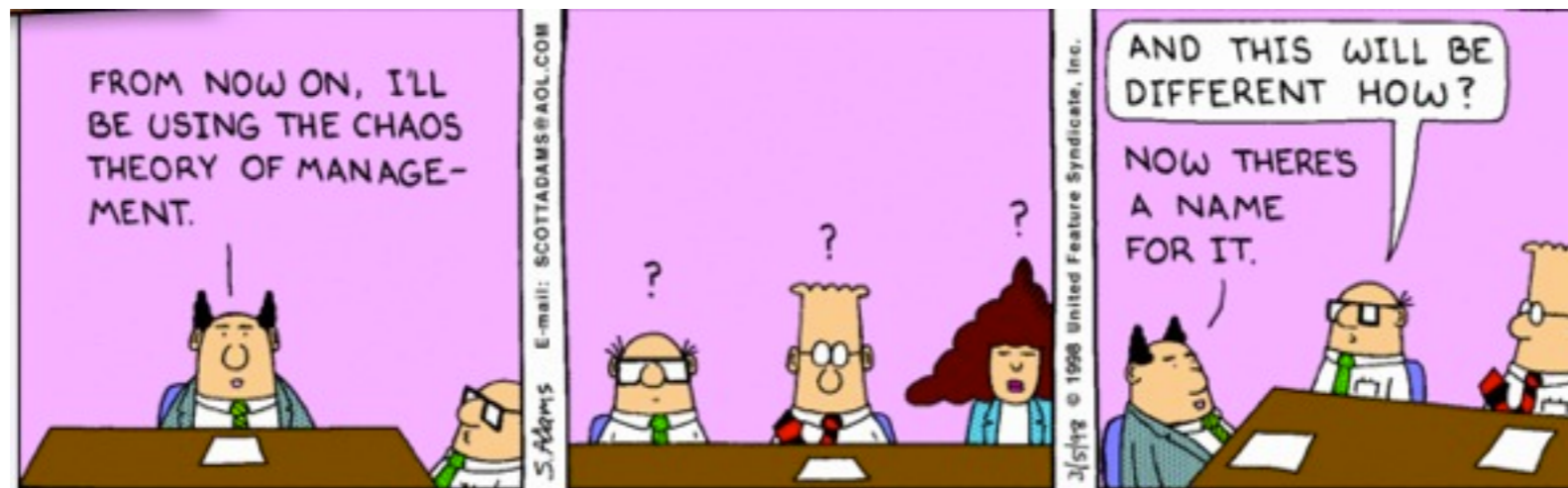


Navigating Chaos

a holistic approach to product development

Olve Maudal, Minister of Knowledge, Cisco Systems in Norway



The key to effective product development is to prepare for the unexpected and be willing to deal with it when it happens. Effective and successful product development is all about being exceptionally good at navigating the unknown.

A 15 minute presentation, September 6, 2012
Oslo R&D Technical Press Trip, EMEAR Collaboration



“For most of my life I wanted a Porsche, now I think I want an EX90 instead.” (leading industry analyst when the EX90 was launched)

What is the secret sauce?



- Facts
- Observations
- Principles

About Developing Spectacular Products



Few high tech projects are like running down on a paved road where you can see the ...



... goal in the end of the road.

Most projects are more like...



extreme orienteering

in impossible terrain



with a group of people





in the dark

ⓐ Except Museo del Jamon = go there are many in the city if you want a "to go" sandwich, go there for a Jamon y queso with croissant!



Plaza del sol

ⓐ cross to the other side and go slightly left. there is a quarter there all restaurant/tapas place - FULL OF ENGLISH & AMERICANS so be careful go to the right place for the road parking



with only a sketchy map as guidance



Observations from R&D, Cisco Systems in Norway

as an engineer joining the organization...

at first you might get this impression...

- No documentation
- No routines
- Fooling around
- Not following plans
- Decision are postponed
- Nobody decides
- Little respect for management
- Little modularization
- Lack of precision
- Sloppiness
- People are not working hard

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but then you start to notice...

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- Little modularization
- Lack of precision
- Sloppiness
- People are not working hard
- People communicate
- Focus on important stuff
- Embedded slack
- Continuous planning
- Effective decisions
- Autonomous organisation
- Respect for the doers
- No integration period
- Spectacular products
- Fast deliveries
- Sustainable pace

... and while you still see the "negative" stuff, you will start to appreciate the "positive" stuff more.

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Agile?

Scrum?

