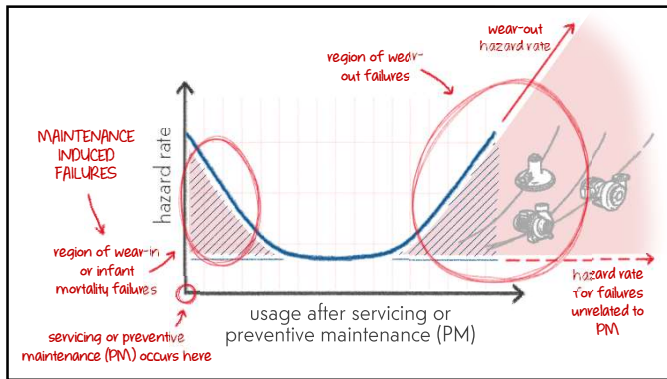
13



14

... so what does
all this mean?

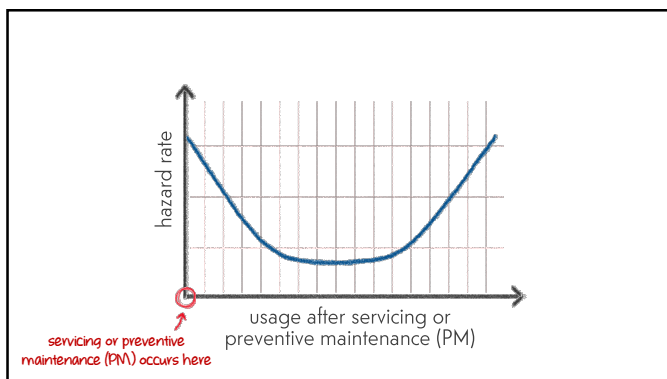
15



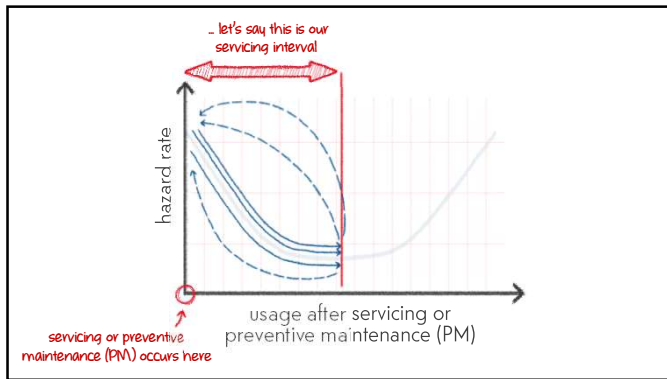
16

so how often should
you conduct preventive
maintenance?

