# Introduction to Sustainable ERM

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## Outline

- Key Terminology
- Global Sustainability Trends from Key Stakeholders
- Industry Best Practice
- Sustainable ERM
- Comparison with Traditional ERM
- Benefits
- Summary and Future Work
- Q&A



Evolution of 'Sustainability'	
- "Meeting the needs of the present generation without compremising the ability of future generations to meet their - "light to re-earline underlying objectives and rationales for economic/financial growth at the expense of resource depletion and environmental dependance - "Resource opportunities to transversement dependance" - "Business opportunities to transversemental dependance."	
* Formation of feet Practice in different actions from a moral imperative to strategy differentiator Learned afferings of Responsible interneting Digital debedgement of incremental, Social and discernance (150) present and Exercises  - One of the 4 meta transf, Strivard Social	
consciousness, empathy, intellectual capability and creativity while maintaining the integrity of the economy and life- supporting ecosystem  "The concept of Sustainability is not static; it continues to evolve as society changes particularly in response	
to the urgent need to move towards an environmentally, economically and socially sustainable world.	
Business Sustainability	
Definition: An objective of creating value consistent with the long-term preservation and enhancement of financial, human and natural capital  Financial Capital  Economic resources generated by financing, operation and investment to continuously support core business  Monetary and physical assets as traditionally represented on a balance sheet	
<ul> <li>Monetary assets to cover the economic effects of risk taking activities</li> <li>Property-based tangbles including buildings, equipment, investory and infrastructure</li> <li>Human Capital</li> <li>Human resources including people, institutions and relationships on which the health of the organization depends</li> </ul>	
Stills, knowledge, subject matter expertise, and knowledge-based tangibles such as models and analytical assets or other intellectual properties  Human relationships, employee engagement, trust, brand value and partnerships (also refer to as social capital)  Natural Capital  Natural resources and processes needed by organizations to maintain operations, produce products and deliver services.  Natural capital includes both renewable and non-renewable resources, e.g., plants, animals, air, water, soils, minerals	
ESG (Environmental, Social and Governance)	
Definition: risk factors evaluated in assessing Sustainability performance of company, accounts and portfolios	
Main Application:  • Enterprise Risk Management  > Comprehensive Capital Management  > Stakeholder Relationship Management  > Stakeholder Relationship Management	
Sustainable Development     Undernvriting     EG data in commercial pricing     Creating differentiated value by engaging clients to understand and improve their ESG performance     Investment	
Portfolio management using ESG     Identify new investment opportunities in the current low interest rate environment	

How Does ESG Impact the Financial Outcome?	
Revenue, Operational Expense, Brand Equity, Cost of Capital, Stock Price, etc.	
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lumerical Evidence: Sustainability As a	
ifferentiator	
han 100 literatures reviewed by Deutsche Bank: gh Sutainability firms have a lower cost of capital in terms of debt and equity % of the studies show market-based outperformance of High Sustainability firms and 85% of the studies	
exhibit accounting-based outperformance SG factors are statistically correlated with superior risk-adjusted returns	
ly of over 190 papers conducted by the University of Oxford:  % of over 190 papers conducted by the University of Oxford:  % of the studies on the cost of capital show that sound Sustainability standards lower the cost of capital of	
mpanies % of the studies show that stock price performance of companies is positively influenced by good	
stainability practices  fi sustainability firm: a company which has adopted a comprehensive set of corporate policies related to the incoment, employee, community, products and oustomers; consequently, has high ESG disclosures and	
inability reputation.	
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Key Stakeholders	
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## Shareholders

- Growing trend toward ESG investors
- Activist investors driving change in the board room and up the supply chain
- Changes driven by rising social consciousness and awareness of human impact



#### **Businesses**

- Transition to a cyclical system that relies less on new materials but seeks to reuse and recycle materials
- Considering the issues of overharvesting, pollution, and natural capital depletion
- Adoption of Sustainability policies and procedures, including construction of green buildings, use of renewable energy sources, and contracts with suppliers emphasizing sustainability



## Customers/General Public

- Growing demand for responsible brands
- Increase in purchase of ethical products and locally sourced products Sustainability as a product differentiator
- Customer expectation on companies to lead and behave ethically
- Beyond consumers, the public has a stake in the sustainability practices of large corporations



Employees  • Employee engagement through Sustainability initiatives  • Commitment to ESG as an important factor in attracting talented employees	
Universities  • Sustainability-related programs in business schools  • Increase in Sustainability-related research	
OS.	
Regulators  • Regulatory reporting beyond the financial disclosure in many countries and/or industries  • Mandatory disclosure on ESG issues in some regions (e.g. EU, South Africa, Australia, etc.)	

