

## **GIST Impact** Introduction to Biodiversity



Q1 2023



# Why nature & biodiversity?

- TIPPING POINTS: Rapidly approaching
- **REGULATION:** Increasing regulatory pressures
- HIDDEN RISK: Looking beyond Net Zero to nature more broadly
- STAKEHOLDER ALIGNMENT: Growing demands to protect nature and potential rewards (new clients, staff loyalty)

Climate tipping points<sup>1</sup>

**ICGN** 

UN @ PBA

**"\$44 trillion** of economic value generation moderately or highly dependent on nature" WEF

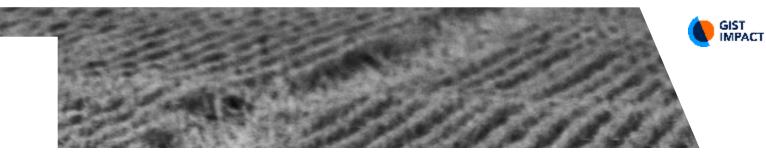
3 of the 9 Planetary Boundarie exceed the safe operating space of earth

FD

**Nature Action 100** 

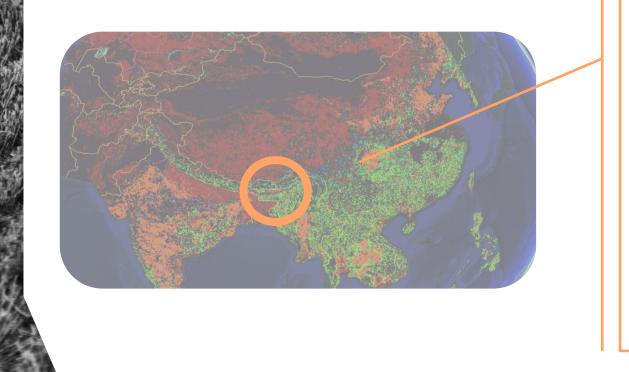
GIST IMPACT

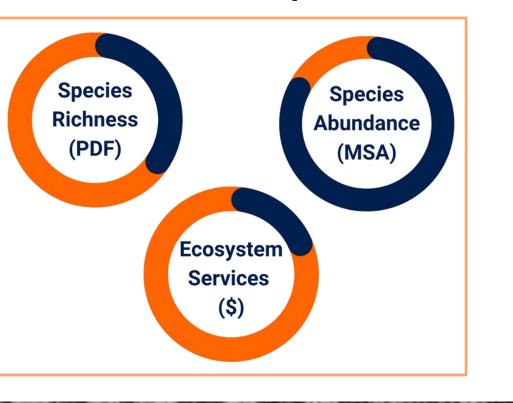
# Data analysis required



#### 1. Screen risks

#### 2. Measure impacts





### Why GIST Impact?

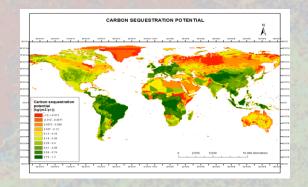
Ease & Speed

	Greenhouse Gas Ernissions	
y sources owned or	quivalent emissions occurring by any? (scope 1 emissions)	
		Emissions
I don't collect this data ye		
	some information regarding specifics of w to go within your organisation to find this	
	io go minin your organisation to mu trus	

#### Holistic Data Sets



#### Unparalleled Granularity



#### Global Benchmarking



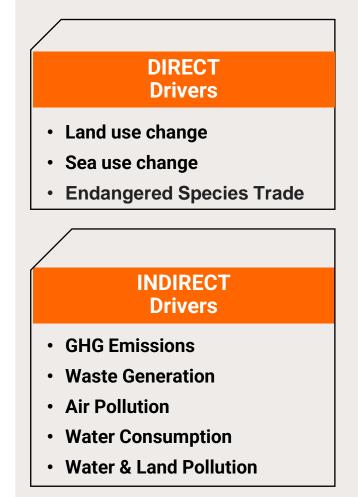
Simple data inputs and complete analysis straight away Include both direct and indirect impacts Going beyond country or regional averages, down to 300m<sup>2</sup>

