

V3

39 risks modelled

1 excluded (Dft risk)

4 risks with 0 minimum cost, ensure justification for this is detailed.

Updated estimating uncertainty

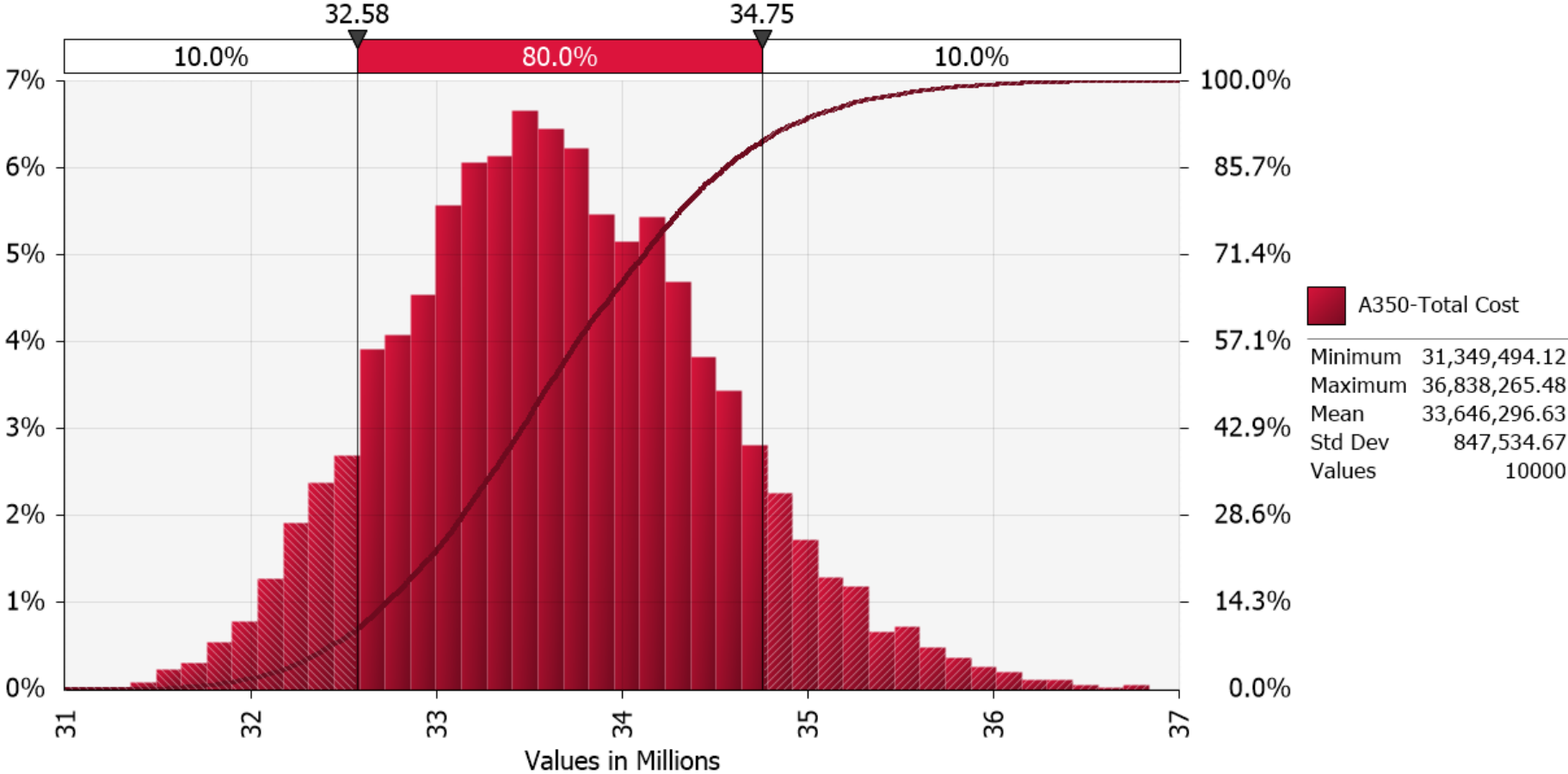
4 risk

Base Cost		Risk Exposure	Confidence Level					
			Mean	P50*	P80*	P85*	P90*	P95*
		Mean split (EU)	229,002	225,297	289,203	304,357	323,533	353,044
Cost of Work Done (COWD)	3,300,000	Mean split (Discrete Risk)	2,456,360	2,416,611	3,102,099	3,264,639	3,470,335	3,786,878
Costs to Go (CTG)	27,660,934	Mean split (Schedule Delay)	0	0	0	0	0	0
Total Base Cost	30,960,934	Risk - uplift to Base Cost	2,685,363	2,641,908	3,391,302	3,568,996	3,793,868	4,139,922
Probability of achieving within Base Cost	0.0%	Risk - % of Base Cost	8.7%	8.5%	11.0%	11.5%	12.3%	13.4%

