# The Landscape of Climate Exposure for Investors

Dario Abramskiehn
David Wang
Dr. Barbara Buchner



BRAZIL
CHINA
EUROPE
INDIA
INDONESIA
SOUTHERN AFRICA
UNITED STATES

235 Montgomery St. 13th Floor San Francisco, CA 94104, USA climatepolicyinitiative.org

#### Agenda

- Background
- Introduction to climate exposure
- Managing climate exposure
- Conclusions and recommendations

## Background

### Project background

#### Objectives:

- Understand climate exposure landscape
- Better identify and manage climate exposure

#### Approach:

- Collaborative effort between <u>CPI</u> and Stanford's <u>Steyer-Taylor</u> <u>Center</u>
- 22 stakeholder interviews
- Tool + product investigations
- Literature review

#### **Interviewed Organizations:**

INVESTMENT/ ASSET MANAGERS, ADVISORS, CONSULTANTS















**Bloomberg** 

**ESG TOOL PROVIDERS** 

**IMPACT INVESTORS** 

sonen capital

generation\_\_\_

FAMILY OFFICES, PHILANTHROPIES, ENDOWMENTS









ADVOCATES AND STANDARDS-CREATORS









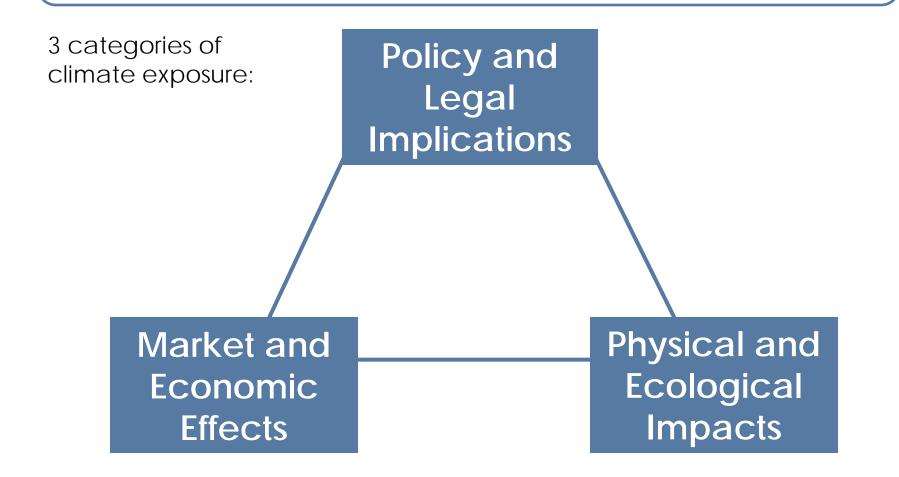


Energy Transition Advisors ETA

#### Introduction to climate exposure

#### What is climate exposure?

# Potential gains or losses in an investor's portfolio due to climate change



#### Why does it matter?

# Climate exposure is expected to have widespread effects on the value of financial assets

#### Through...

- Cost of compliance with standards or policies
- Higher energy prices
- Risk of stranded assets
- Changing agricultural and commodity prices
- Scarcity of essential resources (e.g. water, fertilizer, etc.)
- Disruptions in business supply chains
- Damage to infrastructure and other assets

... and so much more

### Challenges of managing climate exposure

#### Misalignment in timeline of risks

- Investors are more concerned with short-term risks
- Risks associated with climate change can be long-term

# Emphasis on the risks from policy actions and changing fuel prices

 Less emphasis on how the physical impacts of climate change are affecting and will affect portfolios

