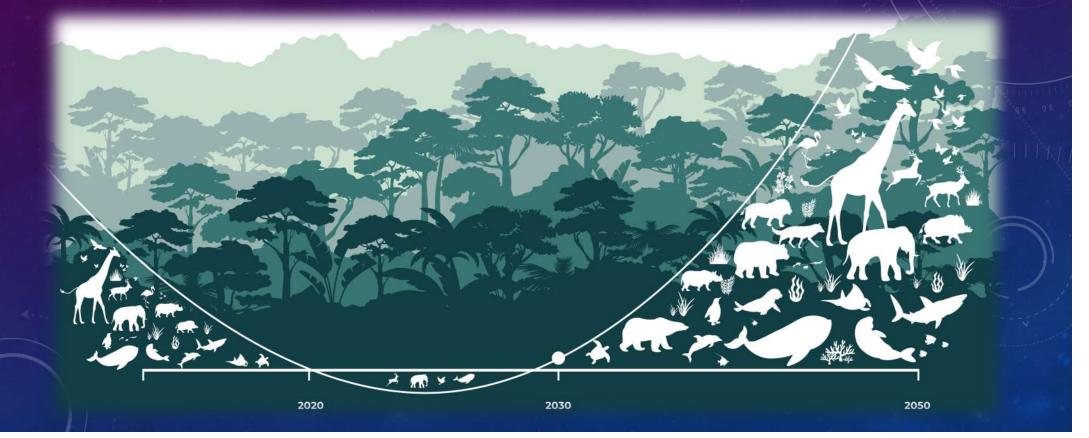
AOGED

Biodiversity visualization platform for 2030 Nature Positive and 2050 Living in Harmony with Nature

Yasuhiro Kubota (University of the Ryukyus; Think Nature Inc.)



Value chain of the biodiversity data and its vulnerabilities How the data processed, analyzed and consumed?

Fundamental data collection through national budget

Scientists are the primary consumers of data

Data generation by earth observation and natural history inventories

Data processing

Data analysis

Publishing paper

(3) Missing link

Data consumption (output) is Not circulating into data primary production



Data repository Data distribution



Biodiversity visualization platform (BVP) contributes to filling a gap in the data value chain and structures the data ecosystem.

Data users

Data curation

(2) Providing data is rarely examined from the user's perspective

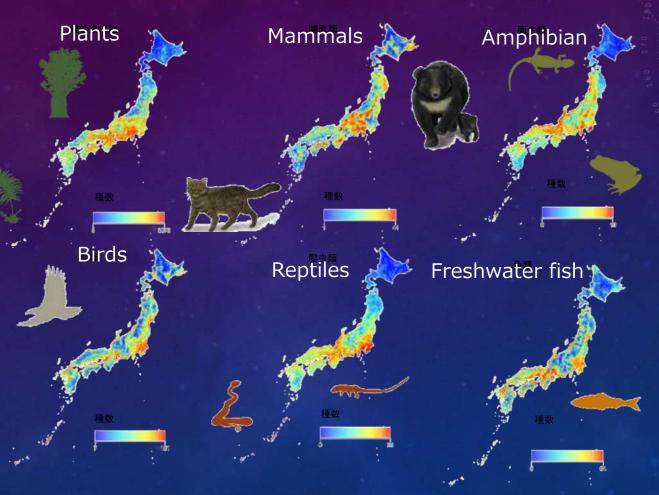
Private companies, local governments, citizens Long-term maintenance of data value Annotating data to encourage re-use (meta-data maintenance) <..... Including their publication

