

Climate Wars – Rise of the Sea Levels

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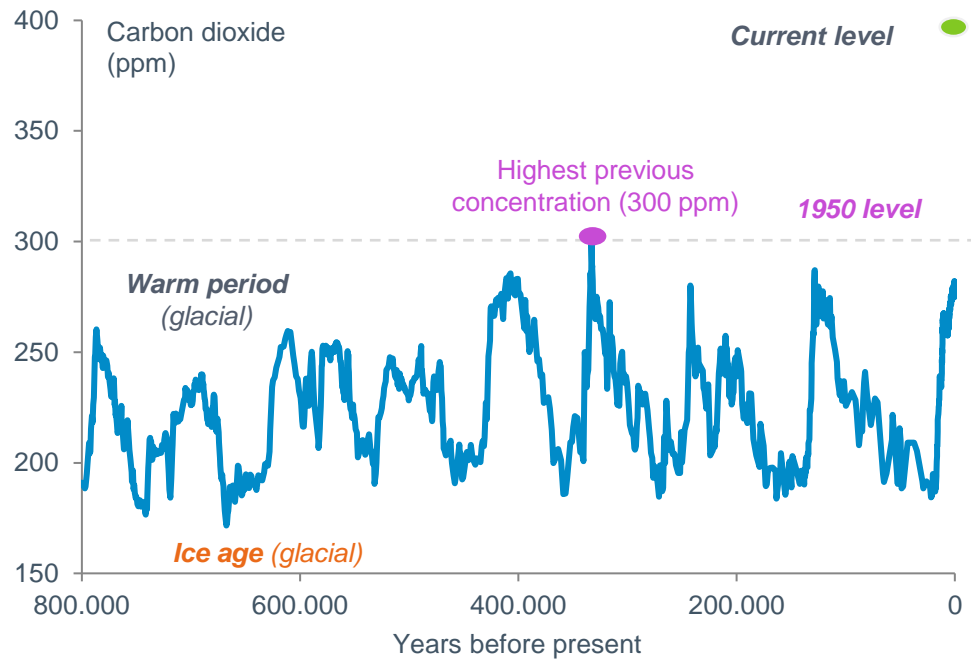
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Climate Change Overview

The Science is Deafening

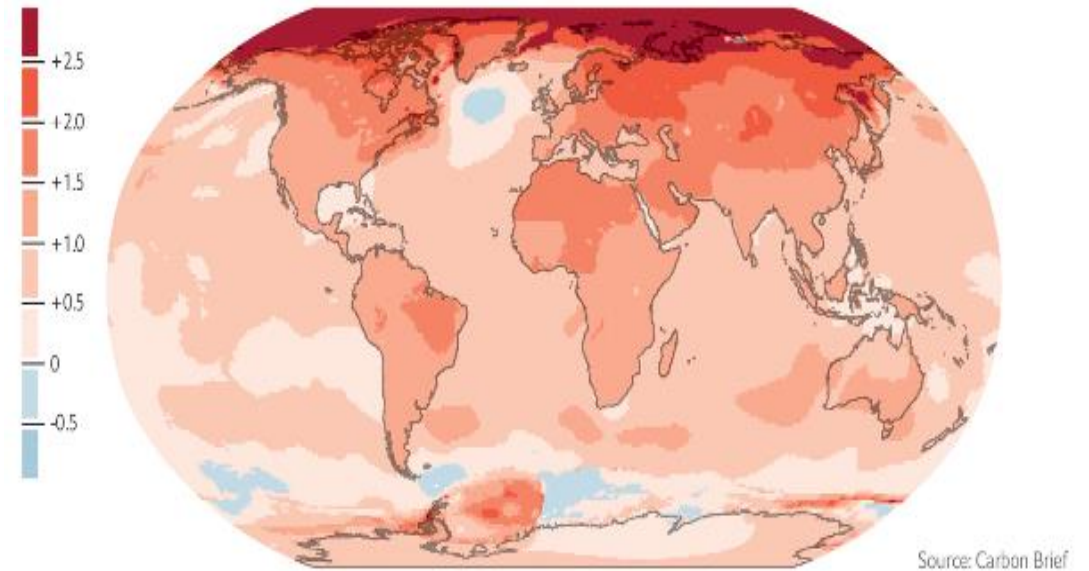
Record breaking atmospheric CO₂ temperatures



- CO2 levels highest point in at least the past 800,000 years.
- In February 2020, atmospheric CO2 reached 416.08 PPM, estimated to cause over 2oC warming.
- If PPM continue to rise as predicted, exceeding 500 by 2030, the likely scenario is a minimum of 3oC.

Source: Climate.nasa.gov, Carbon Brief, 2020.

Global temperature change, °C, 2018, deviation from 1951-80 average



- 19 of the 20 warmest years since 1951 have taken place since 2001.
- Most significant rise is seen in the arctic circle.

The consequences of our changing climate...

