Category

Data & AI

AI for Sustainability, Climate Risk & Transition Planning Playbook

Using AI to model transition pathways rigorously enough to actually commit capital against them

- Executive
- Advanced
- Template Included

- Administrator
- 27 November 2021
- 3 minute(s)

Overview

A framework for using AI in sustainability, climate risk, and transition planning — modeling transition pathway scenarios and climate risk exposure with genuine methodological rigor, appropriate for the capital allocation and disclosure decisions this analysis increasingly informs.

How does AI add value to climate transition planning beyond

traditional scenario analysis? AI can model a broader range of transition pathway scenarios and their interacting variables — technology cost curves, policy scenarios, market shifts — than traditional analysis could practically cover, while requiring the same rigorous uncertainty communication any climate scenario analysis needs.

Why does transition planning analysis need particular

methodological rigor? This analysis increasingly informs real capital allocation and regulatory disclosure decisions — a transition plan built on inadequately validated AI modeling risks committing capital or making disclosure claims that don't hold up to genuine scrutiny or actual transition trajectory.

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