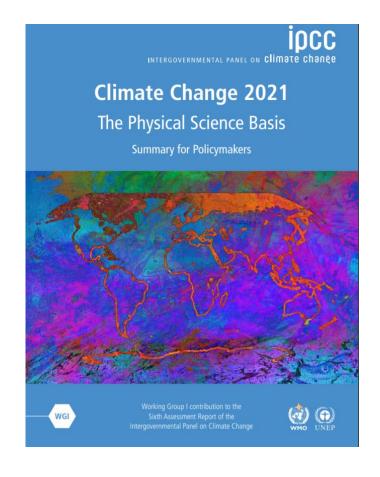
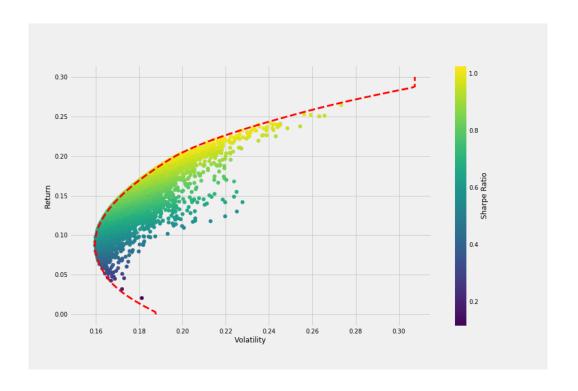


## Climate change & SAA

### New challenges?







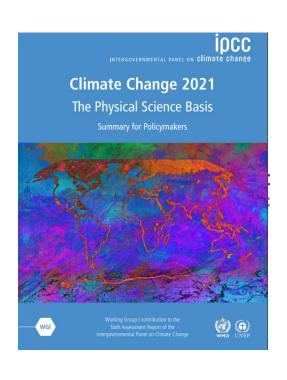
## Top of Mind Climate Questions for Investors

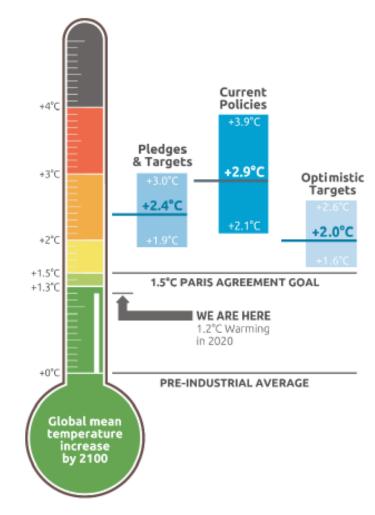
#### **Double materiality:**

How to align my portfolio to meet climate goals while managing my climate informed financial risks?



#### Climate Change scenario analysis





#### Climate Scenario analysis:

- How robust is your SAA for different global warming scenarios?
- What are the main climate risk drivers per asset class/scenario?
- How to improve the robustness?



#### Improve the robustness of your SAA for climate change

What are the required policy levers per climate change scenario? And what is the impact on the expected asset class risk and returns?

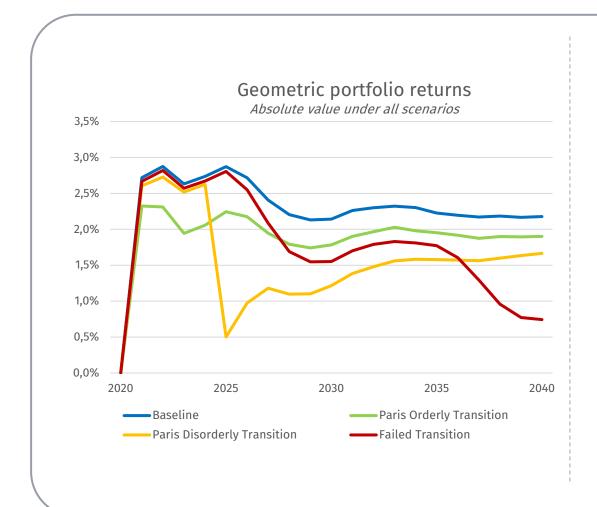
- Carbon tax
- Feed-in tariffs for renewables
- Investment subsidies for carbon capture & storage
- Biofuel blending requirements
- Policies supporting take up of EVs
- Investments in energy efficiency



Climate change will have an impact on gradual physical risks and extreme weather events –

what is the impact on expected asset class risk and returns per climate change scenario?

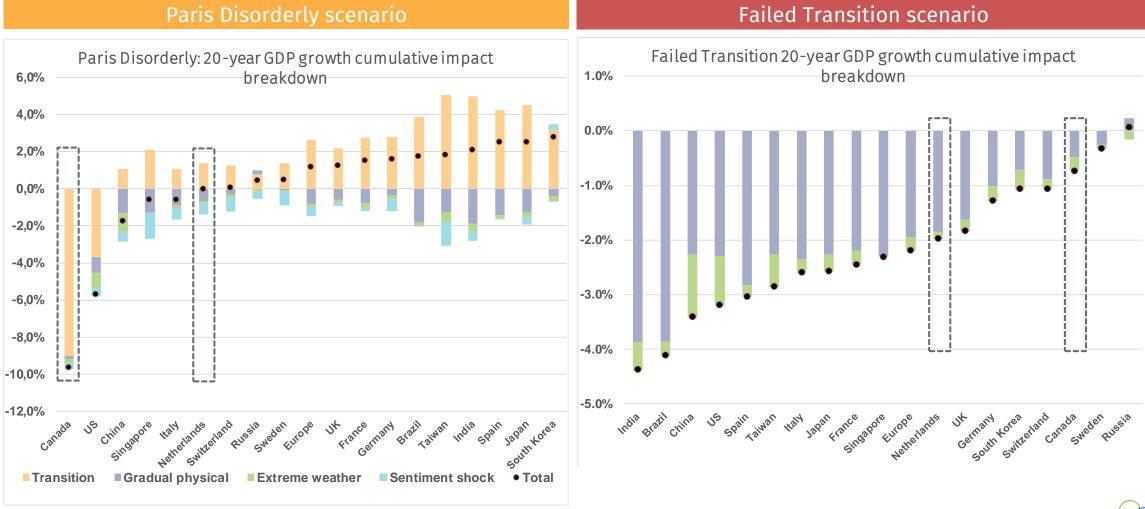
#### Climate change: the impact on expected return (SAA)



