Take my profits, please! Volatility reduction and ethics

Transcript

Date: Monday, 13 March 2006 - 12:00AM
Location: Barnard's Inn Hall
Good evening Ladies and Gentlemen. I’m pleased to see so many of you turn up for a lecture on volatility reduction and its relationship to ethics. Tonight we’re going to explore why Corporate Social Responsibility might be financially sensible for some companies.

It wouldn’t be a Commerce lecture without a commercial. So I’m pleased to announce that the next Commerce lecture will follow the theme of better choice and explore – “How Can You Have Too Much Choice?” here on Monday, 15 May 2006, at 18:00. Well, as we say in Commerce – “To Business”.

**Shouldn’t Ethics Cost?**

In the OECD countries, we seem more concerned than ever with assigning blame and exacting compensation over longer and longer periods. We have seen tobacco, asbestos and other claims span decades. Insurers are worried about future long-term claims to do with leaded paint, air-travel-transmitted diseases, polyethylene terephthalate (PET) bottles and obesity induced by fast food. Consumers seem to want a risk-free experience; nevertheless companies have jobs to do in uncertain circumstances.

[SLIDE: SHOULDN’T ETHICS COST?]

At the same time, in the OECD countries, we have increasing expectations of corporate social responsibility (CSR). People are concerned that corporations act as good citizens looking after the disadvantaged, the environment, the ethics of their employees, their customers and the countries in which they do business. In an era when personal morals are more private than ever, we expect our corporations to be more public about their ethics; nevertheless companies have jobs to do throughout changing social mores.

Dr Gro Brundtland’s forward to the World Commission on Environment and Development’s (the Brundtland Commission) report of 1987 “Our Common Future” is frequently quoted when referring to society’s changing expectations - “What is needed now is a new era of economic growth that is forceful and at the same time socially and environmentally sustainable.” The World Business Council for Sustainable Development defines CSR:

*Corporate social responsibility is the continuing commitment by business to behave ethically and contribute to economic development while improving the quality of life of the workforce and their families as well as of the local community and society at large. [Holme and Watts, 1999]*

As with many new fields, terminology wars proliferate. A number of terms refer to investment, such as “socially responsible investment” or “ethical investment” or “sustainable investment”; a number of terms refer to corporate activities such as “corporate citizenship” or “ethically responsible behaviour or “social responsibility”; and a number of usages roll “corporate governance”, “social accountability” or “compliance” into CSR. Underneath most CSR lies the concept of sustainability. Brundtland’s report provides a working definition of sustainable development as, “Development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”

How can you argue with CSR and sustainability? Well, problems include:

- too much CSR. There are a plethora of CSR issues – “canopy grown coffee beans”, “dolphin-friendly tuna”, “child-free labour”, “non-discrimination”, “free trade”, “Sarbanes-Oxley”, “animal testing”, “corruption”, “renewable energy”, “arms control”, “conflict diamonds”, etc. Just about any public risk - environmental, ethical, governance, health or safety issue – can be a valid CSR issue. Yet people can disagree about whether something is CSR at all, for instance do we need CSR on nuclear power, pornography, gambling or marketing to children? Hard as it may be to believe, each of those issues can be seen by different people as outrageous, unethical, inevitable, permissible or even beneficial;
conflicting CSR responses to issues. For instance, some conservationists permit ‘sustainable’ use of natural resources while others insist on protected areas or ‘no-go’ zones. People can violently disagree about the means to achieve the ends, e.g. sampling whale blubber to determine toxin levels contradicts some conservationists’ policies of completely non-invasive study of animals. The definition of child labour can vary, e.g. up to what age is a person a child? If children don’t have jobs, where will the family get income? Is there an appropriate alternative activity for the children, e.g. access to education?

proportionate CSR. Something as apparently simple as “canopy-grown/shade-grown coffee beans” or “fair trade” coffee would appear to affect importers, processors, distributors and retailers of coffee. Probably also organisations that use coffee in chocolates or cakes. What about organisations that do business in coffee growing countries? But what about the coffee machines in every organisation up and down the country? Do the ends justify the means? Is the Common Agricultural Policy proportionate CSR? Where are the cost/benefit calculations?

form over substance. Just because an organisation has structured CSR programmes may not make it a better, more ethical corporation. Corporations, like people, seem to have been ethical and unethical throughout history – consider the caring Quaker companies of the 18th and 19th centuries and the Robber Barons or Satanic Mills of roughly the same period.