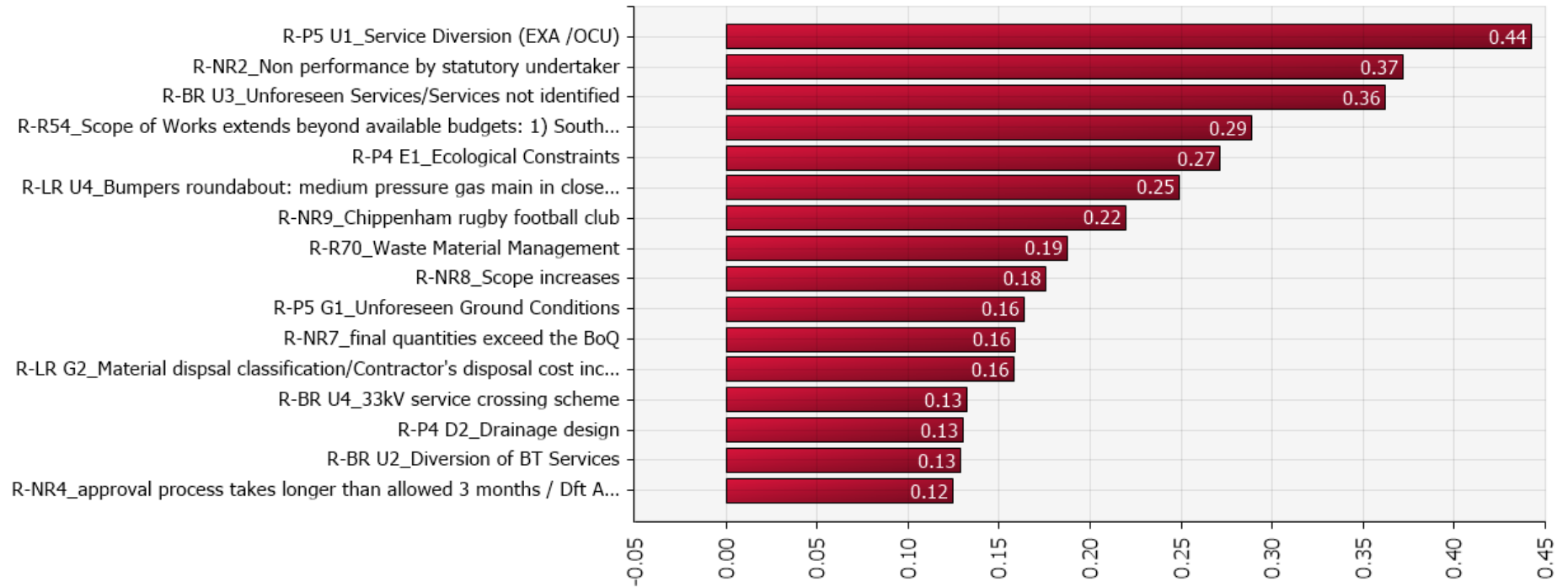
Risk - % of CTG	9.7%	9.6%	12.3%	12.9%	13.7%	15.0%
Total AFC	33,646,297	33,602,842	34,352,236	34,529,929	34,754,802	35,100,856