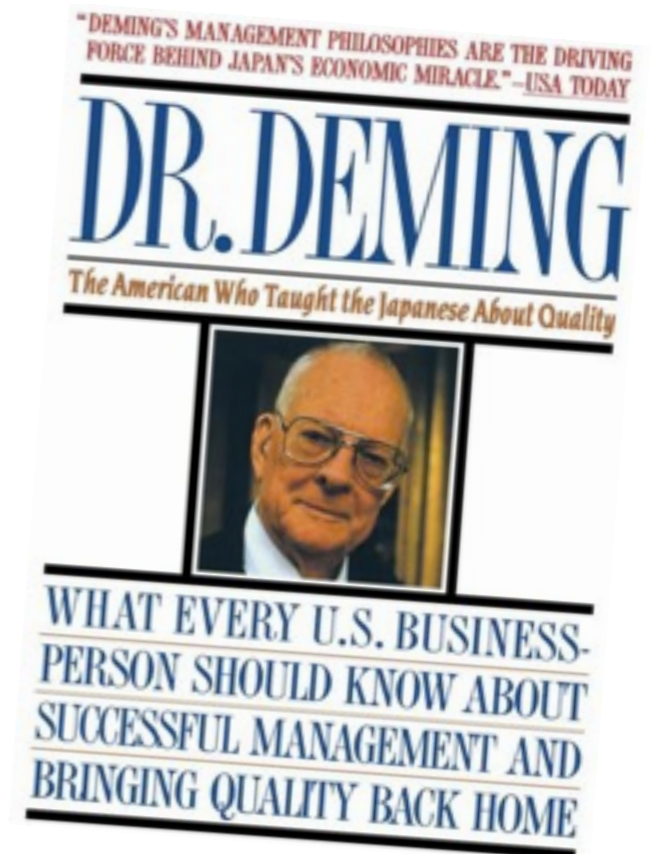
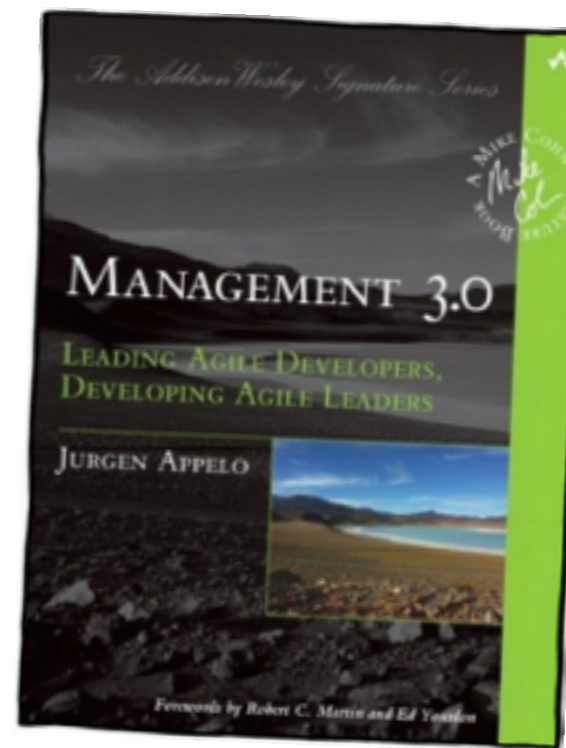
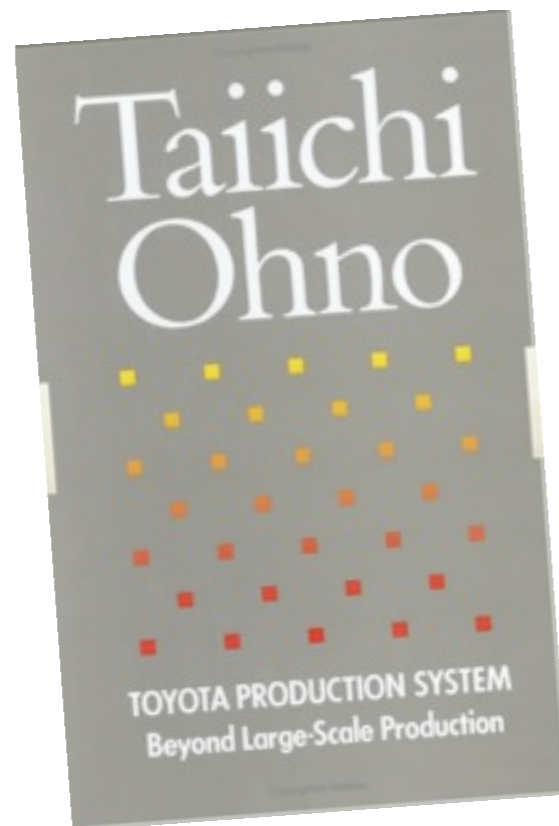