The increasing burden of CSR may be a sign of an affluent society moving towards a risk society, i.e., one which has moved from relations based on production to relations based on risk [Beck, 1992]. It is difficult to imagine a more absurd oxymoron than, at the extreme, ‘riskless capitalism’, yet societal values seem to be moving sharply in this direction. Increasing expectations of better ‘governance’ have led to a deluge of ethical initiatives on countless topics. Stephanie Robertson [2002] points to both the enormous number of Corporate Social Responsibility (CSR) issues and the lack of appropriate management response. One might contend that it is almost impossible to have an appropriate management response to all of these issues and get anything done.

According to the Financial Times [“Slow Reaction”, Martin Dickson, 10 July 2003 ], “Alistair Ross Goobey, one of the leading figures in the corporate governance movement, yesterday produced a neat aphorism on the ever-louder demands for better corporate social responsibility. He told an Amsterdam conference that companies are responsible for stakeholder issues but they are responsible to shareholders. And he predicted that it would take years for corporate social responsibility issues to be taken up by mainstream investors. CSR fans could face a long haul.”

David Henderson [2001] goes further, arguing forcefully in his essay “Misguided Virtue: False Notions of Corporate Social Responsibility” that the burden of CSR on organisations is harming organisations and society. Henderson links CSR tightly with pursuing the objective of sustainable development. “Sustainable development is seen as having three distinct dimensions – economic, environmental and social” – the so-called Triple Bottom Line. He notes that CSR objectives are neither well defined nor free from controversy; that many corporations and business organisations are unconsciously and irresponsibly endorsing anti-business hostility to the market economy; thus CSR has the potential to do real harm. Henderson suggests that there are four basic responses to CSR:

- enthusiastic – CSR is going to improve the world;
- moderately approving – “… judicious and well-publicised moves by firms in the direction of CSR are almost unavoidable today, and can be expected to do more good than harm”;
- dismissive – it’s just a fad;
- hostile – CSR undermines the proper functioning of the market economy.

This hostility to CSR is not a new concern, Milton Friedman wrote in 1962:

Few trends could so thoroughly undermine the very foundations of our free society as the acceptance by corporate officials of a social responsibility other than to make as much money for their stockholders as possible. This is a fundamentally subversive doctrine. If businessmen do have a social responsibility other than making maximum profits for stockholders, how are they to know what it is? Can self-selected private individuals decide what the social interest is? [Friedman, page 133]

The above may seem like a whinge about social responsibility and the inevitable laws, regulations and procedures that seem to result. Far from it. Economists such as Keynes, Hayek and Hicks have long-struggled with definitions of sustainable. In 1939
John Hicks narrowed the definition of income to “the maximum amount that could be spent without reducing real consumption in the future”. If we can’t define sustainable levels of income, consumption or resource depletion, then we can’t evaluate our actions.

If we wish to increase the common good, it certainly helps to optimise the performance of our economic organisations and ensure that they are acting in a sustainable way. The first big societal problem is determining what new behaviours we want from our economic organisations. The second big societal problem is rewarding organisations appropriately for sustainable behaviours. Without reward, organizations will not change their behaviour. There are a number of ways in which organizations might be rewarded for CSR initiatives, both carrots for success and freedom from sticks. Freedom from ‘sticks’ includes not being subject to NGO attacks, not having government impositions, not being boycotted from regions or markets, or not losing key employees with different ethical values. ‘Carrots’ might include good public relations, brand enhancement, access to contracts with CSR requirements, positive relations with NGOs, attracting higher-quality staff at lower rates or preferential access to capital.

