# OGC - TNFD

operational considerations

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1. **Nature Data Passport**
2. **Spatial indexing backbone**
3. **Exchange protocol**

OGC TNFD 3 layer architecture proposal

# Nature Data Passport

Make sure to include:

- EO data source and acquisition date
- Algorithm + version
- Spatial resolution
- Temporal resolution or update frequency
- Uncertainty quantification

Distinguish between ***observation-based*** metrics (EO and / or field work) and ***modelled*** metrics!

# Spatial indexing backbone

**DGGS** useful as a foundational principle. solves a real problem (heterogeneous datasets at different resolutions don't play well together) and valuable for global portfolio-level screening.

However, for supply chain-level work, the unit of analysis is typically a supply chain entity like a plot, mill, concession, jurisdiction or watershed, not a grid cell.

Amend the DGGS indexing backbone with an **optional aggregation layer** (including the **translation layer**), to ensure the protocol can also handle polygon-based (supply chain) asset geometries natively.

# Exchange protocol

Yes!

But we also need a **translation layer** between raw geospatial indicators and the financially meaningful metrics that investors and lenders actually act on.

A protocol that only standardises the endpoints (raw data in, financial metric out) without specifying how those transformations are governed will produce comparability problems even if everything is technically interoperable.

1. Nature Data Passport
    + observed | modeled
2. Spatial indexing backbone
    + geometries
3. Exchange protocol
    + translation layer

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