



## COMBINING BEHAVIORAL SCIENCE WITH PROJECT MANAGEMENT: THE ROAD TO IMPROVEMENT

Dr. Shari De Baets 2021 Project Management Symposium





## COMBINING BEHAVIORAL SCIENCE WITH PROJECT MANAGEMENT: THE ROAD TO IMPROVEMENT

#### THE FIRST STEP ON

Dr. Shari De Baets 2021 Project Management Symposium







### Staffing

**Training** 

HR

Leadership

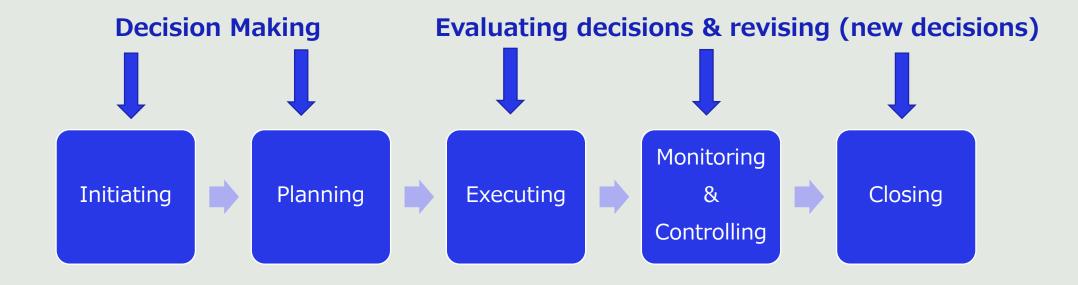
Skills



# Behavior Decision making



#### Why Decision Making?





#### Re-design

**Interfaces** 

**Processes** Design processes to account for how the brain

operates

Metrics Formulate metrics that measure human factors with project

factors

Design human interfaces around the way humans think

Train employees in debiasing methods when using processes, interfaces, and metrics

Skills



# **Behavioral Science**

#### **Decision making**

Risk

Uncertainty

As Individuals

In Group



Behavioral Project Management

#### **Decision making**

Risk

Uncertainty

As Individuals

In Group



#### PEOPLE ARE RATIONAL ACTORS

- Classic Economics (EUT)
- Forecasting methods

 Project Management Literature

#### NO, THEY'RE NOT

Behavioral Economics

Behavioral Forecasting

Behavioral Project
Management





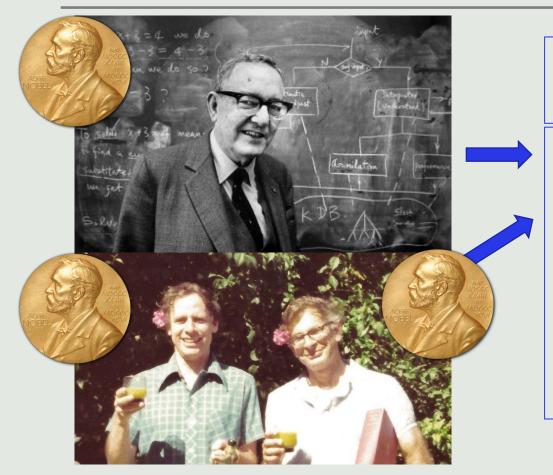
#### NO, THEY'RE NOT

Behavioral Economics

Behavioral Forecasting

Behavioral Project
Management





#### NO, THEY'RE NOT

Behavioral Economics

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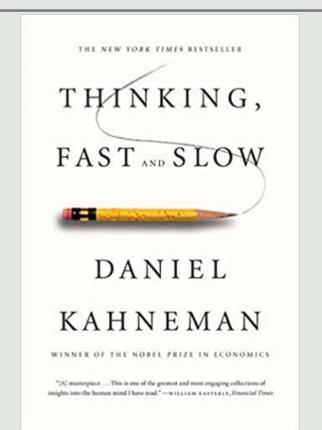


SYSTEM 1

Fast

Reflexive

Intuitive



SYSTEM 2

Slow

Conscious

Deliberate







MENTAL SHORTCUTS



**FAST REACTIONS** 









MENTAL SHORTCUTS



**COGNITIVE BIASES** 

≠ Stereotypes / prejudice!





Is the percentage of African countries in the United Nations above or below 10%?

What is the percentage of African countries in the United Nations?





Is the percentage of African countries in the United Nations above or below 65%?

