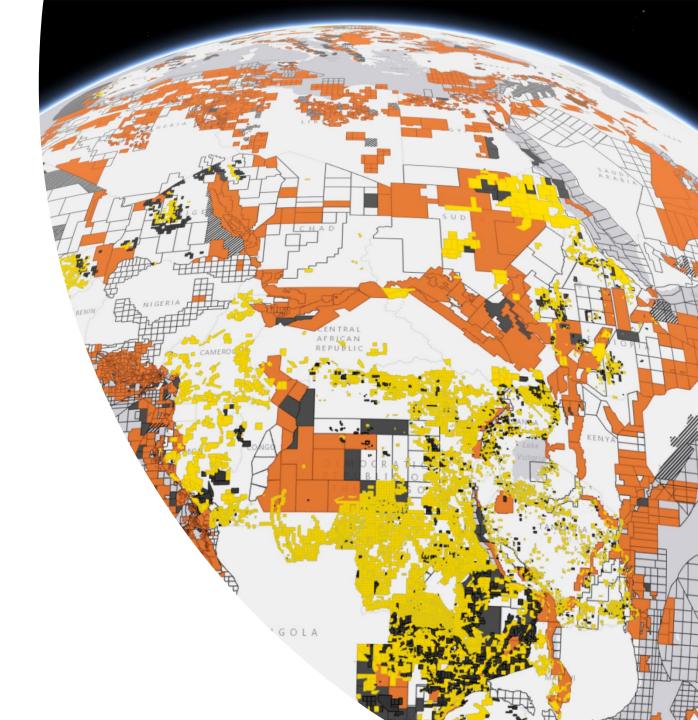


EXPLORING GEOSPATIAL ESG

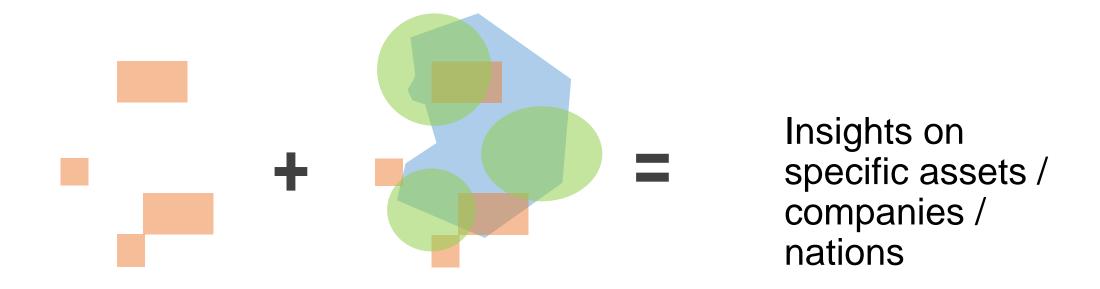
wwf-sight.org
David Patterson



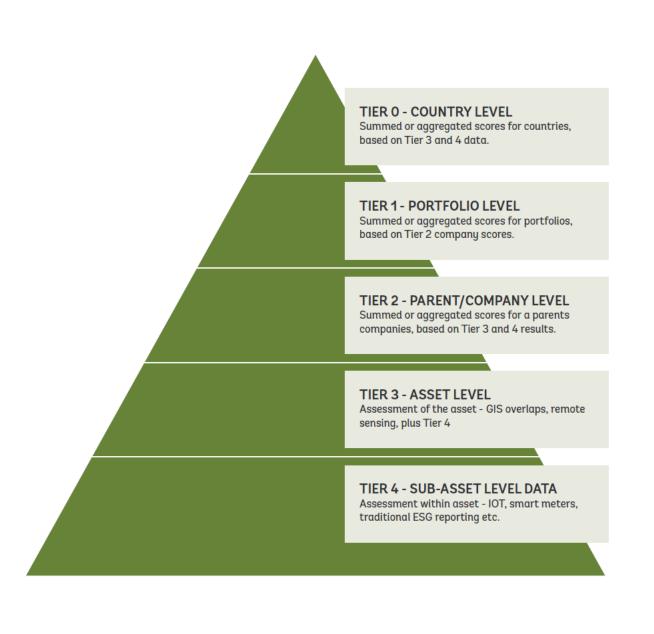
- Corporate Sustainability Reporting
 - Self Reporting
 - Regulation Reporting
- Web scrapping (NLP)
- Biodiversity Footprint Modelling / Company Financials
- Geospatial Insights / Earth Observation