## Ratings Agencies

- Many sustainability ratings agencies
- Incorporating Sustainability in its credit rating (e.g. Moody's)
- Global Initiative for Sustainability Ratings (GISR) seeks to create a unified ratings standard incorporating sustainability



Industry Leading Sustainability Practice

 Incorporate Sustainability principles in asset and liability management through Principles of Responsible Investment (PRI) and Principles of Sustainable Insurance (PSI)



## Best Practice Takeaways

- Proud of Sustainability plans
- Prominent display of Corporate Responsibility (CR) and ESG reports and their implications
- Culture of Sustainability established at all levels of the corporation
- Rewards offered to employees for Sustainability-related decision making
- $\bullet \ \ \text{Expectation for employees to act in accordance with Sustainability-driven values and goals}$
- Holistic view of  ${\sf ESG}$  shows improvements over time, and throughout the enterprise

Companies examined: Allianz, Aviva, Co-Operators, Insurance Australia Group, SCOR and Swiss I



Sustainable ERM	
Alanagement of financial, human and natural capital for the purpose of stakeholders' shared	
Includes a second of the secon	
Salar endours to outer salar including arent salar includes (environment and include generations).  Leadership ethics in SERM ensure no stakeholder is disadvantaged by the actions of others.  Values	
<ul> <li>Economic value, satisfaction and stewardship</li> <li>Corporate value that embraces sustainability produces more intelligent, sustainable and inclusive growth that captures the rure value of human and natural capital</li> </ul>	
Capital Management  Comprehensive capital management including financial capital, human capital and natural capital  Manadabitty, quality and affordability affect long term viability of an organization's business model	
and capability of long-term value creation	
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Comparison with Traditional ERM	-
Emphasizes shared value that contributes to sustainable development of the firm and society	
Highlights natural capital, human capital, and financial capital     Requires data from non-finance related departments - i.e. HR,	
Facilities, Procurement, IT     Involves non-monetary based measurements	
Focuses on the long term plans in additional to short term goals     Not a reinvention of traditional ERM. SERM should be viewed as an	
extension or enhanced version of traditional ERM - capturing current risks and issues	
Benefits	
<ul> <li>Comprehensive Capital Management</li> <li>Stakeholder Relationship Management</li> </ul>	
Sustainable Development	

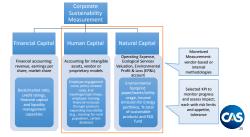
Key Benefit I: Comprehensive Capital	
Management	
Quantification of non-financial performance  • Provide consistent, robust and efficient frameworks to combine information from various sources	
<ul> <li>Reflect the true wealth of the company through monetized metrics</li> <li>Assess long-term viability of business model and strategy through KPI monitoring</li> </ul>	-
Integrated decision-making	
<ul> <li>Realize true value of financial capital: release its value through conversion into other forms of capital to support long-term value creation</li> <li>Facilitate the creation of stakeholders' well-being</li> </ul>	
Corporate strategy	
Strategically deploy capitals by concerning availability, quality and affordability     Manage, maintain and enhance the capital assets	
Key Benefit II: Managing Stakeholder Relationship	
Use capital model in conjunction with stakeholder analysis	
Effective in managing stakeholder relationship and corporate's intangible asset including human capital and social capital     Improvement on company's transparency, strategy and durability to attract multiple capital resources	-
Close, inward look at the company's activities and stakeholders to support better materiality assessment and decision-making for long-term value creation	
Demonstration of the ability of the company to create value over the time     Creating Trust through transparency and future-fit value proposition	
> Company's value-creating story that endures > Implied currency of insurance business > Buffer of credibility and sound reputation against potentially damaging events	
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Key Benefit III: Contribute to Sustainable Development	



- Solely generating profits is no longer sufficient on its own to justify a business's survival
- Organization's culture and ethical values are reflected in its use of and effects on the capitals
- The company becomes financially robust and resilient through flourishing individuals
- The business model continues building social resilience and functioning as force for good
- Company of high purpose: harness the power of insurance to create hope and value in the global societies
- Goals of business, sustainability of competitiveness, and goals of humanity, human welfare and well-being, coalesce to deliver resilience, adoptability and creativity for our Common Future