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

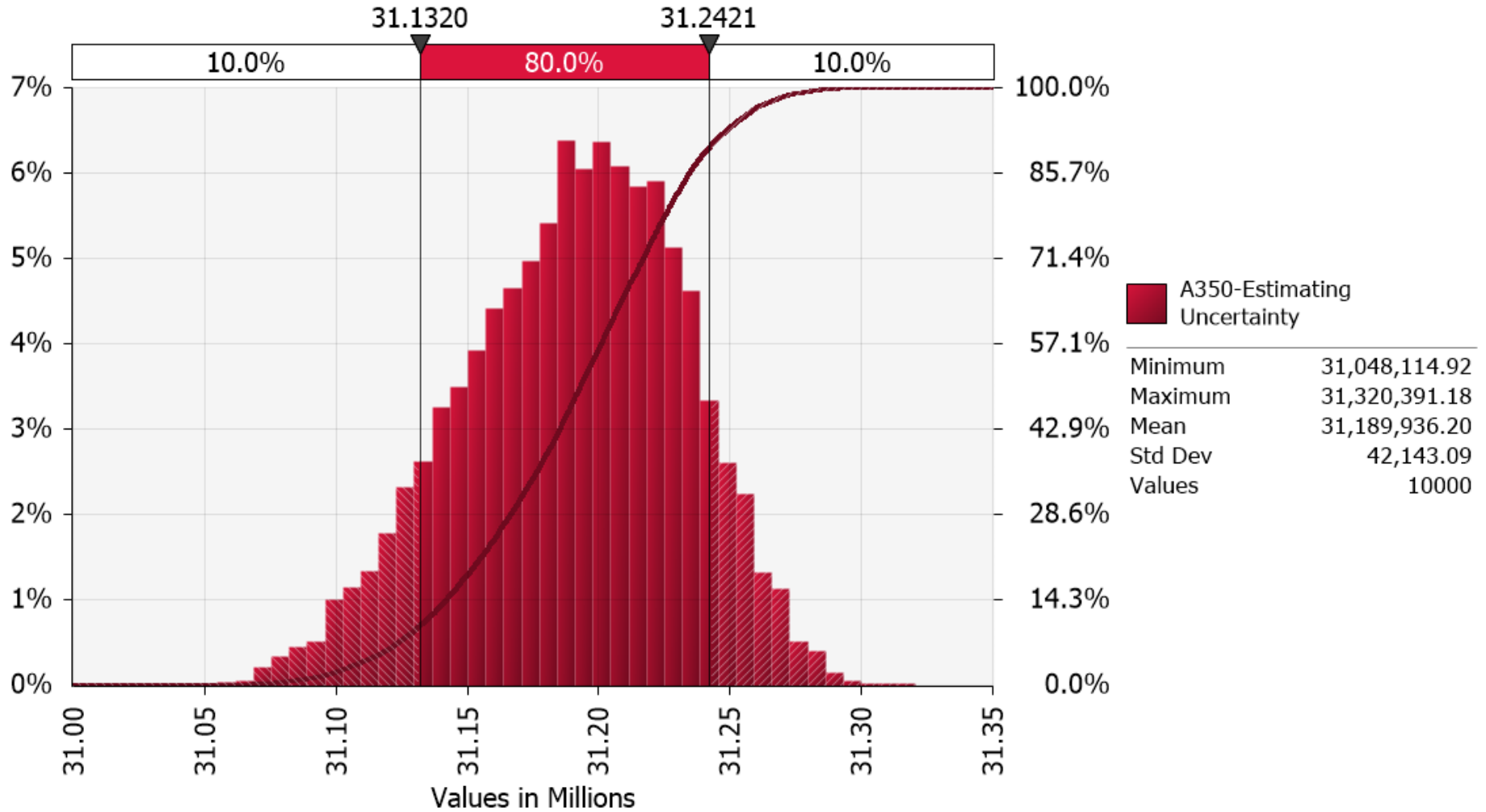
A350-Total Cost



A350-Total Cost Regression Coefficients

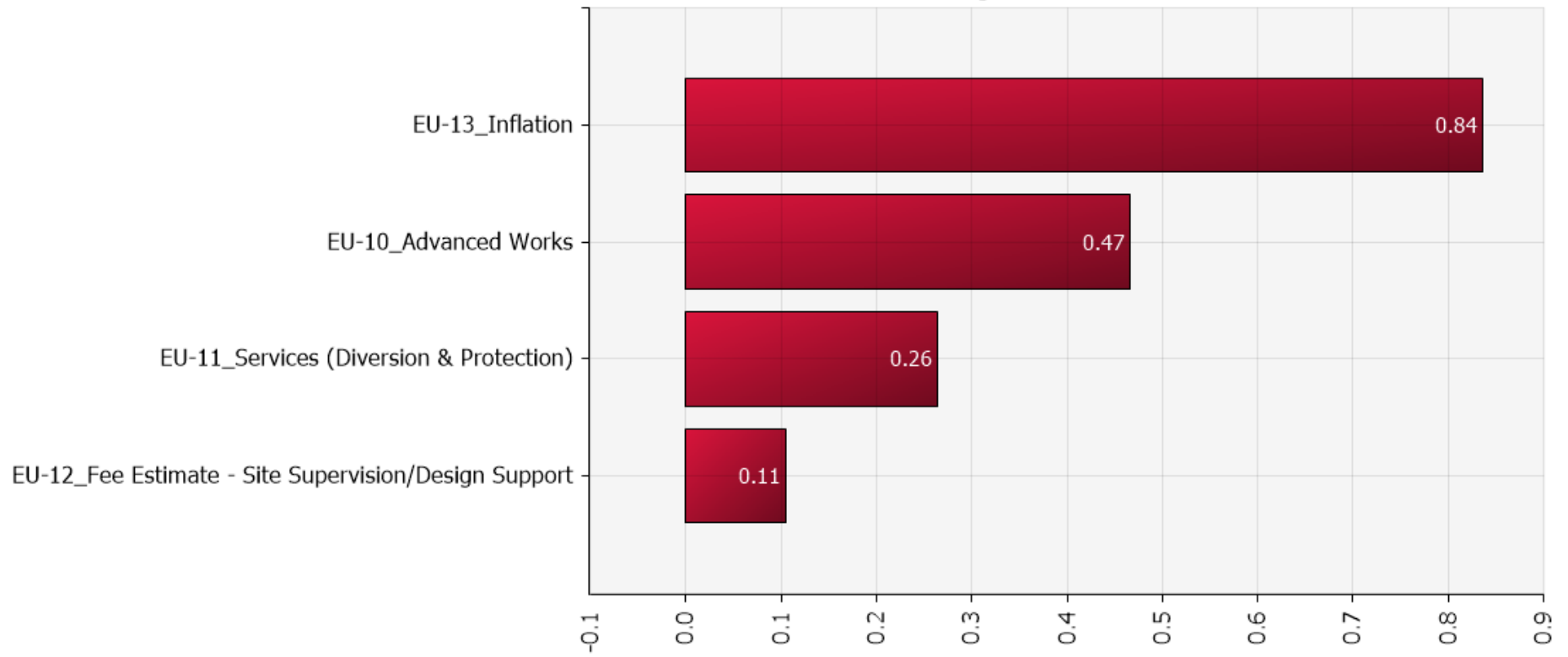


A350-Estimating Uncertainty

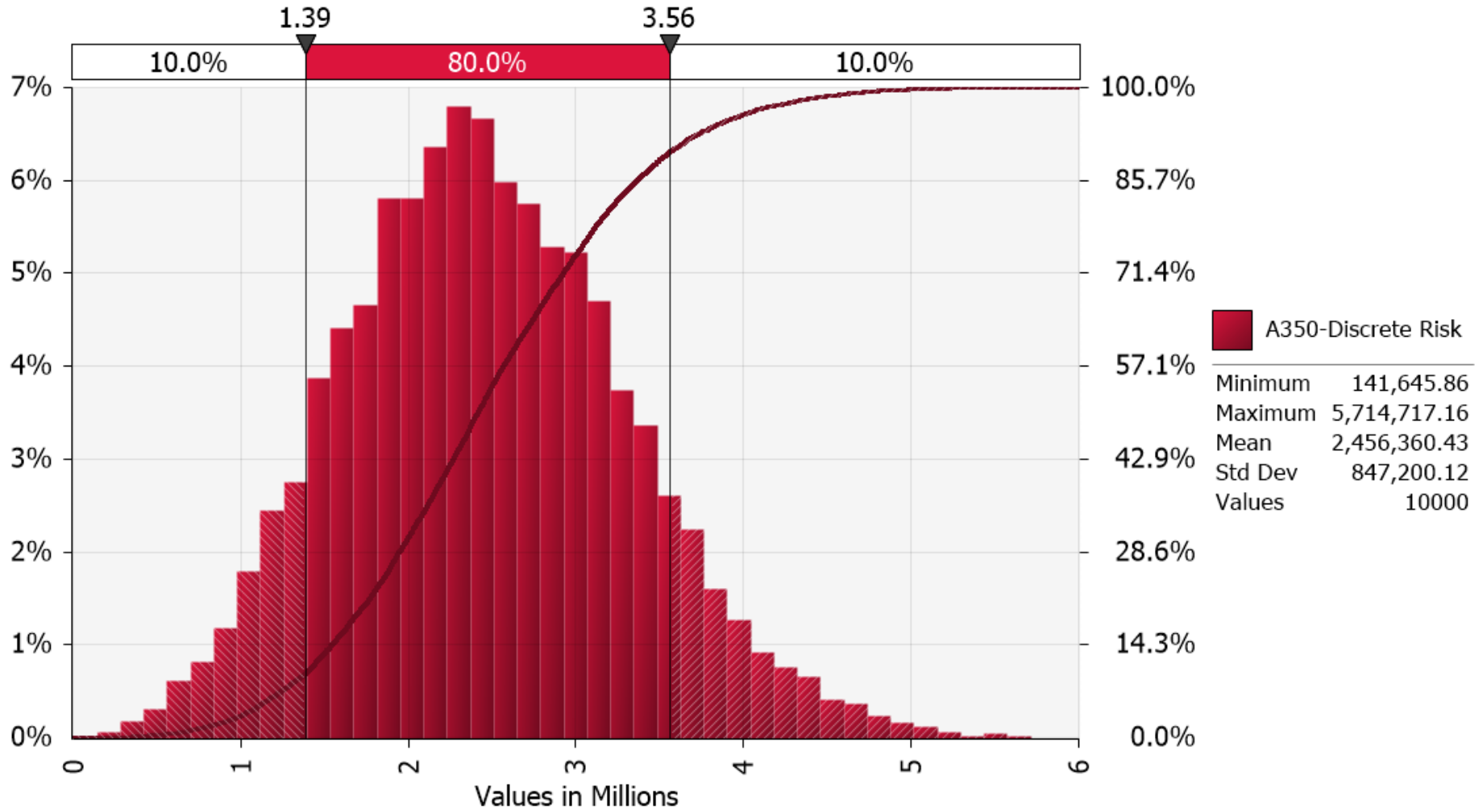


A350-Estimating Uncertainty

Regression Coefficients

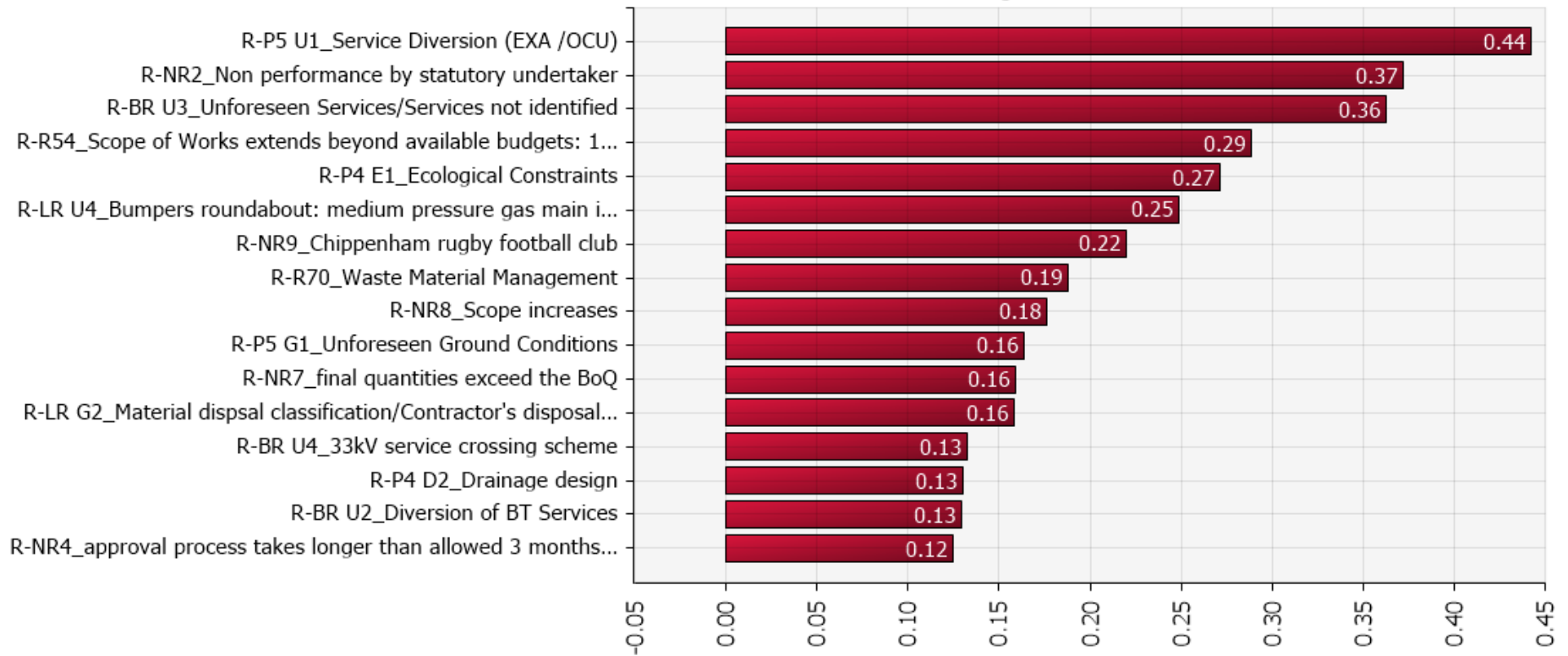


A350-Discrete Risk



A350-Discrete Risk

Regression Coefficients



Risk ID	Risk Title	Probability	P50De Ita	P80De Ita	P90De Ita
LR G2	Material dispsal classification/Contractor's disposal cost increase	15%	465,885	533,505	541,376

P5 U6	"Abandoned" Oil Pipeline.	10%	278,184	324,750	351,354
P5 U4	11kV services crossing and parallel to highway links	10%	223,971	241,538	233,686
P5 D1	Nat Grid EHV Cable	3%	137,962	202,777	234,730
LR D1	Final Design Geometry	5%	170,917	184,314	183,072