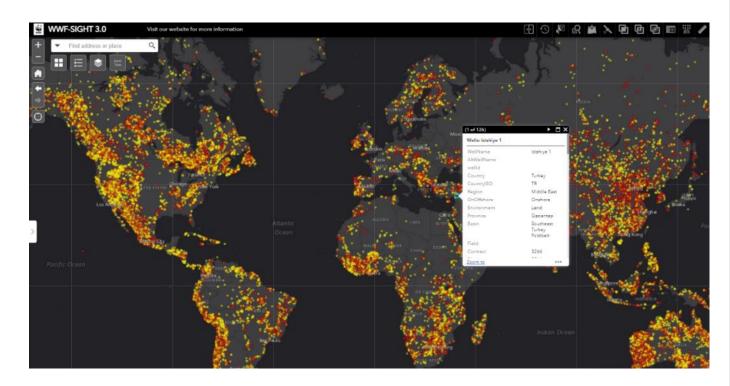
Or All the Above

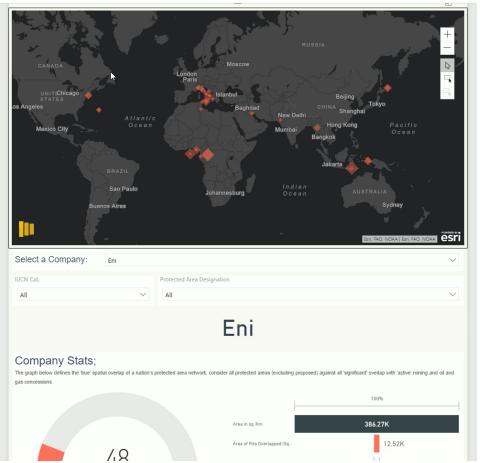
What is the geospatial ESG approach?