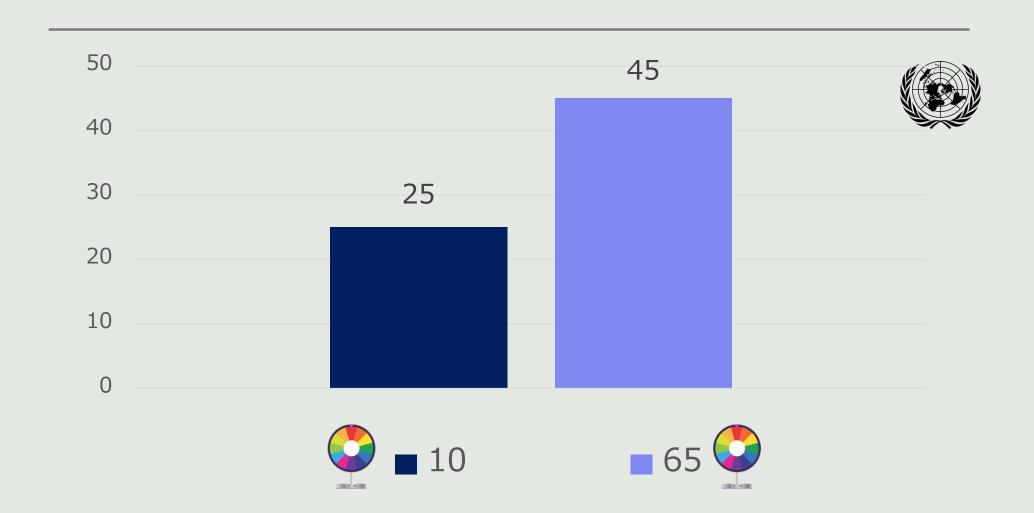
What is the percentage of African countries in the United Nations?













