ENGINUITY TUTORIAL



Overview Of Decision Making

Copyright Virtual Management Simulations



			RASE			ANCIAL DE	CISIONS	
	Before decisions	After decisions					CISICINS	
Cash account:	-249,890	-599,875	(The current overon-	Fir	nancial man	agement inv	volves :-	
Capital base:	4,383,088	4,646,073						
Investments:	719,767	702,767		• L	ooking after	r the snarer	nolders' inte	erests
Company value:	4,852,965	4,748,965		- T	n lina ta ina	raaaa tha ya	lue of the co	maaayby
	DIVIDEND			n	haking the b	best use of t	he compan y	's assets
Amount to pay	shareholders:	104000	(2% of Equity of 5,200,000)	. Ir	all businos	se aroae mo	nitoring pe	rformanco t
	'	104000					•	nonnance i
CAP	ITAL BASE			ir	nprove com	ipany profita	adility	
CAP	ITAL BASE	262985	(limited to 262,985)	ir	nprove com	ipany profita	adility	
CAP	Increase by:			ir	nprove com	ipany profita	adility	
CAP			(limited to 262,985) (limited to 876,618)	ir	nprove com	ipany profita	adility	
	Increase by:		(limited to 876,618)	ir	nprove com	ipany profita	adility	
INVI	Increase by: Reduce by:	0 Add investme	(limited to 876,618)	ir				Required
	Increase by: Reduce by:	0 Add investme Descri	(limited to 876,618) ent pion	ir	Initial Value	Ipany profita	Reduce by 102900	Required 0
INV Iame	Increase by: Reduce by:	O Add investme Descri Banking	(limited to 876,618)	ir		Increase by	Reduce by	Required 0 298,067
INVI Iame Dubai Bank Ltd	Increase by: Reduce by:	Add investme Descri Banking Manage	(limited to 876,618) ent pion g services	ir	Initial Value	Increase by	Reduce by 102900	. 0
INVI Iame Dubai Bank Ltd Emirate Solutions	Increase by: Reduce by: ESTMENTS	Add investme Descri Banking Manage Travel o	(limited to 876,618) ent pion g services ement consultants	ir	Initial Value 102,900 208,067	Increase by 0 90000	Reduce by 102900 0 102100 0	0 298,067
INV Iame Dubai Bank Ltd Emirate Solutions HSC Crossing	Increase by: Reduce by: ESTMENTS	Add investme Descri Banking Manage Travel o Manage	(limited to 876,618) ent pion g services ement consultants company	ir	Initial Value 102,900 208,067 102,100 102,700 102,000	Increase by 0 90000	Reduce by 102900 0 102100	0 298,067 0 202,700 0
INV Iame Dubai Bank Ltd Emirate Solutions HSC Crossing The JT Flower Pa	Increase by: Reduce by: ESTMENTS	Add investme Descri Banking Manage Travel o Manage	(limited to 876,618) ent pion g services ement consultants company ement consultants ement consultants ement consultants	ir	Initial Value 102,900 208,067 102,100 102,700	Increase by 0 90000 100000	Reduce by 102900 0 102100 0	0 298,067 0
INV lame Dubai Bank Ltd Emirate Solutions ISC Crossing The JT Flower Pa The Saxon Group	Increase by: Reduce by: ESTMENTS	Add investme Descrij Banking Manage Travel o Manage Manage	(limited to 876,618) ent pion g services ement consultants company ement consultants ement consultants ement consultants	ir	Initial Value 102,900 208,067 102,100 102,700 102,000	Increase by 0 90000 100000	Reduce by 102900 0 102100 0 102000	0 298,067 0 202,700 0
INV lame Dubai Bank Ltd Imirate Solutions ISC Crossing The JT Flower Pa The Saxon Group	Increase by: Reduce by: ESTMENTS	Add investme Descrij Banking Manage Travel o Manage Manage	(limited to 876,618) ent pion g services ement consultants company ement consultants ement consultants ement consultants	ir	Initial Value 102,900 208,067 102,100 102,700 102,000	Increase by 0 90000 100000	Reduce by 102900 0 102100 0 102000	0 298,067 0 202,700 0
INV lame Dubai Bank Ltd Imirate Solutions ISC Crossing The JT Flower Pa The Saxon Group	Increase by: Reduce by: ESTMENTS	Add investme Descrij Banking Manage Travel o Manage Manage	(limited to 876,618) ent pion g services ement consultants company ement consultants ement consultants ement consultants	ir	Initial Value 102,900 208,067 102,100 102,700 102,000	Increase by 0 90000 100000	Reduce by 102900 0 102100 0 102000	0 298,067 0 202,700 0
INVI Iame Dubai Bank Ltd Imirate Solutions ISC Crossing The JT Flower Pa The Saxon Group	Increase by: Reduce by: ESTMENTS	Add investme Descrij Banking Manage Travel o Manage Manage	(limited to 876,618) ent pion g services ement consultants company ement consultants ement consultants ement consultants	ir	Initial Value 102,900 208,067 102,100 102,700 102,000	Increase by 0 90000 100000	Reduce by 102900 0 102100 0 102000	0 298,067 0 202,700 0
INV ame Dubai Bank Ltd mirate Solutions ISC Crossing he JT Flower Pa he Saxon Group	Increase by: Reduce by: ESTMENTS	Add investme Descrij Banking Manage Travel o Manage Manage	(limited to 876,618) ent pion g services ement consultants company ement consultants ement consultants ement consultants	ir	Initial Value 102,900 208,067 102,100 102,700 102,000	Increase by 0 90000 100000	Reduce by 102900 0 102100 0 102000	0 298,067 0 202,700 0



