



ENGINUITY 2021 COMPETITION

PERFORMANCE REVIEW FOR 'Dogecoin Mining, Inc.'

MANAGEMENT TEAM

Benjamin Blocher

Kyle Murphy

Cedric Diefenbaugh

Zachary Riley

Yostina Nousir

SPONSOR

Parsons

THE CHALLENGE



It is the **beginning of 2021**.

A UK-based **global construction business** that has only been in existence for one year needs a **new management team** to run the company for the foreseeable future.

The company **operates in a number of sectors**, with jobs, clients, rival competitors, and people worldwide.

To grow the business the new management team will need to devise an **effective business strategy**.

Developing an effective strategy will involve acquiring an understanding of :-

- The **economic environment** in which the company is operating
- The **strengths and weaknesses** of the business as it currently stands

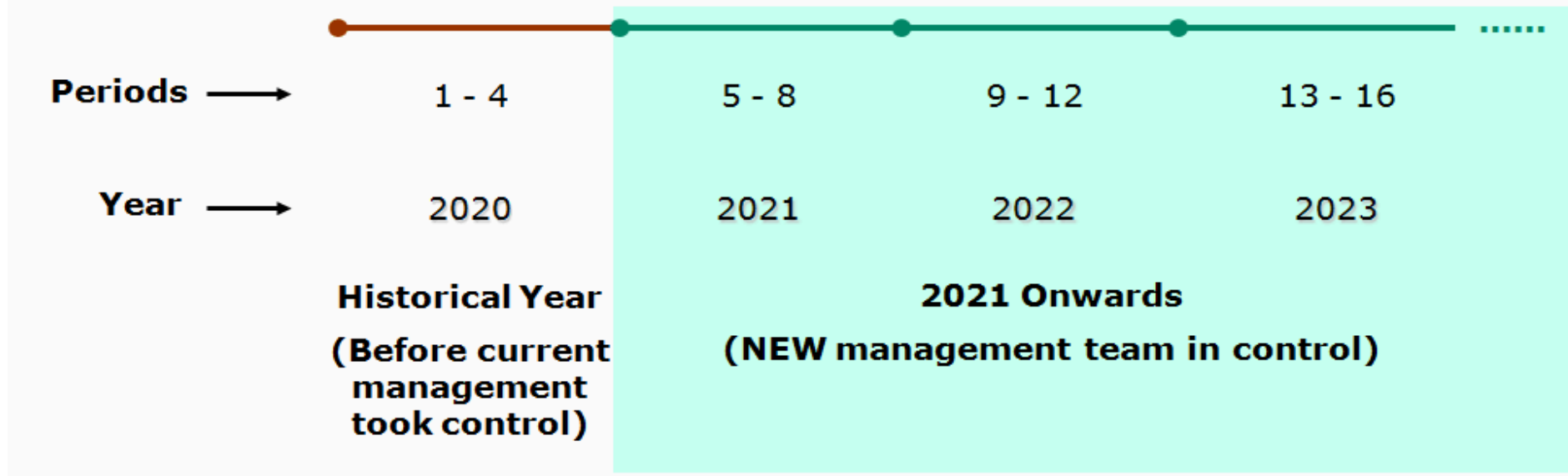
To implement the strategy **decisions** will have to be made in a number of key areas :-

- Financial management
- Overhead management
- Procurement
- Job progression



TIMEFRAME

Decisions are made for a **period**, representing 3 months, or a quarter, in the real world.



The new management team were in charge for two different stages.

THE EARLY YEARS (PERIODS 5-12)

During the Early Years the competition for jobs comes from a number of simulated companies. Each one has their own unique profile and bidding history, and a careful assessment of the opposition is required to formulate an effective procurement strategy.

THE LATER YEARS (PERIODS 13-18)

During the Later Years the teams compete 'head to head' against each other for work. This creates an even more uncertain and pressurized environment in which the skills and team dynamics formed in the early years are really put to the test.