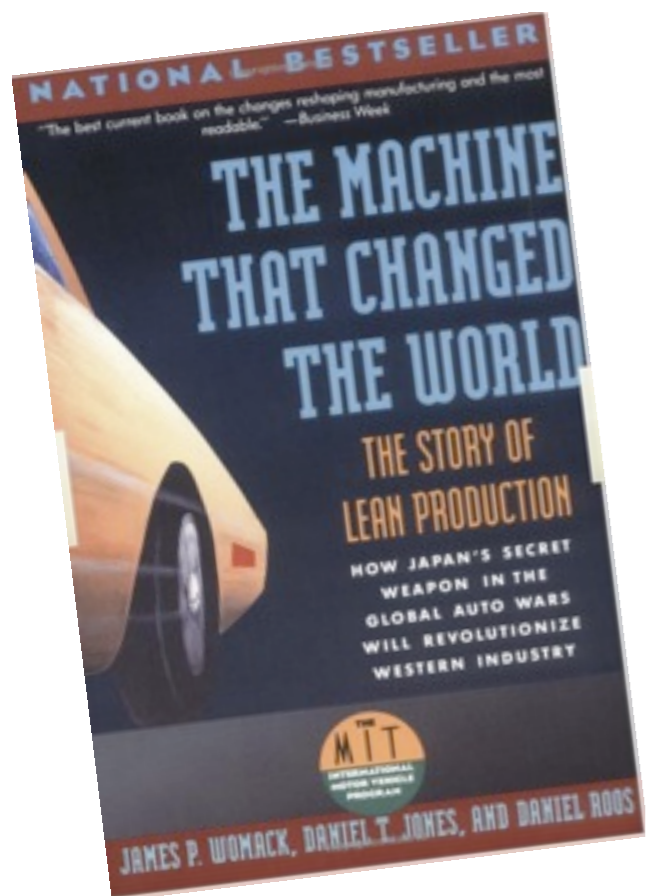
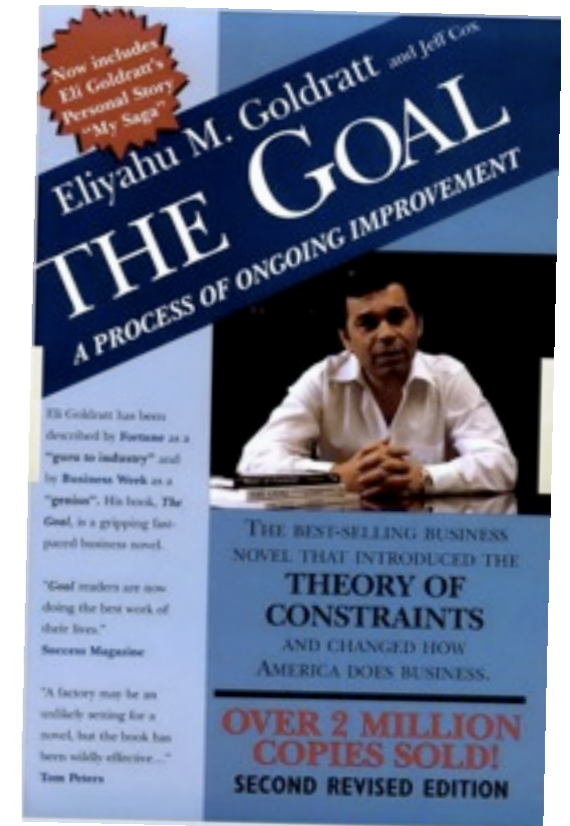