**Shouldn’t Ethics Pay?**

This lecture is not about the politics of CSR, nor is it about the multifarious definitions, nor is it about how to implement CSR or get others to do so. This lecture is meant to explore how we might go about evaluating CSR cost/benefits within a company and within society.

[SLIDE: SHOULDN’T ETHICS PAY?]

The ideal reward for CSR in commercial organisations would be a demonstrable increase in shareholder value. If there were a proven increase in value, then CSR decisions would fit better into existing financial decision-making models and would be subject to cost-benefit approaches. Paradoxically, if CSR cannot fit into financial models, then society runs the risk of poor investment decisions leading to under or over investment in CSR with the consequent waste of public resources that under or over investment implies.

In a moment, we’ll examine the relationship between sustainability and share prices, but before doing so, I’d like you to imagine being a socially-concerned manager in an organisation. You might have seen numerous UK government advertisements of case studies where responsible corporations find that responsible actions increase profits. A frequent tale in these case studies is companies stating that they installed more efficient lighting that costs a bit more, but lasts a bit longer and consumes less electricity, so naturally this is good for the environment. So you go to the Head of Procurement at your company.

You point out to the Head of Procurement that you’d like to install this environmentally-friendly lighting. You make your case, showing him the government calculations. If you’re right about the numbers, I do hope that you are not the manager in charge of lighting procurement, because he or she should say, “I don’t need government propaganda to do my job, but I do need a decent procurement manager. I can’t believe that the person in charge of procurement has missed this opportunity to save money for so long.”

However, if you’re wrong about the numbers and the lifetime cost of these new lights is higher than what you’re already using, then what? Should the Head of Procurement approve the change anyway and increase costs? If we accept some assumptions, e.g. that the costs of electricity or disposal are accurate, I can’t see why you should increase your costs. You have an obligation to the shareholders.

However, you’re determined and you don’t think the Head of Procurement or I are thinking straight about some of the longer-term implications for shareholders. So you point out to the Head of Procurement that these new lights will make the organisation seem more environmentally-aware, more ‘green’. But then the Head of Procurement responds, “great, sell it to Marketing. Let them pay for the extra cost of green [sic] lighting.” So you go to Marketing. In some cases, the Head of Marketing might say, “what a great idea! We need to differentiate ourselves and using green lighting will allow us to claim to be more environmentally friendly than our competitors.” But in this case the Head of Marketing says, “our customers would never know the difference. All they want are inexpensive products and anything that increases our costs puts that at risk.” [see Carlisle and Faulkner for an interesting study of why CSR is not readily adopted by commodity producers].

However, you’re still determined to install the environmentally-friendly lighting. You know that your organisation could be
targeted by the Lighting Liberation Front. Unfortunately, both the Head of Procurement and the Head of Marketing see this as possible, but unlikely. Is there any way for you to make your case? This brings us to risk/reward evaluation.

[SLIDE: CALCULATED RISKS]

Now I'm told that putting an equation into a presentation ensures that 25% of the audience leaves. I'd better warn you that we might be going through a few equations, so some of your may have to leave and come back again to make the numbers work. If I can beg your indulgence for a few minutes, I think you might find some of this interesting.

Risk/reward evaluation can be summarised in three diagrams. Imagine a company where cash generated from their current operations could range from 'on budget' (0.00) to a lot more cost (-100) or a lot less cost (+100). Managers have only three generic activities at their disposal.

The first generic activity is [1] risk avoidance: managers look to ensure that, by making decisions using better skills or knowledge or pooling or insurance, they eliminate particularly adverse outcomes. For instance, the managers might build a retaining wall for storing hazardous items.

Managers typically look mostly at the second class of generic activity, [2] reward enhancement. Reward enhancement comes through cost reduction via “increased productivity”, “improved staff workplace satisfaction” or “better contracting” or relocation. A whole range of management decisions, may lead to improved outcomes. These decisions ‘shift’ outcomes positively to the right.

