Project Management Symposium

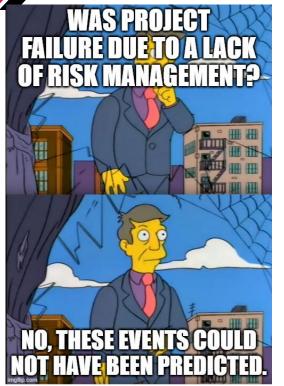
Risk: Muse and Metrics Jon M Quigley







Poor Risk Management



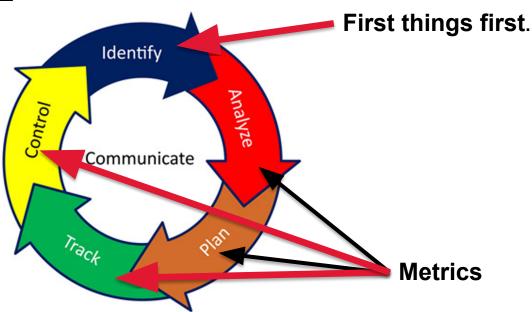
- Little time exploring what can go wrong
- No metrics
- Poor monitoring (continuous)
- Risk register collects dust



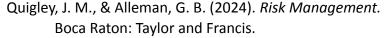




Risk Management Processes



- Identify (continuous)
- Importance of metrics
- Decisions







>

Introduction



https://www.britannica.com/biography/Aristotle

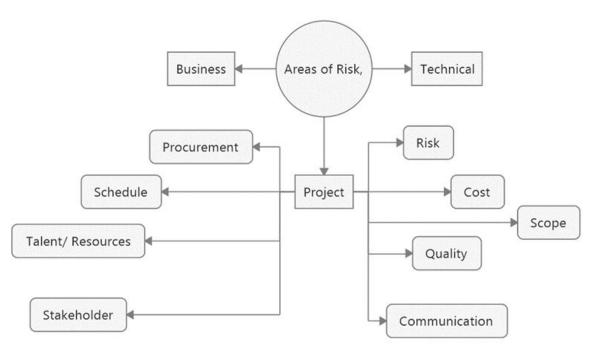
"Well done is half done" ~Aristotle

Strategies and tactics.





The things can go wrong



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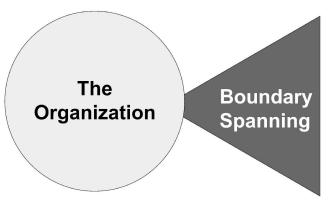
2024 Project Management Symposium







Project and Strategy Selection



Competition
Competitive forces
Technical advances
Social trends
Economic trends
Industry trends
Regulatory changes

The number of things that must go well for the project to be successful

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Strategy Selection

IF EVERYONE IS THINKING ALIKE, THEN SOMEBODY ISN'T THINKING

GEORGE S. PATTON

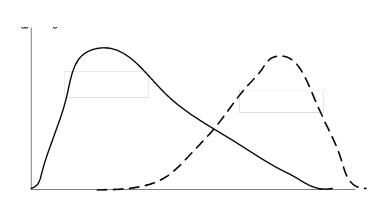


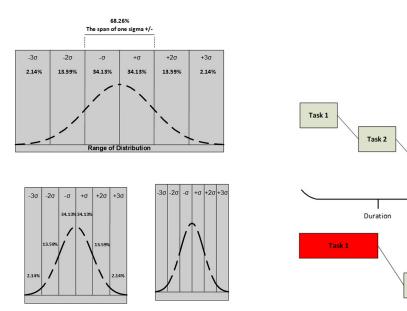


Task 3

Task 2

VARIATION





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Task 3





The muse

- 1. Calliope: Muse of Epic Poetry
- 2. Clio: Muse of History
- Euterpe: Muse of Music and Lyric Poetry
- 4. Thalia: Muse of Comedy and Idyllic Poetry
- 5. Melpomene: Muse of Tragedy
- 6. Terpsichore: Muse of Dance
- 7. Erato: Muse of Love and Erotic Poetry
- 8. Polyhymnia: Muse of Sacred Poetry
- Urania: Muse of Astronomy and Astral Poetry



