

## COMBATTING COMPLEXITY UNDERESTIMATION

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Jessica Schilling Management Consultant - HKA

ABOUT THE SPEAKER

HK A Project Controls







### JOURNEY OF REFRAMING

#### ISO 13000, PMI Risk, RAMP, COSO Cube, COBIT 5, PRAM, Prince 2











### 2 out of 10 rail megaprojects are UNDERESTIMATED

FLYVBJERG, BRUZELIUS & ROTHENGATTER 2003:14





















Melbourne, Australia



The more **CONNECTIONS** or LINKS there are in a system, the **GREATER** the chance of VARIABILITY or even of SYSTEM BREAKDOWN.

DETTMER 2011

















SYNTHESIS



ANALYSIS







CONCLUSIONS





































#### EXAMPLE OF ADAPTIVE RISK MANAGEMENT

OPERATING RAILWAY

#### ISO 13000, PMI Risk, RAMP, COSO Cube, COBIT 5, PRAM, Prince 2











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THANK YOU FOR LISTENING



**Jessica Schilling** 

Management Consultant, HKA

