Summary outputs from Quantitative Cost Risk Analysis (QCRA)

EZNSK

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Project Name:

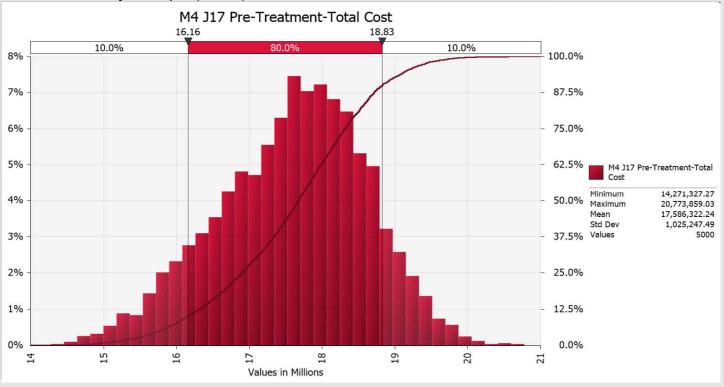
M4 J17 Pre-Treatment

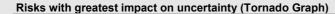
All Costs in £s					011	C LINTLII Plender	or the SNG-Lavaun Group	
			Confidence Level					
Base Cost		Risk Exposure	Mean	P50*	P80*	P85*	P90*	P95*
		Mean split (EU)	1,755,281	1,792,329	2,107,950	2,174,611	2,253,821	2,385,398
Cost of Work Done (COWD)	0	Mean split (Discrete Risk)	2,613,504	2,668,665	3,138,605	3,237,860	3,355,799	3,551,709
Costs to Go (CTG)	13,217,537	Mean split (Schedule Delay)	0	0	0	0	0	0
Total Base Cost	13,217,537	Risk - uplift to Base Cost	4,368,785	4,460,994	5,246,555	5,412,471	5,609,621	5,937,107
Probability of achieving within Base Cost	0.0%	Risk - % of Base Cost	33.1%	33.8%	39.7%	40.9%	42.4%	44.9%
		Total	17,586,322	17,678,531	18,464,092	18,630,008	18,827,158	19,154,644

* 'Splits' (in italics) at different confidence levels are based on pro-rating the mean value.

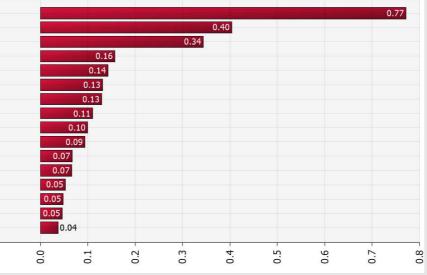
Key Statistics	Values			
Date of Sumulation	22/06/2022 20:55			
Base Cost	13,217,537			
AFC (at Mean)	17,586,322			
Mean (Total)	4,368,785			
Mean split (EU)	1,755,281			
Mean split (Discrete Risk)	2,613,504			
Mean split (Schedule Delay)	0			
AFC (at P80)	18,464,092			
P80 (Uplift from Base)	5,246,555			
Std Dev	1,025,247			
Spread (P10 - P90)	2,668,561			
Spread (as % of Base)	20.2%			
Percentiles	Values			
0%	14,271,327			
1%	15,064,146			
5%	15,773,813			
10%	16,158,597			
15%	16,452,948			
20%	16,695,031			
25%	16,902,552			
30%	17,084,636			
35%	17,261,530			
40%	17,415,379			
45%	17,550,343			
50%	17,678,531			
55%	17,796,257			
60%	17,921,532			
65%	18,051,034			
70%	18,183,632			
75%	18,315,304			
80%	18,464,092			
85%	18,630,008			
90%	18,827,158			
95%	19,154,644			
99%	19,707,855			
100%	20,773,859			

Cumulative Probability-Cost Impact (S-Curve)









R-R25_Increased prices of materials R-R19_Availbility /Shortage in Contractors EU-EU1_Series 100: Preliminaries EU-EU7_Series 600: Earthworks R-R9_Unexpected ground conditions on site -R-R47_Archology found during construction R-R26_Pandemic Risk R-R8) Utilities diversion/protection for existing and future services EU-EU8 Series 700: Pavements -EU-EU6_Series 500: Drainage EU-EU2_Series 100: Preliminaries - TM R-R62_Power Supply to additional signalling R-R16_Environment (4): Impact on SSSI R-R59_Judicial Review risk R-R55_Carbon Net Zero Targets R-R60_Unanticipated Ecology on Site

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Disclaimer:

These outputs have been generated using Faithful+Gould's EZ QCRA model. Faithful+Gould assumes no responsibility or liability for the use of the model without appropriate training. It is encumbent on the user to verify the accuracy of the data inputs and outputs.

