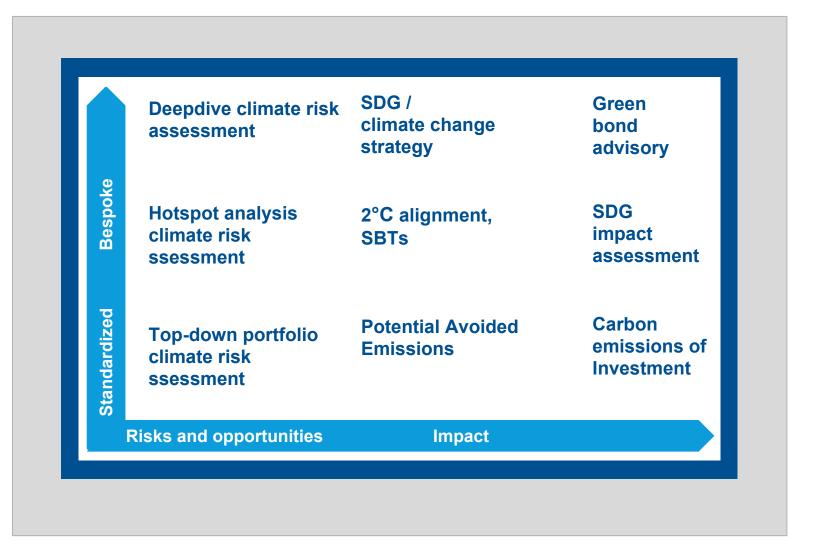
South Pole's Climate Risk Tool for Investors