Broad ESG risks and the difference between 1.5°C and 2°C



**Food
Systems**



**Water
Stress**



Heatwaves



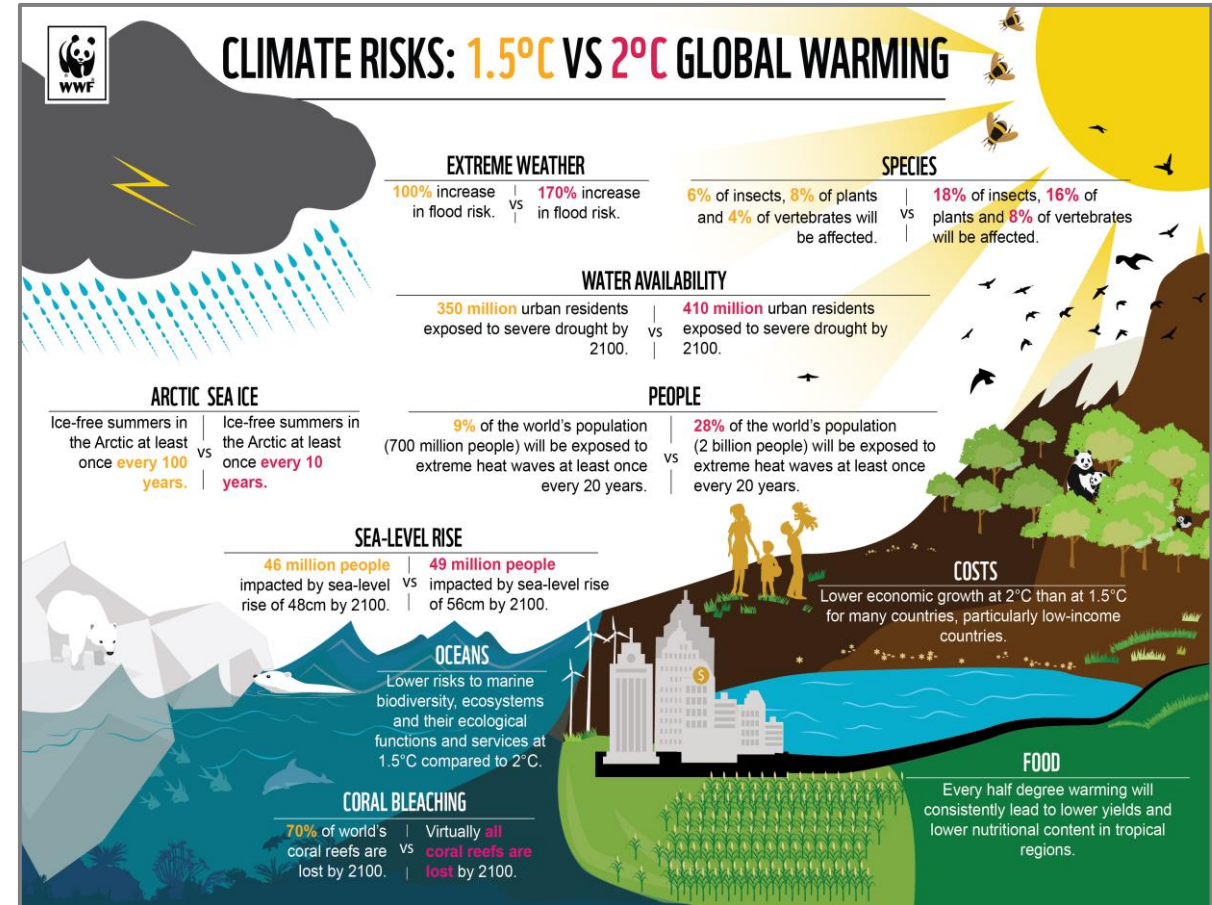
**Changing
disease
patterns**



**Climate
Refugees**



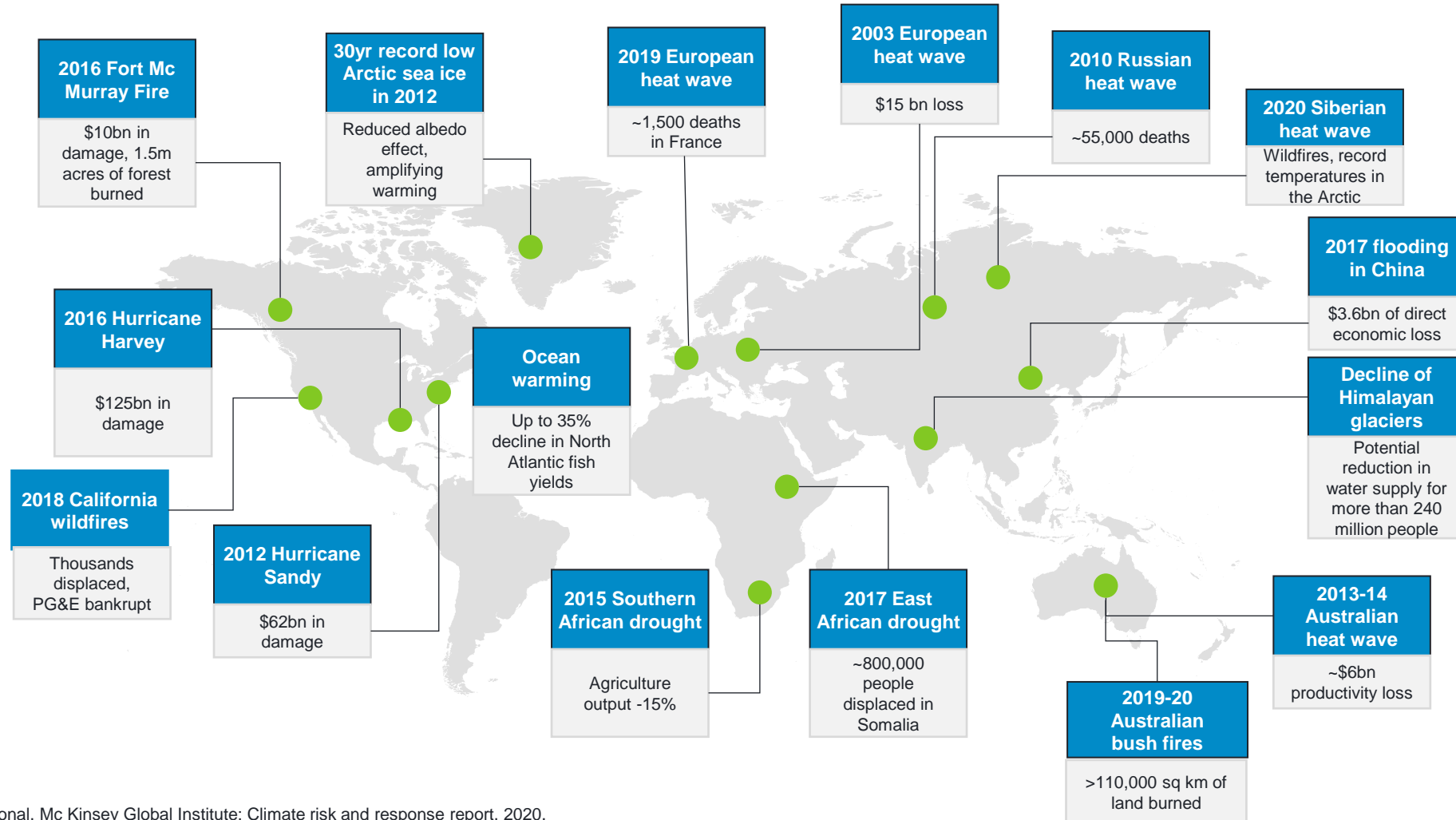
**Destructive
Weather
Events**



Source: Business Insider, Goldman Sachs Global Markets Institute, FIL

Climate change is not a future problem

Socioeconomic impact of climate change events



Source: Fidelity International, Mc Kinsey Global Institute: Climate risk and response report, 2020.

Climate Change Landscape

Regulatory and Political Initiatives

What is being done?

Location	Initiative	Description	Owner	Requirement	Status
Global	Task Force on Climate-related Financial Disclosure (TCFD)	The TCFD have developed voluntary, consistent climate-related financial risk disclosures for use by companies in providing information to investors and other stakeholders.	Self governance	Voluntary	In place
	Portfolio Decarbonization Coalition (PDC)	Coalition of investors committing to decarbonizing their investment portfolios	Self governance	Voluntary	In place
	Montréal Pledge	Allows investors to formalize commitment to the PDC, mobilizing investors to measure, disclose and reduce their carbon footprints.	Self governance	Voluntary	In place
	ISO 14097	Framework and principles for assessing and reporting investments and financing activities linked to climate change.	Self governance	Voluntary	Expected
	The Paris Agreement	Global commitment to achieve “well-below” 2 degrees of warming, established at COP 21.	Self governance	Voluntary	In place
	Asset Owners Disclosure Project (AODP)	Ranking of climate-related financial disclosures of world’s largest pension funds, insurers, sovereign wealth funds and endowments.	Civil Society	Voluntary	In place
	Climate Action 100+	A five-year initiative led by investors to engage with the world’s largest corporate GHG emitters to improve governance on climate change, curb emissions and strengthen climate-related financial disclosures	Self governance	Voluntary	In place
	The Investor Agenda	The Investor Agenda has been developed for the global investor community to accelerate and scale up the actions that are critical to tackling climate change and achieving the goals of the Paris Agreement.	Self governance	Voluntary	In place
Europe (EU)	UN Principles of Responsible Investing (UN PRI)	Set of six principles for investors to follow regarding approach to Responsible Investing. Almost 2,500 signatories with over \$80tn AUM.	UN	Voluntary	In place
	Institutions for Occupational Retirement Provision (IORP) II	EU pensions directive with specific content on climate change requirements.	Regulator	Mandatory	In place
	European Commission Action Plan: Green Deal and Taxonomy	A body of experts from civil society, the finance sector and academia advising the European Commission on how to better integrate sustainability considerations in the EU’s financial policy framework	Regulator	Mandatory	Expected
France	Article 173 of the Energy Transition Law	Legislation on mandatory carbon disclosure requirements for listed companies and carbon reporting for institutional investors, defined as asset owners and investment managers.	Regulator	Mandatory	In place
California	Climate Risk Carbon Initiative	Initiative to evaluate the degree to which California investors are impacted by effects of climate change on the economy.	Regulator	Mandatory	In place
Sweden	National Pension (AP) funds	Co-ordination of carbon footprint reporting for investment portfolios within the AP funds.	Self governance	Voluntary	In place
Switzerland	Ministry of the Environment (FOEN)	Invitation from the FOEN to Swiss pension funds and insurers to test the climate compatibility of portfolios.	Regulator	Voluntary	Expected
Netherlands	Platform Carbon Accounting Financials (PCAF)	Collaboration of 12 Dutch financial institutions to develop a carbon accounting methodology for financed emissions.	Self governance	Voluntary	Expected
UK	Green Finance Taskforce (GFT)	This Taskforce will work with industry to accelerate the growth of green finance, and help the UK government to deliver the investment required to meet the UK’s carbon reduction targets.	Regulator	TBD	In place
Canada	CSA Staff Notice 51-354 Report on Climate change-related Disclosure Project	The CSA has developed new guidance and initiatives to educate issuers about the disclosure of climate change-related risks, opportunities and financial impacts. It also intends to consider new disclosure requirements regarding non-venture issuers’ corporate governance practices in relation to material business risks.	Regulator	Voluntary	In place
China	Carbon emissions data mandated by 2020 for listed companies in China	Seven government agencies have collectively issued guidelines stating China’s intention to develop a ‘green financial system’. The roadmap will have three stages, finishing in 2020 whereby all listed companies will be required to disclose .	Regulator	Mandatory	Expected
Germany	Bundesbank: The Role of Central Banks	Conference and call for papers on the role of central banks in scaling up green finance	Regulator	TBD	Expected
Australia	Australian Prudential Regulatory Authority (APRA) climate disclosure action	Australia’s financial regulator has stepped-up its warning to banks, lenders and insurers, saying climate change is already impacting the global economy, and flagged the possibility of “regulatory action”.	Regulator	TBC	Expected

Source: Fidelity International, 2020

EU Sustainable Finance Legislation

Tools for investors, companies and issuers to transition to an economy consistent with the EU's sustainability commitments

Sustainable Finance Disclosure Regulation

Entity and product level disclosure regime

Fund classification system

Benchmark changes

Remuneration policies

Data availability

March 2021 implementation

The EU Taxonomy on Sustainable Activities

Regulatory definition of “environmentally sustainable” activities

Enhanced disclosure for sustainable funds

Data availability

Client-directed thresholds

December 2021 implementation

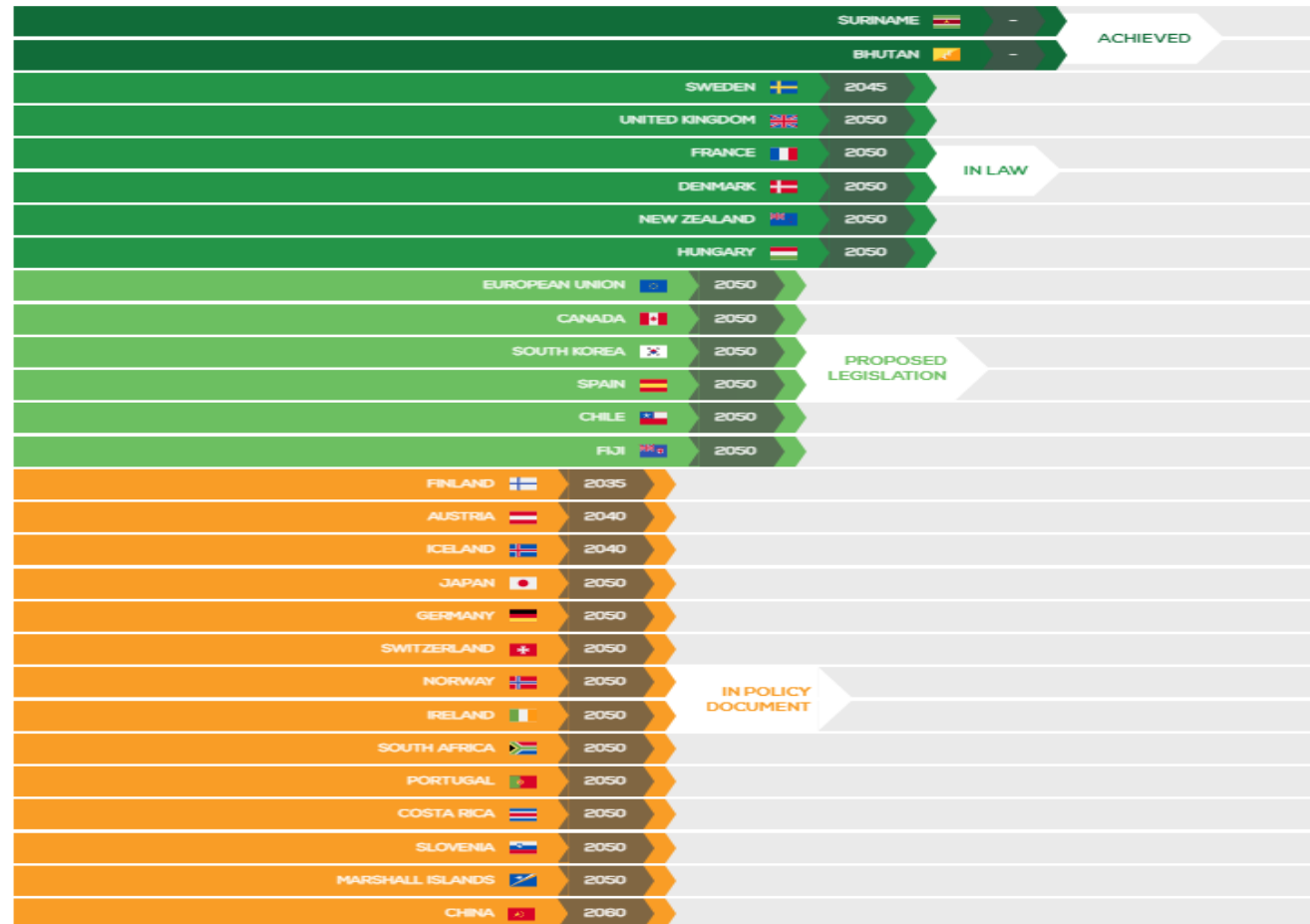
Prioritized as COVID recovery legislation

