Technical University of Denmark

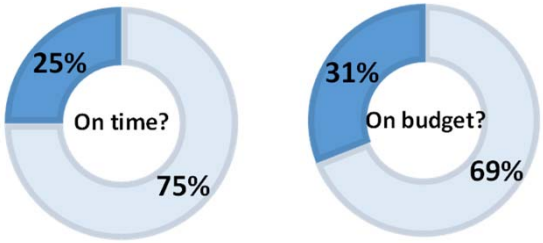
Engineering Systems
Department of Management Engineering

Robust decision making

For the management of large engineering projects

Morten Wied, PhD project

Most large engineering projects disappoint…



Share of construction projects finishing within 10 pct. of their deadline and budget. KPMG, Global construction survey (2015).

The reason could be…

Physical irreversibility
+
Unpredictability
=
Frequent project failures

I call it The Rock-Paper-Scissor Problem:

Success depends on what we do, and on conditions beyond our control;
We must act not knowing what those conditions are;
We don't get to change our minds afterwards.

So, could we solve the problem by…

Building things that succeed under any conditions?
Building things based on known conditions?
Retaining the option of changing our minds later?

In other words…

Resilient projects

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Let's Involve
Bedrebyggeprocesser.dk

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