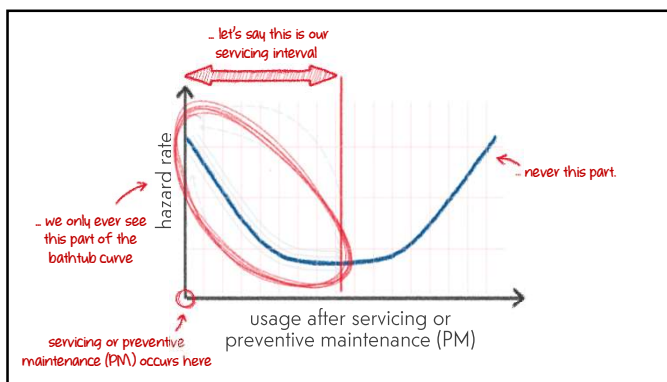
17



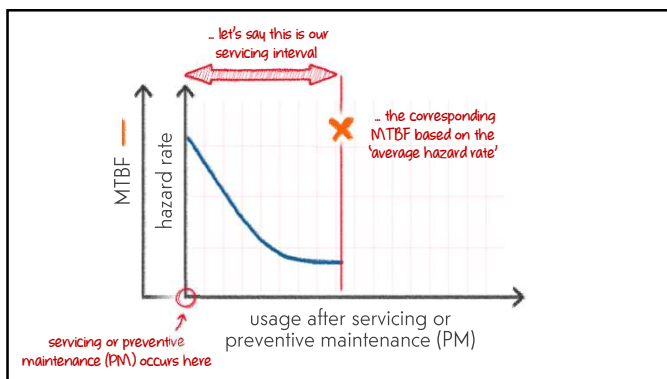
18



19



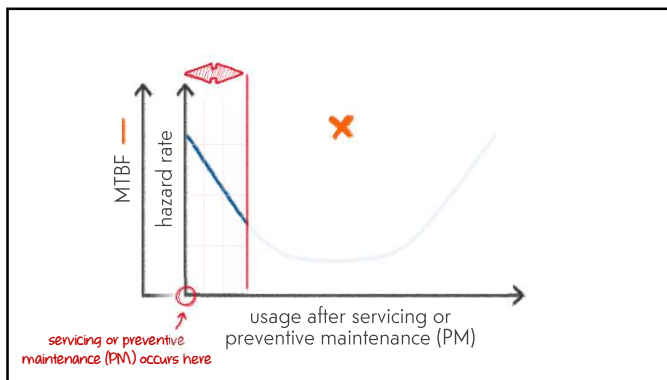
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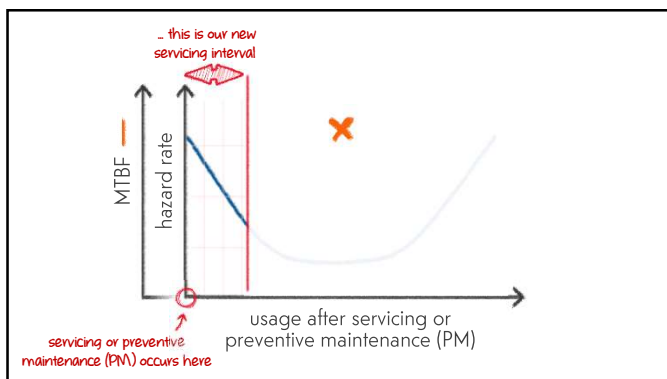
21

so what happens if we
do *more* preventive
maintenance?

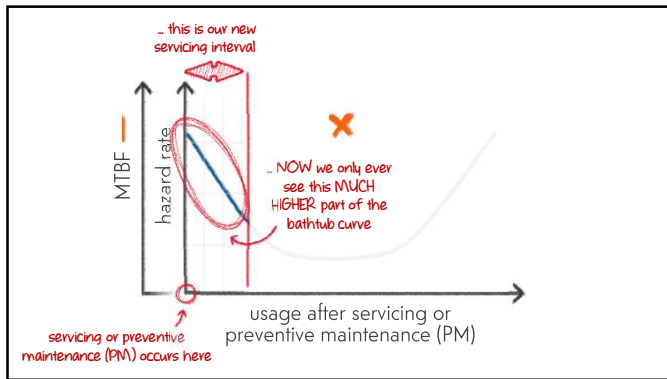
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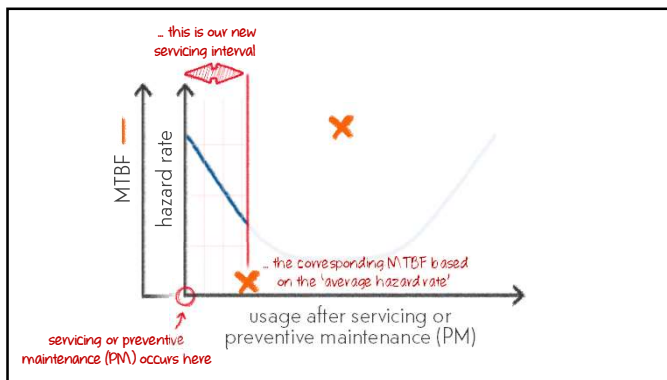
23



24



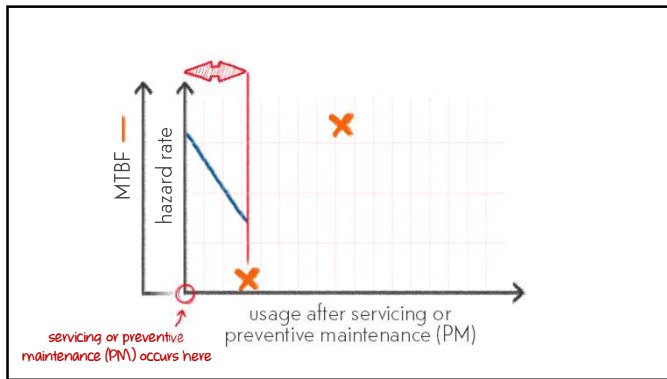
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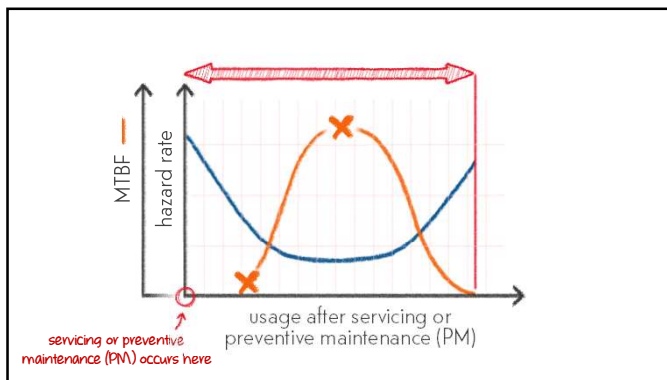
26