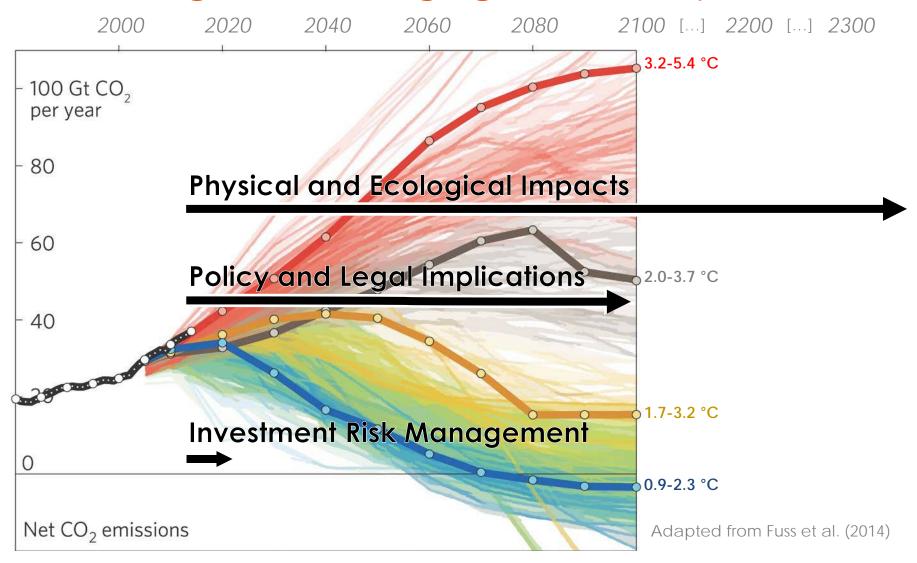
#### Focus on "brown" downside risks

 Harder to pursue "green" side and opportunities in a strategic way

#### It is a "definitionally-challenged, metric-challenged space"

Terminology isn't universal; metrics are preliminary

## Challenges of managing climate exposure



Emissions pathways and temperature scenarios overlaid with physical and ecological impacts, policy and legal mitigation efforts, and investment risk management horizons

## Managing climate exposure

## Managing climate exposure

- An ideal framework for managing climate exposure involves both minimizing climate risk and maximizing climate opportunities.
- Environmental, social, and governance (ESG) data is the primary source of information for investors seeking to manage climate exposure.
- Currently, more ESG data supports understanding climate risk rather than exploring potential climate opportunities.

Influencing Mechanism

Shareholder engagement

Divestment

Pro-climate deployment of capital

Investing Methods Environmental, Social, and Governance (ESG) Integration

Thematic or Impact Investing

ESG Data Tools

#### Flagship ESG tools

Bloomberg ESG • TruCost • MSCI • Sustainalytics

ESG and Alternative Financial Products

- Low Carbon Indexes
- Stranded Asset Total Return Swaps
- SRI funds
- Fossil Free Indexes

- Thematic Indexes
- Green Bonds
- YieldCos
- Bespoke impact investment products

#### Examples of environmental ('E') factors within ESG

Disclosure: evaluating companies on the detail, breadth, and veracity of their disclosed environmental data

Emissions: by type of greenhouse gas, by source, by greenhouse gas protocol reporting standard, per unit of revenue, emissions trading activity, amount of emissions reductions, etc.

Energy: total amount of energy consumed, amounts of particular fuels consumed, energy per unit of revenue, renewable energy used

Water: amount consumed, percent reused, total discharged, etc.

Waste: amount generated, amount recycled, and amount of hazardous waste

**External initiatives**: participation in sustainability initiatives (e.g., UN Global Compact, GRI, PRI, etc.)

Fines and litigation: number and cost of environmental fines and/or ongoing environmental litigation

Operational policies: related to energy efficiency, renewable energy, waste reduction, emissions, green buildings, packaging, etc.

#### Where do ESG tools and financial products fit into the landscape of climate exposure?

**Companies** disclose Environmental, Social, and Governance (ESG) information through mandatory and voluntary channels.

- Mandatory reporting (e.g. 10-k filings)
- Voluntary reporting to:
  - Shareholders (e.g. company CSR) reports)
  - > 3<sup>rd</sup> Party Orgs (e.g. CDP questionnaires)

In theory, investors could compile company disclosure information from each publicly available source...

**ESG** Data and Research

Organizations provide tools that aggregate, normalize, and contextualize huge amounts of ESG information for investment purposes. This ESG information is also a primary input to ESG financial products.