G S2	Invasive Plant Species	3%	117,046	148,557	170,093
BR U4	33kV service crossing scheme	10%	133,094	138,803	146,496
BR U2	Diversion of BT Services	24%	75,765	105,475	108,474
BR D6	Nat Grid EHV Cable Overhead Clearance	3%	66,603	80,326	100,543
BR D4	Presence of contamination to existing road surface	9%	76,335	71,857	86,436
R66	Existing underbridge form of construction is not a simple deep slab and does require a grillage anal	10%	52,376	68,363	64,238
R65	Network Rail require additional technical approval procedures for works at NR bridge	10%	50,401	64,988	65,405
P5 G1	Unforeseen Ground Conditions	25%	46,785	58,436	62,974
P4 D2	Drainage design	9%	52,673	56,891	62,516
P4 D1	Possible redesign of carriageway section	9%	50,614	48,418	47,155
LR U4	Bumpers roundabout: medium pressure gas main in close proximity of works.	15%	38,617	44,151	39,872

R64	Existing structures - Missing as-built information for existing bridges that prevents details consid	24%	34,028	35,731	42,812
BR U1	Mobile Phone Mast relocation	3%	35,381	34,902	37,409
P4 E1	Ecological Constraints	11%	30,246	27,633	26,415
R67	Requirements of key stakeholders	15%	26,344	26,563	26,616
R70	Waste Material Management	10%	26,828	22,913	25,754
G L1	Landscape works	15%	16,515	21,746	20,657
P5 U1	Service Diversion (EXA /OCU)	60%	19,381	21,043	17,780
BR U5	W&W medium pressure gas main crossing A350	15%	23,562	20,038	18,911
BR U3	Unforeseen Services/Services not identified	20%	18,518	19,177	17,824
R48	PROW yet to be concluded Saltisford Lane	3%	15,437	17,520	9,688
R47	Insufficient room for construction within existing Highway Corridor	3%	21,842	17,520	16,587
R54	Scope of Works extends beyond available budgets: 1) Southbound carriageway requires resurfacing (not	25%	18,004	17,454	13,193
R53	Drainage - Outfall may not be viable (condition. Discharge location etc). Additional item to Drainag	3%	19,717	17,454	17,923
R50	Bumpers Farm Business Park - acceptance local objections to design or permanent works footprint	10%	20,471	17,146	17,824
NR1	Low voltage network at Lackham roundabout	15%	20,471	16,613	20,657
NR2	Non performance by statutory undertaker	50%	14,091	14,805	9,353
NR3	delay to advanced works	25%	16,513	13,531	14,082
NR4	approval process takes longer than allowed 3 months / Dft Approval / Additional work required to sat	25%	14,130	8,161	13,691
NR5	construction inflation	50%	6,868	7,818	3,930

NR6	design supervision fee inflation	50%	3,254	6,525	3,779
NR7	final quantities exceed the BoQ	75%	4,016	5,686	2,933
NR8	Scope increases	51%	129	4,458	419
NR9	Chippenham rugby football club	60%	0	0	1,612