	Before decisions	After decisions	ASSET BASE	
Cash account:	-249,890	-599,875	(The current overdraft limit for the cash account is 600,000)	
Capital base:	4,383,088	4,646,073		
Investments:	719,767	702,767		
Company value:	4,852,965	4,748,965		
	DIVIDEND			_

PAYING DIVIDEND TO SHAREHOLDERS

The company's was originally funded from a share issue, and shareholders expect a return on their investment, in the form of a dividend, related to how well the company is performing.

Any dividend paid comes out of the cash account, and reduces the value of the business.

The dividend paid to shareholders is one of the key factors that affects the company share price :-

- Insufficient dividend will disappoint the shareholders and have a negative affect on the share price
- Sufficient dividend will keep the shareholders 'content', with no change in the share price
- Ample dividend will make the shareholders happy, and have a positive affect on the share price

The affect on share price is determined by the % of the company's current equity value that is paid as a dividend.

The current equity value is the number of shares in circulation multiplied by the current share price.

Uisplay details for Dubai Bank Ltd



			ASSET BASE	
	Before decisions	After decisions	ASSET DASE	
Cash account:	-249,890	-599,875	(The current overdraft limit for the cash account is 600,000)	
Capital base:	4,383,088	4,646,073		
Investments:	719,767	702,767		
ompany value:	4,852,965	4,748,965		
Amount to pay	'	104000	(2% of Equity of 5,200,000)	
Amount to pay			(2% of Equity of 5,200,000) (limited to 262,985)	

THE CAPITAL BASE

The capital base is the company's investment in infrastructure (plant, equipment, buildings etc), and determines the level of work that the company can have in progress at any point in time, which limits the value of work that can be won on the Procurement Screen.

Any changes to the capital base affect the cash account.

The capital base can be :-

- **INCREASED**, reducing cash reserves, in order to support further growth, and to secure more new work on the Procurement Screen. There are limitations on the increase possible each period, which can vary by period.
- DECREASED, increasing cash reserves, which may be desirable if money is needed for other things, or if the capital base is not being fully utilised. There are limitations on the % of the capital base that can be sold off each period, which can vary by period.



MAKING Financial decisions for period 5 in the Early Years	
Change period Key information Help	
ASSET BASE	
Before After	

INVESTMENTS

The core business of the company is procuring and progressing contracts, and if done successfully the company will report a healthy operating profit, and increase the company's value. However, there are alternative ways of increasing the value of the company, such as by investing in other concerns, which may or may not be construction-related.

There are two ways of increasing the company's value through investments :-

• INVESTMENT RETURNS, depending upon how well the investment is performing.

