

# The 7 +/- 2 uses for an estimation tool Andy J Nolan

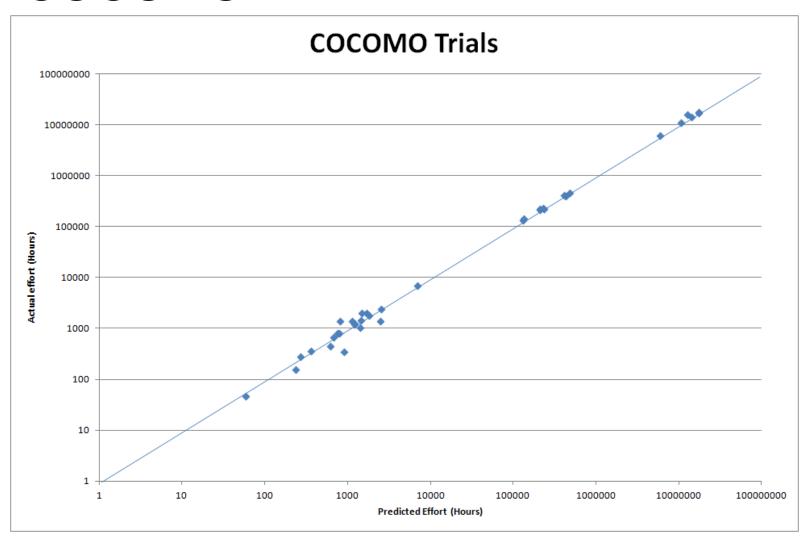
#### © 2014 Rolls-Royce plc

The information in this document is the property of Rolls-Royce plc and may not be copied or communicated to a third party, or used for any purpose other than that for which it is supplied without the express written consent of Rolls-Royce plc.

This information is given in good faith based upon the latest information available to Rolls-Royce plc, no warranty or representation is given concerning such information, which must not be taken as establishing any contractual or other commitment binding upon Rolls-Royce plc or any of its subsidiary or associated companies.



#### COCOMO





# **Thought Experiment!**

# Productivity = F(caffein)

If productivity was linked to caffeine how would this "fact" change how you run a project or business?



# 1: Project Estimation

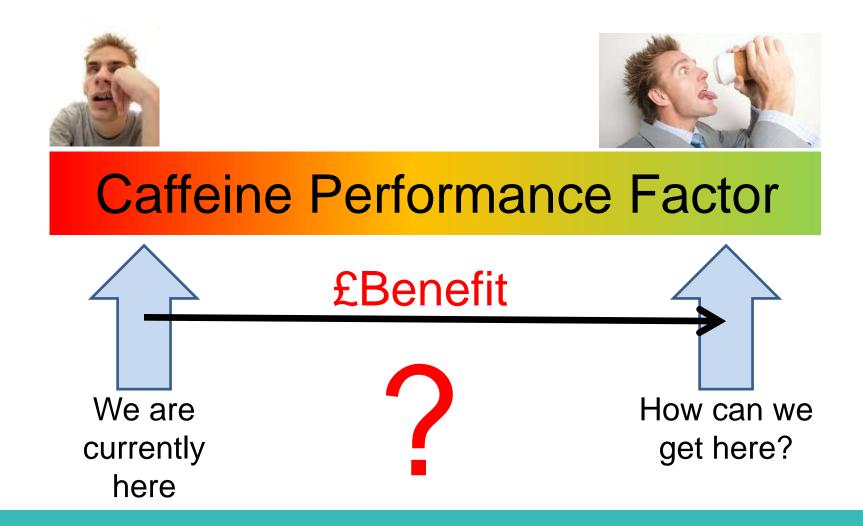








# 2: Improvements Elicitation



#### 3: Benefit Estimates







#### 4: Risk Identification







#### 5: Risk Quantification

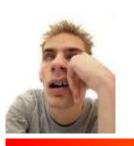




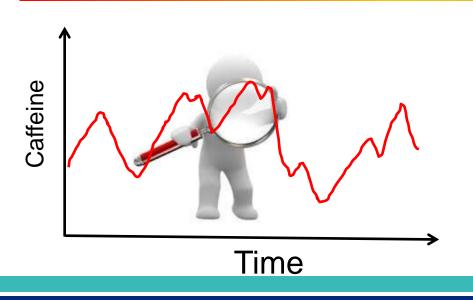


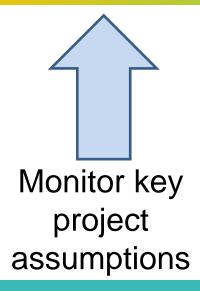


#### 6: What to Monitor?





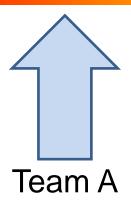


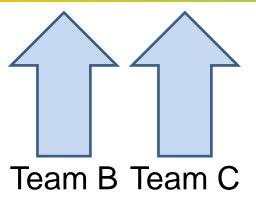


# 7: Benchmarking









# 8: Diagnostics





#### Caffeine Performance Factor



Use the factors for root cause analysis. If combined with benchmarking gives £risk & £opportunity



#### 9: Culture & Behaviour





#### Caffeine Performance Factor

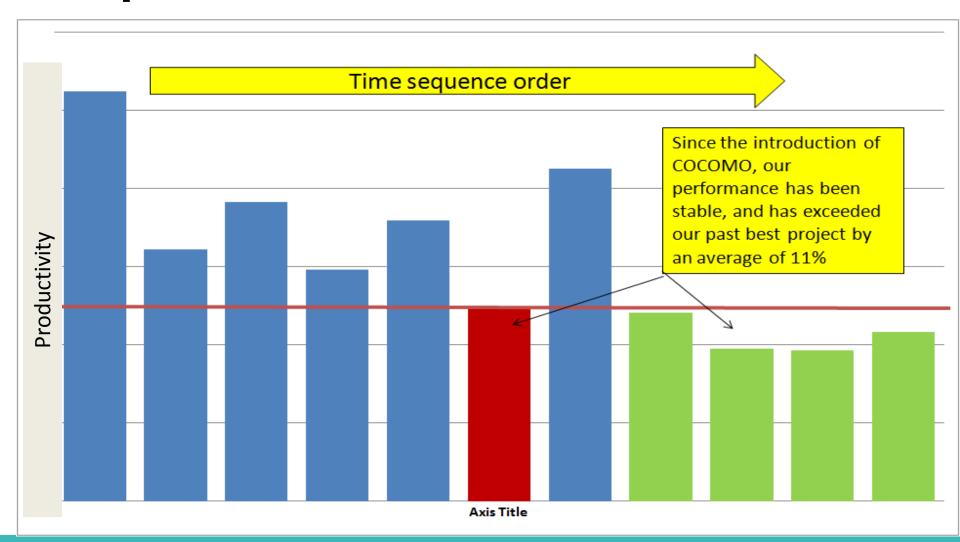


An awareness of the factors has changed how we manage our projects and business

**Improvements Stability Unstable** schedule and resource -Design Project -Systems Cost per Unit of work 900 Hours per unit of work Package of worke



## **Improvements**



1: Improved estimation and planning can bring significant £benefit

2: Estimation tools can also be used to improve the business