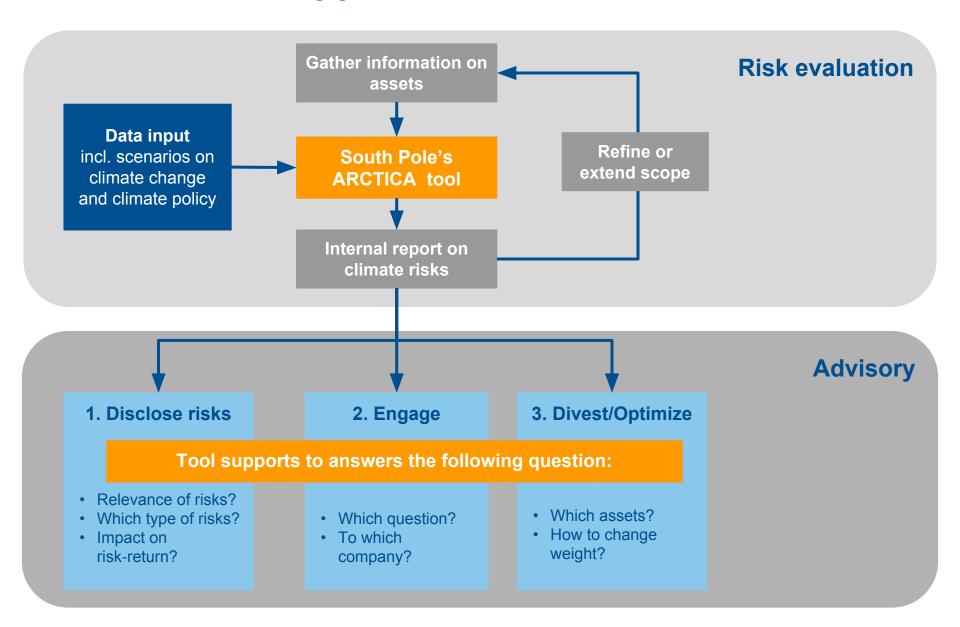
November 2018



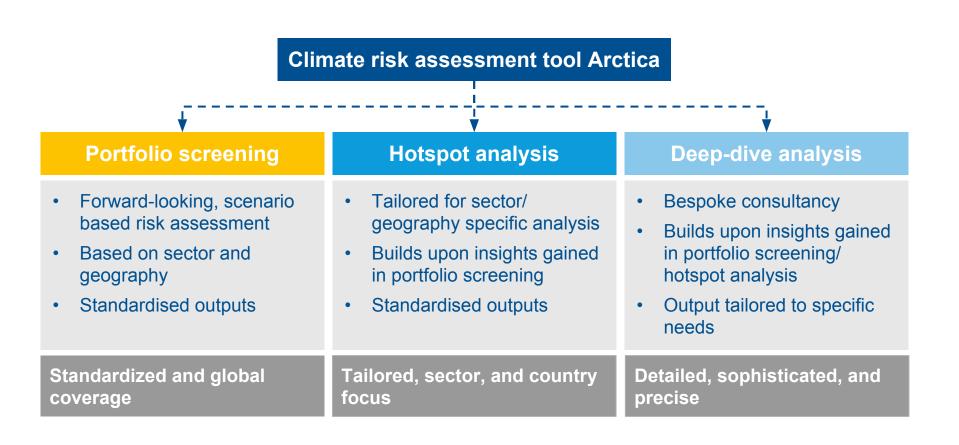
Investments and climate change



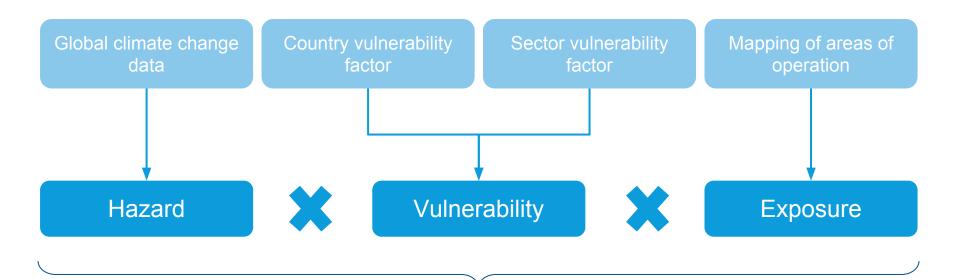
South Pole's support to address climate risks



We provide portfolio, hotspot and deep-dive analysis



Define Risk



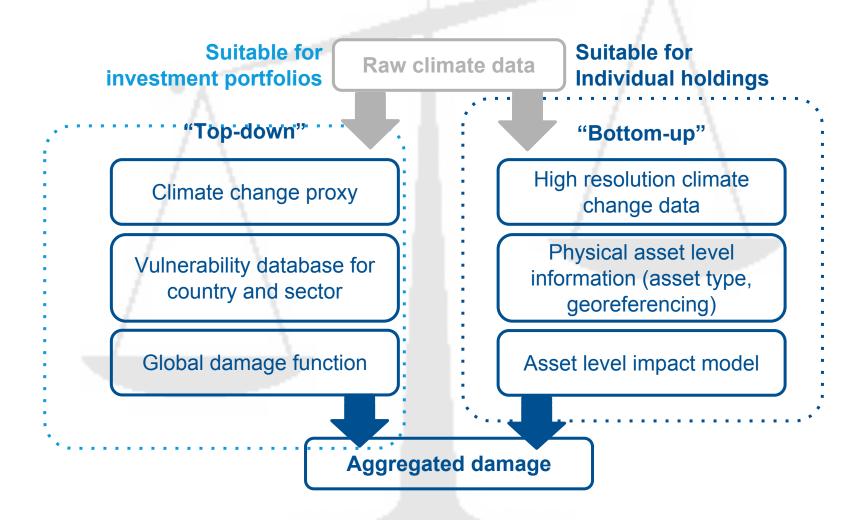
Output: South Pole climate risk score

Applies 3 scenarios: high, medium, business as usual Provides results at portfolio, industry, and holding level

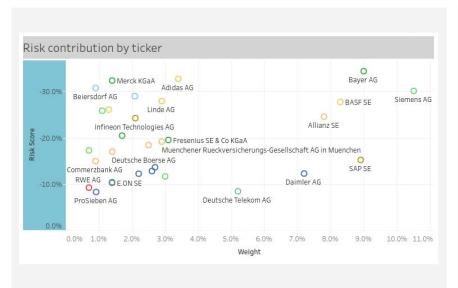
Considers 1-4°C degree temperature worlds

