

# Online Integrated Strategic Planning Seminar

The Integrated Strategic Planning Seminar, delivered online over 4 consecutive half days, comprehensively explains the philosophy and methodology behind Whittle Integrated Strategic Planning.

## Seminar outline

Integrated Strategic Planning is regarded as best practice in the mining industry. The online Seminar comprehensively explains the philosophy and methodology behind Whittle Integrated Strategic Planning. It includes an explanation of the processes involved and the benefits derived from developing a Whittle Enterprise Optimisation model.

The online seminar explains the 10 distinct Steps in a Whittle Enterprise Optimisation model including: pit/underground, phases, mine schedule, cut-off, blend, stockpiles, processing, product mix and specification, logistics and capital. When applied simultaneously these mechanisms produce extraordinary results. Important new techniques and concepts for the mining industry are also explored. These theories include Activity Based Costing (ABC) and Theory of Constraints (TOC). The end result is a powerful analytical approach to decision making across all aspects of a mining operation or project and is equally applicable to both open pit and underground mining projects & operations.

## The 15 most common reasons for undertaking Whittle Integrated Strategic Planning

**Whittle Integrated Strategic Planning is frequently undertaken to:**

- 1 Improve cash flow
- 2 Increase Net Present Value (NPV)
- 3 Support Pre-feasibility Studies (PFS) or Feasibility Studies (FS)
- 4 Guide investment decisions
- 5 Raise finance
- 6 Achieve sustainable operations
- 7 Respond to market and contextual changes
- 8 Perform Due Diligence (DD) and/or validate current plans
- 9 Design management processes and systems
- 10 Focus Big Data
- 11 Identify bottlenecks and leverage points
- 12 Embrace complexity
- 13 Enable Business Improvement (BI)
- 14 Rescue distressed assets
- 15 Harness innovation

## Who are Whittle Consulting?

Whittle Consulting are the leaders in the field of Integrated Strategic Planning. Since 1999, Whittle Consulting has conducted over 180 Whittle Enterprise Optimisation studies for mining companies worldwide. These studies have repeatedly improved the economics of a mining project or operation from 5%-35%, and in many cases substantially more. These results are achieved even after conventional mining optimisation techniques have already been applied.

## Seminar facilitator - Gerald Whittle, CEO, Whittle Consulting

As the CEO of Whittle Consulting, Gerald has worked in the mining industry for the past 20 years. A recognised thought leader on mining optimisation, Gerald has presented the Integrated Strategic Planning seminar to over 4,000 delegates worldwide. A qualified accountant and an experienced CFO, he has over 35 years in business planning, analysis and change management.



## Seminar Dates

Please visit our website for seminar dates at [www.whittleconsulting.com.au/seminar](http://www.whittleconsulting.com.au/seminar)

*“A unique approach to optimising project value and cash flow returns...this is well worth attendance & highly recommended.”* **John Meyer, SP Angel, London.**

*“It is no exaggeration to say that the techniques presented constitute one of the most significant innovations that I have seen in almost 30 years of experience in the mining industry.”* **Peter Knights – Professor of Mining, University of Queensland.**

# Online Integrated Strategic Planning Seminar Seminar Program

The seminar is delivered online, over 4 consecutive half days (4 hours per day)

## Seminar Outline Day One

### 1. INTRODUCTION

- Introductions/Objectives/Participation/Workbooks
- Creating Value
- What is Optimisation?
- Integrated Strategic Planning

### 2. OPTIMISATION STEPS 1 – 4

- Open Pit Case Study: Introduction
  0. Base Case life of mine plan
  1. Pit optimisation: Lerchs-Grossman
  2. Phase/pushback selection
  3. Mine schedule
  4. Cut-off grade: Ken Lane

## Seminar Outline Day Two

### 3. OPTIMISATION STEPS 5 – 10

5. Blending
6. Stockpiles
7. Process plant calibration (grind/throughput/recovery)
8. Product specification
9. Logistics
10. Capital scaling implications

### 4. UNDERGROUND CASE STUDY

- Grade tonnage curves
- Stope design criteria
- Mine scheduling
- Variable cut-off strategies
- Maximising value

## Seminar Outline Day Three

### 5. ACTIVITY BASED COSTING (ABC)

- Types of cost accounting
- Traditional fixed/variable/capital costs
- Activity Based Costing
- Identifying attributable, period, capital costs
- Frontline, support, backline activities
- Examples

### 6. THEORY OF CONSTRAINTS (TOC)

- The production line, impact of bottlenecks
- Theory of Constraints (TOC): Eli Goldratt
- Mining case study
- Recommendation 1: Defining constraints
- Recommendation 2: Treatment of period costs
- Recommendation 3: Grade control methodology/Grade Bins

## Seminar Outline Day Four

### 7. SUSTAINABILITY

- The "Five Capitals" – Sustainable Development Balance Sheet
- SUSOP – Sustainable Operations
- Integrating EO/SUSOP

### 8. RISK & UNCERTAINTY

- Sources of uncertainty
- Modelling uncertainty
- Measuring the impact of uncertainty
- Monte Carlo and Optimisation
- Real Options
- Hedging

### 9. IMPLEMENTATION & CONCLUSION

- Technical barriers – data, software
- Organisational/human barriers – "It's a Minefield"
- Strategic to Tactical operational considerations
- The ideal planning process – when and how?
- Where to next?

## Seminar participants

Over the past decade the seminar has been attended by over 4,500 senior mining executives, geologists, mining engineers, process engineers, metallurgists, logistics managers, department, divisional and project managers, institutional mining fund investors, financial analysts and project financiers worldwide.

Ideally, senior managers across all business disciplines from the one company should attend together, as the seminar presents the benefits of cross-functional collaboration. In our online seminar, managers from different locations can now easily participate together in the virtual seminar space. Should it be of interest, in-house seminars can also be conducted online.

Please note this is not a software course but a strategic mining integration and optimisation learning experience.

## Seminar Registration

Seminar registration information available at  
[www.whittleconsulting.com.au/seminar](http://www.whittleconsulting.com.au/seminar)

**Enquiries:** Email [seminar@whittleconsulting.com.au](mailto:seminar@whittleconsulting.com.au)

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## Seminar Partners

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