Emerging Net-zero commitments around the world

Why are Politicians taking action now, over 5 years from the Paris Conference?

- Imminence of COP26
- Increased Societal concerns – Student protests, Extinction Rebellion, etc
- The IPCC report in October 2018 - Its key finding is that meeting a 1.5°C target is possible but would require "deep emissions reductions" and "rapid, far-reaching and unprecedented changes in all aspects of society."
- Rise of 'Green' parties in some parts of the world is forcing mainstream politicians to take notice

Individual country commitments



Source: Fidelity International, 2020

Source: Energy & Climate Intelligence Unit, 2021

Regulatory and Political Initiatives

Task Force on Climate-Related Financial Disclosures



Background

- Established by the Financial Stability Board (FSB) in 2017, consists of 32 members dedicated to develop a voluntary disclosure framework that improves the ease of both producing and using climate-related financial disclosures.
- Why should investors care?
 - Better informed investment decision
 - Regulation and best practices commitment
 - Client commitment

Limitations & Challenges

- Some countries will lean towards regulations and others towards softer approaches
- Availability of data and consistent methodology
- Scenario analysis is challenging to report and quantify
- Definition of timeframe (short, medium & long term) is down to organisations

TCFD Categories – 11 Recommendations in total



Governance: The organisation's governance around climate-related risks and opportunities (2 recommendations)

Strategy: The actual and potential impacts of climate-related risks and opportunities on the organisation's businesses, strategy and financial planning (3 recommendations)

Risk Management: The processes used by the organisation to identify, assess, and manage climate-related risks (3 recommendations)

Metrics and Targets: The metrics and targets used to assess and manage relevant climate-related risks and opportunities (3 recommendations)

Global uptake (*selected examples*)

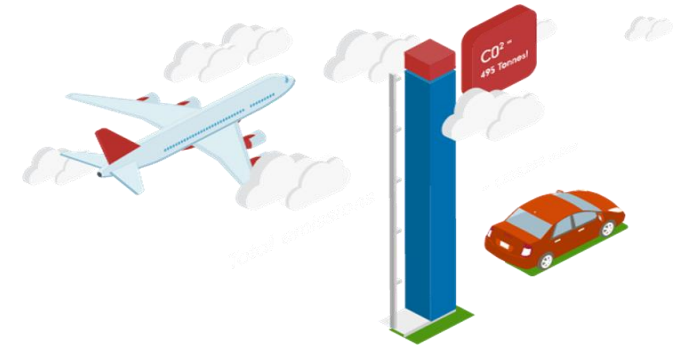
- In February 2020, the UK Government moved to require large pension schemes to report in line with the TCFD
- TCFD-based reporting mandatory for UN PRI signatories from 2020
- California legislation led CalPERS to aligning its reporting with the TCFD
- As of June 2019, 785 companies committed to supporting the TCFD (including Fidelity)
- 36 central banks encourage TCFD reporting
- 5 governments support TCFD (UK, Belgium, Canada, France, Sweden)

Source: TCFD. <https://www.fsb-tcfd.org/publications/final-recommendations-report/>

Fidelity's Approach

Net Zero Commitment

Operations and investment management



Targeting carbon neutrality

Organisational Goal:

- It is Fidelity International's aim to conduct our current and future business operations in a sustainable manner which helps create a better future for the environment.
- GHG Emissions is our most significant impact from our business operations and we are aware of the wider societal need to support the goals set out by the Paris Agreement capping global emissions to "well-below" 2°C.

We are committed to achieve net zero emissions on FIL's operational emissions by 2040*

In order to achieve this our focus will be on reduction of emissions through operational changes and investment in operational efficiencies, on-site renewals and purchasing of renewable energy whilst offsetting those we are unable to eradicate.

**The scope for the emission target includes all scope 1, 2 and 3 we have direct control over.*

Net Zero Asset Manager

In December 2020, Fidelity International became one of the founding members of the Net Zero Asset Managers Initiative, coordinated by the Institutional Investors Group on Climate Change (IIGCC).

This commitment puts Fidelity on a path towards Net Zero by 2050 and will be working on establishing a comprehensive plan to achieve this which will be launched in advance of COP26 in November 2021.

Four approaches to ESG integration

Fidelity Proprietary Rating



Why our own ratings?



Does not solely rely on public disclosures



More forward looking



Fundamental analysis



Allows fuller coverage

How we make them



Collaborative input across 180 equity and fixed income analysts



Rated relative to peer group on a standardized scale



Forward looking assessment of a company's ESG trajectory



Quantify impact on valuation

Ranked
A – E

99
Sub-sectors

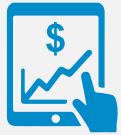
5 – 8
KPIs each

Climate change

- Climate risks are a core part of the rating for all sub-sectors
- These are the most material climate risks to the respective sector
- For example, for utilities it is setting GHG reduction targets whilst for banks it is their fossil-lending policy
- The KPIs are tagged and therefore a climate assessment can be conducted across all holdings

Four approaches to ESG integration

Sustainable Family investment framework



Integration

- $\geq 70\%$ fund assets invested in sustainable issuers (based on MSCI Sustainability ratings adjusted for regional focus¹)
- Remaining $\geq 30\%$ must be in issuers demonstrating improving characteristics²
- Stock selection decisions leveraging Fidelity's proprietary integrated ESG & fundamental research



Engagement

- Engagement with all holdings falling into 'improving' category
- Long-term investment horizon, detailed fundamental analysis and established company relationships create opportunities for meaningful engagement with portfolio holdings



Exclusion

- Exclusion categories; Violators of UN Global Compact, Tobacco, Weapons, and Thermal Coal
- Strategy specific exclusions may apply³

Focused

Actively managed diversified strategies with full integration of sustainability factors

Thematic

Investing in powerful economic growth themes within a sustainable framework

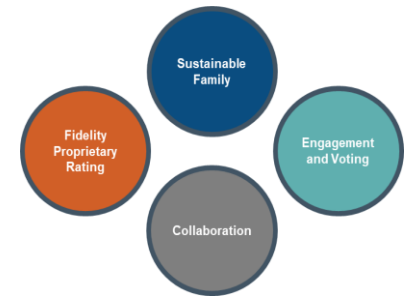
Enhanced Research (ETF)

Index-like risk characteristics with an enhanced level of sustainability

Source: Fidelity International, December 2020. ¹ \geq BBB for DM, \geq BB for EM ²Determined by Fidelity research. Does not apply to ETF strategies ³See strategy specific slides

Four approaches to ESG integration

Sustainable Family strategies – focused, thematic & enhanced research



Focused

- Fidelity Sustainable Eurozone Equity
- Fidelity Sustainable Europe ex-UK Equity
- Fidelity Sustainable European Equity
- Fidelity Sustainable European Smaller Companies

- Fidelity Sustainable Asia Equity Fund

- Fidelity Sustainable Japan Equity Fund

- Fidelity Sustainable American Equity

- Fidelity Sustainable Global Equity
- Fidelity Sustainable Global Emerging Markets Equity
- Fidelity Sustainable Strategic Bond

Thematic

- Fidelity Sustainable Water & Waste
- Fidelity Sustainable Reduced Carbon Bond
- Fidelity Sustainable Climate Solutions
- Fidelity Sustainable Future Connectivity
- Fidelity Sustainable Consumer Brands

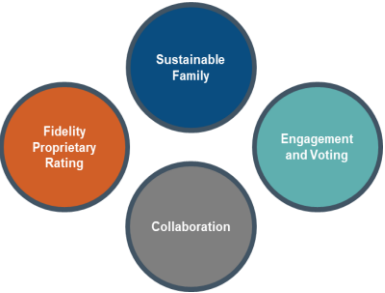
Enhanced Research (ETF)

- Fidelity Sustainable Research Enhanced US Equity
- Fidelity Sustainable Research Enhanced Global Equity
- Fidelity Sustainable Research Enhanced Europe Equity
- Fidelity Sustainable Research Enhanced EM Equity
- Fidelity Sustainable Research Enhanced Japan Equity
- Fidelity Sustainable Research Enhanced Pacific ex-Japan Equity
- Fidelity Sustainable Global Corporate Bond Multifactor
- Fidelity Sustainable USD EM Bond

Source: Fidelity International, 2020.