... let's look at *all*
possible servicing or
PM intervals

27



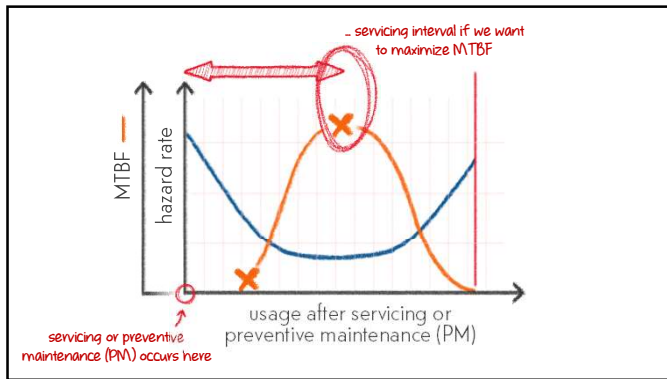
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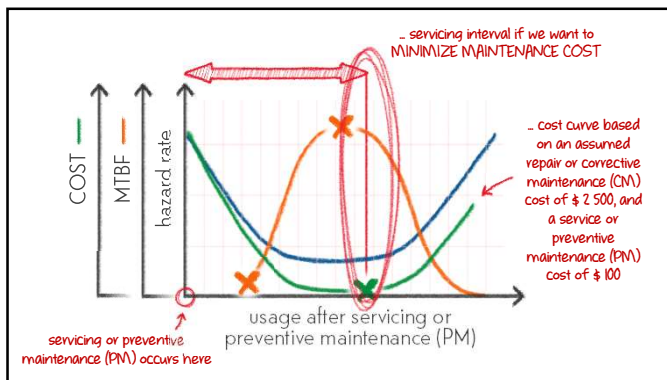
29

... so what should
our servicing or
PM interval be?

30



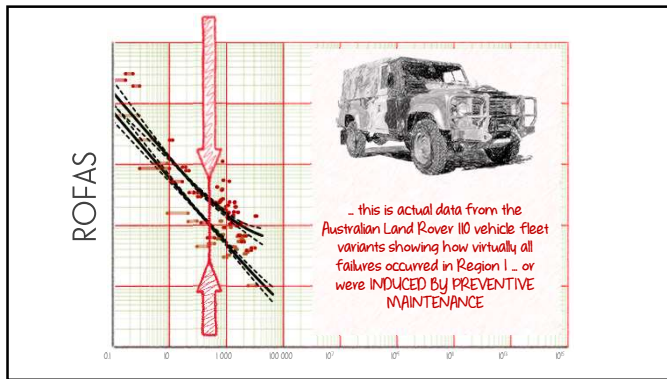
31



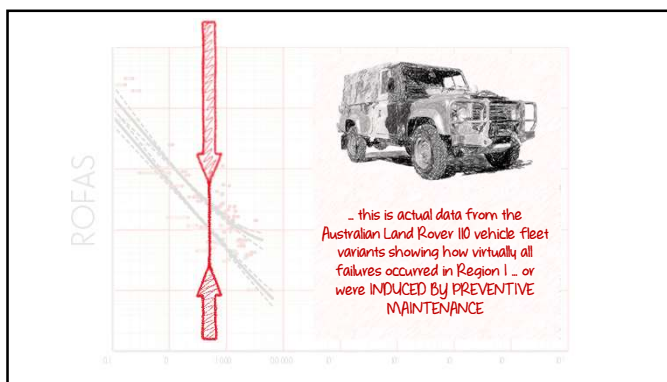
32

... don't believe
me?