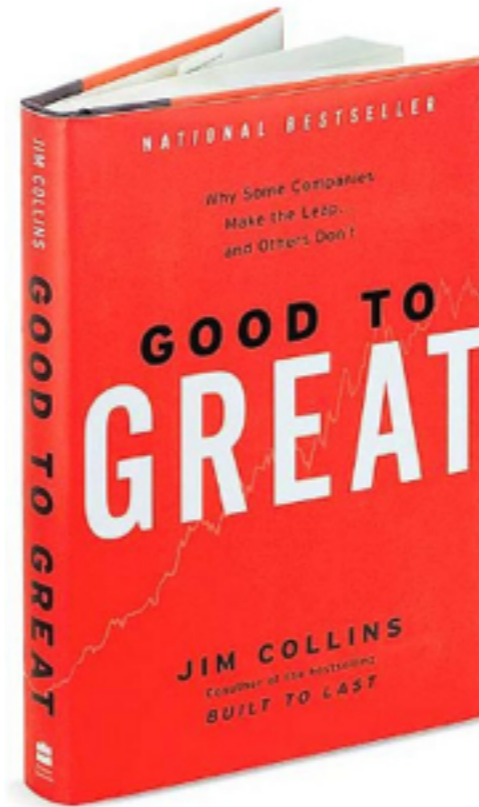
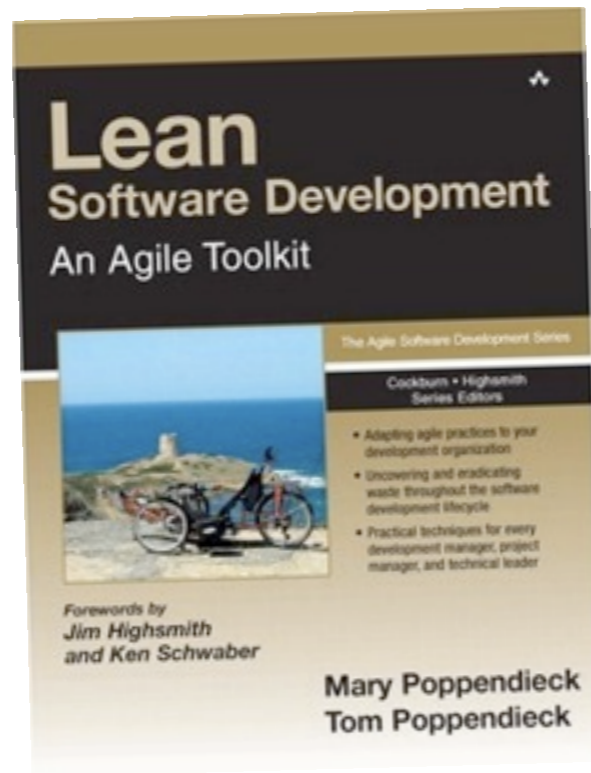
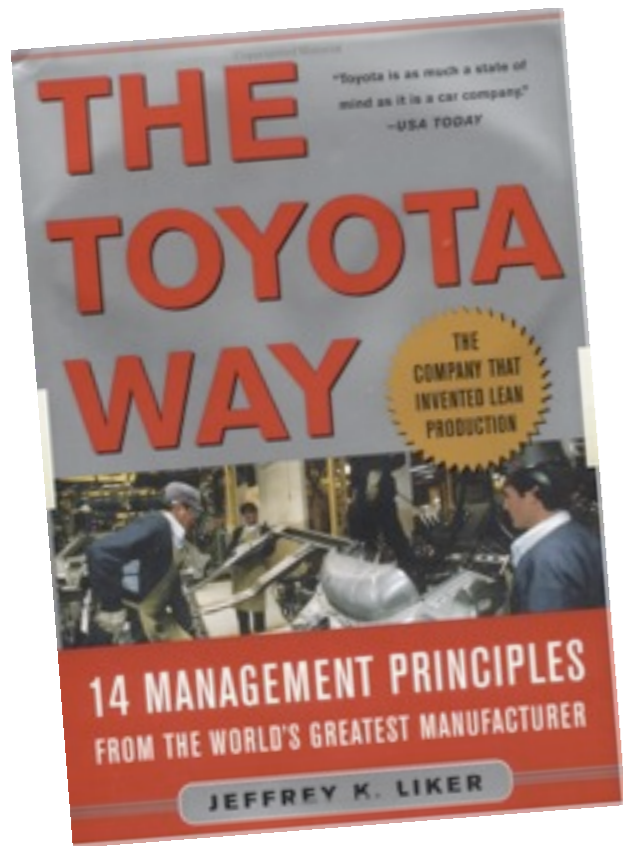
Lean?

