



Risk Base Analysis Framework

RBAF Software Demonstration – Input Data

General Scheme Information

Heading	Input
Project Name	Example project
Project Number	XX.XXX
Date	25/05/23
User	ES
Number of Scheme Options	3
Length of Road	200km
Type of Road	Dual carriageway
Budget available	25 million
Duration of assessment	20 years
Name of scheme option	Option A
	Option B
	Option C

Input Categories and KPIs

		Do Minimum	Option A	Option B	Option C
Performance	Technical performance	Pre-set	Numerical	Pre-set	Numerical
Cost	Cost (CPI)		Numerical	Numerical	Numerical
	Example Cost 2		Pre-set	Pre-set	Numerical
CE	Example CE 1		Numerical	Numerical	Pre-set
	Example CE 1		Numerical	Pre-set	Pre-set
Environmental	Example Environmental		Pre-set	Pre-set	Pre-set
Social	Example Social		Numerical	Pre-set	Numerical

Performance and Risk

	Do Minimum	Option A	Option B	Option C
Performance	Above average		Below Average	
Uncertainty	Low		High	
		0.2		0.15
Consequences (€)	20 million	20 million	20 million	20 million

Cost

	Option A	Option B	Option C
Capital cost	10 million	12 million	5 million

Ranked Interpolation

KPI	Ranks	Unit	Least favourable	Intermediate rank 1		Intermediate rank 2		Most favourable
			Data value	Data value	KPI value	Data value	KPI value	Data value
Example cost 2	2	-	0					1
Example CE 1	2	%	20					100
Example CE 2	3	Tons	1000	3500	0.2			6500
Example Social	4	km	1000	800	0.4	350	0.65	250

KPI	Option A	Option B	Option C
Example cost 2	Below minimum industry practice	Below minimum industry practice	0.1
Example CE 1	50	50	Far exceeds industry practice
Example CE 2	5000	Minimum industry practice	Exceeds industry practice
Example environmental	Minimum industry practice	Exceeds industry practice	Minimum industry practice
Example Social	500	Below minimum industry practice	825

Weight

KPI	Option A	Option B	Option C
Technical	0.3	0.3	0.3
CPI	0.2	0.2	0.2
Example cost 2	0.1	0.1	0.1
Example CE 1	0.1	0.1	0.1
Example CE 2	0.1	0.1	0.1
Example environmental	0.1	0.1	0.1
Example Social	0.1	0.1	0.1