The Muses https://greekreporter.com/2023/07/04/muses-of-greek-mythology/





Clio: The Muse of History

- Learning from the past
- Historical data
- Trends and patterns

Caution: history does not necessarily repeat







Melpomene: The Muse of Tragedy

- Dangers that lurk in our pursuit.
- Confront and mitigate
- Identify potential risks
- Robust risk strategies



https://www.greekboston.com/culture/myth ology/melpomene/





- Sometimes, work life may seem like a joke (Dilbert cartoon).
- Jovial spirit
- Humor in the face of adversity
- Embrace challenges







Terpsichore: The Muse of Dance

We tap dance and sidle our way through the project risk minefield

- Collaboration
- Communication
- Agile and Flexibility



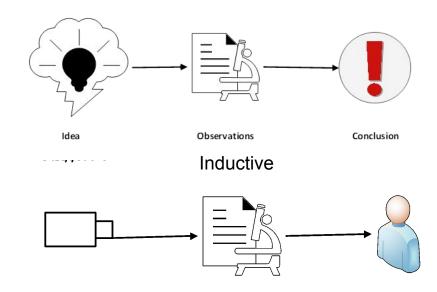




- Experience
- Scenario based
- Check lists
- Pre-mortem

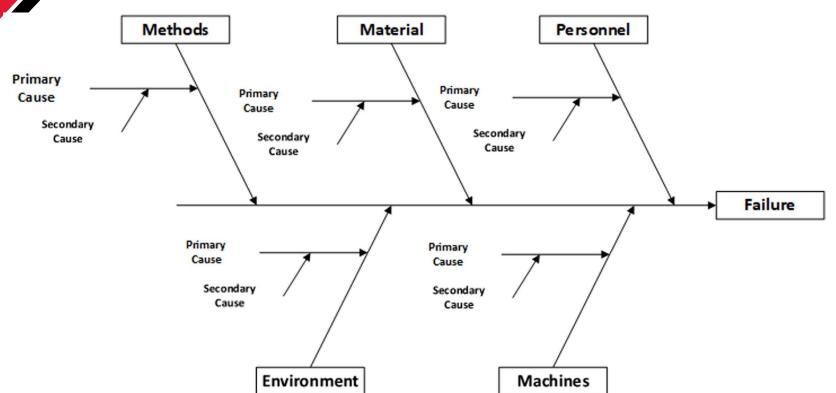
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Deductive



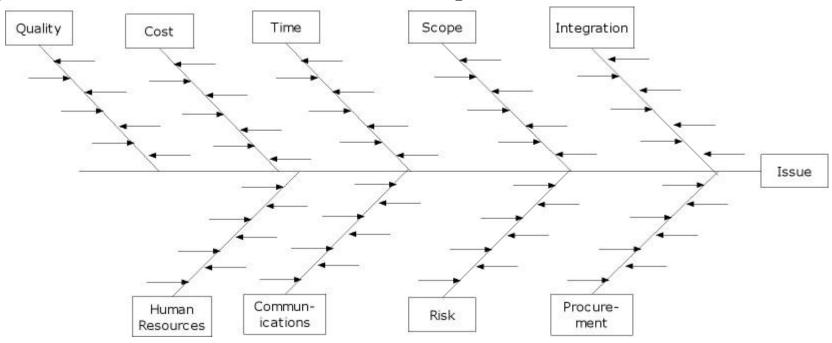


Ishikawa? For Risk?





Identification Example







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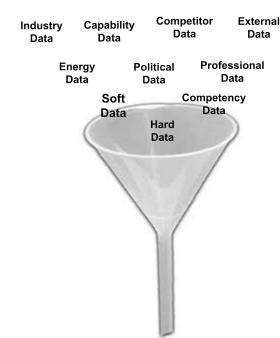
Importance of thorough analysis in understanding potential impact Prioritizing risks based on potential damage and likelihood Utilizing risk assessment tools and methodologies

MIL_STD_882E





- Avoid
- Mitigate
- Transfer
- Accept (do nothing)
- Accept (metrics, monitor and review)
- Contingency plan
- Some folks say exploit...



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Measurements

Measure what is measurable and make measurable what is not so.

