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Integrating ESG into investment process and valuation

Theory and practice

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What is ESG? Different things to different people.



- ESG is different things to different people and different asset classes.
 - Similar to different aspects of "financial" analysis.
- But with certain principles and philosophy which tends to be shared.



Source: Pixabay RBC Global Asset Management

Why do investors care about ESG



- Meeting requirements under fiduciary duty or regulations
- Meeting client/beneficiary demands (growing capital source)
- Lowering investment risk
- Increasing investment returns
- Tools and techniques to use in analysis
- Improving the quality of engagement and stewardship



Interconnectedness: Transparency to end user driving change





Intangible and ESG value is hidden from accounts

GDP doesn't include most intangibles or ESG...



Some intangibles added

Most intangibles still missing



Source: Capital without Capitalism, Westlake & Heskel, 2017. RBC Global Asset Management

...neither do company accounts.

R²s of market values regressed on earnings and book values of companies entering the public market in successive decades 1950-2013





Value found in items we can not easily account for

Not everything that can be counted, counts. Not everything that counts, can be counted.



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ESG potentially generates sustainable long-term returns

ESG could be a return (Alpha) source due to inefficient markets

Some Academic literature backs up this idea but ultimately will "hard to prove definitively" either way

- Happy and Engaged employees make better companies and make better stock returns
 - Edmans.

Does the stock market fully value intangibles? Employee satisfaction and equity prices

Incentives aligned to long term decision making make better companies and make better stock returns

 Flammer and Bansal.

Does a Long-Term Orientation Create Value? Evidence from a Regression Discontinuity

CSR proxy proposals are be positive for companies both in company fundamentals and stock returns
 Flammer.

Does Corporate Social Responsibility Lead to Superior Financial Performance? A Regression Discontinuity Approach

- · Companies with good performance on material sustainability issues significantly outperform firms with poor performance
 - Khan, Serafeim, Yoon.

Corporate Sustainability: First Evidence on Materiality

- Active ownership and positive engagements improves company operating performance and stock return
 - Dimson, Karakas, Li.

Active Ownership

Still considerable investor debate on Financial "Value factor"



ESG techniques vary by strategy and asset class



Source: Guidance and Case Studies for ESG Integration: Equities and Fixed Income (CFA Institute 2018 in collaboration with Principles for Responsible Investment (PRI). RBC Global Asset Management



Theory: How do firms create long-term value?



Combine various "capitals" to produce goods/services and more "capitals"

Source: Integrated Reporting Council RBC Global Asset Management



Where ESG fits into a theory of firm & portfolio value



Fundamental active: Philosophy and process

Starts with philosophy (or purpose).

"A sustainable company is: (1) one whose current earnings do not borrow from its future earnings (2) one whose sustainability practices, products and services drive revenues, profitability and competitive positioning, and (3) one that provides goods and services consistent with a low-carbon, prosperous, equitable, healthy and safe society." (Generation)

"Our purpose is to make a positive difference to our clients, to the companies we own and society as a whole through responsible long-term investment." (RBC Global Equities)

However, "Purpose" not pre-requisite to using ESG techniques.



Broad techniques: Materiality or risk maps & scorecards

Investment process typically has these stages:

- 1. Research stage
 - Data gather primary, secondary; quantitative/qualitative
 - Generate ideas, may screen, checklists, scorecards
 - Assess materiality
- 2. Valuation stage
- 3. Portfolio construction stage

ESG Integration techniques at all stages possible



Broad techniques: Materiality / Risk maps and scorecards

Issues	Health Care	Financials	Technology and Communications	Non-Renewable Resources	Transportation	Services	Resource Transformation	Consumption	Renewable Resources & Alternative Energy	Infrastructure
		i manciais	Communications	Resources	Transportation	Oel Vice3	Transformation	oonsumption	Alternative Energy	IIIIastructure
Environment										
GHG emissions										
Air Quality										
Energy management										
Fuel management										
Waste and wastewater management										
Waste and hazardous materials management										
Biodiversity impacts										
Social Capital										
Human rights and community relations										
Access and affordability										
Customer welfare										
Data security and customer privacy										
Fair disclosure and labelling										
Fair marketing and advertising										
Human capital										
Labour relations										
Fair labour practices										
Employee health, safety and wellbeing										
Diversity and inclusion										
Compensation and benefits										
Recruitment, development and retention										
Business model and innovation										
Lifecycle impacts of products and services										
Environmental, social impacts on assets and ops										
Product packaging										
Product quality and safety										
Leadership and governance										
Systemic risk management										
Accident and safety management										
Business ethics and transparency of payments										
Competitive behaviour										
Regulatory capture and political influence										
Materials sourcing										
Supply chain management										

Example map. Different authorities can disagree.

Source: CFA Certificate in ESG investing Official Training Manual; SASB RBC Global Asset Management



Broad techniques: Materiality / risk maps and scorecards

Health care

			Medical equipment	Health care	Health care	
Issues	Biotechnology	Pharmaceuticals	and supplies	delivery	distribution	Managed care
Environment						
GHG emissions						
Air Quality						
Energy management						
Fuel management						
Waste and wastewater management						-
Waste and hazardous materials management						
Biodiversity impacts						
Social Capital						
Human rights and community relations						
Access and affordability						
Customer welfare						
Data security and customer privacy						
Fair disclosure and labelling						
Fair marketing and advertising						
Human capital						
Labour relations						
Fair labour practices						
Employee health, safety and wellbeing						
Diversity and inclusion						
Compensation and benefits						
Recruitment, development and retention						
Business model and innovation						
Lifecycle impacts of products and services						
Environmental, social impacts on assets and ops						
Product packaging						
Product quality and safety						
Leadership and governance						
Systemic risk management						
Accident and safety management						
Business ethics and transparency of payments						
Competitive behaviour						
Regulatory capture and political influence						
Materials sourcing						
Supply chain management						

Example sector map

- Often varies by company and/or subsector
- The actual score can differ



Source: CFA Certificate in ESG investing Official Training Manual; SASB

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Fundamental: ESG valuation and assessment techniques

Adjust DCF inputs: cost of capital / fade rates / terminal growth etc.