Four approaches to ESG integration

Engagement and Voting



680+
Companies actively engaged



4,200+
Shareholder meetings voted at



16,000
Meetings conducted with clients

Active ownership approach



Company Meetings and Formal Correspondence



Shareholder Resolutions



Collaborative Engagement



Proxy Voting



Public Policy

Live engagement themes



Financing climate change



Animal protein



Supply chain sustainability



Responsible palm oil



Corporate sustainability reporting

Source: Fidelity International, 2020

Four approaches to ESG integration

Collaboration

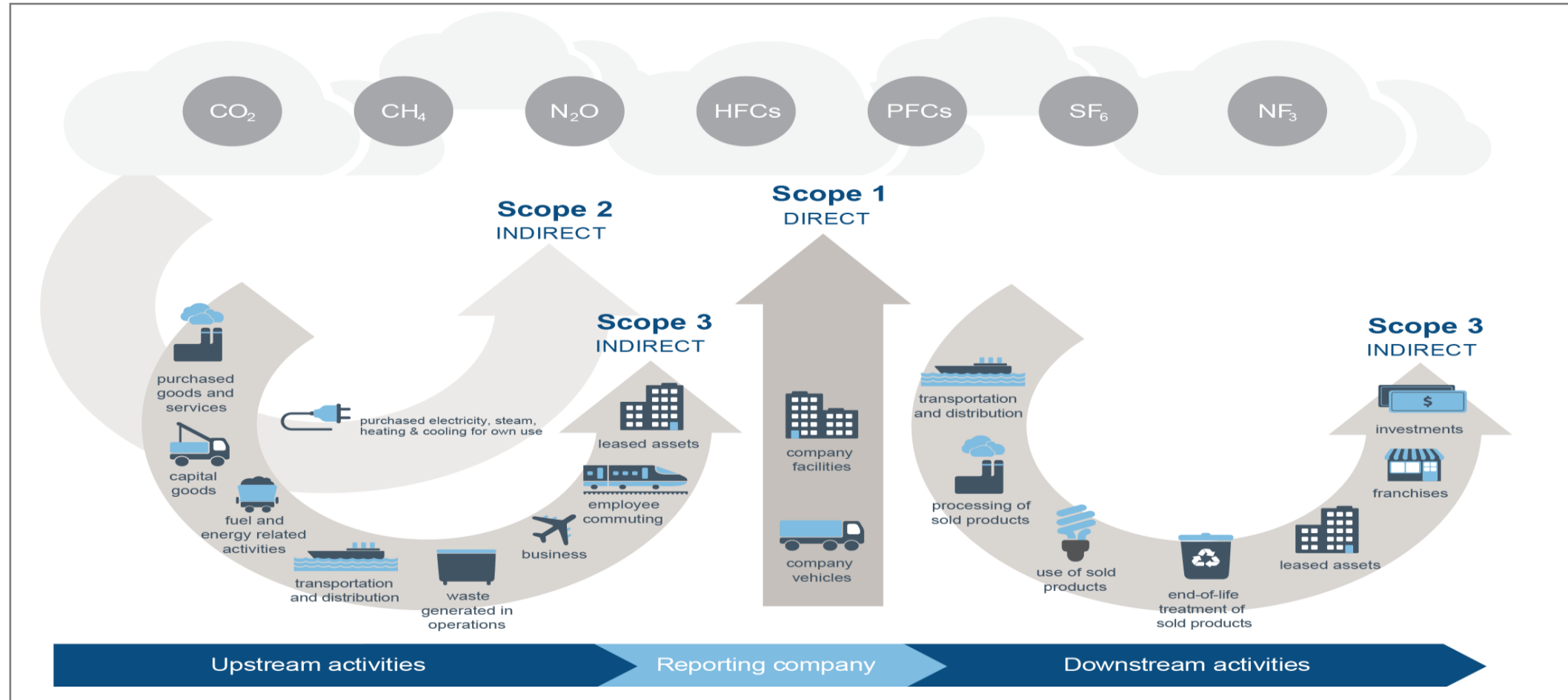


Source: Fidelity International, 2020

Understanding Portfolio Climate Change Exposure

Measuring Climate Change

Understanding Scope 1, 2 and 3 emissions



Source: Fidelity International, The Greenhouse Gas Protocol, 2019

Measuring Climate Change

Portfolio carbon footprinting

Basic carbon footprinting	Emission intensity (revenue)	Emission intensity (invested)	Emission intensity (revenue)
<p>Investor owns 1% of Company X and is indirectly accountable for 1% of Company X's Scope 1 & 2 carbon emissions.</p> <p>If Company X emissions are 100 tCO₂e, investor is accountable for 1 tCO₂e.</p>	$\frac{\text{Sum (Apportioned Emissions)} / \text{Sum (Apportioned Revenue)}}{\text{Sum (Company Carbon-to-Revenue Intensity x Apportioned Revenue Weight)}}$ <p>tCO₂e per million revenue</p> <p>Reflects the portfolio's carbon efficiency in relation to generating revenue</p>	$\frac{\text{Sum (Apportioned Emissions)} / \text{Sum (Value of Holdings)}}{\text{Sum (Company Carbon-to-Value Intensity x VOH Weight)}}$ <p>tCO₂e per million invested</p> <p>Reflects the portfolio's carbon efficiency in relation to generating shareholder value</p>	$\frac{\text{Sum (Company Carbon-to-Revenue Intensity x VOH Weight)}}{\text{tCO}_2\text{e per million revenue}}$ <p>Reflects the average carbon-to-revenue efficiency of the companies held in the portfolio</p>

This metric is recommended by the TCFD and adopted by the Swedish Investment Fund Association.

By using the sum of portfolio weights, it can be applied across asset classes and is a straightforward calculation.

Measuring Climate Change

Climate risk

Physical Risk

Rising temperature levels, even if limited to 2°C, will result in changes of the climate system resulting in significant physical risks.

Physical risks can be classified into long term weather changes and extreme weather events such as storms, floods, or droughts.

Companies' exposure to these two types of physical risk depends on two factors: Sector and Geography.

Transition Risk

A decarbonized world needs to address the demand (e.g. utilities burning fossil fuels) and supply sides (e.g. fossil reserves) of future emissions.

For utilities, it matters whether the future power generated and power generation stem from renewable (green) or fossil (brown) sources.

For fossil reserve owning companies, potential future GHG emissions might indicate stranded asset risk.

Scenario Analysis

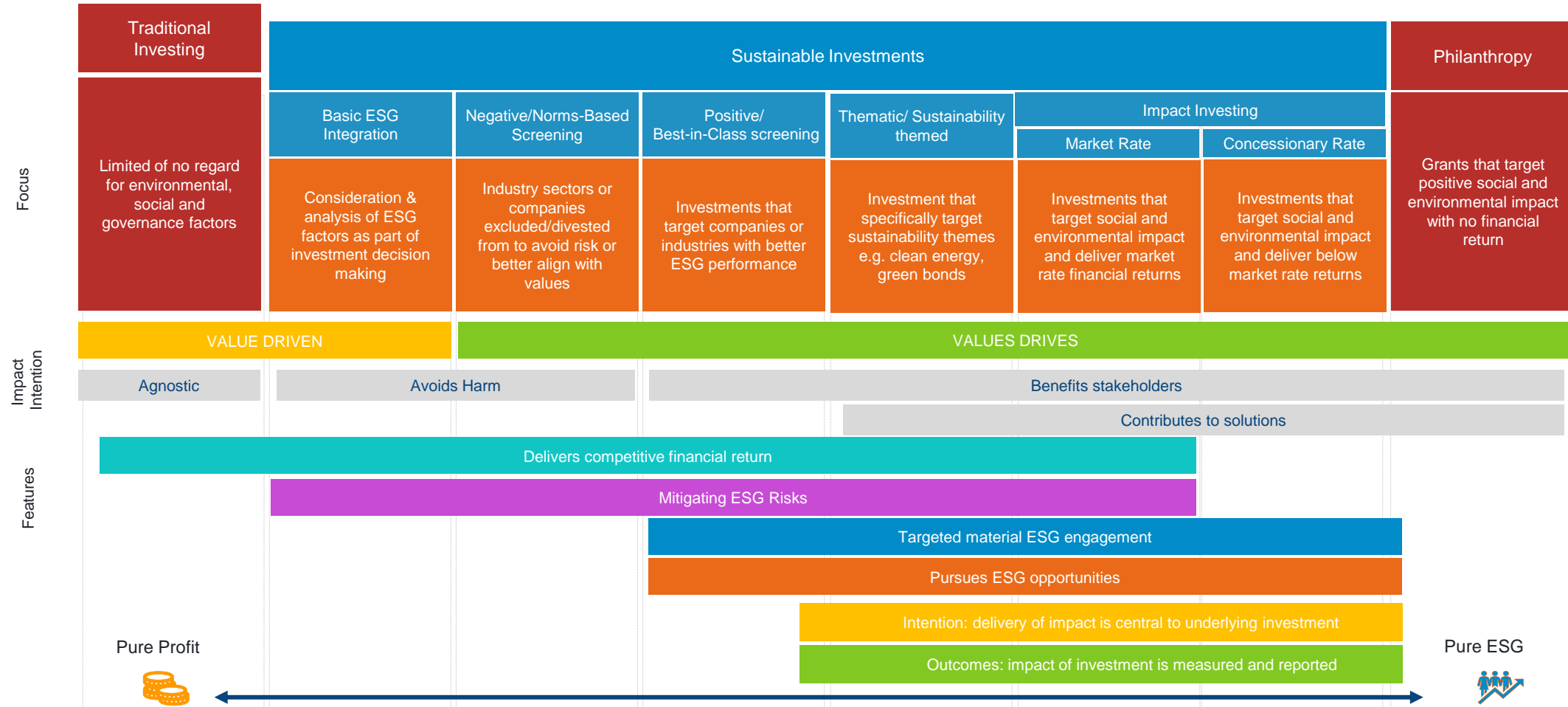
Scenario analysis is an assessment of an investment portfolio's alignment with a chosen future scenario.