Finally, and more subtly, there are activities that [3] reduce volatility, by more consistently delivering on cost or income and thus ‘tightening’ the range of possibilities. If the financial case is not made by risk avoidance or reward enhancement, for some firms actions that increase costs are still good financial bets if they reduce volatility. For instance, giving better deals on long-term contracts to ensure more stable income or investing in education at local schools in order to ensure a supply of skilled labour are actions that reduce future volatility.

In this example, all three generic activities, risk reduction, reward enhancement and volatility reduction, combine to help managers move from a starting range of –100 to +100 with a mean of 0.0 to a range of –30 to +125 with a mean of 25, and a much higher likelihood of hitting that mean.

One of the interesting problems is valuing each of these three types of activity. The first generic activity, risk avoidance, is fairly straightforward to value, one multiplies the cost of avoidance times the severity and the likelihood. So if there is a 1% chance of a £100,000,000 loss, then it is worth up to £1,000,000 to fix.

For the second generic activity, reward enhancement, traditional return-on-investment calculations are sufficient. Much of this is called cost-benefit analysis. We look to see the increased cashflow from a fixed investment over a period of time. So, if by investing £1,000,000 we get £1 more than we could have obtained by raising £1,000,000 and putting it in the bank, we should start to think about doing it. Having done a few cost-benefit calculations myself, I know that the technique is not completely straightforward as there are arguments over the cost of capital, what constitutes free cashflow, how to determine if an asset is impaired, etc. Nevertheless, there are widely accepted techniques that can give a good indication of how much value to place on an investment.

Valuing Shape Changers

[SLIDE: VALUING SHAPE CHANGERS]

So, we now turn our attention to valuing the third generic activity, volatility reduction; this requires us to value the difference between the two shapes in front of you. In theory, this volatility reduction should be of value. But how? Well, here we turn to one of the most exciting advances in financial theory of the 20th Century, valuing options. What is an option? For financial instruments, options can be defined as a “contract between two parties in which one party has the right but not the obligation to do something, usually to buy or sell some underlying asset”. Call options are contracts giving the option holder the right to buy something; while put options, entitle the holder to sell something. Payment for options takes the form of an up-front sum called a premium.
For example, I may buy a call option from you for a share in a large oil company. Today the oil company's shares trade at £100. I might pay you for an option to purchase the shares at £100. We may agree that the option is for three months hence. If the company's shares are above £100 at the end of three months I may decide to pay £100 to you and own the shares. If the shares go down, perhaps to £90, I won't be interested and will just walk away. However, it is an 'option', I don't have to do anything at all.

The problem we face is agreeing how much I should pay you for the option. Let's look at two cases. If the share price is stable, say that historically it has stayed mostly between 90 and 110, we might guess that the correct price is a low number. If you take £5 now and if I decide at the end of three months to pay £100 more because against all expectations the share price hits £110, you've got your money and I made £10 on my £5 option investment. If the share price is wild, say it has historically fluctuated all over the place from £30 to £300, £5 doesn't seem fair. If at the end of three months the share is at £30 then I won't want it, but if at the end of three months the share is at £300 then you'd rather keep the share yourself than sell it to me for £100 and watch me make £200. If both £30 and £300 are equally likely, we might agree that the option average of the two is worth £65. You can easily see that the option on a wildly-fluctuating penny share is likely to be worth more than an option on a large, stable blue chip share.

Romans, Grecians, and Phoenicians traded options against outgoing cargoes from their local seaports; options were bought and sold in Amsterdam in the 16th century; the Chicago markets brought futures and options to the American heartland. But until the 1970’s financial theory was unable to provide a price for an option and people found that they had frequently put themselves into a poor position inadvertently. Starting in the late 1800’s, option pricing models became increasingly desirable. Charles Castelli, Louis Bachelier, Paul Samuelson, Richard Kruizenga and A. James Boness all touched on this area, but Fisher Black and Myron Scholes are considered to be the fathers of modern option theory, with a bit of help from Merton Miller and Eugene Fama.

