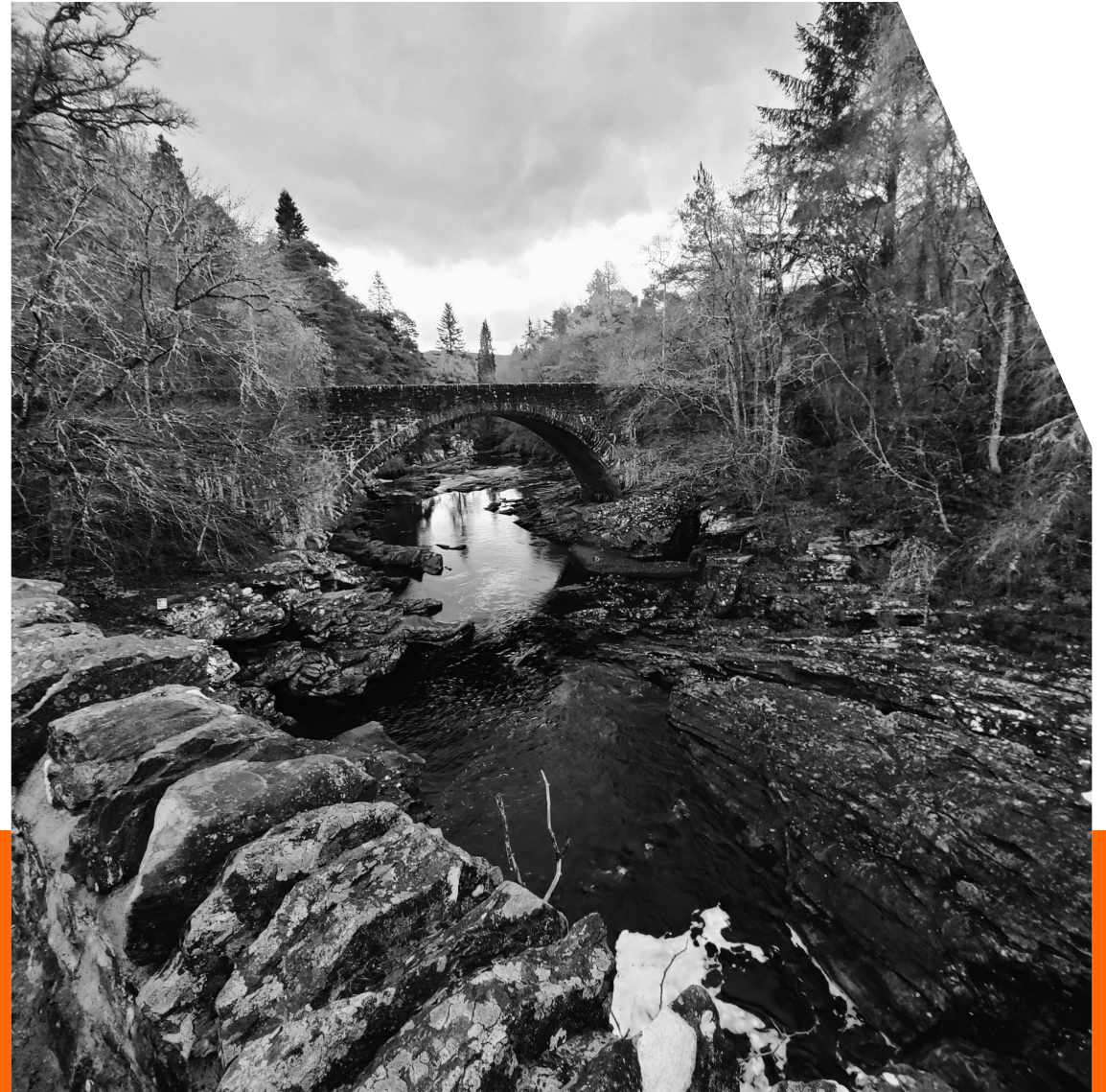




Measuring Biodiversity Impacts of an Enterprise

3rd Jan 2023

Pavan Sukhdev



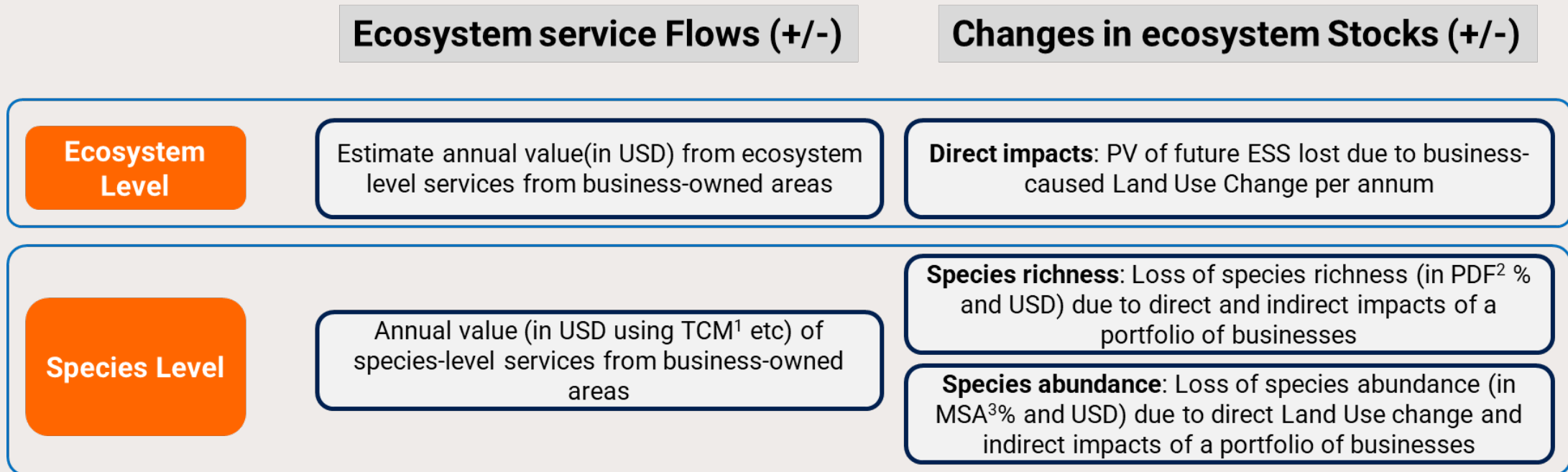
Ending the economic invisibility of nature is a key to stopping its degradation and destruction

- ❑ **Biodiversity is the living fabric of this planet**
- ❑ **Natural capital** is the economic reflection of biodiversity
- ❑ Biodiversity includes **quality** *and* **quantity** dimensions across *three* strata
- ❑ Each strata delivers valuable contributions ecosystem services...

Table 2.2 Relationship between biodiversity, ecosystems and ecosystem services			
Biodiversity	Quality	Quantity	Services (examples)
Ecosystems	Variety	Extent	<ul style="list-style-type: none"> • Recreation • Water regulation • Carbon storage
Species	Diversity	Abundance	<ul style="list-style-type: none"> • Food, fibre, fuel • Design inspiration • Pollination
Genes	Variability	Population	<ul style="list-style-type: none"> • Medicinal discovery • Disease resistance • Adaptive capacity

What are the biodiversity impacts of a business?

A framework for aggregating estimated *company-level* impacts for investment *portfolios*....