The climate scenario environment alignment compares current (measured) and future (approximated) portfolio GHG emissions with carbon budgets for multiple scenarios, often including 1.5°C, 2°C and 4°C 2050.

Climate change in investing strategies

The sustainable investment spectrum

<https://responsibleinvestment.org/>

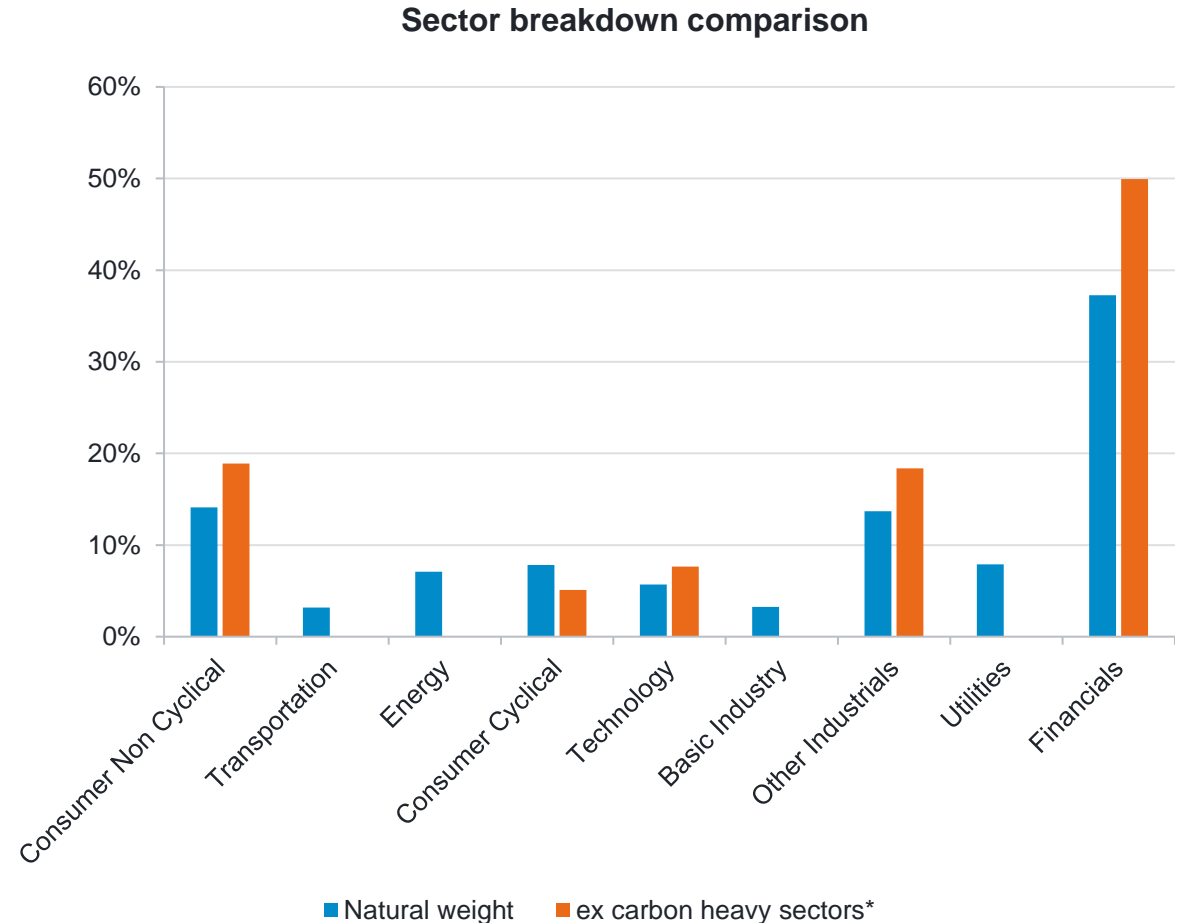


Source: Fidelity International, responsibleinvestment.org, 2020

Is divestment the solution?

The Climate Crisis is a complex problem that cannot be solved with simplistic solutions

- Overly simplistic divestment strategies have significant drawbacks:
- Exclusion has a doubtful impact on carbon emissions:
 - Focus on scope 1&2 and ignores scope 3
 - Hands the keys to investors without a climate change mandate.
- Reduced diversification: Carbon intensive sectors at c1/3 of global credit benchmarks. Exclusion leads to concentrations in sectors with indirect emissions
- Reduced alpha opportunities: Smaller opportunity set and there is evidence that reformers and transition stories drive alpha
- Fossil fuel companies can be drivers of change (Ørsted, Shell) with suitable scrutiny.
- **Engagement is superior to divestment**



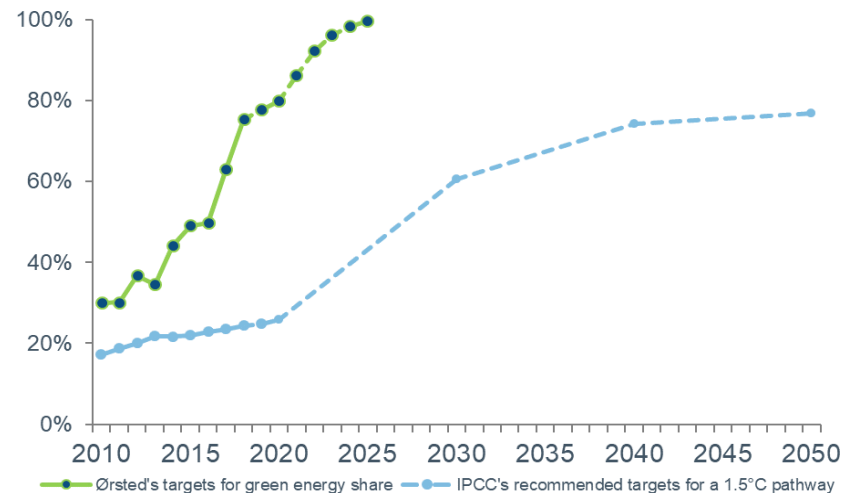
Source: Fidelity International, Bloomberg Barclays Global Credit indices, December 2019. * Excluding automotive, basic industry, energy, transportation and utility sectors.

Can “Transitions stories” be credible?

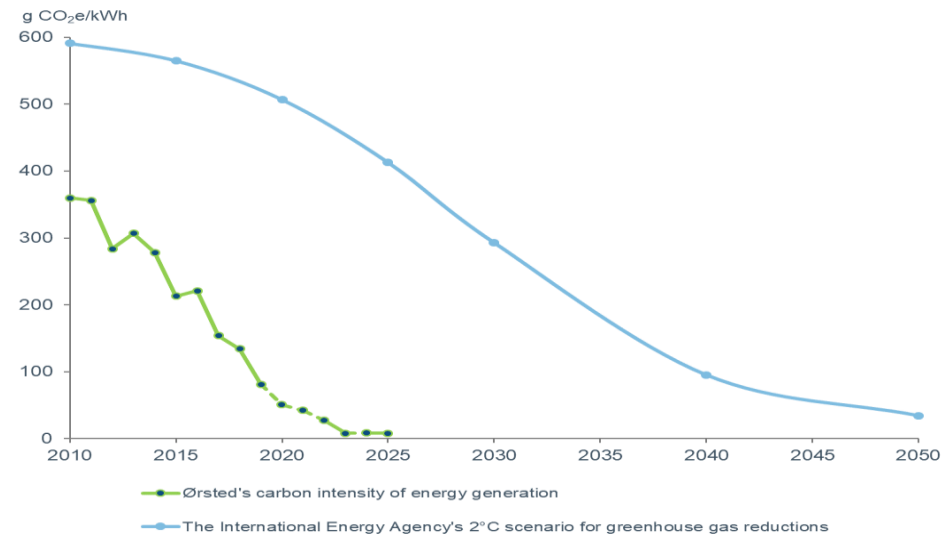
Transition Case Study: Ørsted

- Ørsted (formerly Danish Oil Natural Gas [DONG] Energy) is a Danish renewable focused energy company
- In the last decade, Ørsted has reduced its use of coal by 73% and more than halved its CO₂ emissions
- Ørsted plans to be completely coal-free and will have reduced its CO₂ emissions by 96% by 2023 through conversion of coal fired power stations in Denmark to sustainable biomass

Green share of generation (%)



Carbon emissions (g CO₂e / kWh)



Reference to specific securities should not be construed as a recommendation to buy or sell these securities and is included for the purposes of illustration only.

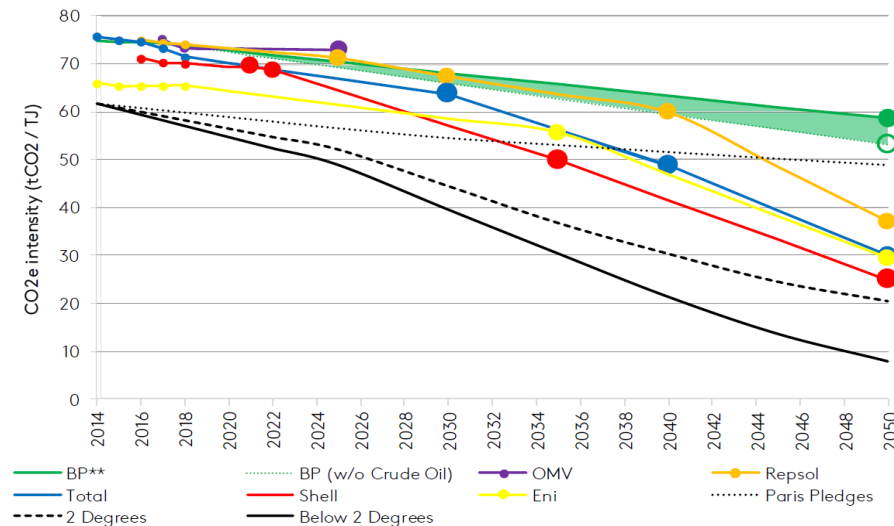
Source: Fidelity International, Ørsted, 2019

Can you own an oil company in climate-focused portfolios?

