SCHULICH SCHOOL OF BUSINESS

Prepared for the McGill St. Laurent

Prepared by Akram, Harris, Kirthika & Leon

CONTEXT

McGill St. Laurent is a commodity trading firm that is involved in three main ventures: energy trading, grain trading and wholesaler of wood and lumber products (manufacturing, export and architectural).



CONTEXT

CWP Energy

Competitors: High barriers to entry

Suppliers & Customers: North American deregulated market

Grain St. Laurent

Competitors: Highly competitive

Suppliers: Grain processes, farms and resellers

Customers: Feed mills, ethanol producers, farm and international trading firms

CONTEXT

Canadian Wood Products

Competitors: Buy directly from sawmill

Suppliers: NA suppliers

Customers: Manufacturers, industrial manufacturers, lumber retailers

Canadian Wood Products – Architectural Product Company

Competitors: Other speciality wood distributors

Suppliers: Range of suppliers including high-end European manufacturers

Customers: B2B (architects etc.) & B2C (Amazon etc.)

MCGILL ST.LAURENT

- Strengths: Quality in service, human capital & competitive advantage
- Weaknesses: Unprepared for technological disruption
- Opportunities: Capitalize on disruptive technology
- Threats: Highly competitive market



MAIN CHALLENGE

There is a need to integrate disruptive technology successfully, through leveraging the strengths of the company – namely human, financial and technological capital.



MAIN ASSUMPTIONS

- 1) The relevance of block chain technology in the future
- 2) Economic growth will drive the demand for limestone



RECOMMENDATION

- 1) Enter limestone commodity market by establishing Canadian limestone production business
- 2) Build up block-chain technology by hiring 5 IT staff
- 3) Develop commodity trading platform based on block-chain technology
- 4) In the long-term, integrate the AI capacities with blockchain to establish new standard in commodity trading market.



PLATFORM

- Blockchain platform will connect the suppliers, MS and the traders.
- The platform includes an option to be on the web or through mobile (Android/Apple OS)
- Ability to add unlimited suppliers/clients
- MS does its business through established relationships and hence marketing costs are limited



PLATFORM

- Further exposure to the platform is conducted through the advertisement on LinkedIn
- Customers have the option to buy the commodity at either the current or future price, hence futures trading option is added to the platform
- The payment system is connected to the banks and credit card company.



OTHER ALTERNATIVES CONSIDERED

To create AI based telephone system to conduct trading operations.



OTHER ALTERNATIVES CONSIDERED

Advantage: Helps in reducing human error, increasing speed of operating, caters to technological advancement & implementation cost is economical and can be developed within \$200 000

OTHER ALTERNATIVES CONSIDERED

Disadvantage: Disruptive but only for the short-term and market line research shows people prefer human voice over automated voice on telephone.



RATIONALE

		Criteria						
Options	Market Growth Potential	$Competitive\ Advantage$	Return on Investment					
	Our mendation							
Other 2	Alternative							

IMPLEMENTATION

- 1) Enter limestone commodity market by establishing Canadian limestone production business
 - 2018: 0-6 months
 - \$1 million
- 2) Build up block-chain technology by hiring 5 IT staff
 - 0-12 months
 - \$1.5 million (annually)
- 3) Develop commodity trading platform based on block-chain technology
 - 0-24 months
 - \$2 million (annually, assumes 0.5 million for infrastructure)
- 4) In the long-term, integrate the AI capacities with blockchain to establish new standard in commodity trading market.
 - 0-24 months
 - Existing operating expense (AI team + blockchain team)

FINANCIAL ANALYSIS

Ratios	McGill StLaurent	CWP Energy	Grain StLaurent	Canadian Wood Products	
Inventory Days	28.45	108.09	5.77	-	
Receivable Days	38.88	125.33	33.19	5.70	
Payable Days	16.69	53.42	13.83	2.64	
Cash Cycle Conversion	50.64	180.00	25.12	3.06	
Inventory Turnover (Times)	12.65	3-33	62.37	N/A	
Return on Capital	39%	5%	18%	134%	