Sector benchmark across 12,800 companies

### How we do it



#### 1. Data

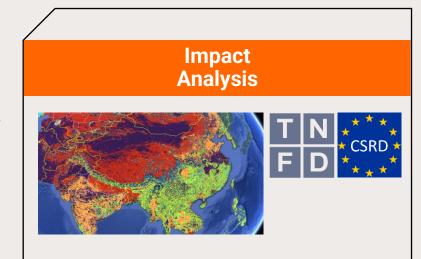


#### 2. Screening



 Proximity to protected areas, key biodiversity areas and IUCN red list species in the area

#### 3. Impact Analysis



- TNFD indicators and CSRD disclosures
- Potentially Disappeared Fraction (PDF)
- Mean Species Abundance (MSA)
- Ecosystem Services impact (\$)

Powered by GIST Impact:





### **Start now**



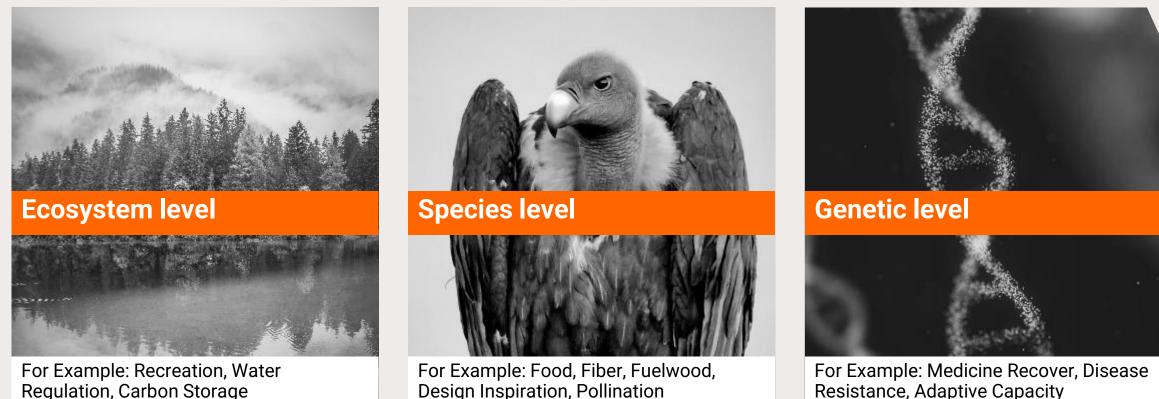
#### Appendix: Biodiversity Deep-Dive





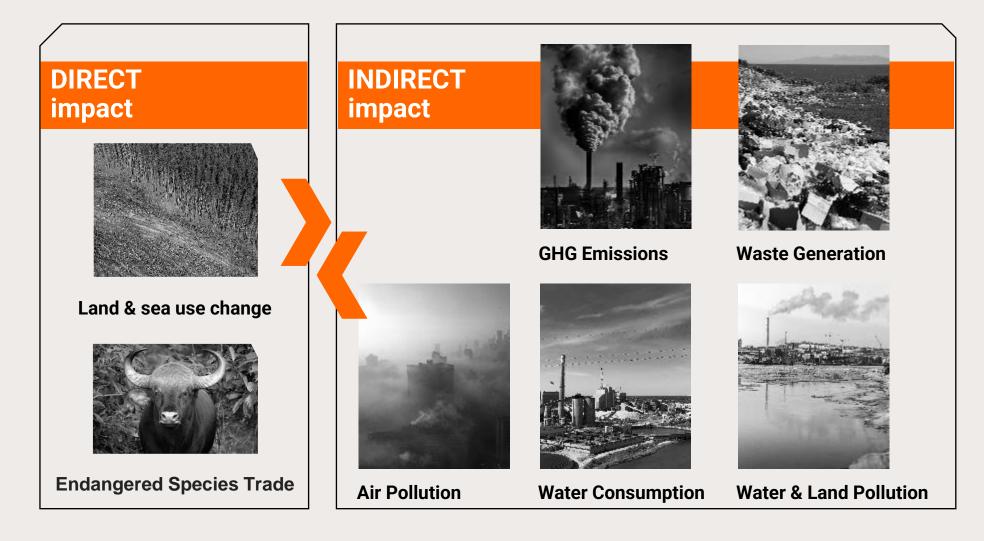
## How to measure biodiversity?