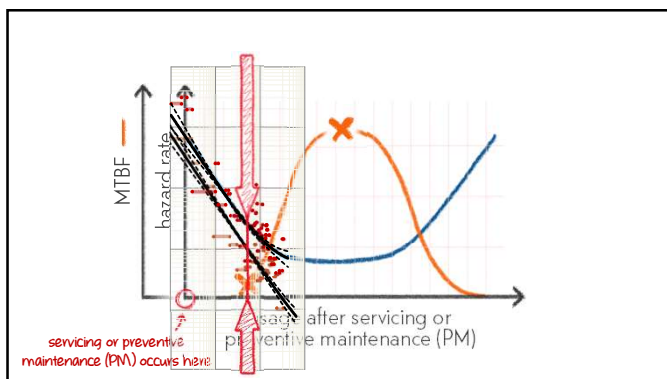
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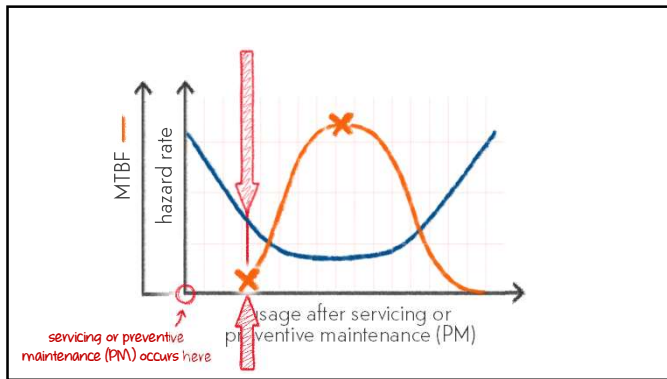
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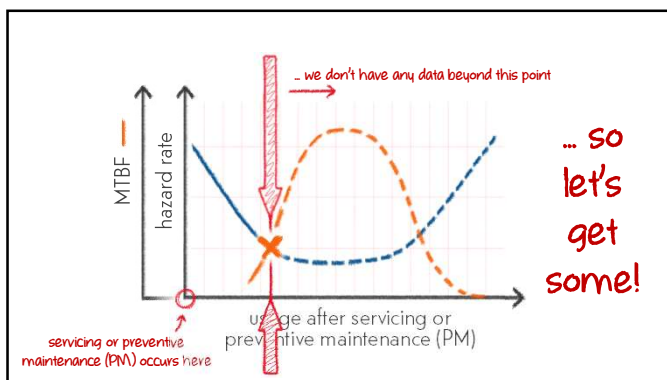
35



36



37



38

... but isn't this 'bathtub curve' rare? ... does it have anything to do with maintenance?

39

YES.

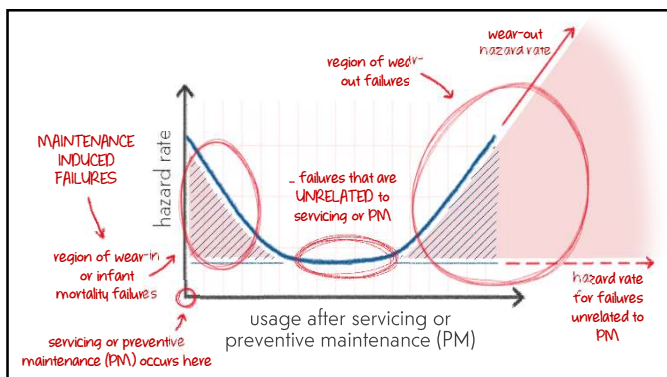
... we call the post-servicing hazard rate the *rate of occurrence of failure after servicing* (ROFAS).