- Are expected returns for different climate paths still aligned with required return?
- The Failed Transition Pathway mirrors the climateuninformed baseline closely for first few years but as it becomes obvious the transition is not occurring, markets start pricing-in physical risks in their expected returns.
- The Paris Disorderly Transition Pathway, indicates a sharp decrease in return in 2025 followed by a quick recovery.
- The Paris Orderly Transition pathway underperforms the Baseline to the extent that it factors in already locked-in physical risks associated with 1.5°C of global warming.

### Climate change: the impact on GDP - regional differences

Impact of climate change on GDP per climate scenario



#### Climate change: the impact on return on equity per sector

#### Paris Disorderly Transition Pathway:

Cumulative return (difference to baseline) heat map – Public equities – 10 years

10Y	Total	Oil & Gas	Other Energy	Low Carbon Electric.	High Carbon Utilities	Water Supply	Forestry	Materials	Public Admin.	Industrials	Consume Disc.	Consumer Staples	Health	Financials	IT	Telecom	Real Estate
World	-12.2%	-32.6%	-26.2%	41.1%	-80.2%	-12.0%	-12.6%	-10.9%	-15.2%	-9.6%	-13.5%	-12.7%	-13.0%	-12.0%	-10.3%	-11.9%	-12.1%
DM	-13.7%	-41.4%	-25.9%	102.6%	-77.4%	-13.2%	-13.8%	-13.1%	-18.3%	-11.8%	-13.9%	-11.4%	-14.2%	-13.5%	-12.2%	-13.6%	-14.1%
Europe	-13.2%	-44.6%	-33.7%	8.0%	-78.0%	-9.8%	-12.1%	-11.4%	-13.6%	-10.4%	-13.4%	-11.0%	-13.1%	-12.5%	-9.5%	-10.7%	-12.3%

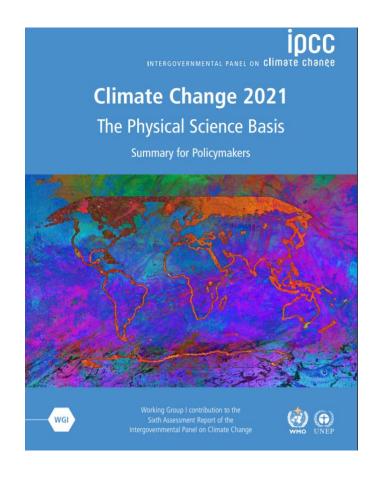
#### Failed Transition Pathway:

Cumulative return (difference to baseline) heat map – Public equities – **20 years** 

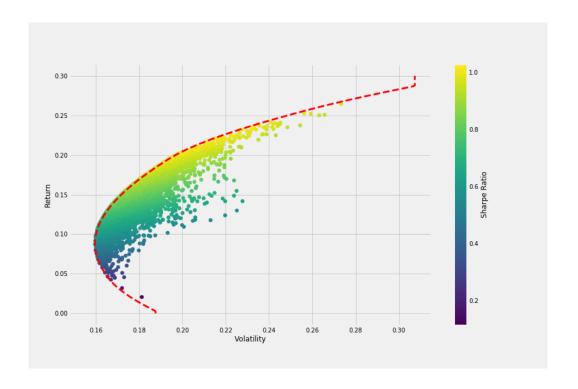
20Y	Total	Oil & Gas	Other Energy	Low Carbon Electric.	High Carbon Utilities	Water Supply	Forestry	Materials	Public Admin.	Industrials (	Consumei Disc.	Consumer Staples	Health	Financials	IT	Telecom	Real Estate
World	-36.3%	-36.2%	-36.3%	-36.3%	-36.1%	-36.3%	-36.3%	-36.3%	-36.3%	-36.3%	-36.3%	-36.3%	-36.3%	-36.3%	-36.3%	-36.3%	-36.3%
DM	-34.9%	-34.0%	-34.1%	-32.1%	-31.9%	-32.4%	-34.5%	-35.2%	-31.9%	-36.4%	-36.3%	-34.2%	-31.9%	-33.7%	-34.0%	-33.1%	-32.7%
Europe	-24.1%	-23.8%	-23.9%	-18.5%	-17.7%	-18.5%	-23.5%	-27.4%	-17.6%	-31.4%	-30.6%	-23.0%	-17.6%	-23.1%	-24.5%	-21.9%	-20.1%

Note: these are results based on a fictive demo set-up. Available sector granularity is broader

## Climate change & SAA New challenges!







## **Contact details**



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