Valuing nature based on contributions to people



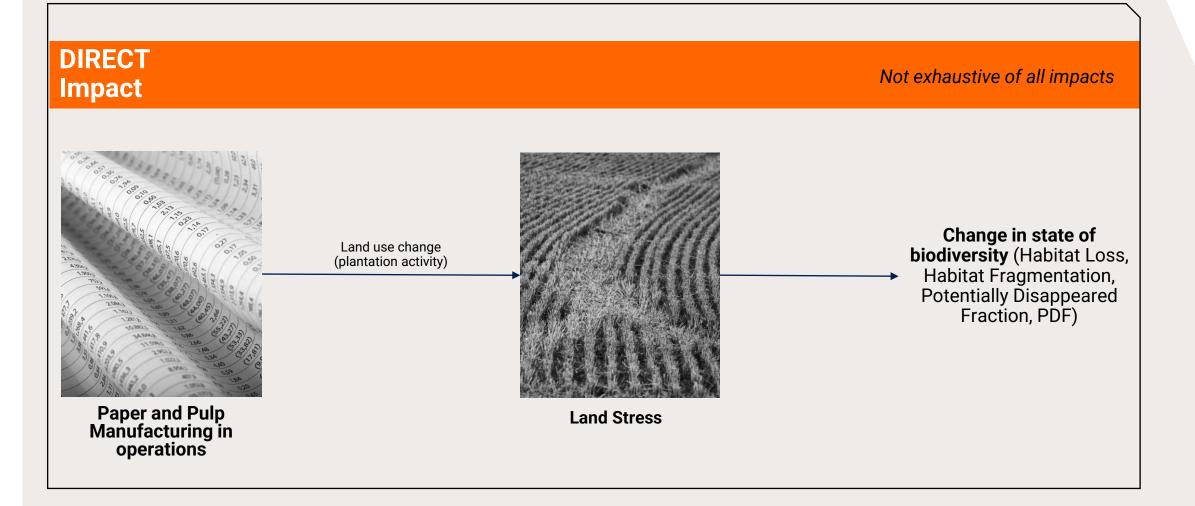


## The missing link: Companies focus on their direct impacts, but *indirect* impacts are often forgotten



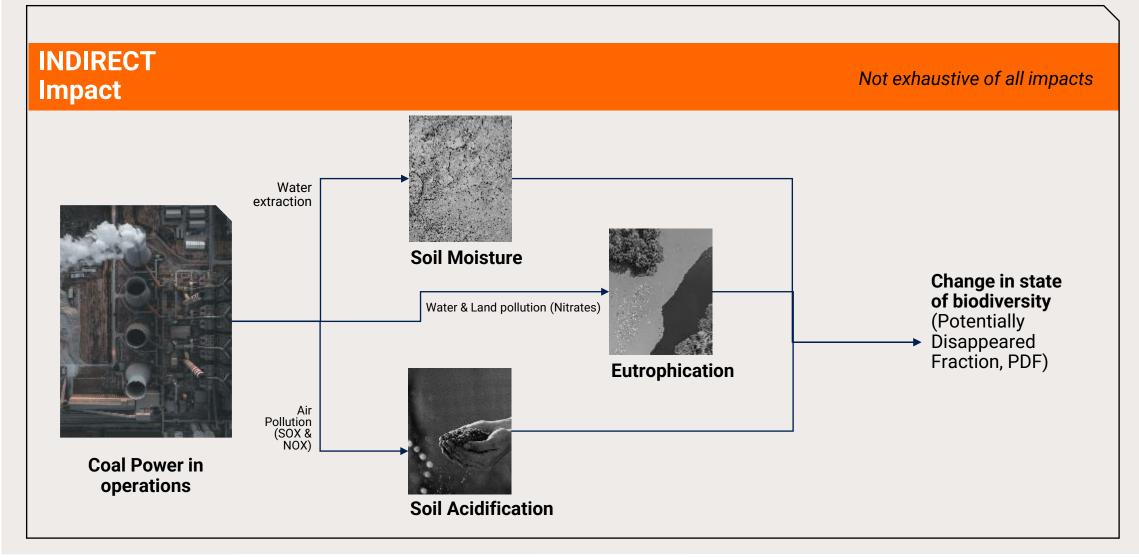