Data application development

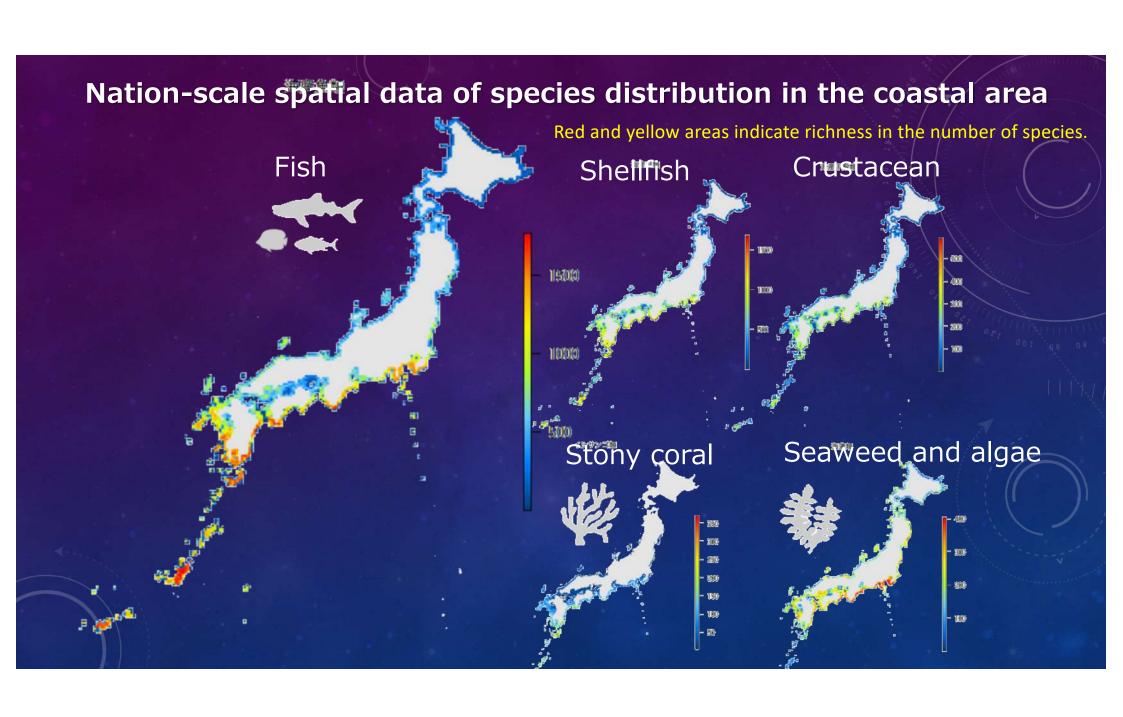
(1) Absence of data curator **Lack of curating services**

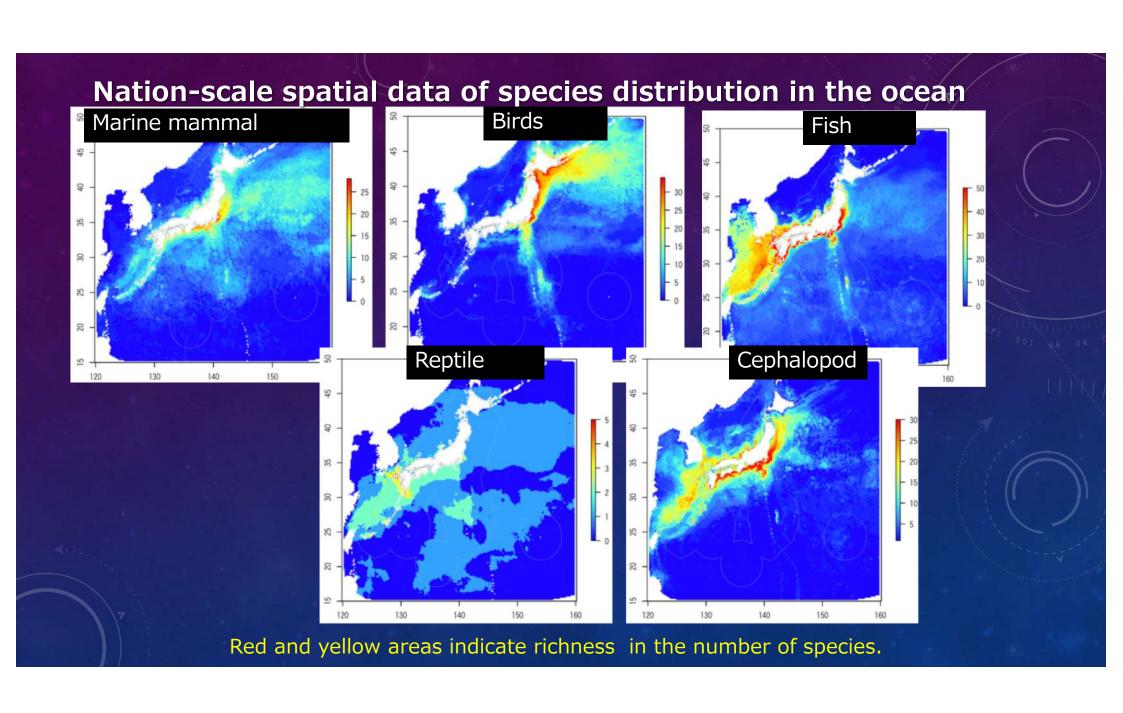
Biodiversity big data East Asian islands **Japan** More than 500,000 species of plants and animals on earth (200,000 species in ocean + 300,000 species on terrestrial)