## A Simple Conceptual Framework



### On Measurement

- Traditional ERM focuses on managing risks that are measurable, often emphasizing return period and dollar value of risk
- Models for non-financial capitals are now readily available through internal development or from
  - External vendors include Big 4, management consulting firms (Accenture, McKinsey, etc.) and
     Sustainability consulting firms such as SustainAnalytics, Natural Steps, TruCost and Route2Sustainability
- An exact dollar value to the ESG-related risks is not a must
  Instead of quantitative analysis and evaluation, a qualitative analysis can be done
  Subject matter experts may be consulted to estimate the costs of events arising from ESG risks
  E.g., Dollar loss in sales due to negative press from unforeseen environmental risks

Being able to report on ESG metrics or non-financial capitals will allow stakeholders to evaluate the corporation and identify with the brand

"What gets measured, gets managed"
Peter Drucker, Father of Management Theory "It is wrong to suppose that if you can't measure it, you can't manage it - a costly myth."

W. Edwards Deming ('The New Economics')



## Types of Measures

To facilitate integrated decision making from a Sustainability perspective



Governance of Sustainability	
Integrated Governance: the organizational structure by which companies are directed and controlled, in which Sustainability issues are integrated in a way that ensures value creation for the company and beneficial results - Board-level oversight in absence of stand-alone Sustainability Committee	
<ul> <li>Corporate Governance Committee</li> <li>Oversee sustainability trends and impact of ESG issues to the business</li> <li>Assist in monitoring and reviewing corporate governance and reputational risk exposure</li> </ul>	
> Audit Committee  Owner ESC materiality assessment  Castaste risk and opportunities of reporting on the sustainability performance of the firm  Ermar exconplistace with new regulations and Sustainability  The complistance with new regulations and Sustainability	
➤ Risk and Capital Committee  - Actively monitor latest research and development of Sustainability  - Over see enterprise ESC risk profile and multiple capital adequacy	
Compensation Committee Like standardibility insues material to business to ESG targets Like standardibility insues material to business to ESG targets Create appropriate short and long-term incentives for stakeholder's shared value creation  Create Samuel Samu	
Chief Sustainability Officer reporting to CEO     SEO research team in both underwriting and investment     Report on the company's environmental footprint and social impact from products & services, employment practice and operation	
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Why Should Employees Embrace SERM?	
• Executives and Board	
Formulate corporate strategies that create economic, environmental and social value  • CRO	
Have a holistic framework to manage enterprise risks especially those that are traditionally considered to be 'un- quantifiable' or soft risk in nature	
<ul> <li>Managers         Increase workforce productivity and satisfaction; foster, nourish and protect human capital/ intellectual capital         Maximize value creation through effective resource allocation and staffing decisions</li> </ul>	
Risk Professionals     Better understand risk using new data (ESG data/big data) and tools for pricing, reserving, investing and risk	
management General Employees	
Learn about the characteristics and standards for future-fit business Cultivate systems thinking	
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Why Should We Embrace SERM?	
Where traditional ERM falls short:	
Engineered to work backwards from traditional (short-term) financial performance metrics     Lack of emphasis on critical ESG margins     Underestimates financial impact of ESG performance	
Less effective in managing stakeholder relationship and corporate's intangible asset including human capital and social capital     Underutilization of ESG data and information for commercial purposes	
<ul> <li>Lack of consistent and robust, yet efficient, frameworks to combine information from various sources (financial vs. non-financial/extra-financial, hard data vs. soft data, tangible asset vs. intangible asset)</li> <li>Ignoring how to anchor insurers' operation in the economy and the society</li> </ul>	_
Benefits of SERM:  Manages cash flow to ensure an adequate pipeline of capital to meet challenges and to explore strategic growth opportunities and operational efficiency	
Enables holistic management of all vital capitals and stakeholder relationships of the organization in different time horizons through ESG intelligence	
Pays attention to the wider contextual factors including stability and health of economic and environmental systems, evolving values and expectations of the society	



- Enhance the conceptual framework
- Develop ESG matrices to be adopted in SERM framework
- Create a comprehensive capital model for holistic enterprise risk and value management



