Abstract Title	**Introduction to Project Schedule Risk Analysis**
Presentation Type	**Masterclass**
Full Name	**Santosh Bhat**
Job Title	**Director**
Organisation	**Australasian Project Planning**

Introduction

This workshop will provide participants an introduction to Quantitative Schedule Risk Analysis

Abstract

This workshop will provide participants an introduction to Quantitative Schedule Risk Analysis and cover topics such as:

- Why projects are uncertain
- How time risks can affect project schedules
- Techniques and tools to analyse these risks
- Understanding and communicating these results.

Participants will be provided a trial version of a leading Risk Analysis tool and sample data to follow worked examples.

Delivered remotely, the minimum required attendees for this will be 5.

Assumes understanding of scheduling and risk management concepts (but not at an advanced level)
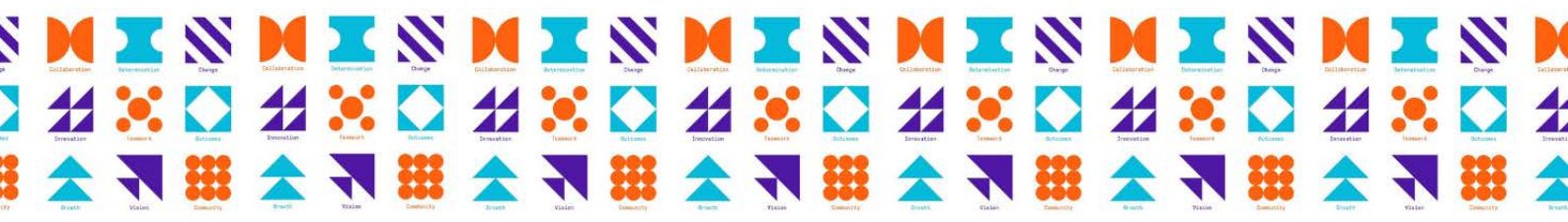
Speaker Profile(s)

Santosh Bhat is a civil engineer and has been planning and scheduling for over two decades across a range of projects in the Australasian region. Having worked across a diverse range of project and corporate planning and controls roles for major construction contractors, including governance, assurance, systems and knowledge management.

Based in Sydney, Australia Santosh now operates as an independent consultant offering planning, scheduling and schedule risk analysis services and is also Co-Founder of Linear Project Software, developing the Time Location charting application "Turbo-Chart".

Acknowledgements

Reference links

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Item	Time/Total	Description
1	5min/5	Welcome+ Setup
2	15min/20	Presenter Introduction Masterclass Overview Objectives Attendee introduction - Name, Industry, Objective
3	5min/20	Exercise Journey to Work, Estimate duration for steps
4	15min/35	Intro to Schedule Risk analysis - Why do we need SRA? - What is Schedule Risk Analysis and what are the outcomes? - When to perform Schedule Risk Analysis?
5	5min/40	Exercise -Provide examples of when projects have taken much longer than expected. Why? Was there any contingency in place? - Journey to work, what might be different to originally planned steps?
6	10min/50	SRA Model Inputs SRA Inputs – Schedule and considerations
7	10min/60	SRA Inputs – Risks and Risk Impacts - Sources - Biases
8	10min/70	Exercise Journey to work example – add risk values, and impacts Calculate Shortest Duration, Longest Duration
9	10min/80	Introduction to Monte Carlo Simulations - Schedule Example - Understanding Distribution Histograms
10	10min/90	Exercise Journey to work in SRA Software -Launch Software -Open schedule -View Key Inputs Schedule/Risks -Run Monte Carlo Analysis -Review Results
11	15mins/105	MID-BREAK + Resolve any Issues in Software
12	15mins/120	Duration Uncertainty Risk Drivers - Types of Risks -Uncertainty vs Discrete - Aggregating Risks
13	10mins/130	Exercise -Build Risk Register -Assign to Tasks -Run Analysis
14	10mins/140	Exercise – More Complex Example (Tunnel Project) -Open Project
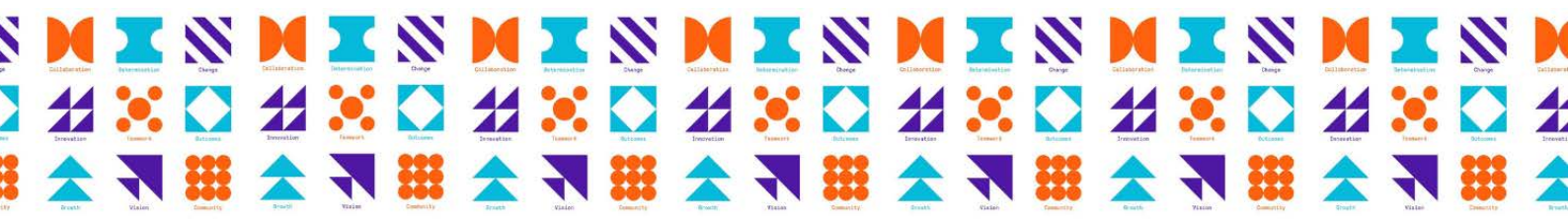
		-Review Schedule (Completion Date) -Review Risks -Run Analysis

15	10mins/150	Calendar Risks (Brief)
		SRA outputs
		   - Distribution Comparison
		   - Tornado Graphs
		   - Risk Adjusted Schedules

16	10mins/160	Exercise
		   - Scenarios, Turn on/off risks adjust values
		   - Distribution Comparisons

17	10mins/170	Reporting Results Conclusion, review of objectives