Capability Guidance	Three Approaches to	Risk	la	nageme		
Background	The most common approach to project risk management is to manage individual risks recorded and assessed in a project risk register. Although this approach is relatively simple and likely to add value if implemented competently, it should not be assumed to be best practice. There are alternative approaches that have the potential to add more value. A project with high risk management capability will recognise this and select tools and techniques appropriate to circumstances and purposes of the project.					
Approach 1:	This approach can be used from the outset of a project. It is based on the principles that:					
Top-down multi-pass process	1. One needs to start with a high level understanding of the project to be confident that overall project risk is understood, quantified and managed in an appropriate and rational manner.					
	2. The risk management process should address the key questions that require risk-based decisions.					
	3. Key risk questions may change from one pass of the risk management process to the next dependent upon insights gained from the previous pass and other events that have occurred in the meantime.					
	4. Risk management techniques should be selected to address the key questions – different techniques may be required during successive passes of the process.					
	5. These techniques can be used to optimise dec	he project solutic	on.			
	Advantages	Example techniques				
	Can be used from project commencement	Simple first r	Simple first pass risk models Parametric cost forecasting		NPV risk modelling	
	Supports fundamental project decisions	Parametric o			Project strategy risks	
	Underpins a rational approach to the process	Uncertainty-Importance Matrix Stakeholder analysis		oortance Matrix	Decision trees	
	Efficient identification of key insights			alysis	Influence diagrams	
Approach 2: Quantitative risk-based forecasting	 h 2: This approach involves modelling the implications of a project plans to obtain a risk-based foreer project cost and/or the completion dates for key milestones. This may be particularly valuable in key project authorisation points when governance requirements include confidence forecasts. It cases, it may also be possible to apply similar modelling techniques to the project's products. 					
	Advantages			Example techniques		
	Combines the implications of all risks to forecast overall risk			Monte Carlo cost risk analysis		
	Produces confidence forecasts (e.g. P90 and P50 points)			Monte Carlo schedule risk analysis		
	Analysis statistics identify key aspects of risk			Product or benefits risk modelling		
	Models can be used for "what-if" scenario modelling			Tornado diagrams		
Approach 3: Risk register	This is the common-practice approach of using a single-pass approach to identifying a list of risks and entering them into a risk register for assessment and risk response planning. Risks are then reviewed regular basis to update the risk information and verify that risk responses are implemented.					
	Advantages			Example techniques		
	Relatively unsophisticated – less experience required			Risk register		
	When implemented well, fosters a good team culture			Probability – Impact Matrix		
Points to note	Best practice involves using a top-down multi-pass approach to managing risk in the initial project phases. It is the only one of the three above approaches that both addresses overall project risk and can be used from the outset – the point at which uncertainty is greatest and that risk management can add the most value.					
	Adopting a multi-pass approach will also help get better performance from the other two approaches. For example it should help to ensure that a rational quantitative cost model is produced. It will also help to create a coherent risk register with the implications of high level risk insights included.					
	Each approach has particular strengths at different obtained by combining all three.	nt stages of pro	jec	t. The best result	s may sometimes be	

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