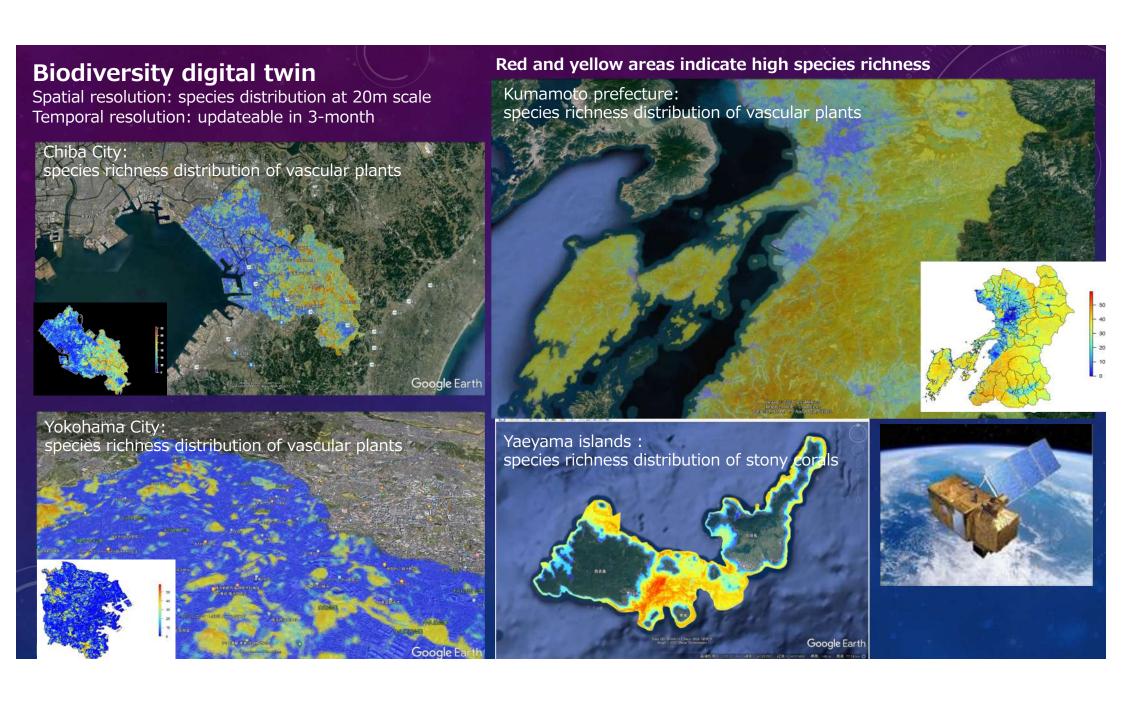
Nation-scale spatial data of species distribution in the terrestrial

