

EMP development process – a constructor / miners view

2 November 2006



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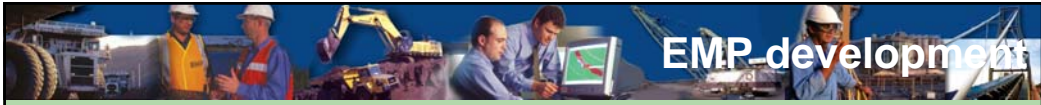


Introduction

- Is an EMP part of something else and where does it belong?
- What does a good EMP consist of?
- What are some of the things to consider in an EMP?
- What's the future for EMPs?

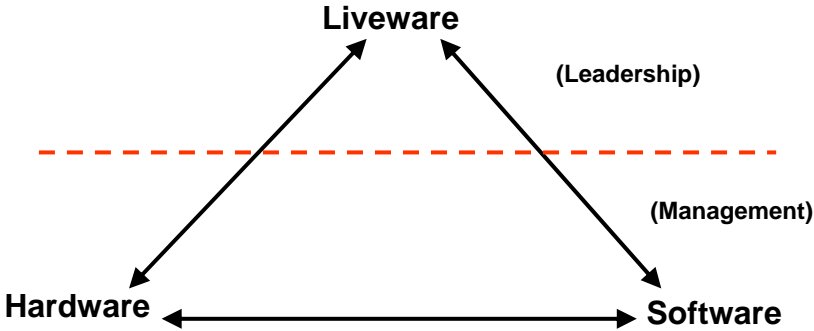


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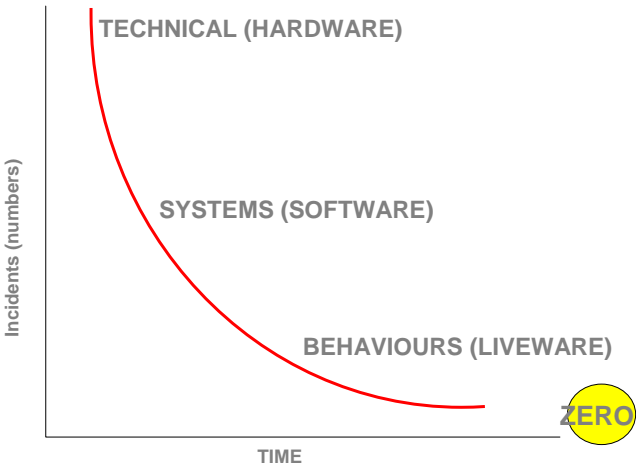
EMP development

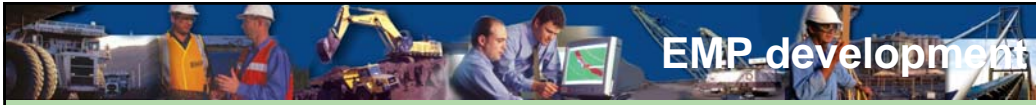
Swiss Reinsurance Company (model)



EMP development

Tools to reach zero harm?





EMP development

EMP essentials

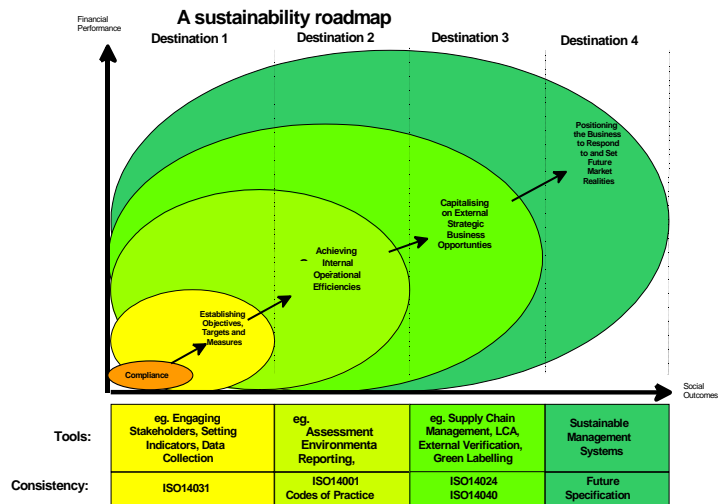
- EMPs are part of a management process (system), e.g. the environmental planning part of the conventional PDCA cycle
- EMPs must deliver environmental outcomes



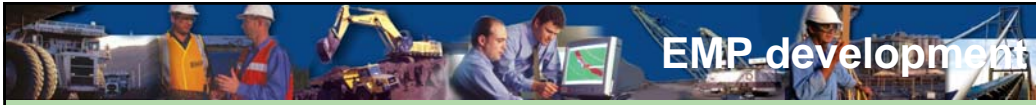
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Typical project stages

- Identify / plan
- (Bid)
- (Start-up)
- Design
- Construct
- Commission
- Operate

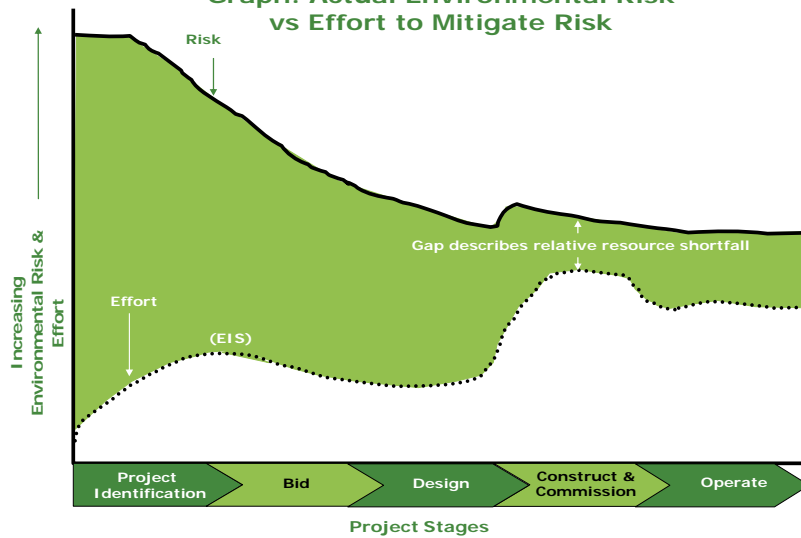


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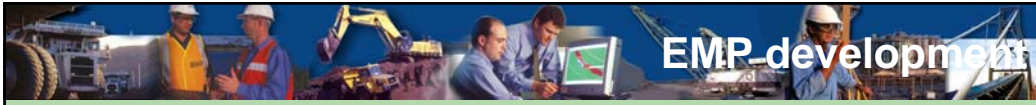


EMP development

Graph: Actual Environmental Risk vs Effort to Mitigate Risk



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EMP Future

- Must be efficient and workable, e.g. focus on EPs, while being interconnected
- Must deliver outcomes sustainably
- Must focus more on key risks and opportunities; i.e. identification (EIS) & design, rather than construction and operation
- Will increasingly be challenged by leadership and behavioural tools so need to absorb them