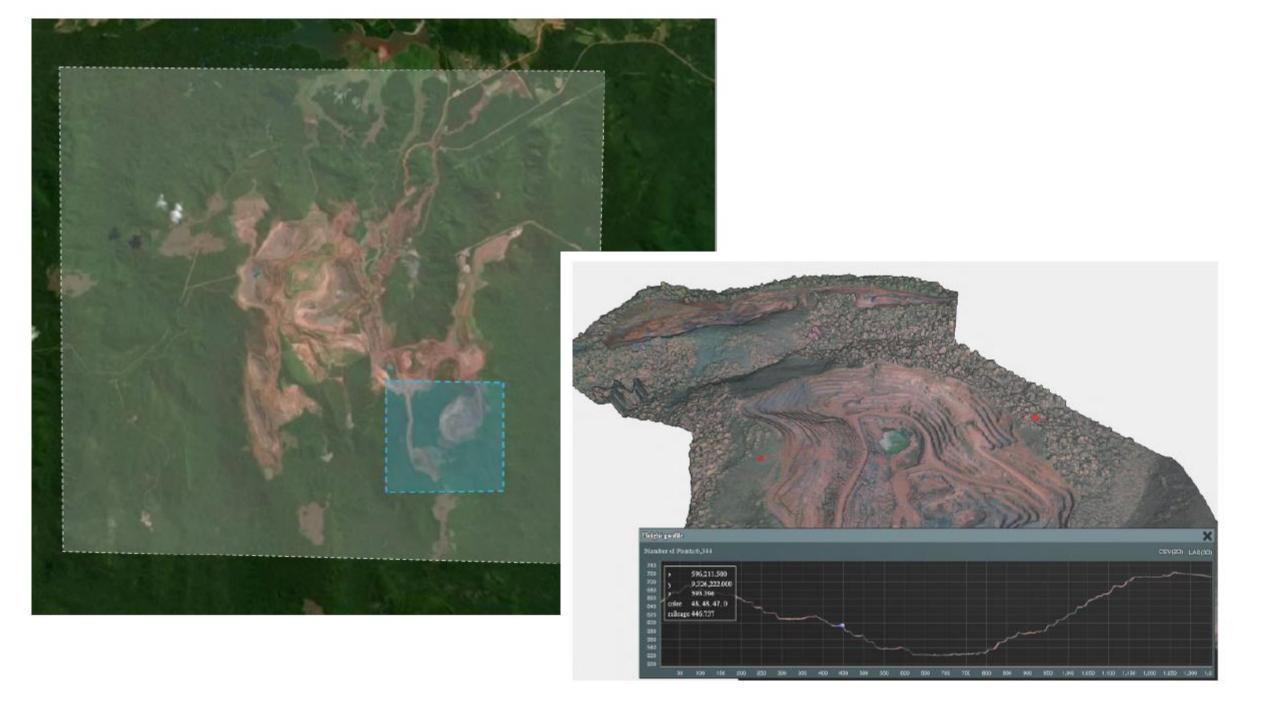


Asset/s + Observation/s = Information











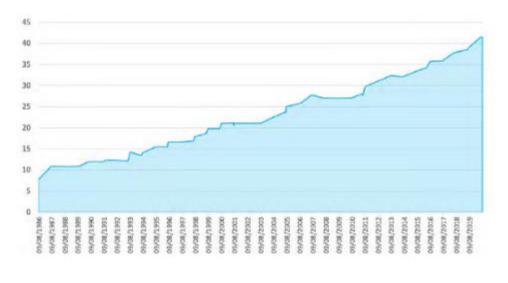


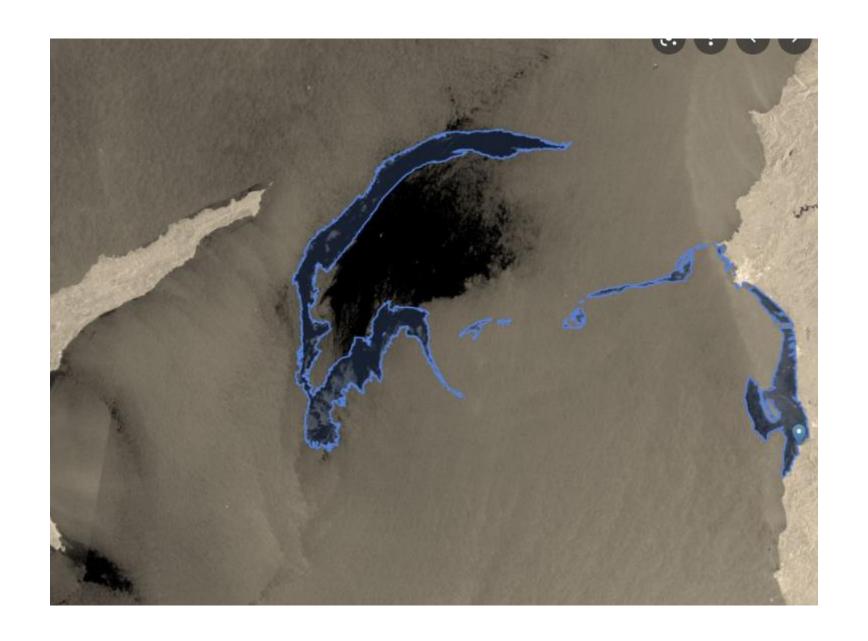








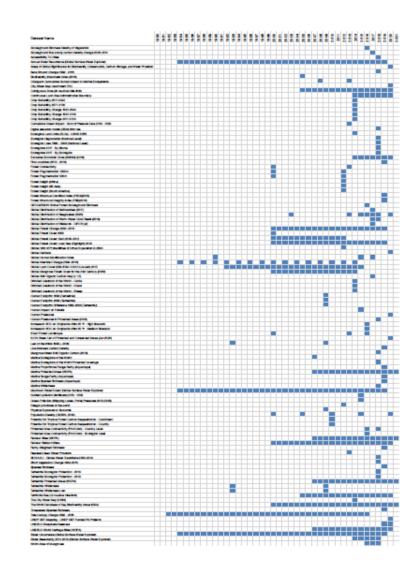




Mine Name	Aurizona	Capanema	Northern System
Ecoregion	Mangroves	Tropical & Subtropical Grasslands, Savannas & Shrublands	Tropical & Subtropical Moist Broadleaf Forests
Biodiversity Intactness Index (Mean Score)	0.94	0.66	0.73
Ground Carbon (Mean Score)	9650	8700	0
Forest Loss 2019 (km²)	0.99	0.0026	0.0215
Forest Structural Condition Index (FSCI) (Mean Score)	No Data	No Data	1.26