~Galileo Galilei



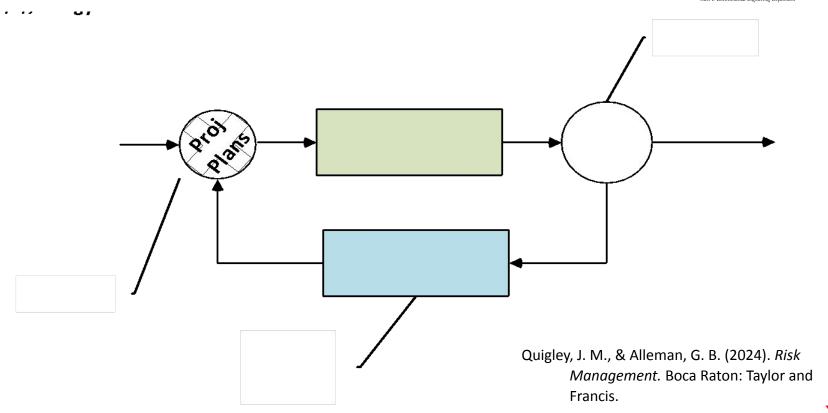




- Establishing a robust tracking system for identified risks
- Regular monitoring to identify early warning signs
- Case studies showcasing successful risk tracking and mitigation

Metrics and Control









Setting up Metrics

$$\sigma^2 = \sigma_p^2 + \sigma_s^2 + \sigma_m^2$$

 σ_{S} = variation due to sampling

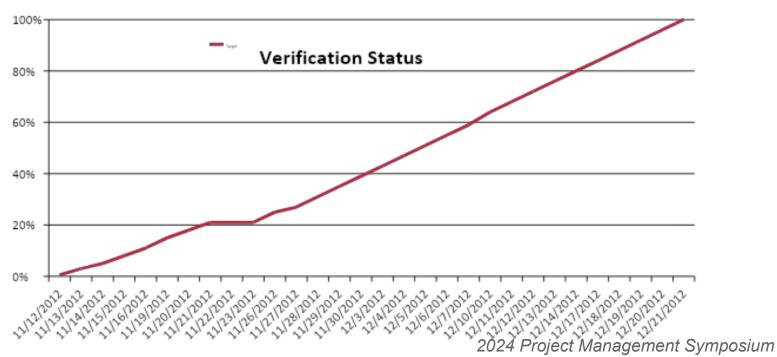
 σ_p = variation due to process

 σ_m = variation measurement reproducibility





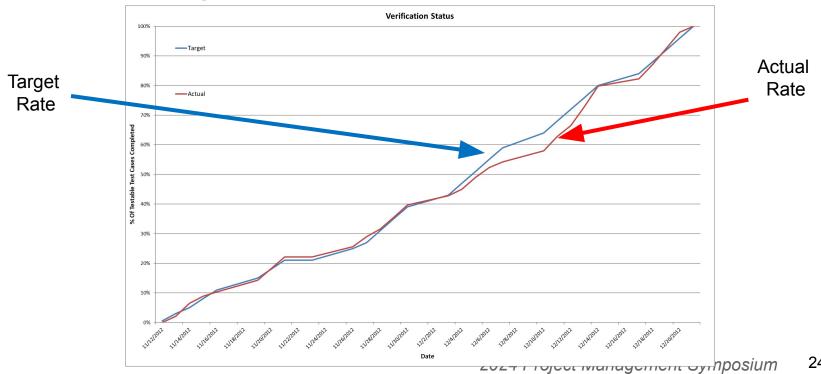
Metrics - A Project Story





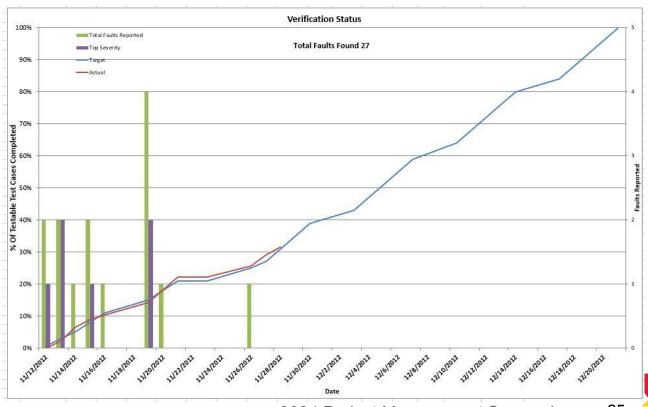


The Story Continues













Measure what is measurable and make measurable what is not so.

~Galileo Galilei











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336-963-0119