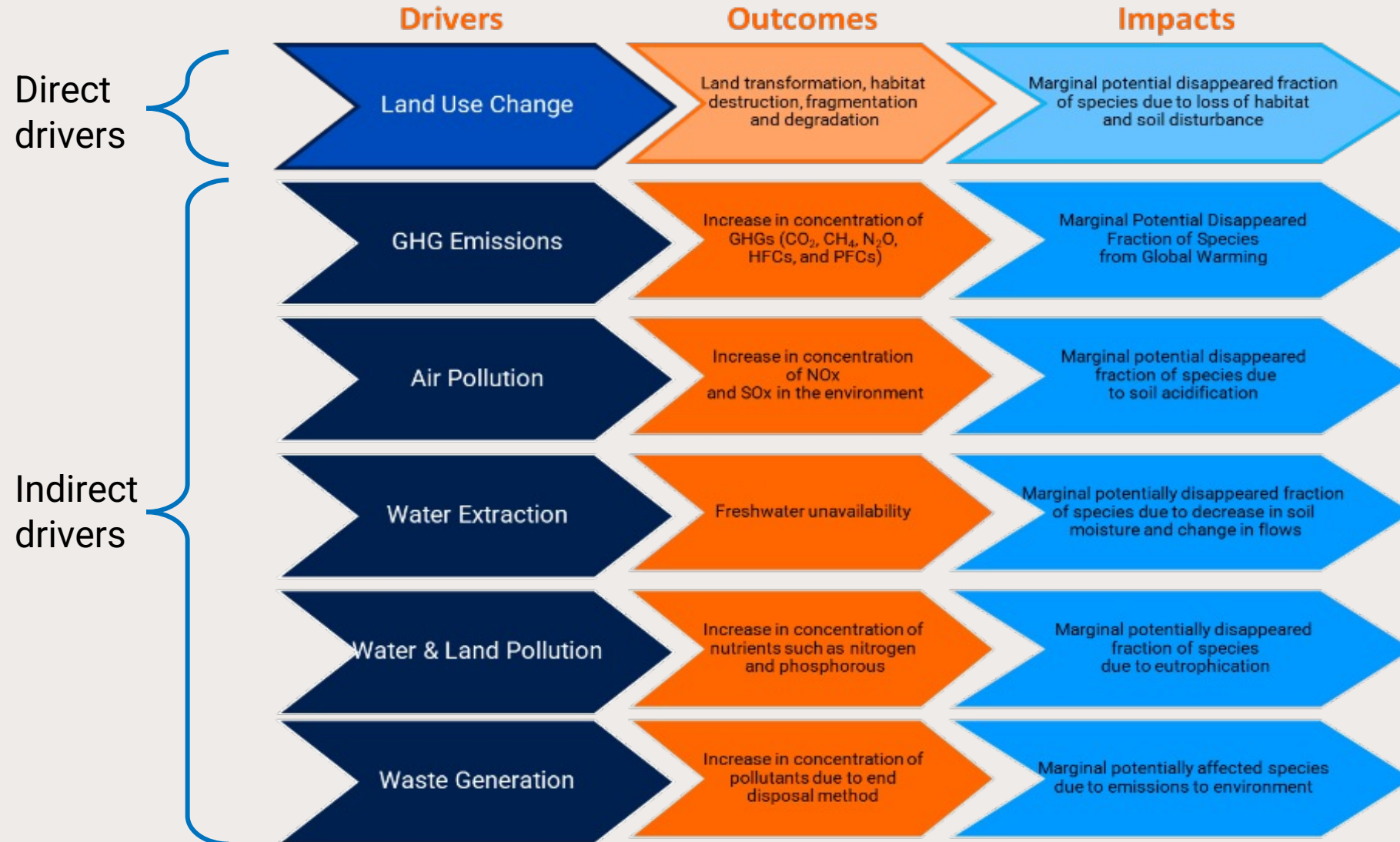
¹TCM =Travel Cost Method

²PDF = Potentially Disappeared Fraction, LCIA methodology

³MSA = Mean Species Abundance, GLOBIO methodology

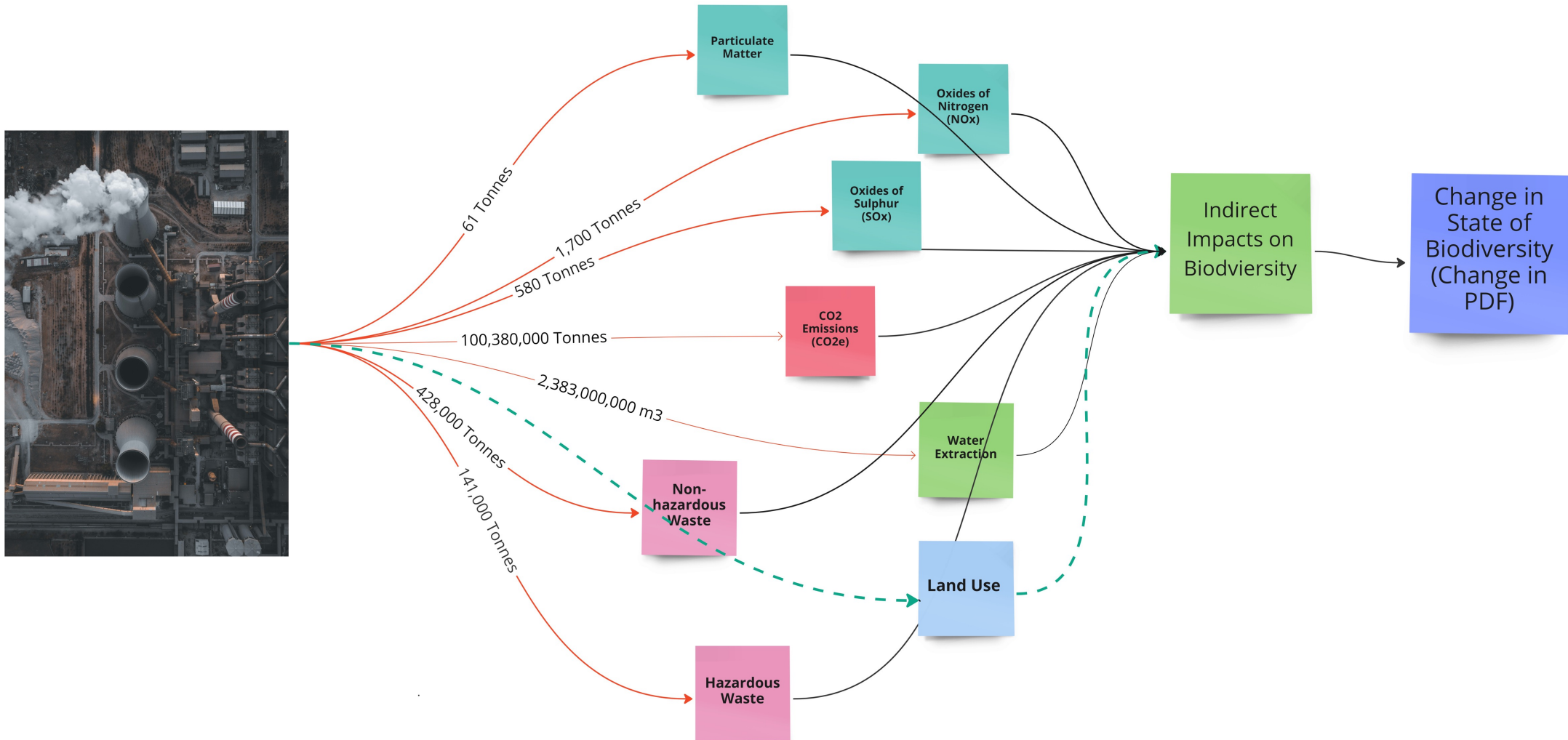
Note: at this stage, there is insufficient globally available data at the genetic level, hence we have omitted this tier from the proposed framework. However, research is under way in many teams to fill this data gap.