## **Direct impacts example**: Company operations can have significant direct impacts on biodiversity



#### 

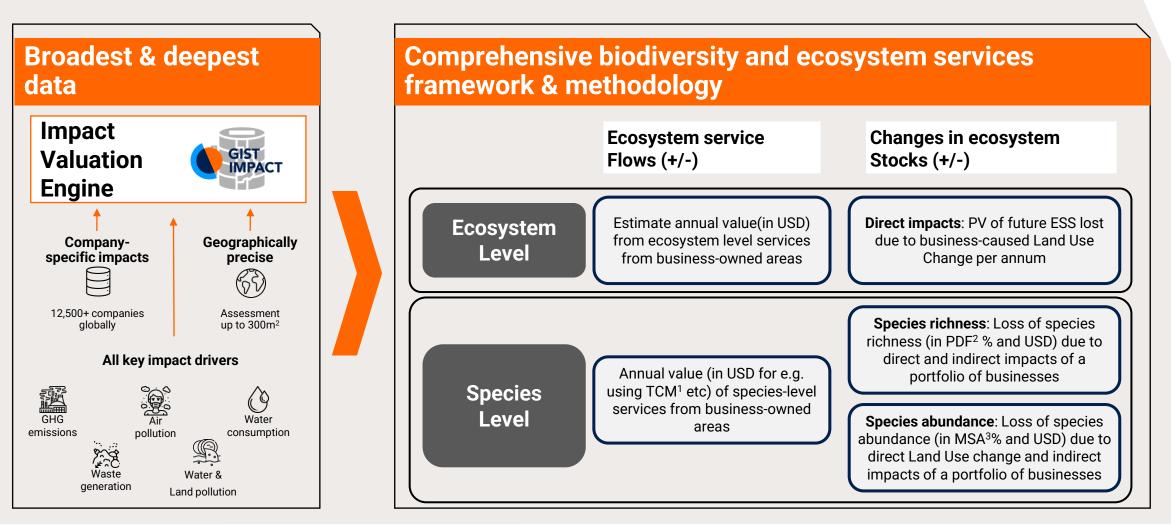
## **Indirect impacts example**: Company operations can have significant indirect impacts on biodiversity





