BioSpace25 - Biodiversity insight from Space
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SESSION on ECOSYSTEM EXTENT

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Ecosystem Extent: Conclusions & perspectives

- Urgent need to **scale up** : many gaps to be filled, incl. mapping change -> reporting GBF, SEEA, etc. due in 2026
- Data infrastructure needs to evolve to be able to work on **cloud infrastructures** hosting data, processing tools to be able to handle large data bases and able to deal with **data variability**
- Capacity to **process massive datasets** : Sentinel-2 time series, multi-sensor analysis at country scale and continental (generalization on suing Data Cubes and interoperability is progressing too slowly)
- **Still work is needed on open-source solutions** based on standards: interoperability / fair principles, dissemination for validation
- **Validation** and lack of **in situ data** is crucial and still lacking, need to foster partnerships

- Need to **prepare for future satellite missions** (imaging spectroscopy, thermal infrared…) to ensure proper integration and **definition of standards**
- Need to prepare **from reporting to policy use** (more detailed typology, scalable models, uncertainties, predictions/scenarios)

- **Time series harmonization** to improve not just ecosystem extent mapping but condition as well