... it is one of the very few times we see the stereotypical bathtub curve

40

... WO ... let's not get too carried away with this statistical magic

41



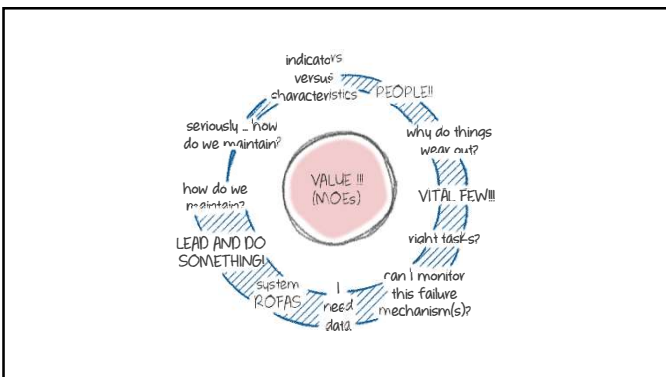
42



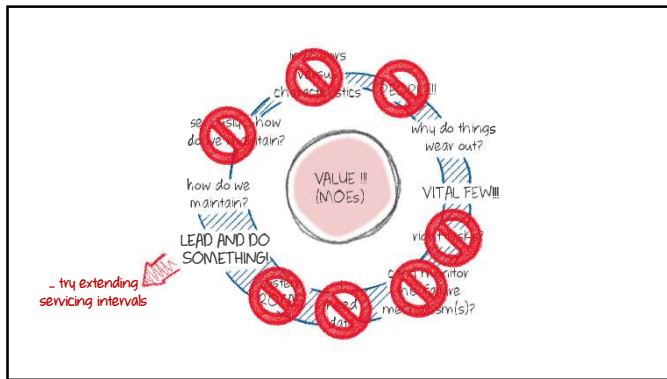
43

... it is more important
to be a *hunter of*
wear-out failure

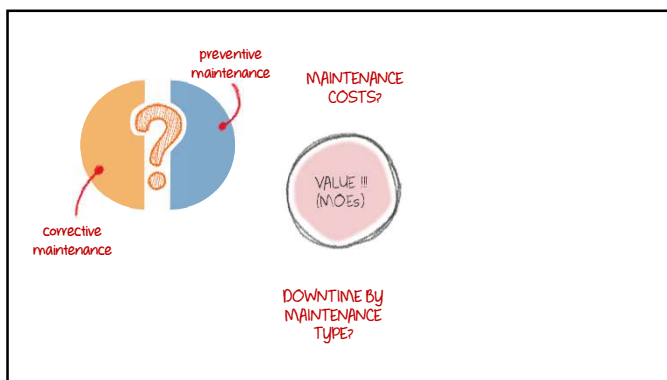
44



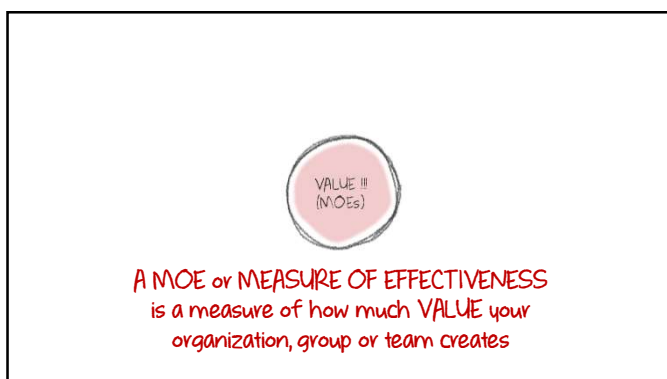
45



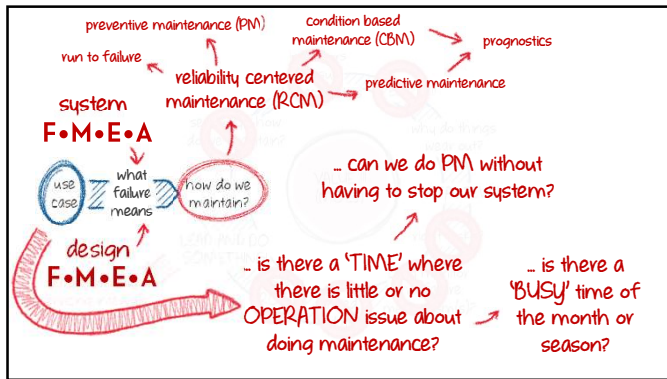
46

[illegible]