In 1973 Fisher Black and Myron Scholes published a paper that revolutionised the financial markets in the latter part of the 20th Century. It was called simply “The Pricing of Options and Corporate Liabilities”. Before 1973, pricing an option was based mostly on gut feel. Black and Scholes’ formula, the Black-Scholes equation, is one of the most famous financial equations. With Black-Scholes, analysts found that they could put in a few numbers and out would come a result that not only helped them agree terms, but was also mysteriously close to the actual prices for options on traded markets. Financial analysts were able to calculate, with alarming accuracy, the value of a stock option. Most of the models and techniques employed by today’s analysts are rooted in the model developed by Fischer Black and Myron Scholes in 1973. There are a number of simplifying assumptions within the original model, such as no dividends, no commission charges, normal distributions, efficient markets, constant interest rates, and European fixed-exercise dates. Thus, there have been many enhancements, interpretations, revisions and refinements to the basic model, but it is not an exaggeration to say that the Black-Scholes model allowed all of the derivatives markets to flourish from the 1970’s onwards, from basic equity and foreign exchange derivatives to the recent rise of credit derivatives.

Black and Scholes, as did many others, realised that the volatility of the stock price made all the difference to the price of the option. Their equation used the standard deviation of the stock price and the risk-free interest rate to provide a value. So going back to our oil share example, we can value the options using Black-Scholes and see that the value of the stable one is much less than the value of the wild one. We can also see that increased volatility, measured here as the standard deviation of the share, gives more value to option holders.

To take a real life example, if we look at the comparative volatility of four major oil companies over the past year, we will see 250 day share volatility ranging from 19% to 31%. All other things being equal, this means that the lowest volatility oil company's option is worth only £7.77 while the highest volatility company's option is £11.60. On the other hand, this volatility has a depressing effect on the share price.
You can’t have your cake and eat it too. Investors expect greater returns to accompany greater volatility. All other things being equal, we would expect the oil company with the greater volatility to be riskier and to have a lower share price. This is the basis behind the risk/reward graphs beloved of many. Over 100 years here is a chart of the average returns for a few asset classes. What you can see here is a moderate relationship between returns and volatility where investors expect higher returns for higher volatility, but don’t always get them. With average US inflation over the same 100 years at 5%, you can see that US Treasury Bills would, all things being equal, lose purchasing power. Of course, what we’d like to see is the relationship between investors’ perceived volatility, perceived returns and the overall amount they’re prepared to allocate to each asset class at the time they invest. That data is virtually impossible to obtain.

**Sustainable = Stable?**

However, we can look to see if investors favour investments that deliver greater stability in a single asset class. Looking at 1,000 UK companies over 33 years, this next chart shows that the difference between the top quintile and the fourth quintile of profit stability is a 25% to 30% share price premium for the most stable quintile. This is a very strong trend, though you might note that the very high earnings volatility fifth quintile is not so disadvantaged against the stable first quintile as the fourth quintile due to restructuring effects within the companies. Now this leads to an interesting idea. Perhaps companies invest in their future profit stability in order to keep up their share price?

One intriguing thought has been to assume that companies that adhere to CSR should reduce earnings volatility. In many ways, CSR should make a company more ‘sustainable’. The company should be less vulnerable to actions against it (e.g. attacks from NGOs or government inquiries or bad PR or shareholder dissent), have fewer staff qualms and problems or be able to work in longer term, more stable partnerships. Reduced earnings volatility should increase value.

This takes us back to our risk/reward evaluation. Managers can use option theory to evaluate their plans for reducing future profit volatility. Further, they can estimate how reducing profit volatility may help their share price, either by looking at the sensitivity of share premia from moving to a lower quintile of volatility, or by estimating the transfer of value from option holders to shareholders from reduced volatility of share prices. Naturally, as their plans involve spending money, this expenditure needs to be contrasted with the value shareholders place on price/earnings ratios, as this example shows.