Forest Structural Integrity Index (FSII) (Mean Score)	No Data	No Data	0.12
Protected Areas (Area Overlap – km²)	6.28 ⁵⁷	3.13	3.14
Key Biodiversity Areas (Area Overlap km²)	3.14	3.14	3.14

Data Issues:

- Asset data and supply chain data
- Property boundaries
- Entity matching
- Temporal consistency
- Spatial resolution
- Accuracy
- Data interdependencies
- Relevancy
- Challenges of 'biodiversity'



Moving Forward on 'Biodiversity'

1. Ex-situ 'biodiversity' data challenge

How to define, then quantify, ecosystem and biodiversity impact? Environmental impacts as proxies

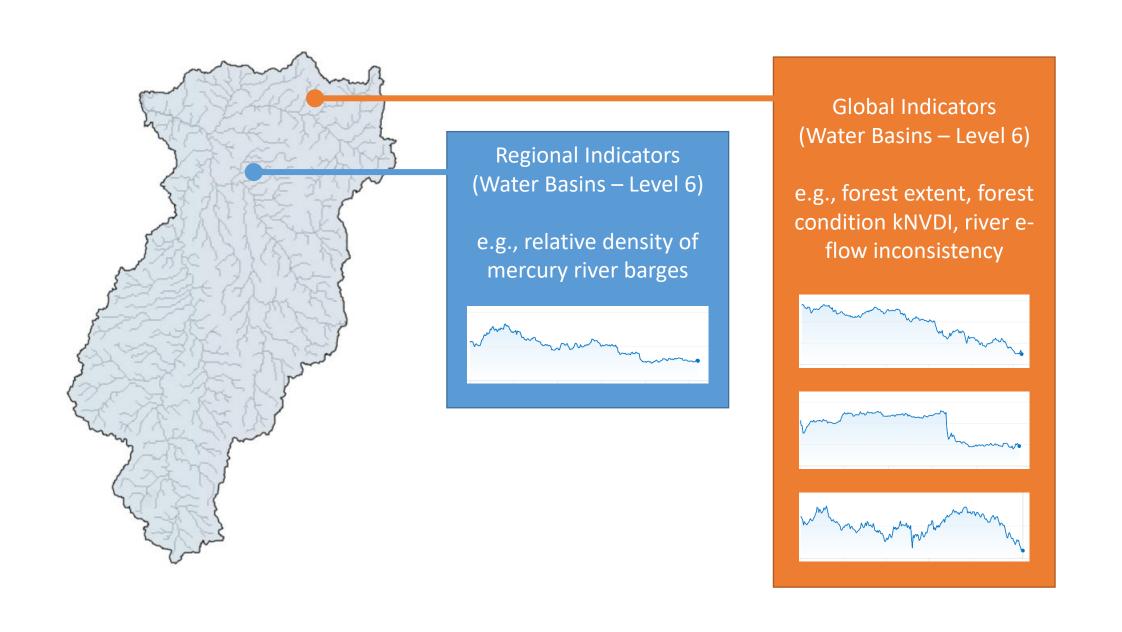
2. The realities of asset and supply chain data