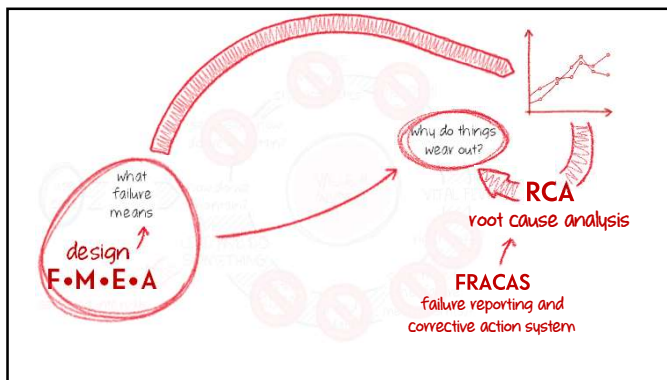
47



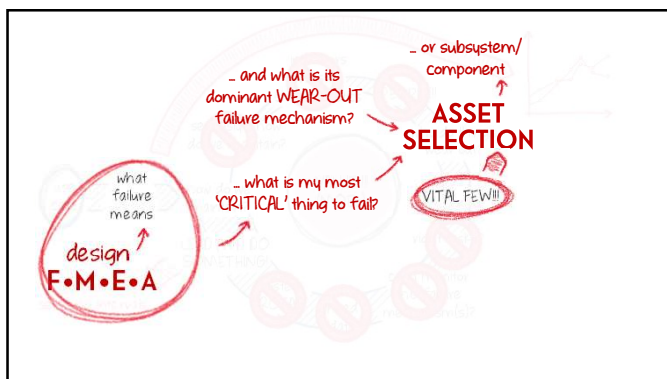
48



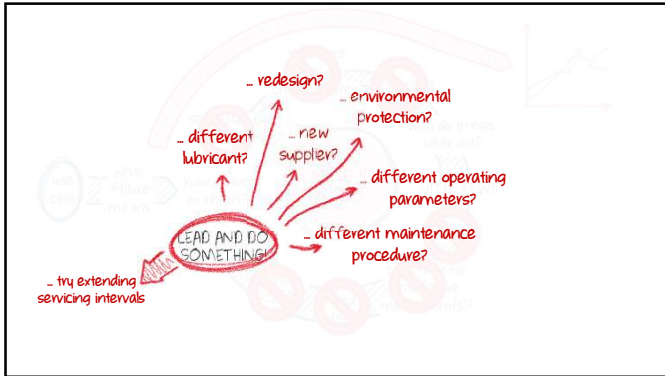
49



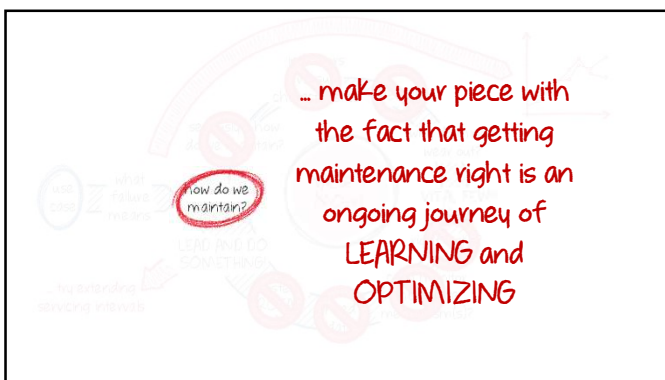
50



51



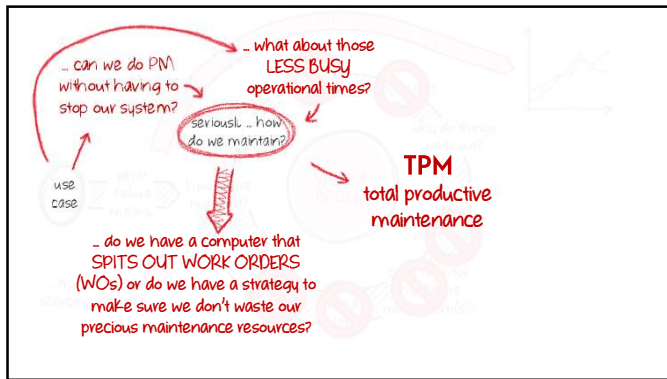
52



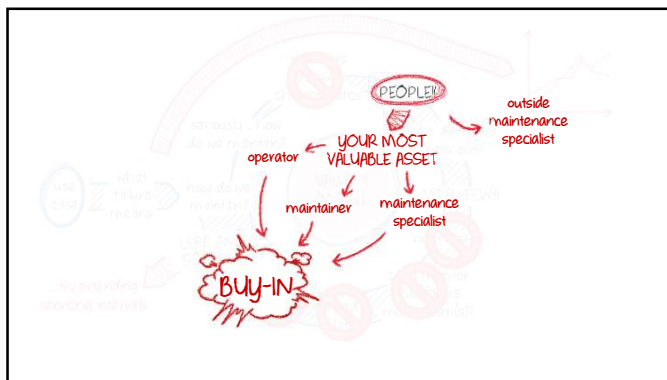
53

... but this CAN BE
just the start ...