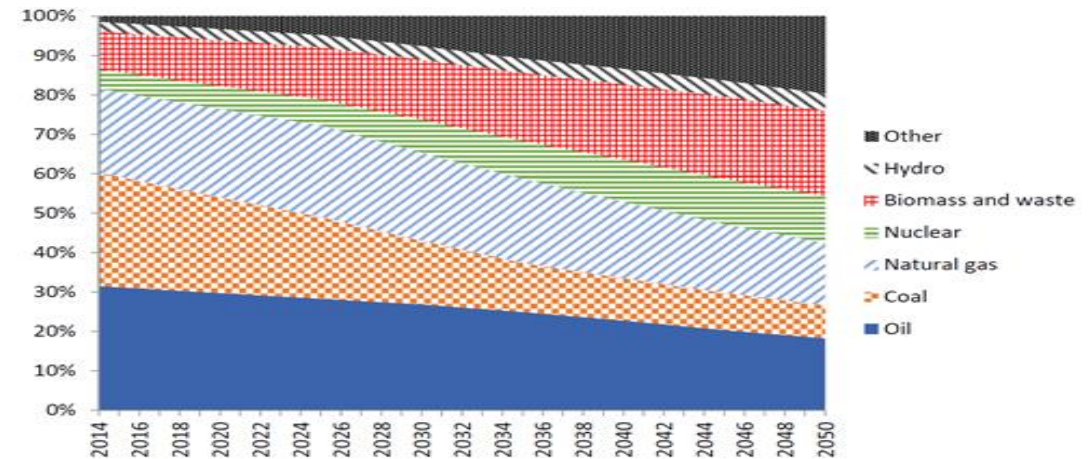
Transition Case Study: Oil & Gas Majors

- O&G to remain part of the energy mix but transition to “New Energy” is critical
- European O&G company decarbonisation ambitions have risen significantly
 - BP and ENI now include scope 3, Repsol and Total aligned with Paris, Shell close to 2DS
- Non-Europeans lagging far behind, only Petrobras has an emissions target that includes scope 3

Carbon Performance in European Integrated oil and gas



Global primary energy mix 2014-2050 under 2DS



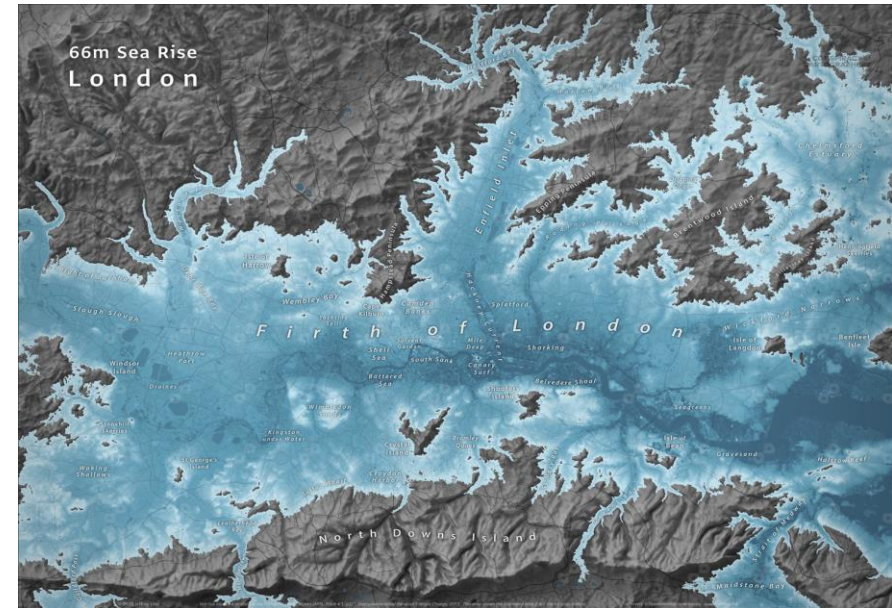
Reference to specific securities should not be construed as a recommendation to buy or sell these securities and is included for the purposes of illustration only.

Source: Transition Pathway Initiative, 2020.

Decarbonisation creates new investment risks

Unprepared companies/countries face existential threats

- Pacific Gas & Electricity – first climate bankruptcy
- Stranded assets: hydrocarbon reserves and infrastructure, related sectors
- Physical impact of extreme weather events : \$100bn of extreme weather event damage in 2019 is expected to total \$8trn by 2050. Est of 2-10% of GDP pa
- Litigation: 1,444 cases across 33 countries
- Disruption to business models:
 - Regulation (emissions standards, financials e.g. stress testing),
 - Disruptive technologies (e.g. electric vehicles, renewables)
- Geopolitical impacts - climate change impacts the poorest nations disproportionately.
 - Estimates of 200m Climate Refugees by 2050 = 6.7m per annum, this is more than the total number of Syrian refugees over the last 8yrs. Implies that 1 in every 45 people in 2050 will be displaced.
 - How do fossil fuel exporting economies respond?
 - Disease transmission: malaria, dengue fever, yellow fever, Zika virus, West Nile virus and Lyme disease



Source: <https://conspiracyofcartographers.com>

“The last time CO₂ levels exceeded 750ppm, with surface temperatures well beyond 4 degrees above pre-industrial figure, was likely 35m years ago during the Eocene epoch, when the planet was entirely ice-free. Today that would drive a sea level rise of 70 metres” – Nicholas Stern

Decarbonisation creates new investment opportunities

This will be a multi-decade mega trend

New investment opportunities emerging

- New disruptive technologies are emerging in response to the need to decarbonise.
- In some cases, public and private resources have already been channelled into low CO₂ solutions supporting their pathway to economic viability.
- For newer technologies, government support is accelerating via subsidies and regulation.
- This is a very long duration of mega trend; the changes required will affect every corner of the economy.

Why now?

- Low carbon no longer a risky investment: Many new technologies are on path to becoming economic on a free market basis, and are therefore sustainable.
- Diversification possible: The range of investment options is now much wider following years of investment into low carbon technologies; no longer a nascent area.
- The risk to portfolios exposed to industries or technologies threatened by disintermediation is increasing.

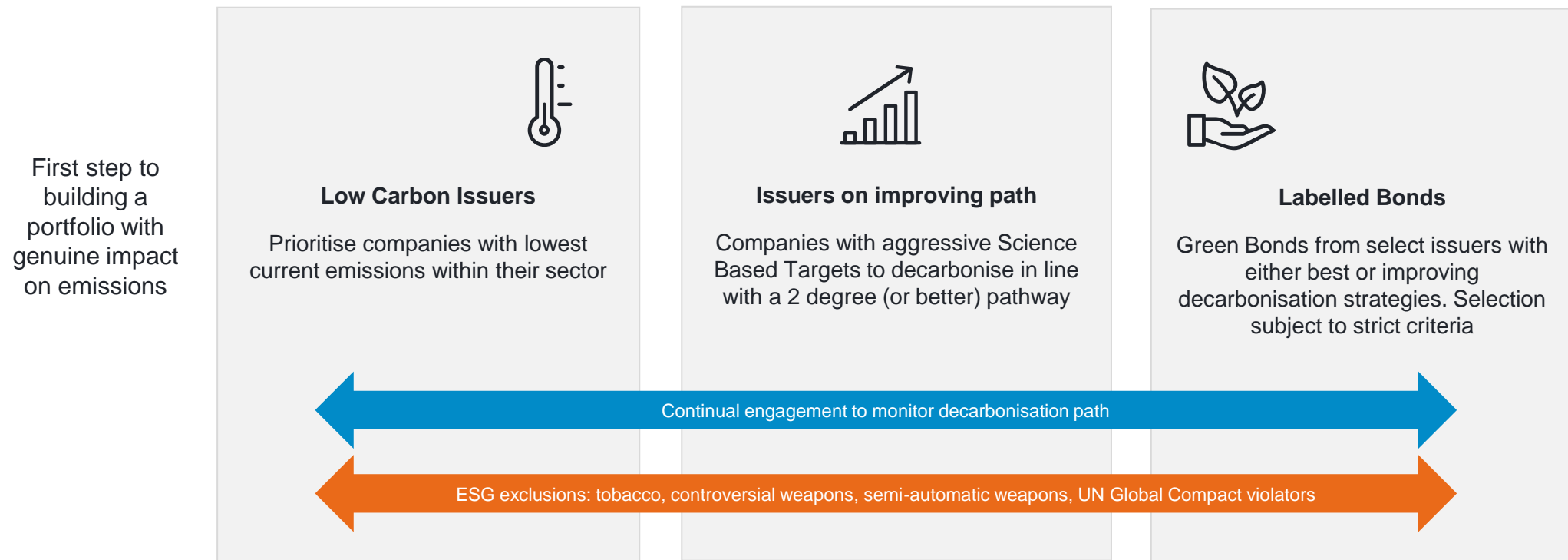
Source: Fidelity International, 2020.

Climate Change in Fixed Income

Case Study: *Sustainable Reduced Carbon Bond Fund*

Climate and ESG security selection

The investable universe is a combination of the following:



Source: Fidelity International, 2020.