Where are we going to get it from and update it? Supply chains importance

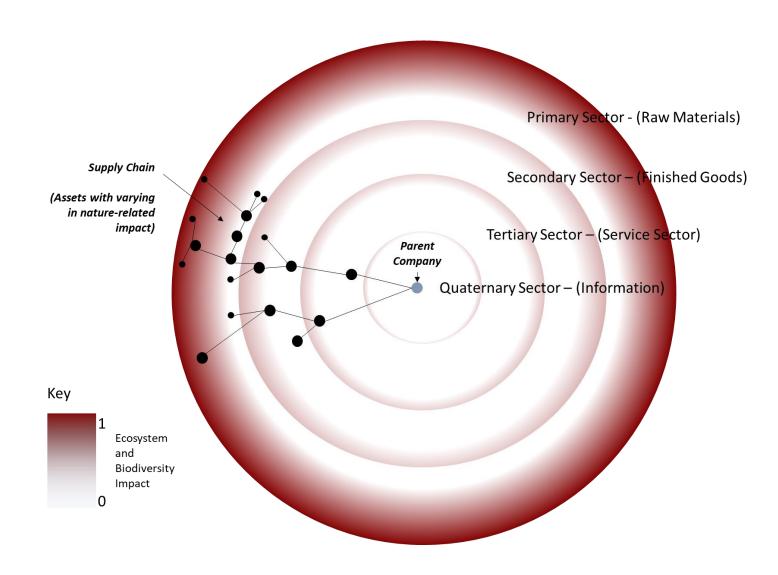
3. The need for standards + public data infrastructure

1. Biodiversity



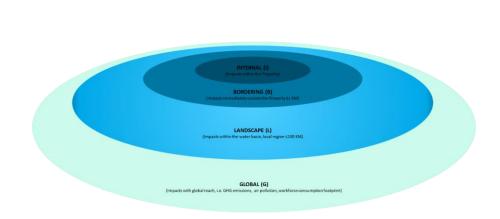


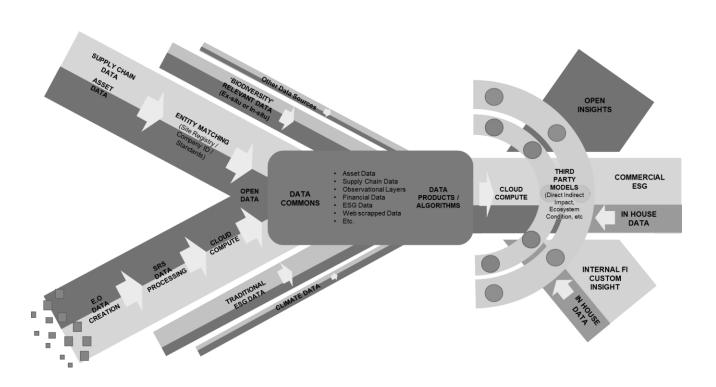
2. Asset and Supply Chain Data

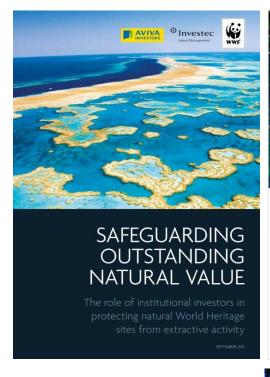


How do we get better at measuring 'biodiversity' and get more asset and supply chain data?

3. The need for standards + public data infrastructure

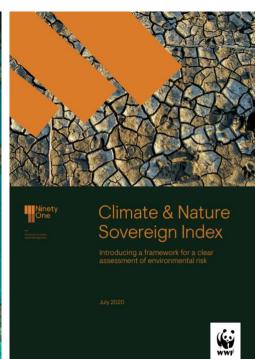




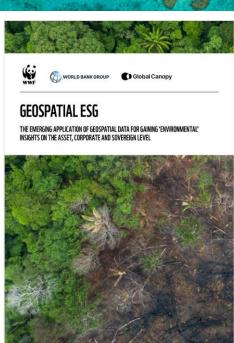














Q&A

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