• **INVESTMENT BENEFITS**, that can reduce reduce costs on jobs in progress, namely build or risk costs.

0,010;

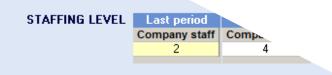
	Descripion	Initial Value	Increase by	Reduce by	Required
ubai Bank Ltd	Banking services	102,900	0	102900	(
mirate Solutions	Management consultants	208,067	90000	0	298,067
SC Crossing	Travel company	102,100	0	102100	(
he JT Flower Partnership	Management consultants	102,700	100000	0	202,700
he Saxon Group	Management consultants	102,000	0	102000	0
hermoguard	Suppliers	102,000	100000	0	202,000





Change period Key information

MARKETING DEPARTMENT



MARKETING EFFORT

Sector	% split
Industrial	10%
Building & Commercial	46 %
Transport	31 %
Energy	7%
Water & Sewage	6%

MAKING OVERHEAD DECISIONS

Overheads are the non-contract based support services required to enable the company to identify, procure and and progress work.

They consist of :-

- 4 key departments; Marketing, Head Office, QHSE and Measurement
- Non-departmental overheads, such as idle labour and idle project managers

The Overhead Manager is responsible for :-

- Setting appropriate staffing levels for each department
- Directing marketing effort into the 5 market sectors

The non-departmental overheads are the responsibility of others, and are related to jobs in progress.

OTHER DEPARTMENTS

STAFFING LEVEL	STAFFING LEVEL		This p	eriod
	Department	Company staff	Company staff	Agency staff
	Head Office	3	4	0
	QHSE	2	3	0
	Measurement	2	3	0

The staffing levels for the Head Office, QHSE and Measurement Departments for the current period can only be set once appropriate labour has been allocated to jobs in progress on the Job Progression (Labour) Decisions Screen

Calculate projected turnover for jobs in progress



MAKING Overhead decisions for period 5 in the Early Years

Change period Key information Help

MARKETING DEPARTMENT



MARKETING EFFORT

G EFFURI			Last period			I his period		
	Sector	% split	Country preference	Job size preference	% Split	Country preference	Job Size Preference	
	Industrial	10 %	No preference	No preference	9	No preference	No preference	
	Building & Commercial	46 %	No preference	No preference	37	No preference	No preference	
	Transport	31 %	No preference	No preference	21	No preference	No preference	
	Energy	7%	No preference	No preference	17	No preference	No preference	
	Water & Sewage	6%	No preference	No preference	16	No preference	No preference	
					100 %	Prefer UK jobs	No preference Prefer large jobs Prefer medium jobs Prefer small jobs	

MARKETING

The Marketing Department are on the ladder to winning and progressing contracts.

Each period the marketing staff identify new construction jobs in the global market, known as prequalification, which the company may then decide to try and win through the procurement process.

All jobs belong to one of 5 market sectors: Industrial, Building and Commercial, Transport, Energy, Water and Sewage.

The value and number of jobs that the company can prequalify for in any period is governed by a number of factors :-

- The size of the Marketing Department (number of company staff)
- The size of the global market (value and number of jobs available)
- Where the marketing effort is directed (5 potential sectors of work)



MAKING Overhead decisions for period 5 in the Early Years

Change period Key information Help

HEAD OFFICE, QHSE AND MEASUREMENT DEPARTMENTS

The staff in these departments perform tasks related to the company's jobs in progress :-

- Head Office staff deal with buying, accounting and IT issues
- QHSE staff deal with quality, health & safety and environmental issues
- Measurement staff (quantity surveyors) ensure that money is recovered from the client

The task of the Overhead Manager is to ensure that the level of staff in each department each period is able to manage the company's jobs in progress without any deterioration in the performance of the jobs.

As the company does more work, or turnover, so the staffing levels in the Head Office, QHSE and Measurement departments will need to be increased to cope with the additional workload.