FINANCIAL ANALYSIS

McGill StLaurent Financial Statements	McGill StLaurent	CWP	Grain StLaurent	CWP Energy				
Balance Sheet		Amount in \$ Million						
Assets		Alliooi	icini ş iviimon					
Restricted Cash	2.212	-	_	2.212				
Receivables	20.102	16.776	1.379	1.947				
Prepaids	2.424	-	-	2.424				
Inventory	13.613	13.391	0.222	-				
Fixed Assets	4.526	4.526	-	-				
Goodwill	0.110	0.110	-	-				
Total Assets	42.987	34.803	1.601	6.583				
Liabilities								
Accounts payable	7.986	6.618	0.532	0.836				
Line of Credit	18.583	16.871	0.502	1.210				
Long Term Debt	2.664	1.664	-	1.000				
Stockholders Equity	13.754	9.650	0.567	3.537				
Total Liability & Equity	42.987	34.803	1.601	6.583				

FINANCIAL ANALYSIS

McGill StLaurent	2014	2015	2016	2017	2018	2019	2020
Financial Statements	Actual				Projections		
i illanciai Statements			Amou	unt in \$ mil	lions		
Sales	188.38	158.09	171.97	188.72	204.39	248.77	396.68
Less: Cost of Sales	-180.17	-147.04	-155.77	-174.66	-189.16	-227.04	-355.95
Gross Profit	8.21	11.05	16.20	14.06	15.23	21.73	40.73
Less: Operating Expenses	-7.17	-7.71	-9.63	-8.72	-10.88	-14.48	-18.42
EBITDA	1.04	3.34	6.57	5.34	4.34	7.24	22.31
Gross Margin %	4.36%	6.99%	9.42%	7.45%	7.45%	8.73%	10.27%
EBITDA %	0.55%	2.11%	3.82%	2.83%	2.13%	2.91%	5.62%

RISKS AND MITIGATION

- Security Risk
- Proposed Mitigation Strategy: Maintain high-level tech expertise in-house and enhance technological expertise of the risk committee



RISKS AND MITIGATION

- Regulation Risks: Government may limit the use of blockchain technology
- Proposed Mitigation Strategy: Seek FinTech certification and accreditation through leveraging current government contacts



RISKS AND MITIGATION

- Tech giant may launch competing trading platform product
- Proposed Mitigation Strategy: Build industry alliance or coalition to implement the platform as an industry-wide standard.



CONCLUSION

The blockchain based platform meets the disruptive technology criteria that would help MS be a world-leading trading company.



McGill StLaurent	2014	2015	2016	2017	2018	2019	2020	
Financial Statements		Actua	al		Projections			
Financial Statements	Amount in \$ millions							
Sales	188.38	158.09	171.97	188.72	204.39	248.77	396.68	
- CWP Energy	64.94	51.50	64.33	48.86	51.30	59.00	73.74	
- Grain St Laurent	15.83	23.46	13.80	15.17	15.93	18.31	22.89	
- Canadian Wood Products	107.62	83.12	93.84	124.69	137.16	171.46	300.05	
Less: Cost of Sales	-180.17	-147.04	-155.77	-174.66	-189.16	-227.04	-355-95	
- CWP Energy	61.42	47.90	58.27	45.22	47.48	54.60	68.25	
- Grain St Laurent	16.52	21.82	12.50	14.04	14.74	16.95	21.19	
- Canadian Wood Products	102.24	77.31	85.00	115.40	126.95	155.49	266.52	
Gross Profit	8.21	11.05	16.20	14.06	15.23	21.73	40.73	
- CWP Energy	3.52	3.60	6.06	3.64	3.82	4.40	5.49	
- Grain St Laurent	-0.69	1.64	1.30	1.13	1.19	1.36	1.71	
- Canadian Wood Products	5.38	5.81	8.84	9.29	10.22	15.97	33-53	
Less: Operating Expenses	-7.17	-7.71	-9.63	-8.72	-10.88	-14.48	-18.42	
EBITDA	1.04	3.34	6.57	5.34	4.34	7.24	22.31	
- CWP Energy	2.17	1.99	3.11	0.50	0.41	0.68	2.09	
- Grain St Laurent	-1.55	0.27	0.23	0.10	0.08	0.14	0.42	
- Canadian Wood Products	0.42	1.08	3.23	4.74	3.86	6.43	19.80	
Total Gross Margin	4.36%	6.99%	9.42%	7.45%	7.45%	8.73%	10.27%	
Total EBITDA	0.55%	2.11%	3.82%	2.83%	2.13%	2.91%	5.62%	