

## &lt; River Development VR simulation &gt;

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## UC - win / Road Cost Estimation - Breakdown

## Summary of work

This is around 600meters of river development data. This is created to match with nature as a concept image. Trees are planted in river and revetment which is displayed by a revetment block and party and a natural revetment. The function of lakes and marshes are used.

Estimated distance	Par section	Correcton Coefficient	Quantity	Estimated distance
The total extended distance (km)		1.0	0.000	0.000
	sectional change	1.5	0.600	0.900
	Crossing	2.0	0.000	0.000
	IC・JCT	1.7	0.000	0.000
	Tunnel part	1.0	0.000	0.000
	Bridge part	1.5	0.000	0.000
	General section	1.3	0.000	0.000
	Others	0.5	0.000	0.000
<b>A</b>	Subtotal(A) Estimated extension distance	1.00	0.600	0.900

Item classification	Item Breakdown	Correcton Coefficient	Standard work unit	Man-day input	Estimated Man-Day
Geographical feature (Man day)	Standard 50m mesh use	1.0	(0.15-0.4)	0.150	0.150
	Par geographical feature edit	1.0	(0.1-1.5)	1.000	1.000
	Space base use	1.0	0.2	0.000	0.000
	Aerial photograph use	1.0	(0.2-0.3)	0.000	0.000
	DXF conversion	0.5	(1.0-3.0)	0.000	0.000
	XML	1.0	(1.0-2.0)	0.000	0.000
Subtotal		1.2			
Alignment definition (Man day)	P calculation work	1.0	0.3	0.000	0.000
	P input	1.0	0.15	0.150	0.150
	VC input	1.0	0.2	0.200	0.200
	Classification Setup	1.0	0.2	0.200	0.200
Subtotal		0.6			
A cross-sectional definition (Man day)	Cross-sectional definition	1.0	0.8	0.800	0.800
	Cross-sectional texture setup	1.0	0.3	0.300	0.300
Subtotal		1.1			
3D Model・Texture (Man day)	Accuracy-Draft	1.0	1.0	0.000	0.000
	Accuracy-Average	1.0	2.0	2.000	2.000
	Accuracy-High Precision	1.0	3.0	0.000	0.000
	Accuracy-Excellent Precision	1.0	(3.0-5.0)	0.000	0.000
Subtotal		2.0			
<b>B</b>	Subtotal(B) The work in Man-day per km				4.800

Optional Item Classification	Item Breakdown	Correction Coefficient	Standard work unit	Man-day input	Estimated Man-Day
3DModel・Texture	3DModel	70 Elements	1.0	0.700	0.700
	MD3Model	1Body	1.0	0.000	0.000
	3DTrees	2 Kinds	0.8	0.000	0.000
	(Man day) Texture	5 Textures	0.5	2.100	2.100
Subtotal		2.8			
Simulation various setup, adjustment	Traffic setup	Ten roads	0.5	0.000	0.000
	Signal control setup	One crossing	0.5	0.000	0.000
	(Man day) A model of operation and a	WAY-P setup	1.2	0.000	0.000
	Flight path setup	20PT	0.3	0.000	0.000
	Default/Before/After setup	BFR/AFT	0.5	0.000	0.000
	Lake setup	50PT	0.5	1.000	1.000
	Stream setup	10 Sections	0.5	0.000	0.000
	Script setup		1.0	0.000	0.000
	Data adjustment		1.0	2.000	2.000
Subtotal		3.0			
Output	Screen output	A41 sheet	0.07	0.000	0.000
		(Man day) A31 sheet	0.1	0.000	0.000
	AVI output (1minute)	Rough	1.0	0.000	0.000
		Normal	2.0	0.000	0.000
		Excellent	4.0	0.000	0.000
		Sound	Sound Setup	別途見積	0.000
		Audio input	別途見積	0.000	0.000
		BGM	別途見積	0.000	0.000
		Guide	別途見積	0.000	0.000
	AVI composition	Normal	別途見積	0.000	0.000
		Excellent	別途見積	0.000	0.000
	Perspective view creation	Rough	別途見積	0.000	0.000
		Normal	別途見積	0.000	0.000
		Excellent	別途見積	0.000	0.000
Subtotal		0.0			
<b>C</b>	Subtotal(C) Option work classification				5.800

Engineer's standardized work breakdown list				
Man day unit price of an Engineer	EngineerA	10%	3,830	38,300
	EngineerB	30%	9,150	30,500
	EngineerC	40%	10,400	26,000
	Engineer	20%	4,420	22,100
<b>D</b>	Man day unit price(D) 27,740円		27,800	

Direct personnel expenses					
<b>E</b>	Sum total E = (AxB+C)xD				¥281,336

Administrative expenses					
<b>F</b>	20% of direct personnel expenses		20%		¥56,267
	Administrative expenses(F)				

Cost					
	Technical cost(Field survey expense etc.)				
	Express charges(25% Premium overtime work etc.)				
	Software & hardware purchase expenses				
	Satellite photography expenses				¥0
	Apparatus rental and transportation				
	Transportation-expenses cost price				
	Work management expenses				
	Others				discount
<b>G</b>	Subtotal of costs (G)				¥-7,603

<b>Summation</b>	Estimated Grand Total(E+ F+ G)				¥330,000
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This excludes the cost of any local taxes that may be levied upon the project.