Prefer Overseas jobs Prefer medium jobs Prefer small jobs

OTHER DEPARTMENTS

STAFFING LEVEL	FING LEVEL		This p	eriod
	Department	Company staff	Company staff	Agency staff
	Head Office	3	4	0
	QHSE	2	3	0
	Measurement	2	3	0

The staffing levels for the Head Office, QHSE and Measurement Departments for the current period can only be set once appropriate labour has been allocated to jobs in progress on the Job Progression (Labour) Decisions Screen

Calculate projected turnover for jobs in progress





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MAKING Procurement decisions for period 5 in the Early Years

Change period Key information Help

	PROCUREMENT RESTRICTIONS											
Company Based Limitations												
NUMBER OF JOBS IN PROGRESS AMOUNT OF WORK THAT CAN BE WON												
A	t the start of the period	, the num	nber of	jobs in pro	ogress is:	5 (job prog	gression screen)	The initial forwar	d workload is: 20,831,500	(job proj	gressio	n screen)
The	number of jobs in prog	gress afte	r biddir	ng cannot	exceed: 1	10 jobs 👘		The current value of the c	apital base is: 4,646,073	(financia	al decis	ion screen)
	Hence, the maximum r	humber o	f jobs t	hat can bi	e won is:	5 jobs dur	ring bidding The current capita	base can support forward	d workload of: 46,460,730	(10 x da	apital ba	ase)
Hence, the value of work that can be won annot exceed: 25,629,230 during bidding												
Trence, the value of work that can be work carried exceed. 20,020,200 during bidding												
								Work that can be worr co	annot exceed. 23,023,230	uuning t	Joonng	
Job	Country	Туре	BIM	Size	App Value	Duration	Description	Sector	Client	Job	Bid	Bid value
Job 74	Country United Kingdom	Type DB	BIM Yes	Size Medium							_	Bid value 13,166,790
						4	Description	Sector	Client	Job	Bid	
-74	United Kingdom	DB	Yes	Medium	12,000,000 9,000,000	4 4	Description New aircraft hangar	Sector Building & Commercial	Client The Defence Agency	Job 74	Bid	13,166,790
74 75	United Kingdom United States	DB BO	Yes No	Medium Medium	12,000,000 9,000,000 8,000,000	4 4 3	Description New aircraft hangar Upgrading of road network	Sector Building & Commercial Transport	Client The Defence Agency FIFA North America 2026	- Job 74 75	Bid	13,166,790
74 75 79	United Kingdom United States United Kingdom	DB BO BO	Yes No No	Medium Medium Medium	12,000,000 9,000,000 8,000,000	4 4 3 4	Description New aircraft hangar Upgrading of road network Tunnel work for HS2	Sector Building & Commercial Transport Transport	Client The Defence Agency FIFA North America 2026 HS Rail Connection Group	- Job 74 75	Bid Yes V	13,166,790 9,867,307 0

MAKING PROCUREMENT DECISIONS

Each period the company is offered a number of jobs for which a bid is invited.

The jobs were identified by the marketing department in the previous period depending upon the sectors into which the marketing effort was directed.

There are two types of jobs that can be bid for :-

Build Only, where the client has already had the design produced, and the contractor is only responsible for the build
 Design and Build, where the contractor has responsibility for both the design and the build

In both cases it is assumed that the estimators have produced an accurate assessment of the costs to be incurred in completing the job, along with planned labour levels for each period of the planned duration of the job.



👹 Setting the Bid for Job 74

ь	4	al	-
			L

nep					
		build cost): Build cost: Site cost:	10 % 9,499,724 1,899,946		
	Total estimate	ed costs:	12,349,640		BID
Design c	DESIGN CONS onsultant allocated: The PW P		BIM experience re	equi S	Anı
	OI Project manager	NCOSTS allowance:	49980 (1	fo	EST The alte
Risk register	Likelihood occurs	Impact	Risk		uno
Structural defects	Medium (40 to 50 % chance)	cost 130,000	Contingency 58500		DES
Personnel issues	High (70 to 80 % chance)	48,000	36000		
Changes in legal requirements	Low (20 to 30 % chance)	135,000	33750		Allo
					Buil
					ON
			128,250		Adc
	Tota	l oncost:	178,230		and
					ana
					■ Pr
	h	MARKUP Markup:	5.1 💌	%	■ Co
	BID SUB				MA
		ubmitted:	<mark>13,166,790</mark>		The

USEFUL INFORMATION

The job is in the Building & Commercial sector

- The job is based in United Kingdom
- The planned duration of the job is 4 periods
- The annual salary for project managers ranges from 27,000 to 64,000

Bailey Developments CNS-Mevalin Horizon Group

KNOWN RIVAL BIDDERS

Based in United Kingdom

DDING FOR A JOB

number of elements make up a bid.