...but it is often more practical to get FSG information from various FSG data tools and research aggregators. AND FINANCIAL PRODUCTS

A note on disclosure frameworks: SASB, GRI, and IIRC guide companies on the types of financially-material ESG information to disclose.

- SASB creates industryspecific technical disclosure standards meant to fit within current mandatory SEC filings.
- GRI and IIRC emphasize financial materiality within voluntary disclosures.

**Investors** use ESG data and financial products to evaluate company and portfolio performance and to manage climate exposure.

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The Landscape of Climate Exposure

# **ESG data tools** can help investors tackle the challenges associated with the patchwork of available ESG data, by:

Aggregating and normalizing large amounts of ESG data – disclosed through many different channels by many different actors – in a single location

2 Comparing ESG performance between peer companies, across entire portfolios, and against many different benchmarks

3 Often adding additional proprietary ESG research and analysis which helps contextualize data and facilitate comparisons

...but they often emphasize minimizing climate risk and are limited in providing information on climate opportunities.

# While ESG data tools help investors understand their climate exposure, **ESG financial products** allow investors to actually change it.

ESG financial products incorporate external analysis of ESG factors into traditional financial products like indexes.

Performance-based ESG investing is a relatively new phenomenon, starting only in the early 2000s.

ESG indexes provide accessible solutions for investors who don't want to conduct ESG analysis in-house or across their entire portfolios.

There are three main categories of ESG indexes, each with different approaches and limitations...

#### **ESG** indexes

ESG INDEX TYPE	DESCRIPTION	EXAMPLES
EXCLUSIONARY	• Excludes fossil fuel companies, or particular subsectors like coal or tar sands, from index holdings; often referred to as divestment indexes	<ul> <li>Fossil Free Indexes US</li> <li>MSCI Global Fossil Fuels Exclusion Indexes</li> <li>FTSE Group, Blackrock, and NRDC ex-Fossil Fuels Index Series</li> </ul>
NON- EXCLUSIONARY	<ul> <li>Does not exclude fossil fuels, but often overweights high-ESG performers and underweights low-ESG performers</li> </ul>	<ul> <li>MSCI ACWI Low Carbon Target Index</li> <li>STOXX Global ESG Leaders</li> <li>SXI Switzerland Sustainability 25 Index</li> <li>iShares MSCI ACWI Low Carbon Target ETF</li> </ul>
THEMATIC	<ul> <li>Emphasizes economic, social, environmental, and other trends to inform investment strategies</li> <li>Often emphasizes investment in companies focused on climate change mitigation and adaptation</li> </ul>	<ul> <li>MSCI Global Climate Index</li> <li>S&amp;P/TSX Energy and Clean Technology Index</li> <li>MSCI Global Environment Index</li> </ul>

Sources: SSGA 2014; BlackRock 2015; SMI Indices 2014; STOXX 2014; MSCI 2014

# Alternative green investments are an important start, but still have a long way to go

#### **GREEN BONDS**

- Fixed income opportunities for green investment
- Market has grown significantly (\$40 billion in 2014 vs. \$15 billion in 2013 issuances), but is still relatively small and illiquid
- Lack a universal definition of "green" criteria
- Are often repackaged corporate bonds
- May or may not increase the total amount of financing towards lowcarbon or climate-resilient projects

#### **YIELDCOS**

- Have grown enormously into a \$20 billion global market over the past few years
- But might be more accurately described as "GrowthCos"
- Growth is predicated on the drop-down of additional renewable energy assets
- Often don't offer the stability needed by large institutional investors

#### Conclusions and recommendations

## Capitalizing on climate opportunities



Investors can design a strategy to minimize exposure to climate risk and pursue climate opportunities.



Standard-setting organizations, disclosure initiatives, and investors can lead the way towards greater disclosure from companies.



Investors and regulators can continue mainstreaming ESG investment.



Financial product and service providers can create new financial vehicles for green investments and improve existing ones.



Investors can share best practices for minimizing climate risks and maximizing climate opportunities.

# Thank you!



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