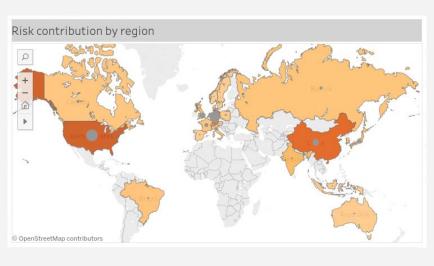
Covers timeframes from 2020 until 2100

Approach to calculate risk components

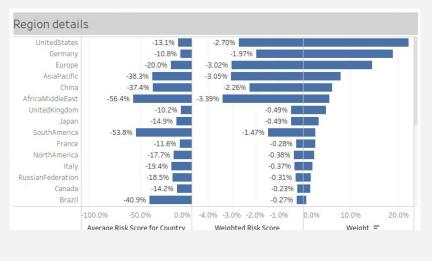


Analysis of the DAX









The benefits of South Pole's top-down approach to risk screening

- Assesses physical (acute and chronical) risks of investment portfolios
- Covers equity and fixed income across all sectors and geographies
- Goes beyond footprint with a forward-looking, scenario based analysis
- Results in quantitative risk measures at individual asset level
- Complies with TCFD requirements and reporting
- Allows for benchmarking across portfolios, portfolio optimization and input to engagement measures

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Offices and representations worldwide

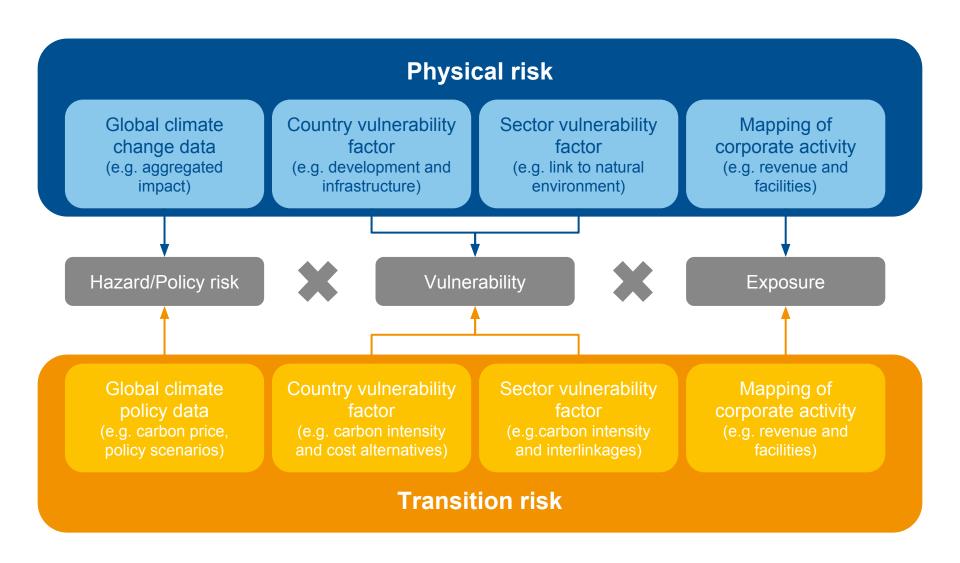
Amsterdam, Bangkok, Beijing, Bogotá, Hanoi, Jakarta, London, Madrid, Medellín, Melbourne, Mexico City, New Delhi, San Francisco, Singapore, Stockholm, Sydney, Zurich.







South Pole's unique forward-looking approach provides global coverage across major climate risks



Results applicable for risk management and strategic planning

Metrics and Targets

A quantitative risk metric allows for comparisons across portfolio holdings and sectors.

Risk Management

Include the risk metric as an additional data point in risk analysis and management.

Strategy

Apply comparable climate risk metrics to investment strategies and communication.

Process for conducting a top-down portfolio screening



Approach to calculate risk components

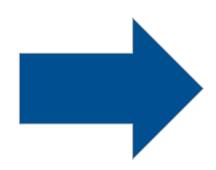
Top down versus Bottom up

Constraints:

- Quality and accessibility to key data-points
- Speed
- Cost
- Coverage



- Large size
- Diverse (geographical, sectoral)
- Coverage



Top down!

Key barriers in measuring climate risks

What are the key challenges in identifying and measuring climate risks?