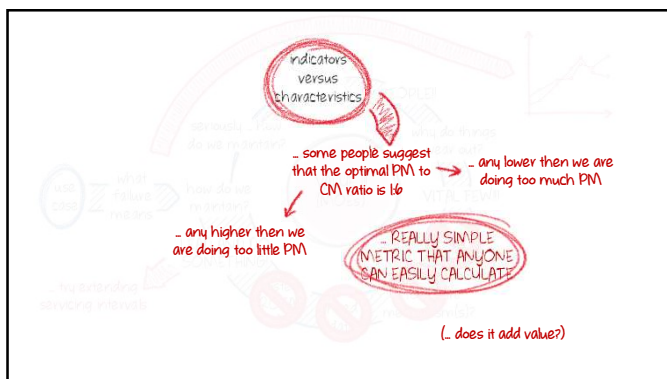
54



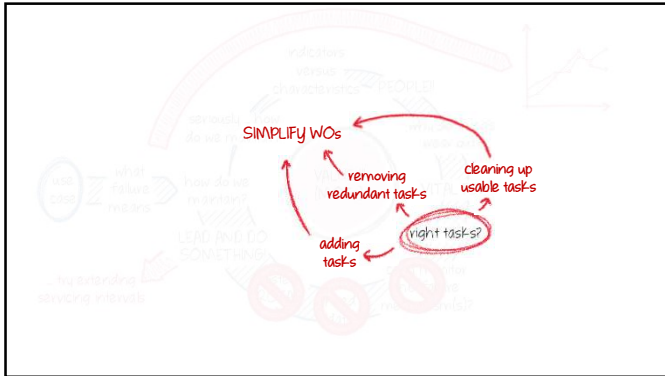
55



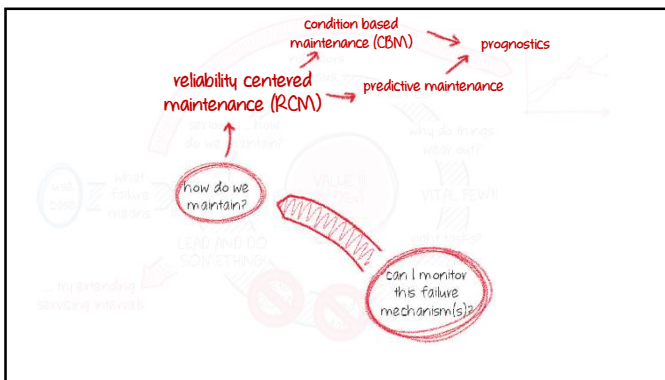
56



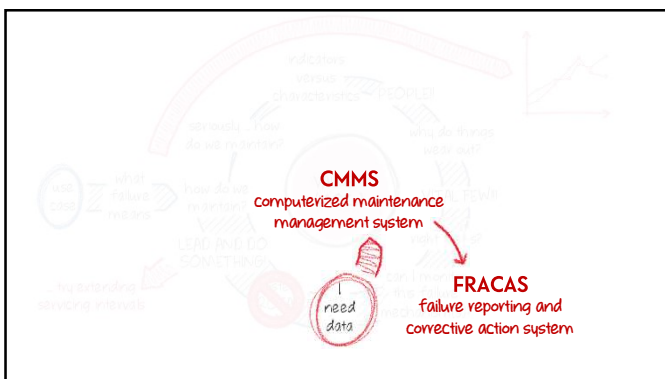
57



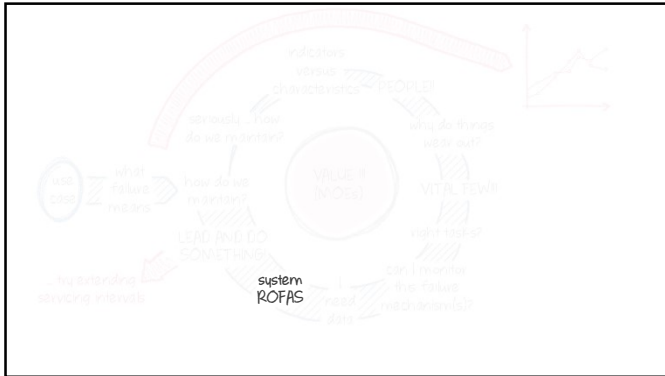
58



59



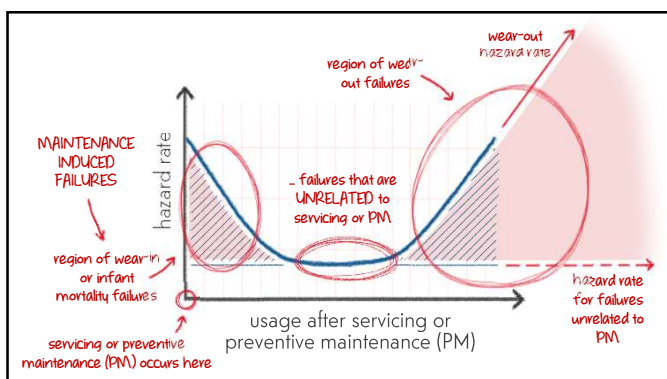
60



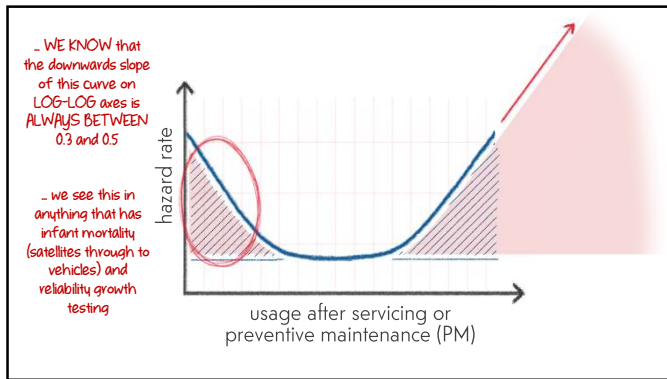
61

... OK ... so you *still*
really want to do the
ROFAS stuff?