## About GIST Impact: Accelerate your biodiversity

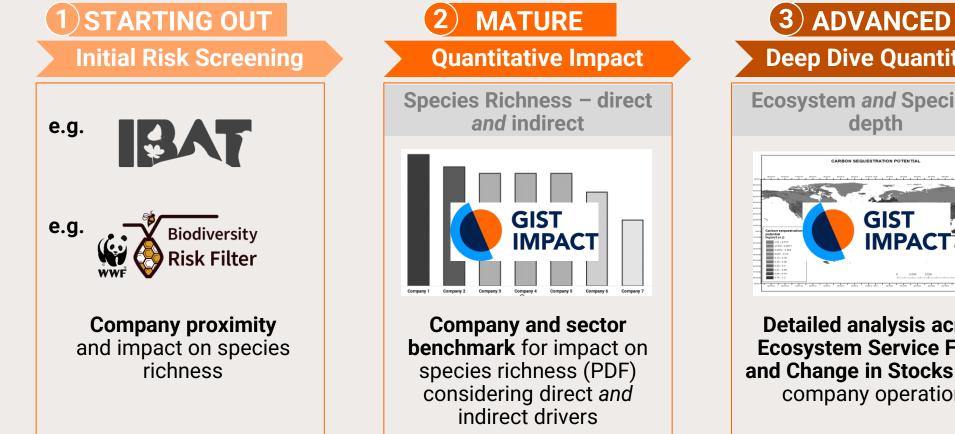
measurement





## **Biodiversity maturity stages**

3 broad stages of organisational maturity when assessing biodiversity









**Detailed analysis across Ecosystem Service Flows** and Change in Stocks for all company operations





## **Defining metrics: MSA and PDF**

UNDISTURBED HABITAT

#### PDF: Range 0-1

**Species Richness** 

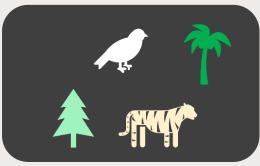
Metric: Potentially Disappeared Fraction (PDF)



Number of species in an area A

#### DISTURBED HABITAT

#### PDF: 0.2\*



**PDF Lower** the value = **Better** [i.e. represents lower risk of loss of biodiversity]

#### MSA: Range 0-1

#### **Species Abundance**

Metric: Mean Species Abundance (MSA)



(Number of species)\* (Number of individuals per species) in an area A



MSA: 0.73\*

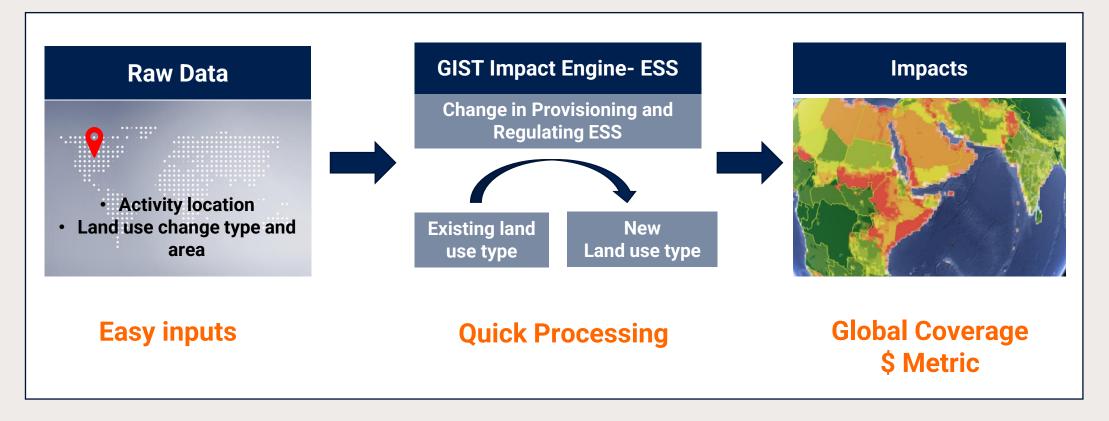
MSA Higher the value = Better [i.e. represents higher species availability]

MSA loss=1-MSA



## **Defining metrics: Ecosystem Services**

#### **Translating Land use change into impacts on ESS**



#### We are GIST Impact

We are a leading data and analytics provider harnessing the power of impact economics to understand the value contribution a business makes to the world.



GIST IMPACT



## Thank you



#### Disclaimer

The information contained in this document and any attachments are intended for the exclusive use of the addressee(s) and may contain proprietary, confidential and/or privileged information. Receipt of this document by any person other than the intended recipient does not waive proprietary right, confidentiality or privilege. Any use, distribution, disclosure, copying and/or printing of the information by any person other than the addressee is unauthorized and prohibited. Any recipient who is not the addressee is requested to issue an intimation via e-mail to information@gistimpact.com. The user shall carry out and rely on its own procedures for ensuring that its use will not interfere with the recipients' systems, and the recipient assumes all risk of use and absolves the sender of all responsibility for any consequence of its use.

The information contained in this document is for informational purposes only, you should not construe any such information or other material as legal, tax, investment, financial, or other advice. Nothing contained herein constitutes a solicitation, recommendation, endorsement, or offer by GIST Impact to buy or sell any securities or other financial instruments in any jurisdiction in which such solicitation or offer would be unlawful under the securities laws of such jurisdiction.