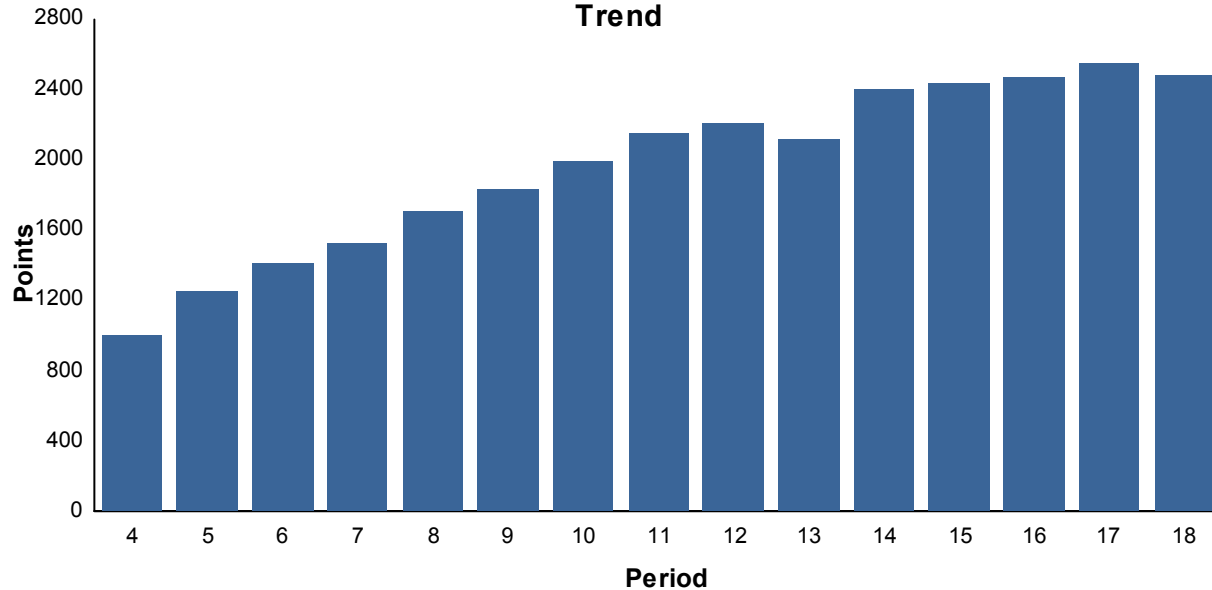
OVERALL PERFORMANCE (KPIs)

Performance Indicators were used to measure company progress, weighted at the end of the History to reflect their variability, initially to 1,000 points.

Overall company performance improved from 1,000 to 2,483 points

End Period	Status	Year/qtr	Turnover	Gross Profit To Turnover	Operating Profit To Turnover	Company Value	Capital Employed	Contract Completion	Forward Workload	Forward Margin	Share Price	Client Satisfaction	Total Rating
4	History	2020 (Q4)	40	170	120	170	130	80	70	100	70	50	1,000
5	Early Years	2021 (Q1)	49	180	145	182	149	113	118	156	81	83	1,256
6	Early Years	2021 (Q2)	57	200	176	201	162	129	125	172	83	111	1,416
7	Early Years	2021 (Q3)	66	208	191	221	172	142	127	174	82	143	1,526
8	Early Years	2021 (Q4)	72	229	222	249	180	162	139	181	94	177	1,705
9	Early Years	2022 (Q1)	79	236	234	274	187	182	144	174	108	213	1,831
10	Early Years	2022 (Q2)	86	244	247	290	192	227	148	171	133	254	1,992
11	Early Years	2022 (Q3)	90	249	250	305	196	244	171	190	160	291	2,146
12	Early Years	2022 (Q4)	96	259	260	332	196	268	138	147	178	335	2,209
13	Later Years	2023 (Q1)	98	262	260	351	190	288	66	69	167	365	2,116
14	Later Years	2023 (Q2)	99	267	257	369	192	310	207	107	194	394	2,396
15	Later Years	2023 (Q3)	100	258	237	369	195	325	232	109	173	434	2,432
16	Later Years	2023 (Q4)	105	251	232	396	198	330	208	98	189	460	2,467
17	Later Years	2024 (Q1)	112	244	227	428	199	362	179	88	207	496	2,542
18	Later Years	2024 (Q2)	114	243	222	445	195	397	98	49	184	536	2,483