Direct and indirect drivers and their outcomes and impacts on biodiversity

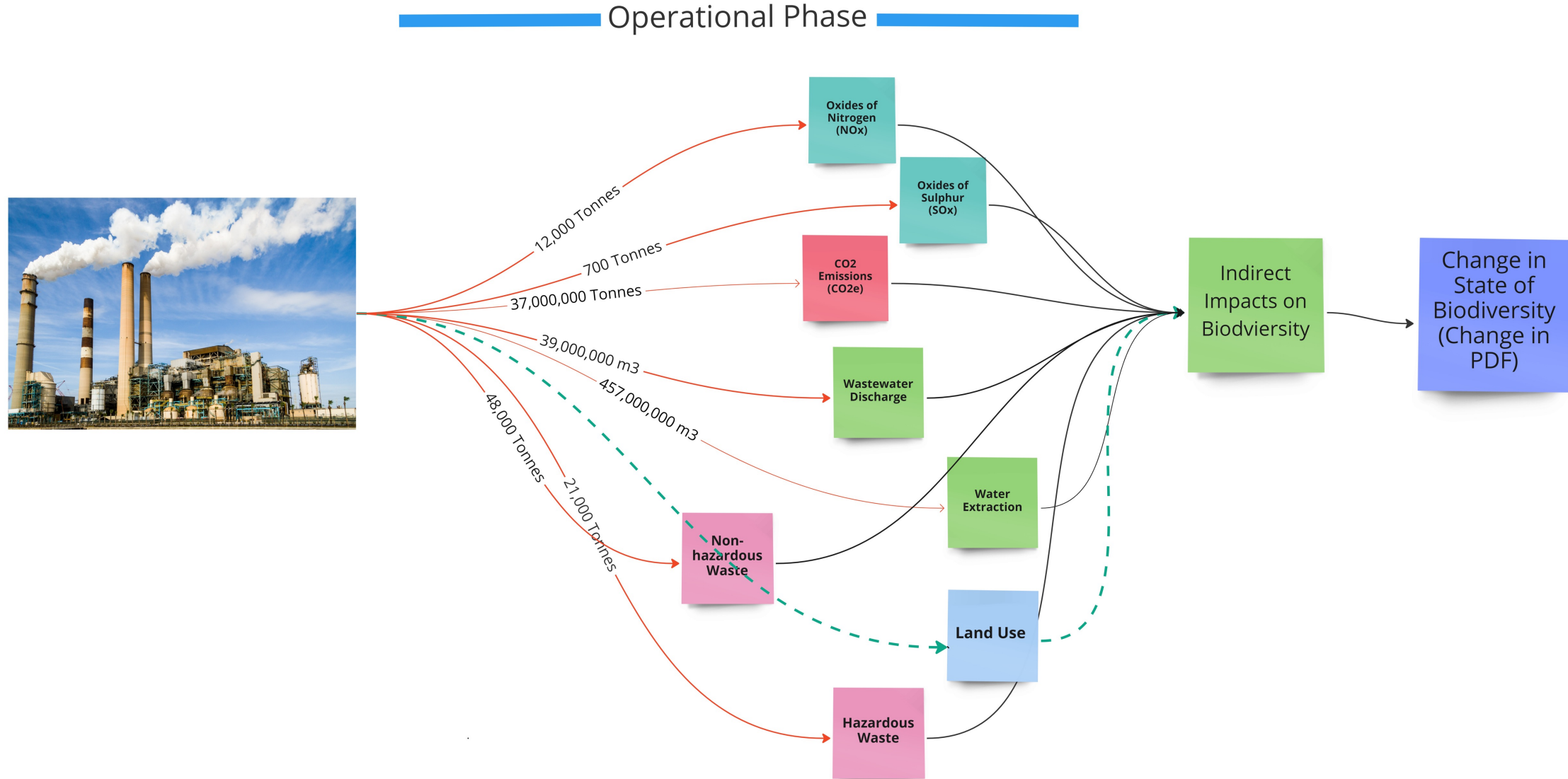


Example: Indirect impact of Thermal Power Co. on biodiversity