Deming?

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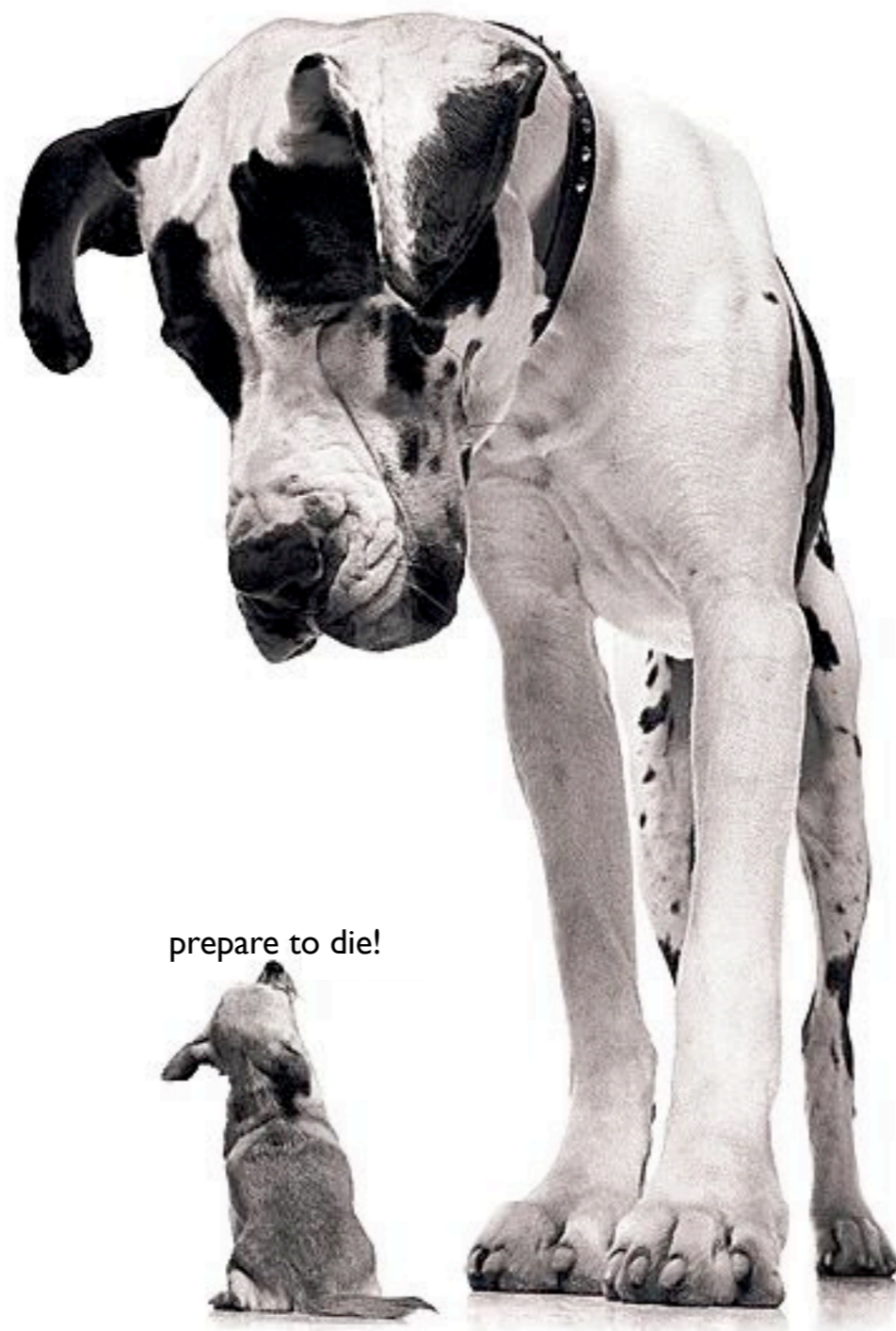