Overall KPI Trend



TURNOVER

An indication of how much work the company has done

GROSS PROFIT TO TURNOVER

A measure of how profitable the company's jobs have been

OPERATING PROFIT TO TURNOVER

A measure of how profitable the company is after considering all operating factors

COMPANY VALUE

A measure of the asset value of the company

CAPITAL EMPLOYED

A measure of how well the company's infrastructure is being utilised

CONTRACT COMPLETION

An indication of how successful the company is in completing contracts

FORWARD WORKLOAD

The remaining turnover (value) of jobs still in progress

FORWARD MARGIN

The remaining profit of jobs still in progress

SHARE PRICE

A measure of the strength of the company's share price

CLIENT SATISFACTION

An indication of the strength of the relationship build up with the company's clients

PERFORMANCE SUMMARY

	History	Since	Change	Basis	Additional information
Number of periods	4	14			
FINANCIAL MANAGEMENT					
Company value	4,953,073	12,966,480	162 %	End of timeframe	
Share price	1.03	2.71	163 %	End of timeframe	
Average capital base	4,086,919	6,527,440	60 %	Each period of timeframe	
Average capital base utilisation	73 %	90 %		Each period of timeframe	
Average turnover	11,827,670	19,931,950	69 %	Each period of timeframe	
Job profit	4.2 %	6.2 %		During whole timeframe	As a % of job costs
Overhead costs	1.8 %	1.8 %		During whole timeframe	As a % of job costs
Net operating profit	1.9 %	3.7 %		During whole timeframe	As a % of job costs after tax and interest
Dividend paid	1.8 %	0.6 %		During whole timeframe	As a % of job costs
Forward workload	17,800,340	24,841,510		End of timeframe	
Forward margin	692,358	340,114		End of timeframe	
OVERHEAD MANAGEMENT					
Market share	11 %	32 %		During whole timeframe	% of the overall new work in the market identified
Market share split (UK)	0 %	0 %		During whole timeframe	% of the market share in the UK
Market share split (OV)	0 %	0 %		During whole timeframe	% of market share Overseas (outside the UK)
Head office staffing level	100 %	122 %		During whole timeframe	Optimum level is 100%
QHSE staffing level	100 %	128 %		During whole timeframe	Optimum level is 100%
Measurement staffing level	100 %	128 %		During whole timeframe	Optimum level is 100%
PROCUREMENT					
Number of jobs bid for	11	61		During whole timeframe	
Number of jobs won	6	31		During whole timeframe	
Bidding success rate	55 %	51 %		During whole timeframe	Jobs won as a % of jobs bid for
JOB PROGRESSION					
Project manager weighting	8.2	9.0		During whole timeframe	Out of 10
Project manager resignations	0	1		During whole timeframe	Due to insufficient bonus levels or being headhunted
Net gain from bonus payments to project managers	43,544	837,417		During whole timeframe	
Jobs finished early	0	24		During whole timeframe	
Jobs finished on time	0	10		During whole timeframe	
Jobs finished late	0	0		During whole timeframe	
Ineffective labour on site	1 %	1 %		During whole timeframe	
Subcontractor labour used on site	8 %	3 %		During whole timeframe	As a % of total labour
Job completion efficiency	n/a	0.95		During whole timeframe	0 to 1, where 1 is the optimum level
Reduction in job costs (build) due to targeted investments	0.0 %	0.8 %		During whole timeframe	
Reduction in job costs (risk) due to targeted investments	0.0 %	0.3 %		During whole timeframe	
For D&B jobs, change in build cost due to consultant designer	0.0 %	-1.1 %		During whole timeframe	
Measure of risk contingency included in bids	1.0	1.0		During whole timeframe	0=No contingency, 1=sensible level, 2=full risk cost
Risk cost incurred before mitigating factors	56 %	67 %		During whole timeframe	As a % of the contingency in the bid
Change in risk cost incurred due to mitigating factors	-37.1 %	-42.9 %		During whole timeframe	
Risk cost incurred after mitigating factors	35 %	39 %		During whole timeframe	As a % of the contingency in the bid