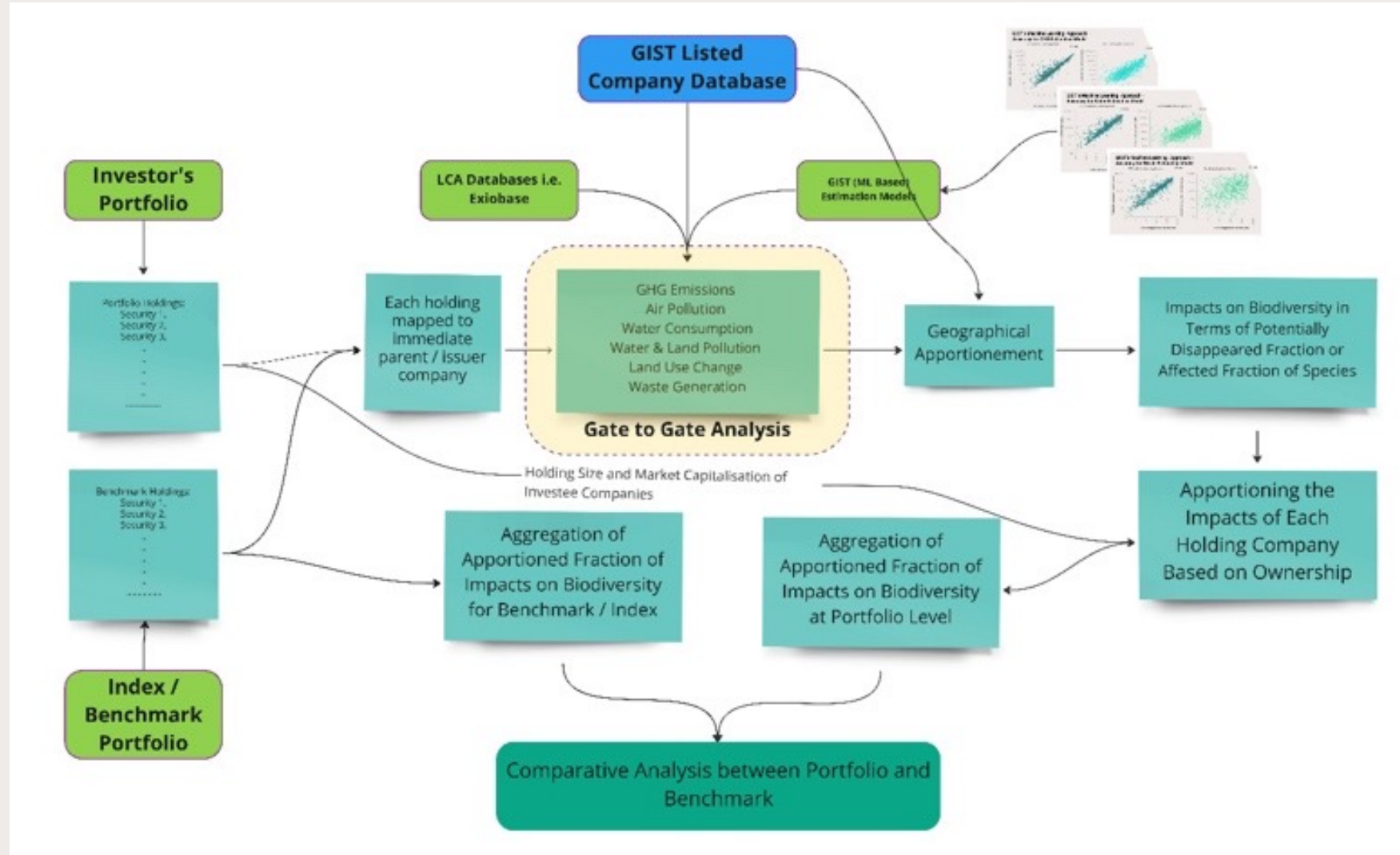
Operational Phase



Example: Indirect impact of a Chemical Manufacturing Co. on biodiversity



Scaling up from an investee to a fund or a portfolio





Thank you