Some principles of effective product development

Embrace chaos

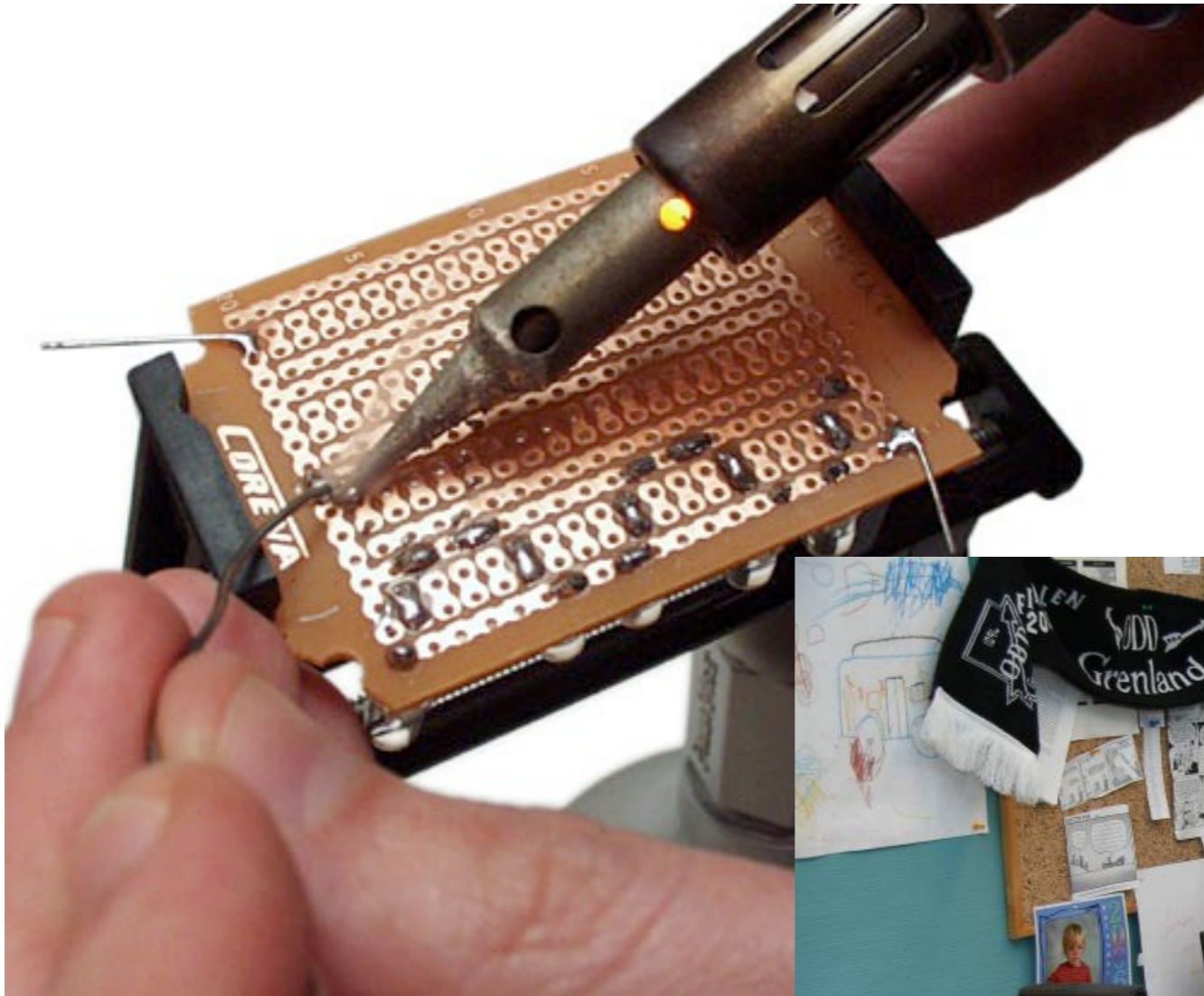


Break the rules

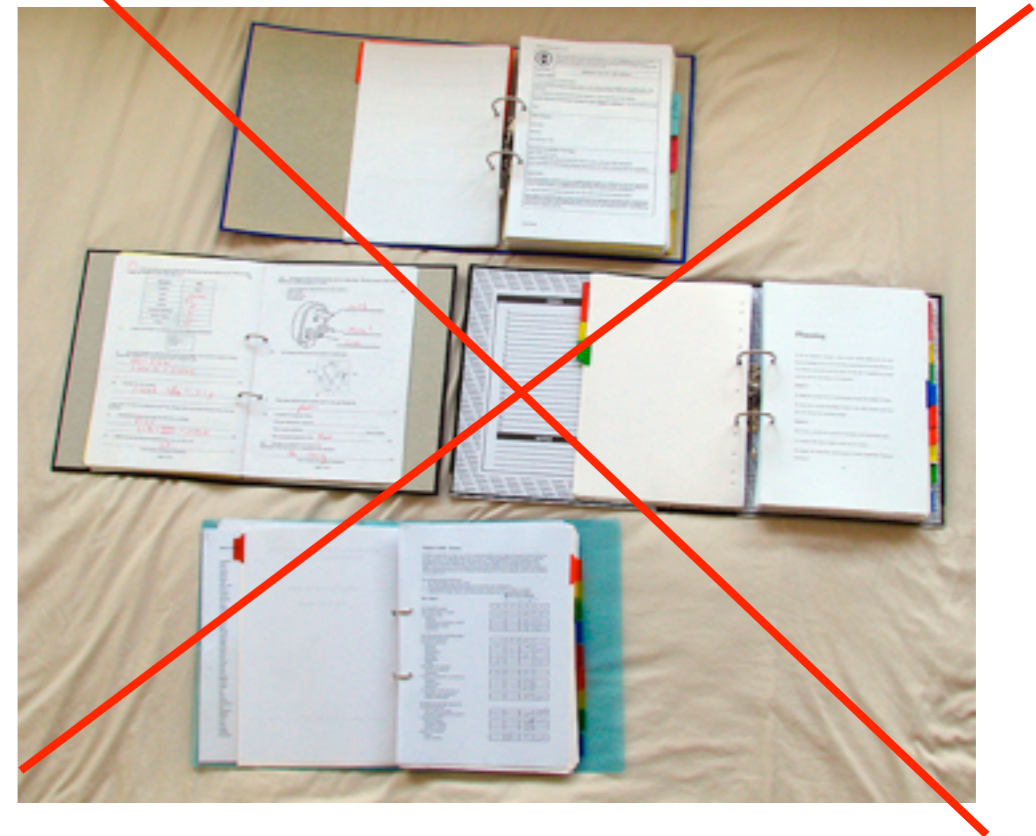


prepare to die!

Respect doers (and create an autonomous organization)



Focus on communication (over documentation)



Introduce slack



*If your company's goal is to become fast, responsive, and agile, more efficiency is not the answer—you need more **slack**. (Tom DeMarco)*



Beware the observer effect



Constrain your innovation



Reward courage (and failures)



Focus on the whole product



system thinking vs reductionism

Delay decisions (but do continuous planning)