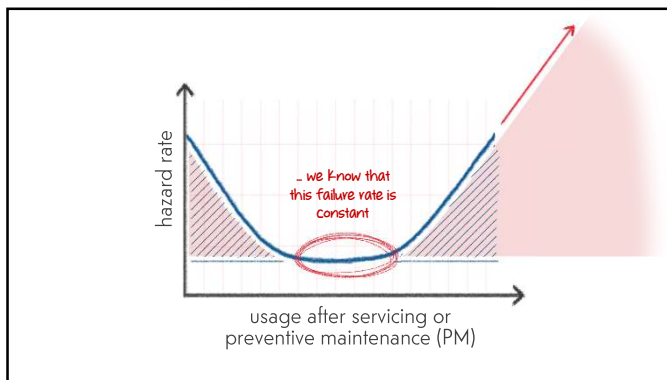
62



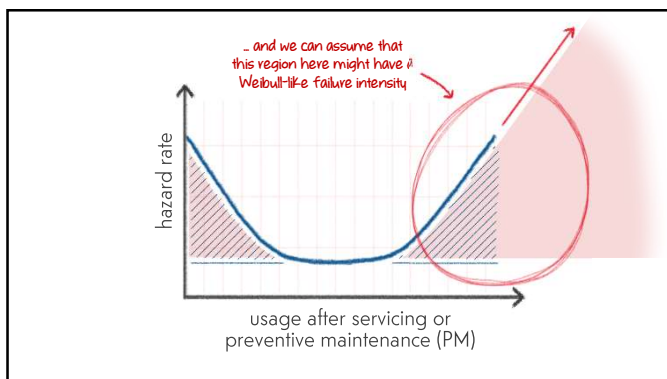
63



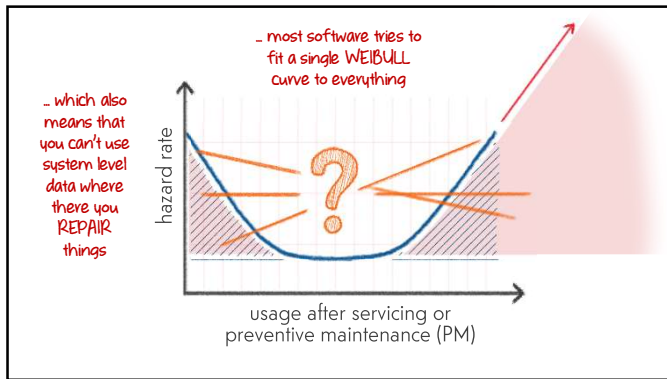
64



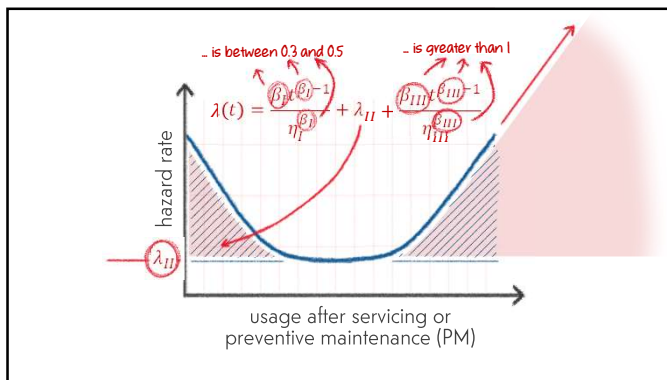
65



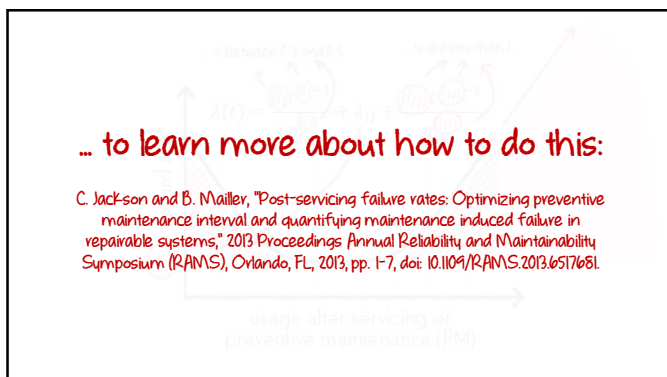
66



67



68



69



70