**[SLIDE: VOLATILITY LOSS = EQUITY GAIN]**

Here the managers of this company would like to reduce perceptions of future profit volatility from 50% to 20% on a company with a £10 billion market capitalisation. They have estimated a gain of 15% on the share price from profit volatility reduction. They have also estimated a gain of 10% on share price from share price volatility reduction. As the company has a price/earnings ratio of 8, if they cut costs by £125 million, the share price would also rise by one billion. Thus, the managers are justified in investing up to £125 million in CSR expenditure that reduces their profit and share price volatility. This over-simplified example that ignores a number of complexities such as reduced volatility on larger market capitalisation, but nevertheless illustrates how these measures work.

In real life, I worked with one large telecommunications firm that began measuring internal perceptions of concerns against external stakeholder sentiment (e.g. growing the data market while protecting the vulnerable), identified conflicting stakeholder expectations (e.g. safe but cheap mobile phones), weighed the aims of stakeholders, and set out mitigation strategies (e.g. changes to sourcing or encouraging industry-wide activism). Each of these concerns had a potential risk (severity and likelihood) that affected future perceived profit volatility, but expenditure on the concern led to reduced future profit volatility. For instance, locating transmission masts away from schools cost more, but led to a reduced risk of being affected by possible future public concerns about the safety of schoolchildren near mobile phone masts. A model was built that allowed managers to estimate the effects of their risk reduction by CSR and that model fed some basic share price estimations. In a manner very similar to valuing the shape changes earlier, the firm’s managers could derive cost-benefit numbers for CSR. By knowing the value of CSR, the telecommunications firm was able to increase its pursuit of safer network provision at higher cost knowing that it was adding to net shareholder worth and protecting brand value.
Measuring The Immeasurable Benefits Of CSR

Moving from CSR back to volatility, companies that adhere to CSR should have lower earnings volatility and this should feed through to higher share prices. In overly-simplistic terms, the value in the volatility should move from option holders to shareholders. In order to do this we need to measure CSR in the first place. A number of organisations are experimenting with a variety of approaches. In essence, the gist of most solutions is to rate organisational adherence to CSR initiatives in a comparative rating system, for instance Business in the Environment (BIE), The Ethical Investment Research Service (EIRIS), Innnovest, Sustainable Asset Management, Core Ratings, FTSE4Good, SERM or Trucost [a good overview of many of these in CSR Europe, 2002]. Each of these organizations tackles measurement in different ways, but they can broadly be categorised as either individual or index, and inclusive or exclusive. Some organizations provide individual corporate ratings; others provide an overall index comparing one ‘ethical’ group against a norm. Inclusive approaches attempt to rate everyone; exclusive approaches leave out certain categories, say tobacco or defence, e.g. FTSE4Good.

Attempts to measure CSR benefits are numerous. For instance, for the USA and foreign businesses rated by GovernanceMetrics International, companies with the worst governance ratings returned 5.4% for the 12 months to August 2003, compared with 11% for all stocks rated. The Dow Jones Industrial Average gained 9.7% in over the same 12 months. In Australia a 2003 study by AMP Capital Sustainable Funds sought to prove the link between sustainability and investment on performance and claimed to show over a four year period and a 10 year period that companies with a higher CSR rating outperformed others by more than 3% per annum. On the other hand, UK ethical investment vehicles may, as a class, have under-performed, or over-performed, traditional investment vehicles depending on whom you believe, which index, which comparator and which time period. In some unpublished research Kim T Christensen and Brian Khyl of Copenhagen Business School ’s Department of Finance examined three indices in 2002, SERM, FTSE4Good and the Dow Jones Sustainability Indexes (sic) and concluded that over certain time periods some CSR indices may outperform the market. Roger Cowe in 2002 wrote that “the jury is still out”. One authoritative review in 2004 came from the United Nations Environment Programme Finance Initiative which, working with major global investment banks on 11 studies, concluded that it is too early to see definitive studies proving CSR results in superior performance, though that is no reason to quit – “The majority of analysts noted difficulties in comparative analysis due to the range of reporting practices for environmental, social and corporate governance risks and opportunities”. There are a variety of reasons for these inconclusive results, ranging from the small sample sizes provided by current ratings, the short time periods for which data is available, the imprecision and weighting of the ratings.