-> estimation



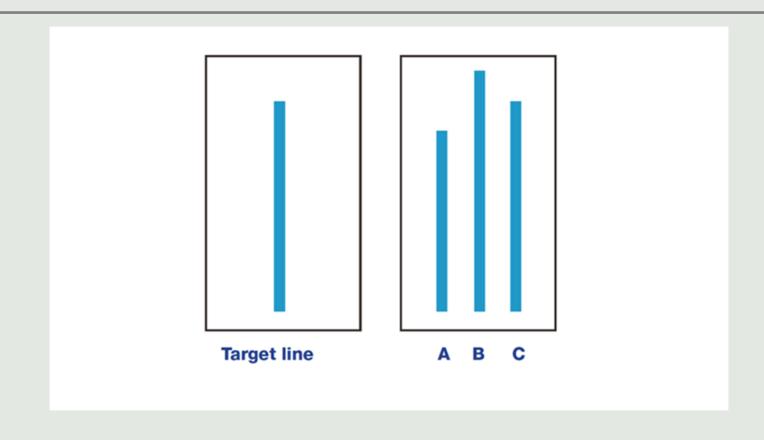
Anchoring bias: Initial value

Example: estimations of values in your initial business case

- Project duration
- Resources
- Costs



#### Decision Making - in group





#### Decision Making – in group





#### Decision Making - in group





#### Decision Making – in group





#### Decision Making - in group





#### **Cognitive biases**

https://en.wikipedia.org/wiki/List\_of\_cognitive\_biases

Belief, behaviour and decision making biases: 111

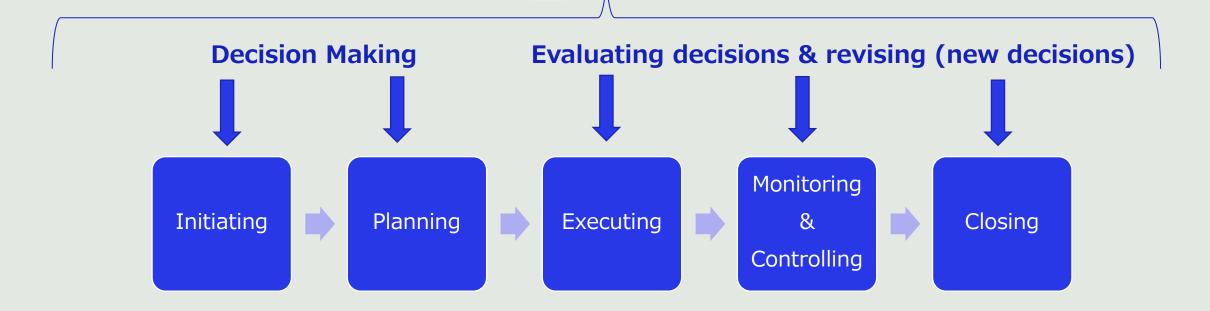
**Group biases: 42** 

Memory biases: 45



#### Why Decision Making?

**Opportunities for cognitive biases** 





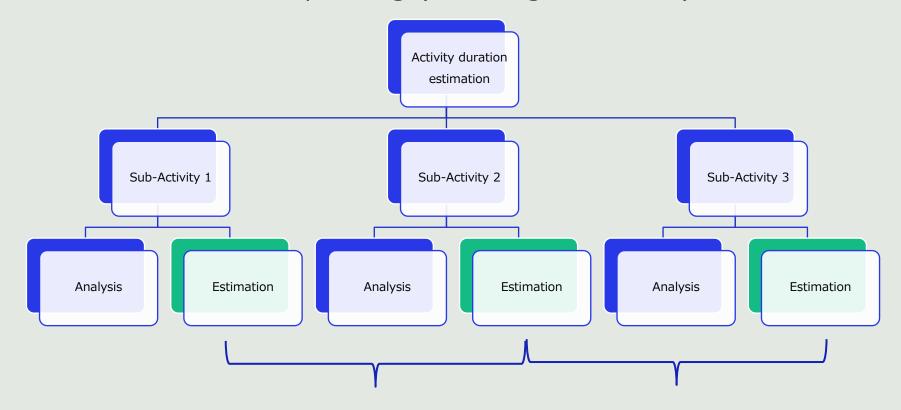
**PMBoK** 

Planning fallacy (& optimism bias):

Unrealistic planning

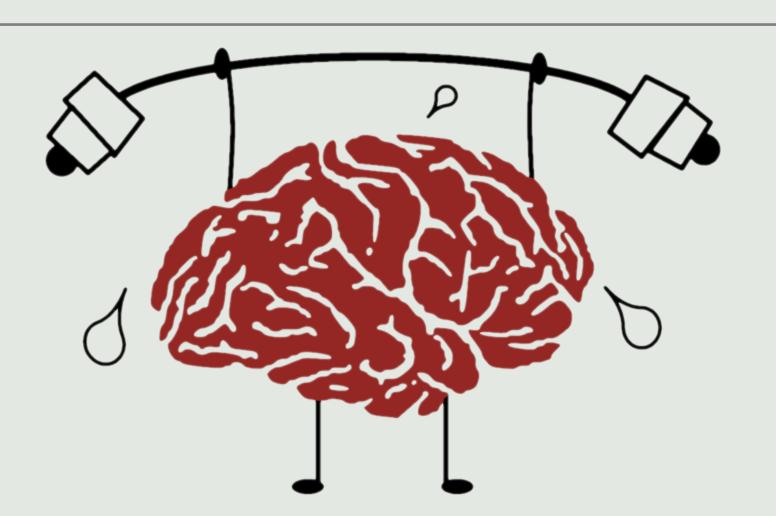
Activity duration estimation

Countermeasure: unpacking (task segmentation)



"The First Step on the Road to Improvement"





#### Want to know more?



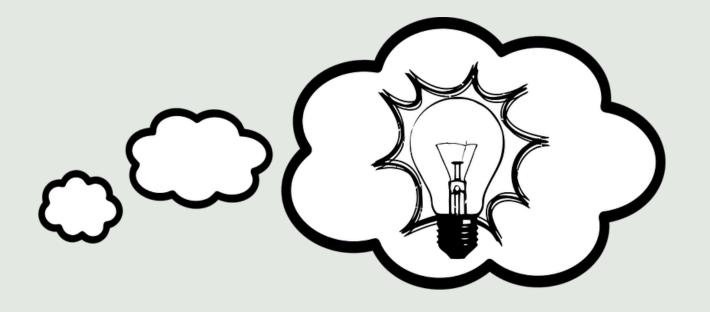
Project Management Planning, Forecast & Risk

# NEURALPLAN®

Designed Around the Brain





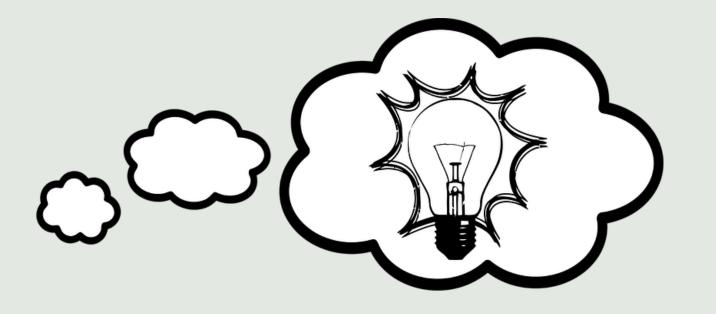


Joshua Ramirez, PMP, MSM, NPPQ





Joshua Ramirez, PMP, MSM, NPPQ







Shari De Baets, PhD, NPPQ

Course with Accreditation (NPPQ)

Manual:

Behavior in PM

Science-based





#### Want to know more?



https://www.nbpmi.com/



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