TIMATED COSTS

e estimated design, build and site costs, which cannot be ered.

SIGN CONSULTANT

ocating an appropriate design consultant for Design and ild (DB) jobs.

ICOSTS

lditional costs added to a bid to cover the contract costs over d above the design, build and site costs, and includes :-

- Project manager allowance
- Contingency for risk

ARK UP

e margin, or mark up, is the profit to be made on the job.

The competition for each job comes from a number of known, and unknown, rival companies. Each one has their own unique profile and bidding history, and a careful assessment of them is required to determine the margin to be added.

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🐝 MAKING Job progression decisions (Labour) for period 5 in the Early Years



Change period Key information Help

Chung	ge perioù	Key information help	,														
IDLE LABOUR POOL STAR I C. STRIDD Number in the rule							MAKING JOB PROGRESSION DECISIONS										
			Progressing a job awarded to the company involves :-														
		 Allocating an appropriate project manager to oversee the job Allocating labour to progress the job through to completion 								-							
				Number left in the idle p	ool: <mark>0</mark>												
	JOBS IN PROGRESS Own Labour Subcontract Labour																
							This per			To site		n site					
Job	Country	Sector	Plan Dur	Remaining planned periods	Progress so far		Status	Plan lab	Last per	From Ne	ew To ILP		On site	End Take last on	Lay off	On site	Total
1	UK	Building & Commercial	4	2 planned periods remaining	Ahead of schedule		3rd period	87	117	0	0 44	0	- 73	0 0		0	73
25	US	Transport	2	FINAL planned period	Ahead of schedule		2nd period	84	53	0	0 0	0 0	53	<mark>28</mark> 0		9	62
29	UK	Industrial	3	2 planned periods remaining	Ahead of schedule		2nd period	- 33	27	13	0 0	-	40	0 0		0	40
56	UK	Building & Commercial	4	4 planned periods remaining			1st period	- 33	0	45	0 0	-	45	0 0		0	45 34
69	UK	Energy	2	2 planned periods remaining			1st period	29	0	14	20 0) 0	- 34	0 0	0	0	34
Disp	lay details	for job 1															



MAKING Job progression decisions (Project managers) for period 5 in the Early Years													
Change perio	d Key information Hel	p											
DLE PF	OJECT MANAGER P	<u>00L</u>	Last period Name YiZhou	Base UK	This perio Name	d Base	New						
					Recruit from the agency	y							
	JOBS IN PROGR	ESS											
			Last period			period							
Job Count	-	Status	Name		Name	Base N		6 bonus					
1 UK	Building & Commercial		Gordon Simcoe		Gordon Simcoe	UK	No	4					
25 US	Transport	12nd period	Doug Fordham	LIK	Dour			2					

PROJECT MANAGERS

Project managers are concerned with the overall planning and co-ordination of a project from inception to completion aimed at meeting the client's requirements and ensuring completion on time, within cost and to the required quality standards.

A project manager with well-matched experience for a particular type of job will handle available resources more efficiently, whilst a project manager with inappropriate experience will impair contract efficiency.

There are a number of project managers that can be recruited with differing levels of expertise in each market sector, as defined by the career profile.

