

Sustainable Development (SD) and Value Creation

Sustainable Development in Communities - McMaster University November 26, 2007

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Objectives

- Define sustainable development (SD)
- Identify which industry sectors are embracing SD
- Outline the business case for SD





Sustainable Development...

"meeting the needs of the present without compromising the ability of future generations to meet their own needs"

World Commission on Environment and Development, 1987









Environment

- increase recycling efforts
- produce less waste
- support energy efficiency
- reduce spills
- lower SO₂, NOx, greenhouse gas emissions
- support biodiversity
- manage nuclear waste
- ISO 14001

Sustainable Development

Society

- support door-to-door community outreach, plant tours, etc.
- support work/family life balance programs (e.g. flexible work hours)
- recognize value of a diverse workforce

Economy

- support local procurement
- support local hiring
- support training and scholarship programs

















Alcan

Rio Tinto

Canfor

Shell Canada

Suncor













Coca Cola

Ricoh

Baxter

Rezidor

L'Oreal

Royal Bank







Holcim

Eskom Heineken

grupo Portucel Soporcel



bhpbilliton

ROHM

SONY

SKANSKA

Votorantim

conoco

INTERFACE

RMC Group p.l.c. MONSANTO

Sustainable Development, Quality of Management and Shareholder Value

Causal Factors/ Direct "Bottom Line" Impact

- access to markets/new build
- employee attraction/productivity
- discount on borrowed capital/ lower insurance premiums
- address customer demands
- facilitate partnerships
- increase efficiency
- inclusion in "SD" Funds

Correlational Factors/ "Quality of Management"

- corporate governance
- product innovation
- financing options
- manufacturing processes/ production line efficiency
- skills upgrade
- continuous improvement



SHAREHOLDER VALUE

Sustainable Development Index -- SDI

Method

- Quantitative
- Comprehensive
- Proprietary

Measures

- Practical
- Meaningful
- Cost Effective



Analysis

- Industry Specific
- Rigorous

Level 1 Metric	Level 2 Metric		Ranking					
WIGHT		0	1	2	3	4	5	
General	SD Policy							
	Goals and Targets							
	Contact Persons							
	Stakeholders Identified							
	etc., etc.	Avg. $q = 3.5$				$n_q = 4$		
Environment	Waste Production							
	Energy Consumption							
	Energy Conservation							
	Water Consumption							
	Land Remediation							
	etc., etc.	Avg. _e = 3.8				$n_e = 5$		
Economy	Share Best Practices							
	Local Progrement							
	Local Hiri							
	Contributio Research							
	Wage Base omy							
	etc., etc.	Avg. _e	_c = 3.4			n _e	c =	
Society	Town Her							
	40 - 160							
	4							
	Performance							
	Measures							
	Aesthetic							
	Heritage Sites							
	etc., etc.	Avg. s	= 3.7			ns	= 7	

Evaluating Performance

- site visits
- questionnaires
- interviews
- reviews of SD and Environmental Reports

SDI = weighted average score

SDI > 70% = SD Company = Superior Quality of Management

ABC Co. = 72.3%





DJSI World / MSCI World:

Correlation: 0.9760 Tracking Error: 3.64%

DJSI Volatility: 16.49% MSCI Volatility: 15.51%

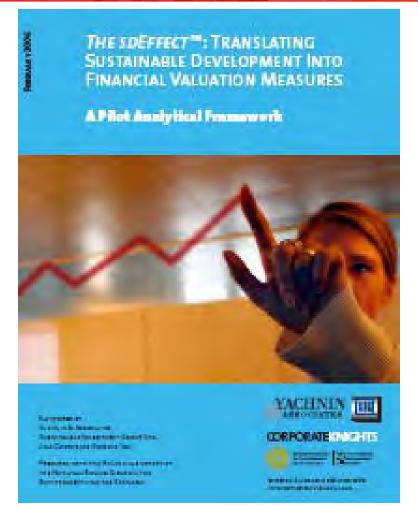
















Conclusions

- SD is industry pervasive
- SD, properly applied, creates value (it is not charity)
- Companies must be practitioners of SD if they are to retain their "license to operate"