Scenario analysis

- Explicit adjustments
 - e.g. P&L sales, balance sheet, cash flow and margin adjustments from ESG assessment
- Valuation radio adjustments
 - e.g. price to earnings ratio
- Sustainability of business model: ESG opportunities
- Asset quality or efficiency assessment
- Employee retention or incentive assessment
- Precedent Transactions +/- "ESG Premiums"



Fundamental: ESG techniques | Pros & Cons

Adjust DCF inputs: cost of capital / fade rates / terminal growth etc.

- -Theoretical Strong Basis of Intrinsic value
- -Open to manipulations; economic justification of "50bps" spreads weak
- -Cross-comparisons harder / relative values; complexity, sensitive to assumptions
- -Overconfidence in details

Scenario analysis

-Complexity, no "correct" answer



Source: CFA Certificate in ESG investing Official Training Manual RBC Global Asset Management

Fundamental: ESG valuation and assessment techniques

- Explicit adjustments
 - e.g. P&L sales, balance sheet, cash flow and margin adjustments from ESG assessment
 - Theoretical Justification
 - Complexity; Over-detail; Materiality Judgement error
- Valuation radio adjustments
 e.g. price to earnings ratio, Price / Sales etc.
 - Simpler; Relative Value
 - Pitfalls of all ratio techniques; weak economic justifications of spread
- Precedent Transactions +/- "ESG Premiums"
 - Judgement in "Premiums" plus market transaction data difficulties



Credit lens



Credit investor techniques

Fundamental credit measures e.g. margins, leverage, cash flow Qualitative or quantitative assessments: Emissions, board, employee retention

e.g. A beverages company:



Internal rating can be adjusted up/down compared to external ratings Making an investment accordingly is judged to be mis-priced



Quantitative and systematic: Factor lens



Third party ESG ratings are not consistent

Comparison of ESG evaluation by FTSE and MSCI



Current situation of ESG evaluation:

- Unlike financial analysis, ESG evaluation does not have a long history, and the standard method of evaluation is yet to be established. Disclosure of information necessary for evaluation is also not sufficient.
- The correlation of ESG evaluations by FTSE and MSCI is very low.

Chatterji et al (2014) show only low 0.3 correlation between ESG data providers.

Source: GPIF 2017. Universe for the analysis are 430 Japanese companies commonly surveyed FTSE and MSCI (as at July 2016). The plot of the diagram shows the ranking of ESG evaluation of each company (from 1st to 430th) **RBC Global Asset Management**



ESG ratings



Investors should not treat ESG scores as settled facts...

...but worthwhile analysis that needs to be understood before being acted on

The problem here isn't the ESG ratings...

...but that they can be used as objective truth



Quant techniques

Factor based:

- Do ESG factors correlate with Quality / Value / Momentum?
- Correlation seems low depending on data set
- Alternative Data sets? Combination of data sets

Is there "Factor ESG" or "Idiosyncratic" ESG" – current debate (cf. Axioma paper)

Tilting or rules based:

- Is there second order exposure eg low carbon = Norway Bank ?
- Align "real world" impact eg Diversity Index ?
- Green Revenues / Taxonomy





Consistent share price dispersion indicates persistent alpha opportunity

Rolling weekly standard deviation of 13 week returns for MSCI World & U.S. Indices



As at 16.04.2018. Source: Sanford Bernstein. RBC Global Asset Management



Greater opportunity in stock-specific risk than factors



The challenge for active managers is to:

- demonstrate an ability to exploit this market opportunity ۲
- construct portfolios that capture intended sources of returns ۲

Source: MSCI World Index, Axioma. Attribution of non-market returns for the year ending 31.12.2016. **RBC Global Asset Management**

Private Markets, Property, Infrastructure, Venture Capital

ESG ideas and techniques applicable across asset classes



WeWork, Uber highlights potential value in private market assessments

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Company ESG engagement enhances outcomes

Engagement as an ESG technique

- Enhances stock returns
- Enhances company fundamentals
- Enriches extra-financials





Source: "Active Ownership" by Elroy Dimson, Oğuzhan Karakaş and Professor Xi Li (last revised 2016). RBC Global Asset Management

ESG integration challenges and debates





Regulation Stakeholder Capitalism Where SDGs fit? "Real World" impact Active vs Passive vs Factor approaches

Stewardship / Climate / Systemic Risks

Greenwashing

Where is the idiosyncratic alpha? What fees?



Long-term value creation



"Someone is sitting in the shade today because someone planted a tree a long time ago."

– Warren Buffett



About me

Ben Yeoh

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Ben is a Senior Portfolio Manager and the Global Equity team's Healthcare sector specialist. In addition he is the team's ESG expert and sits in a non-executive advisory capacity for Responsible Investment and ESG for a leading UK investment trust.

Ben holds an MA (Natural Science) from Cambridge University gaining the top first in his year. He won a scholarship to Harvard University and studied there at post graduate level specialising in behavioural neuroscience. Ben is a CFA charterholder, a member of the UK's Financial Reporting Council's Investor Advisory Group, part of the Consultative Group for the International Accounting Standards Board (IASB) and chairman of the External Advisory Committee for the Royal London's Sustainable Investment Trusts.

Ben is also co-author on CFA the text book on ESG Investing (2019) and a playwright.

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