Project managers that are employed by the company are either :-

- In the Idle Project Manager Pool awaiting allocation to a job
- Allocated to an ongoing job



Change period Key information Help IDLE LABOUR POOL START OF THE PERIOD Number in the idle pool: 28 Number to layoff: 0 Number to layoff: 0 Number available for jobs in progress: 28 AFTER DECISIONS Net transfers: -28 Number left in the idle pool: 0 JOBS IN PROGRESS UNUMBER SS UNUMBER SS UNUMBER SS UNUMBER SS SUBJECT SUBSTIN PROGRESS SUBSTIN	🎲 M/	AKING Jo	b progression decisi	ons (I	Labour) for period 5 in the Ea	rly Years												<u>- 0 ×</u>
Number in the idle pool: 28 Number in the idle pool: 0 Number in the idle pool: 0 Number in the idle pool: 28 AFTER DECISIONS Net transfers: 28 Number left in the idle pool: 0 JOBS IN PROGRESS Job Country Sector Plan Dur Subcontract Labour This period To site From site Job Country Sector Plan Dur Remaining planned periods Progress so far Status Plan Total 1 UK Building & Commercial 4 2 planned period Progress so far Status Plan Plan Con Total 1 UK Building & Commercial 4 2 planned period Ahead of schedule 3rd period 87 117 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>Chang</td> <td>ge period</td> <td>Key information Help</td> <td></td>	Chang	ge period	Key information Help															
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Net transfers: -28 Number left in the idle pool: O JOBS IN PROGRESS Image:					Number available for jobs in progr	ess: 28												
Number left in the idle pool: O JOBS IN PROGRESS JOBS IN PROGRESS This period To site Subcontract Labour Job Country Sector Plan Dur Progress so far Status Plan Cuntract Labour Job Country Sector Plan Dur Progress so far Status Plan Cuntract Labour Job Country Sector Plan Dur Progress so far Status Plan Take Last rom site Job Country Sector Plan Dur Remaining planned periods Progress so far Status Plan To site Form site Job Country Sector Plan Building & Commercial 4 2 planned periods remaining Ahead of schedule 310 Poid O O O O Jour Statud de fo schedule 2																		
JOBS IN PROGRESS Image: State s				rers: -28														
Own Labour Subcontract Labour Job Country Sector Plan Remaining planned periods Progress of ar Status Plan Last From ILP On End Last on off site On site Iast on off site off site off site off site off off site off site off off site off site <tho< td=""><td></td><td></td><td></td><td>ool: <mark>0</mark></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tho<>				ool: <mark>0</mark>														
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JobCountrySectorPlan DurRemaining planned periods remainingProgress of arStatusPlan labLast perFrom lLPNewTo lLPPaid offOn siteEnd lastTake offLast offTo last1UKBuilding & Commercial42 planned periods remainingAhead of schedule3rd period87117004407300														Sub	bcontr	act La	abour	
JobCountrySectorDurRemaining planned periodsProgress so farStatusIabperILPNewILPoffsiteIastonoffsiteIat1UKBuilding & Commercial42 planned periods remainingAhead of schedule3rd period871170044073000007325USTransport2FINAL planned periodAhead of schedule2nd period84530000532801996229UKIndustrial32 planned periods remainingAhead of schedule2nd period33271300000000004056UKBuilding & Commercial44 planned periods remainingAhead of schedule1st period3304500000045						This pe												
25 US Transport 2 FINAL planned period Ahead of schedule 2nd period 84 53 0 0 0 53 28 0 19 9 62 29 UK Industrial 3 2 planned periods remaining Ahead of schedule 2nd period 33 27 13 0	Job	Country	Sector		Remaining planned periods	Progress so far	Status				vew		site					Total
29 UK Industrial 3 2 planned periods remaining Ahead of schedule 2nd period 33 27 13 0	1		Building & Commercial										73		-		0	
56 UK Building & Commercial 4 4 planned periods remaining 1 st period 33 0 45 0			Transport					84							-		9	
				-		Ahead of schedule		33						-	0		0	
69 UK Energy 2 2 planned periods remaining 1st period 29 0 14 20 0 34 0 0 0 0 34							1st period	33					45		0			
	69	UK	Energy	2	2 planned periods remaining		1st period	29	0	14	20) 0	34	0	0	0	n	34

LABOUR

It is vital to ensure the workforce (labour) on the sites is sufficient to progress jobs in line with the company's strategy for job completion.

A well-managed job will be one that either completes either early or on time, and not late.

There are two types of labour that can be employed on a job :-

- The company's own labour
- Subcontract labour

Planned labour levels each period were assessed during the estimating stage in order to complete the contracts on time, and they can be used as guidelines in setting the labour levels.