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progress with confidence

Advanced Planning & Scheduling Techniques

Presented by: Robbie Breschkin

Robbie.Breschkin@tbh.com.au

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Who We Are

1 team

diversified expertise, dedicated to providing you with innovative and practical solutions

80%

of our business today is from returning satisfied clients – a reflection of the trust they place in us

50+ years

of undisputed project excellence shaped us as leaders in the industry today

8000+

projects to our credit from across the globe so you can progress with confidence

Our Services

- Project Planning and Scheduling
- Integrated Project Controls
- Claims and Dispute resolution
- P3M
- Project Management
- Cost Management
- Risk Management

Agenda

Schedule Risk Analysis

- Overview
- Baseline vs Actual
- Common Biases

Schedule Controls in an Agile World

- Similarities to Infrastructure
- Measuring Progress and Performance
- Does Agile have a Critical Path

Schedule Risk Analysis

Overview

SRA can be used to determine a range of dates for Project Completion or for a key Milestone;

The greatest benefit of SRA is as a significant component of project Risk Management, both at the time, and throughout the life of the Project.

Context provided by a Schedule Risk Analysis (SRA)

- A Date Range or the % Likelihood of achieving a Key Milestone
- How sensitive is the business case or financial decision to these dates?
- How narrow or wide is the date range?
- How much contingency do you have to allow to avoid penalties?
- What are the most influential activities and risks

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When can you conduct a SRA

- Client side pre-tender
- Contractor side to assess Risk during a Tender bid
- Due diligence for Financiers
- Midway through a project to re-evaluate where the project is going to end up

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Common Pitfalls in Modelling

- Narrow Results
- Pessimistic Results

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Common Causes of Inaccurate Results

- Detailed Models
- Calculating Ranges Based on %
- Modelling Duration vs Critical Path Impact
- Convergence
- Mitigation
  - Concurrency
  - Resequencing

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Discussion

Project Controls in an Agile World

Comparison to Infrastructure

Time, Cost and Scope still need to be managed and can be compared with a long distance infrastructure projects

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Real Time Progress Charts

provide deep insights into progress and risks

a. Understand team working style (e.g. frequent incremental completion vs bulk completion at the end)

b. Understand where the bottlenecks are and foresee potential risk and/ or blocker (i.e. elaboration, development, testing)

c. Understand whether there is scope clarity and scope changes are under control

d. Understand work progress and predict when commitment is likely to be achieved

Program Roadmap

provides strategic direction and longer term planning

- Provides Strategic Direction (12 months +)
- Identifies Long Lead Items
- Manages Internal and External Dependencies
- Facilitates Rapid Replanning in line with Business Priorities

Discussion

Thank you

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