Green Bonds: part of the Fixed Income investor toolkit

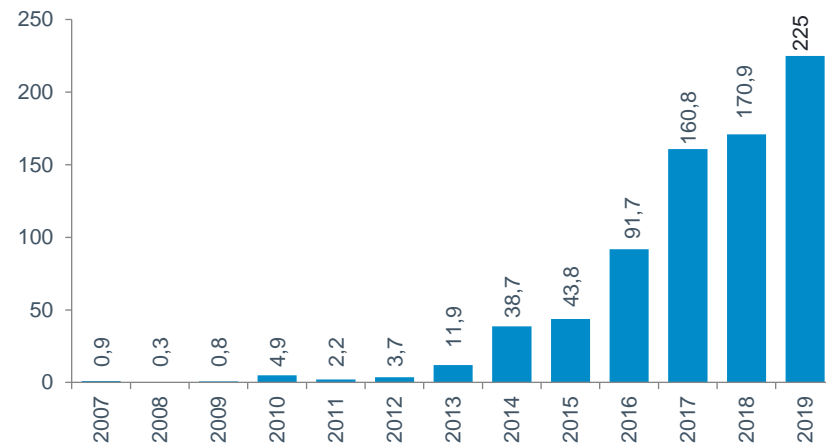
Work well in complement to a Global Corporate allocation, not *instead of*

Green bonds are part of the solution as they by design finance specific projects or activities that promote green investment

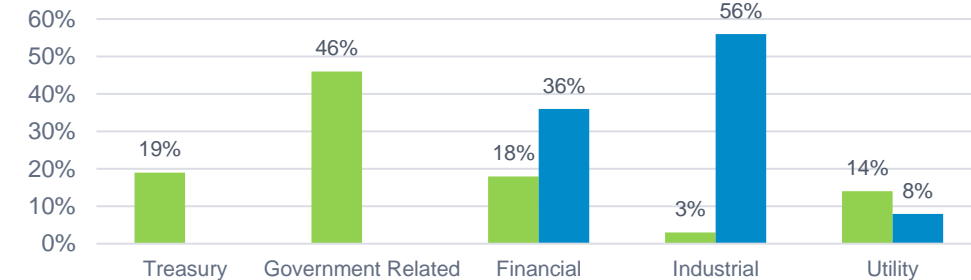
However, there are investment limitations to consider:

- Small universe, with lower level of yield compared to a standard global corporate universe
- Lack of standardisation in terms of definitions and impact measurement
- Secondary green bonds trade at a premium and liquidity is relatively low

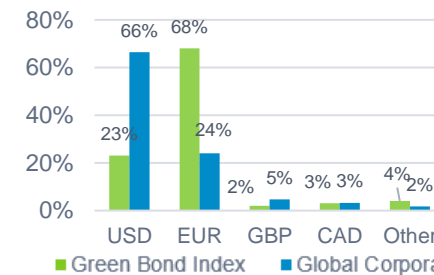
Green bond issuance



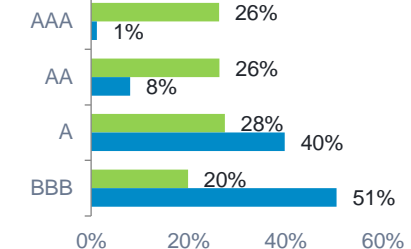
Sector breakdown



Currency breakdown



Rating breakdown



	Green Bond Index	Global Corporate Index	Global Aggregate Index
Yield to Worst	0.5%	1.6%	0.9%
Spread	70	136	50
Average rating	AA-	BBB+	A
Duration (years)	8.2	7.4	7.4
# bonds	558	13,758	26,379

Source: Fidelity International, Climate Bonds Initiative. Data as of 30 September 2020. Using Bloomberg Barclays indices.

Active management and ownership is key

Low carbon indices: data does not give the full picture

- Most indices use tonnes of emissions per unit of revenue (carbon intensity).
- However, this measure can be distorted by different factors:

Business activity mix	Local price regulation	Accounting Rules
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- Following Carbon indices does not work, you need to know your companies:
 - Narrow peer groups of comparable companies
 - Industry specific metrics e.g. emissions per unit of production
 - Normalising for accounting differences
 - Understanding business models and the outsourcing off emissions

European utility example

	Spanish Utility	Scandinavian Utility
Direct + First Tier Supply Chain Emissions (tonnes CO2)	29,641,582	19,428,151
Revenue (EUR mn)	29,215	3,632
Carbon intensity (tonnes CO2 / € million revenues)	1,014.60	5,169.73
Business activity mix	60% generation / 40% distribution	100% generation
Electricity prices (EUR/Mhw)	59	45
Power Generation (GWh)	137,348	100,900
Tonnes CO2 / GWh produced	216	193

Source: Fidelity International, Bloomberg, S&P Trucost © Trucost 2018, data 2018. For illustration purposes only. All rights in the Trucost data and reports vest in Trucost and/or its licensors. Neither Trucost, nor its affiliates, nor its licensors accept any liability for any errors, omissions or interruptions in the Trucost data and/or reports. No further distribution of the Data and/or Reports is permitted without Trucost's express written consent.

Climate Change in Equity

Global Sustainable Climate Solutions strategy

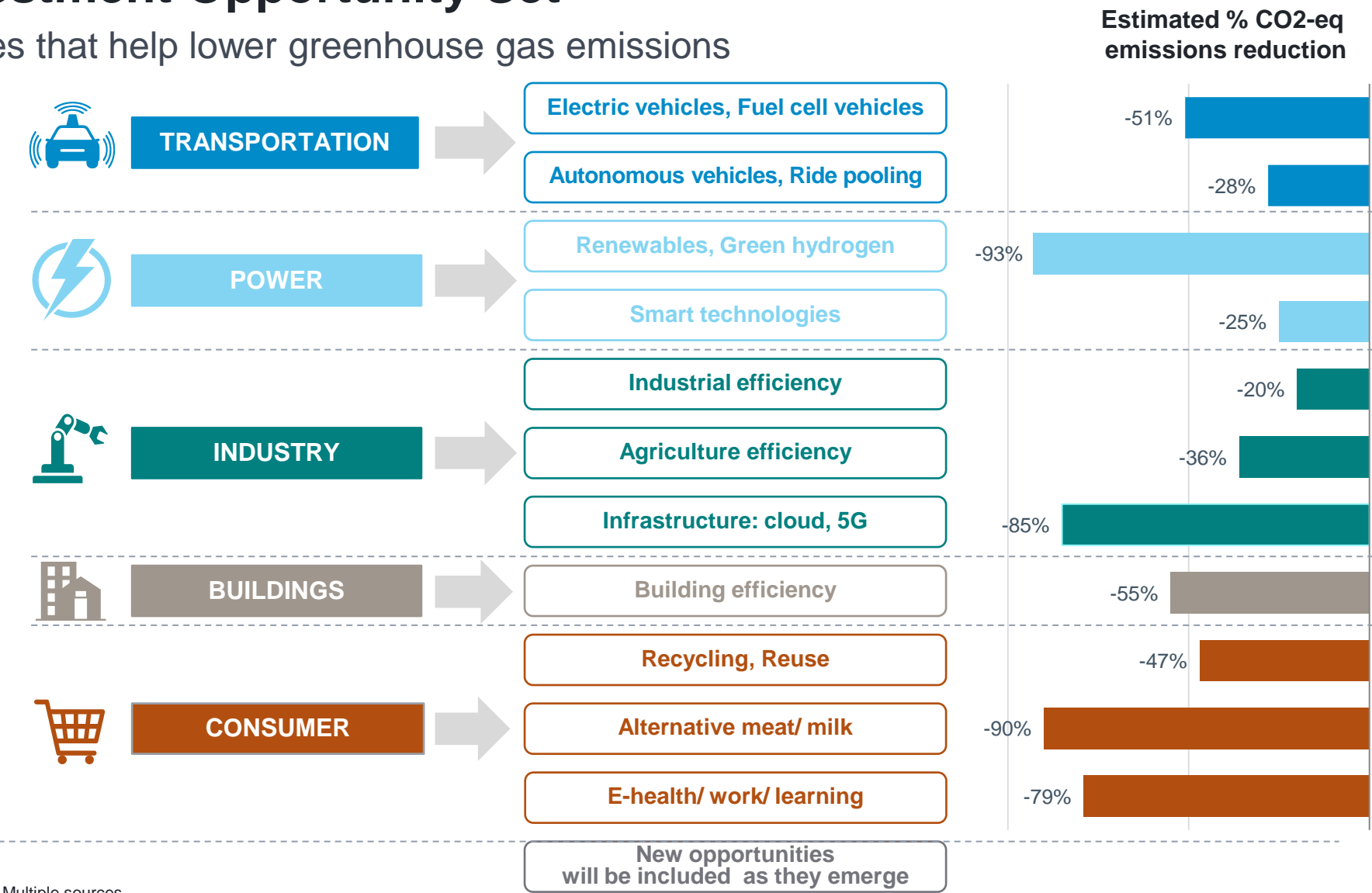
The solutions to the crisis exist, but need to be widely adopted

- Global emissions have never fallen outside of recessions, yet they need to fall by >45% by 2030
- Evolution of existing business practices is not sufficient, we need a revolution. Achieving this scale of emissions reduction will require radical and far-reaching action, affecting every area of economic activity and human life.
- A very fast deployment of all low carbon solutions, available today and driving a step change in society's emission, is needed

The Global Sustainable Climate Solutions invests in the solutions to the climate crisis - companies along the full value chain of technologies with lower than incumbent technologies CO₂e footprint