For similar reasons, share price volatility has yet to be correlated to CSR ratings.Further research on the links between CSR and volatility may yet produce some results over longer time periods or with other performance measures such as profit or price/earnings ratios. Worth a special mention is that Gresham College supports the Enhanced Analytics Initiative that promotes international collaboration between asset owners and asset managers aimed at encouraging better investment research, in particular research that takes account of the impact of extra-financial issues on long-term investment.

Societal Gains

One final application of measuring CSR benefits using volatility is to try and estimate society’s gains from reduced volatility. If something is sustainable, then it should have less volatility than something that is not sustainable. One interesting study was done with the Marine Stewardship Council (MSC). The MSC provides a logo for sustainable fishing in return for fisheries and others in the supply chain adhering to sustainable fishing and supply practices. The MSC wanted to be able to estimate the value of certification, so it turned to Black-Scholes.

The societal value of sustainable certification can be assumed to lie in a better supply of fish combined with reducing the societal cost of unused capacity. Less volatile catches mean more sustainable fish stocks – naturally assuming that the non-volatile catches are greater than zero. If fish stocks are unstable and the volatility of landed fish is very high, then the economy will have too many boats, canneries, refrigeration facilities and store shelves. In some years, the boats, canneries, refrigeration, shipping and stocking facilities are largely idle, in other years they are working flat out. However, if fish catches were more stable and the volatility of landed fish is low, then the entire supply chain can be more optimal.

Looking at the Alaskan salmon industry’s fish price data over 30 years, a reasonable estimate was that certification for
sustainability could be estimated to reduce the hedging costs of just sockeye salmon from 40 cents a pound of fish to 29 cents. According to the calculations, the implied saving is more than $1m a year which is 50 times higher than the cost to the Alaska salmon industry of MSC certification - $100,000 every five years.

[SLIDE: SUSTAINABILITY]

Another way of viewing risk/reward is to see that a combination of all three activities, viz. risk avoidance, reward enhancement and volatility reduction helps companies to increase margin, stability and flexibility. So we can see that volatility matters to sustainability. We can also see that volatility can be valued. The key point is that we can, and do, use option theory to value volatility reduction in financial terms. Consequently, in that paradoxical way of options, we frequently recommend selecting the more expensive option, if we can prove that the volatility reduction justifies it.

CSR initiatives seem to be here for the medium-term, despite Henderson’s and Friedman’s misgivings. CSR initiatives do cost companies money, but are intended to produce better returns, attract investment or reduce the volatility of certain key performance measures. If, over time, CSR cannot be shown to improve financial performance or valuation for companies that sign up, people will need to re-think CSR and how they should really measure corporate contributions to society. In the meantime, studying the link between CSR and financial performance remains a fruitful area for investment research.

And it is the thrust of that research that leads me to my final point. If all of this research proves that CSR can be measured, that CSR investment can be quantified and that CSR returns are superior, where are the ethical problems in doing the obvious? Is investing in CSR activity that pays back an ethical question or just a normal business investment decision?

[SLIDE: DISCUSSION]

Thank you.

Further Discussion

- Is there anything intrinsically wrong with being ‘good for profit’?
- If NGO activism on an issue increases uncertainty for companies, is this rational for the NGO?

Further Reading

- “A Novel Use for Options Theory - Fishy Maths”, The Economist (16 August 2001)
- Robertson, Stephanie, Dilemmas in Competitiveness, Community and Citizenship, The London School of Economics and Political Science (August 2002).
“Sustainability Pays”, Forum for the Future (July 2002)

Further Surfing

- Numa option calculator - http://www.numa.com/cgi-bin/numa/calc_op.pl.
- AMP Capital study

Thanks

My thanks on the thinking behind this lecture to Ian Harris and to Brendan May and the Marine Stewardship Council for giving us our first opportunity to try out these ideas.

©Professor Michael Mainelli, Gresham College, 13 March 2006