Plans are of little importance, but planning is essential – Winston Churchill

Plans are nothing; planning is everything. – Dwight D. Eisenhower

No battle plan survives contact with the enemy. – Helmuth von Moltke the Elder



Everyone has a plan 'till they get punched in the mouth. – Mike Tyson

Aim for approximately right rather than accurately wrong

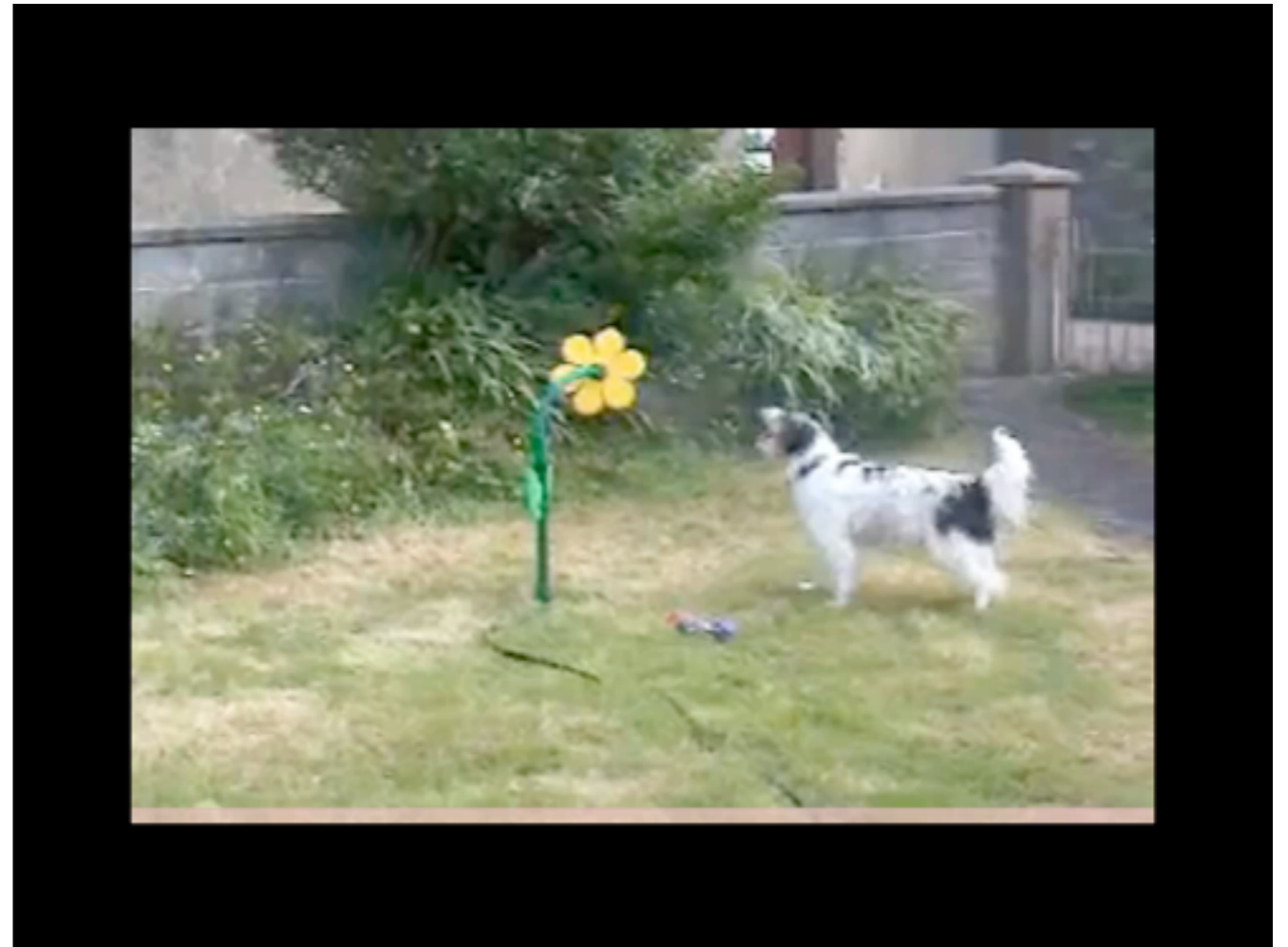
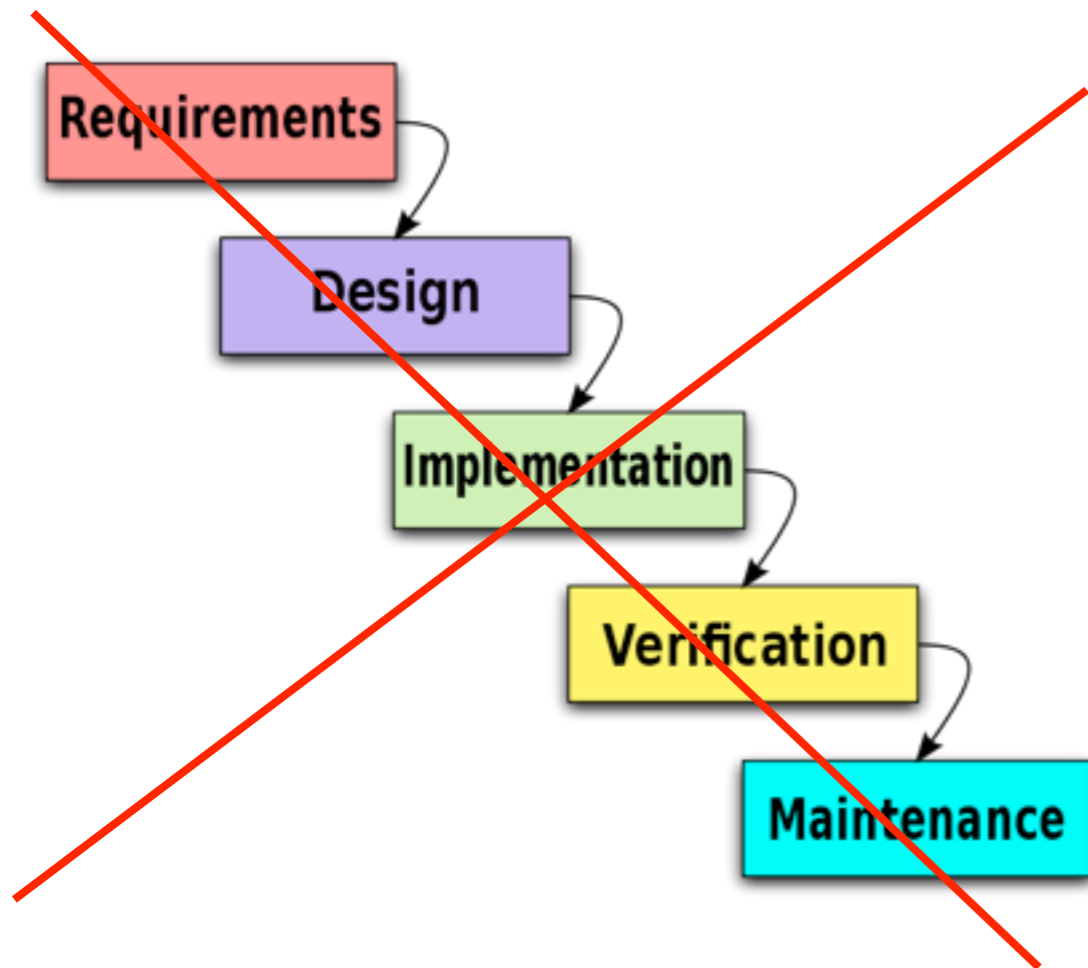