Our Investment Opportunity Set

Technologies that help lower greenhouse gas emissions

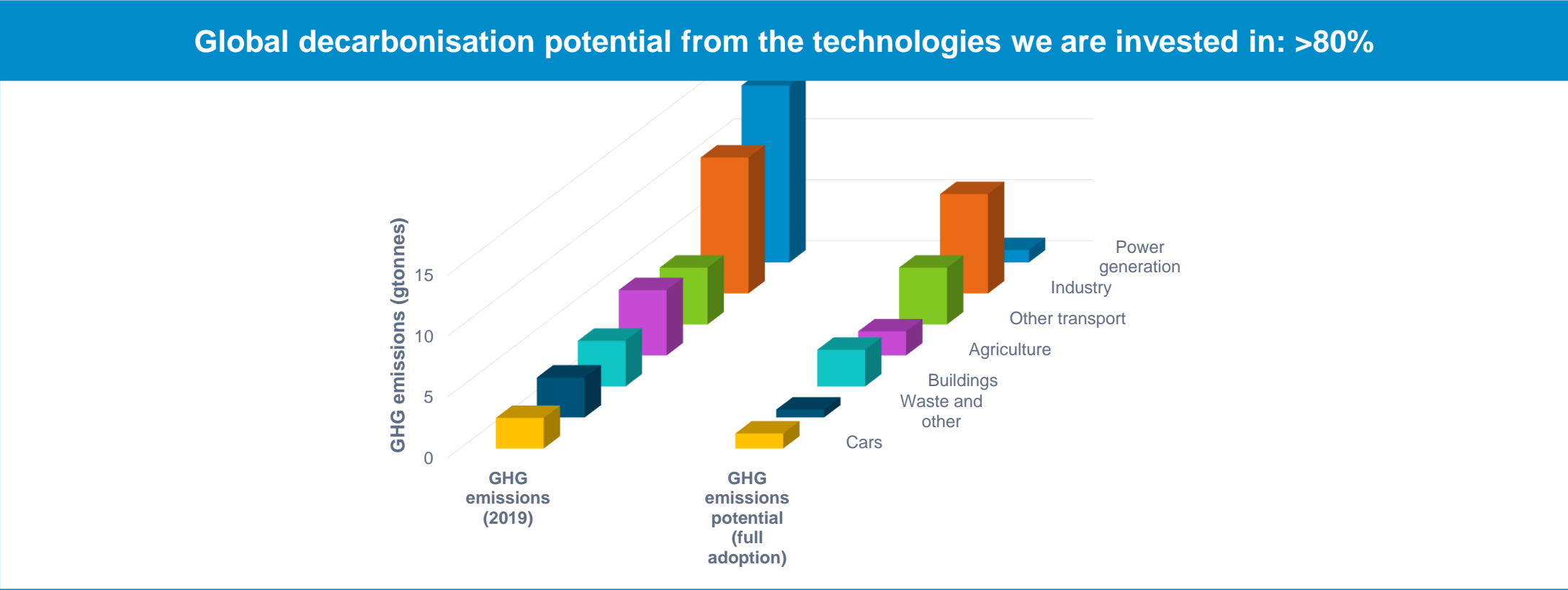


Source: Fidelity International. Multiple sources.

How do we measure impact?

We monitor the impact of the strategy in two ways:

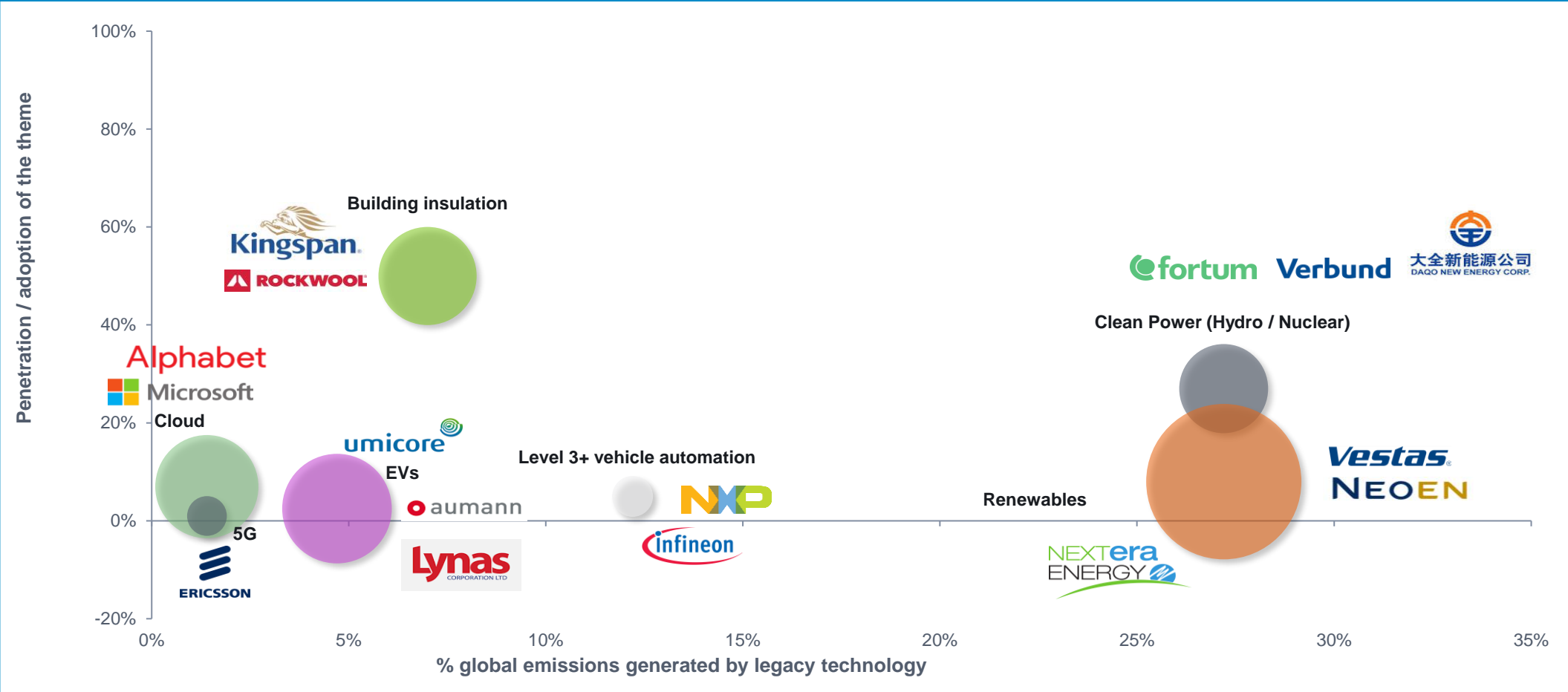
- 1. Global % CO₂e reduction if the world fully transitions to these technologies
- 2. Kt CO₂e p.a. avoided by the technologies we have invested in



Source: Fidelity International, 2020.

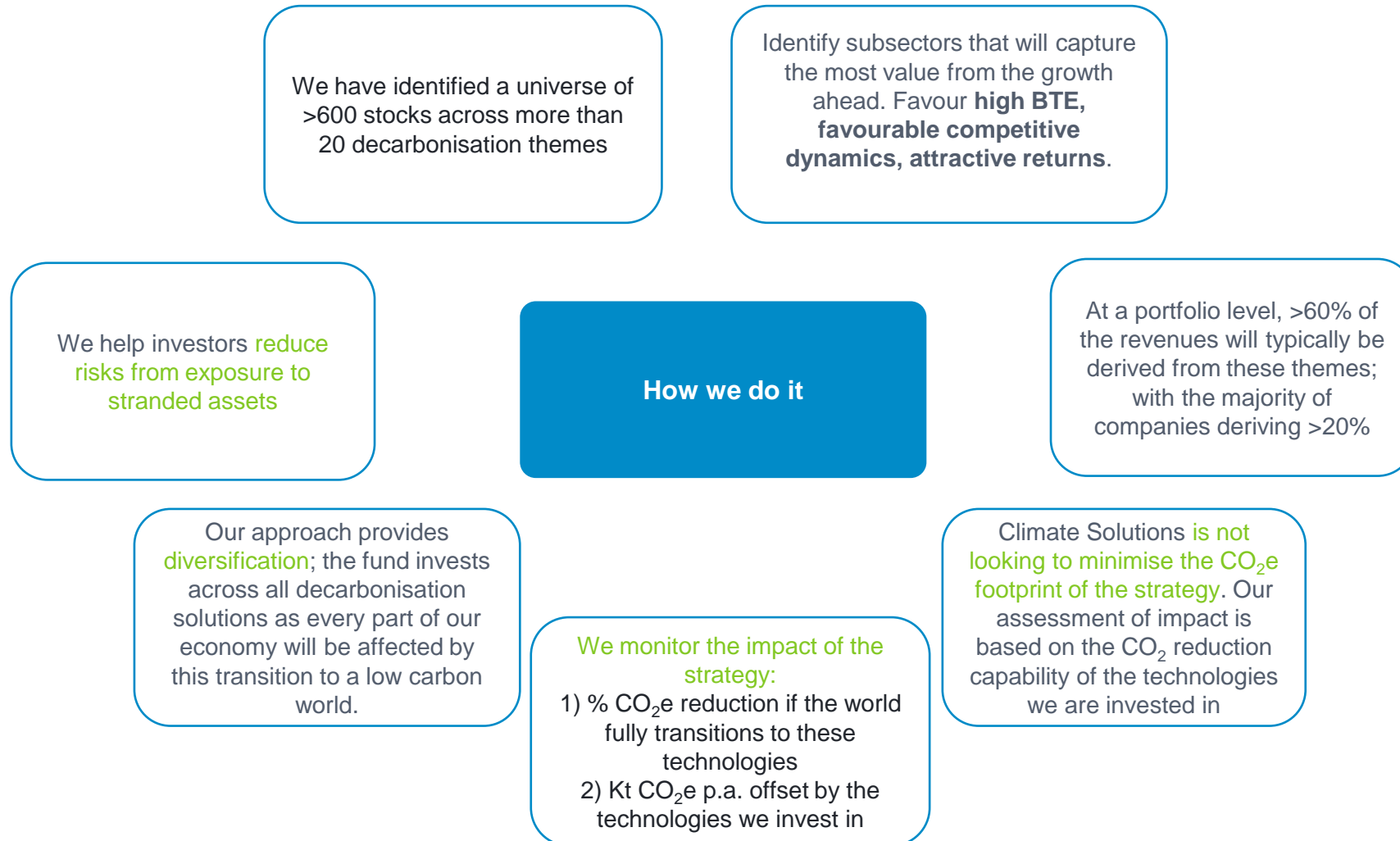
Where we stand today

% of Global Emissions & Penetration / adoption



Source: Fidelity International. Bubble size refers to % TNA invested in these themes at 31st January 2020. The % of global emissions is representative of emissions from legacy technologies. Investment Themes have been classified as per portfolio managers' investment philosophy. This is for illustration purposes only and should not be taken as a recommendation to buy or sell. Third party logos, trademark, copyright and other intellectual property rights are and remain the property of their respective owners.

A differentiated approach



Source: Fidelity International, 2020.

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