Seek early feedback

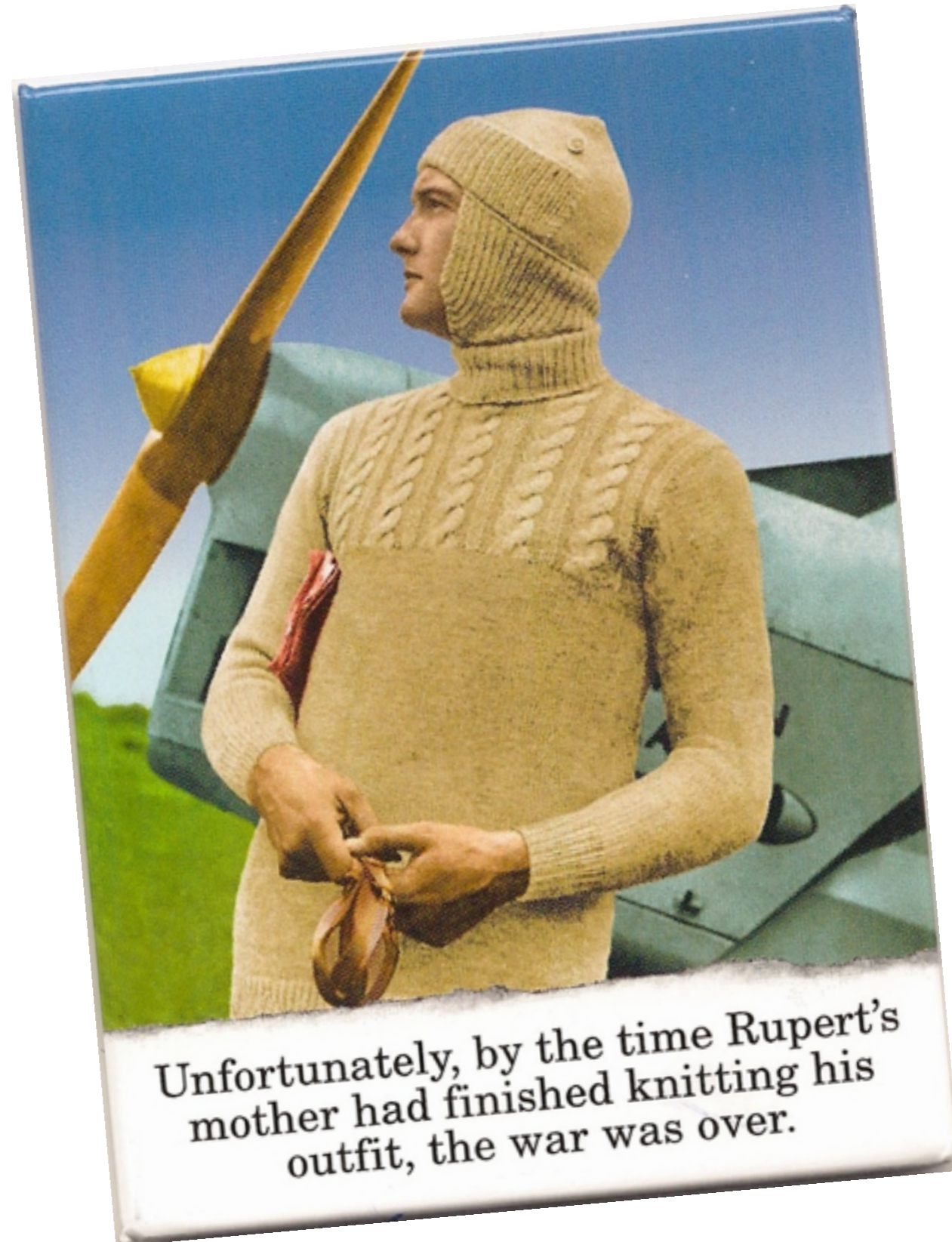


Pixar - our films are never finished, they are just released

Follow principles, not processes



Timing is everything



Unfortunately, by the time Rupert's mother had finished knitting his outfit, the war was over.

Navigating Chaos

- Embrace chaos
- Break the rules
- Respect doers
- Focus on communication
- Introduce slack
- Beware the observer effect
- Constrain your innovation
- Reward courage
- Focus on the whole product
- Delay decisions
- Aim for approximately right
- Seek early feedback
- Follow principles, not processes
- Timing is everything



Being exceptionally good at navigating chaos is the key to deliver **spectacular products**

!