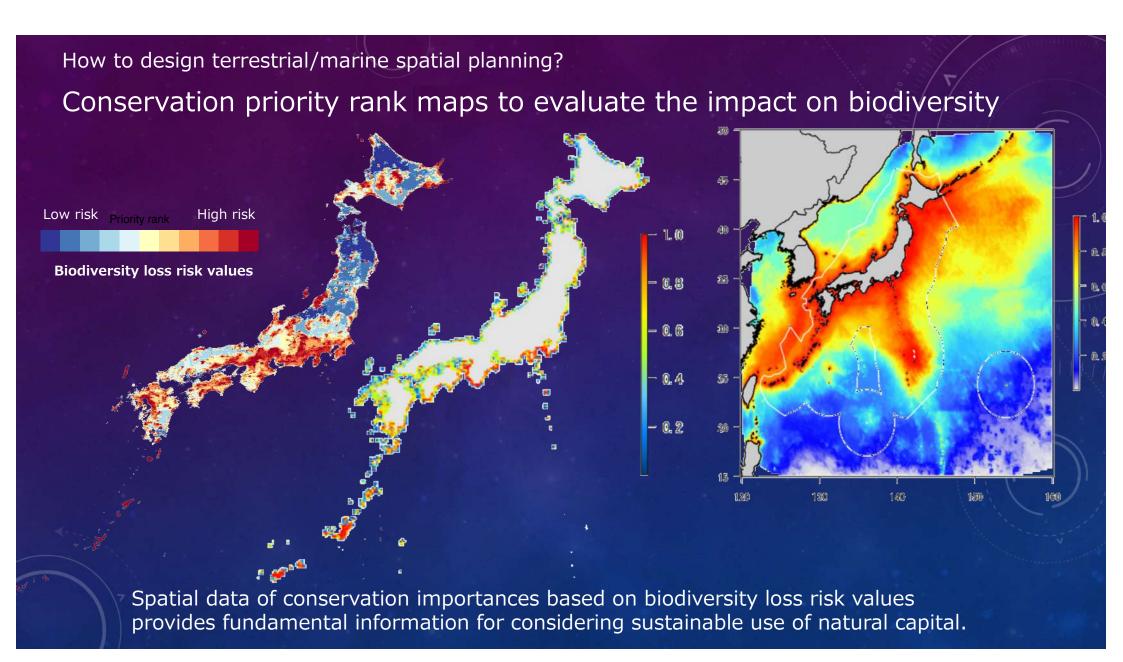


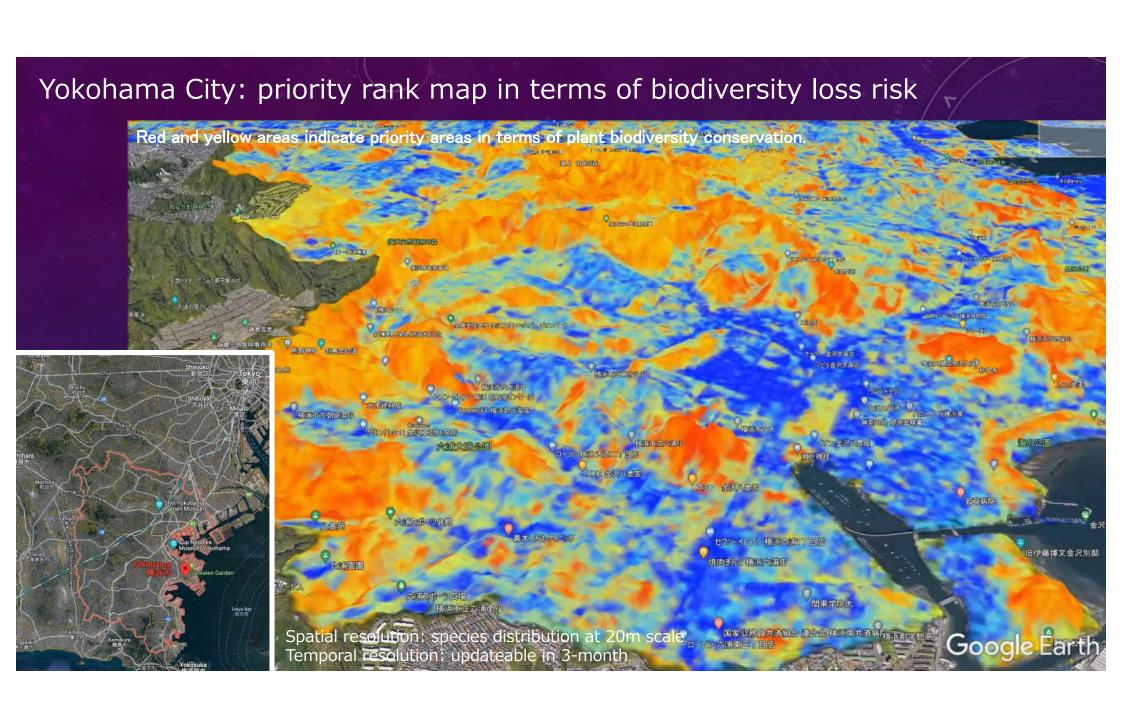
Red and yellow areas indicate richness in the number of species.

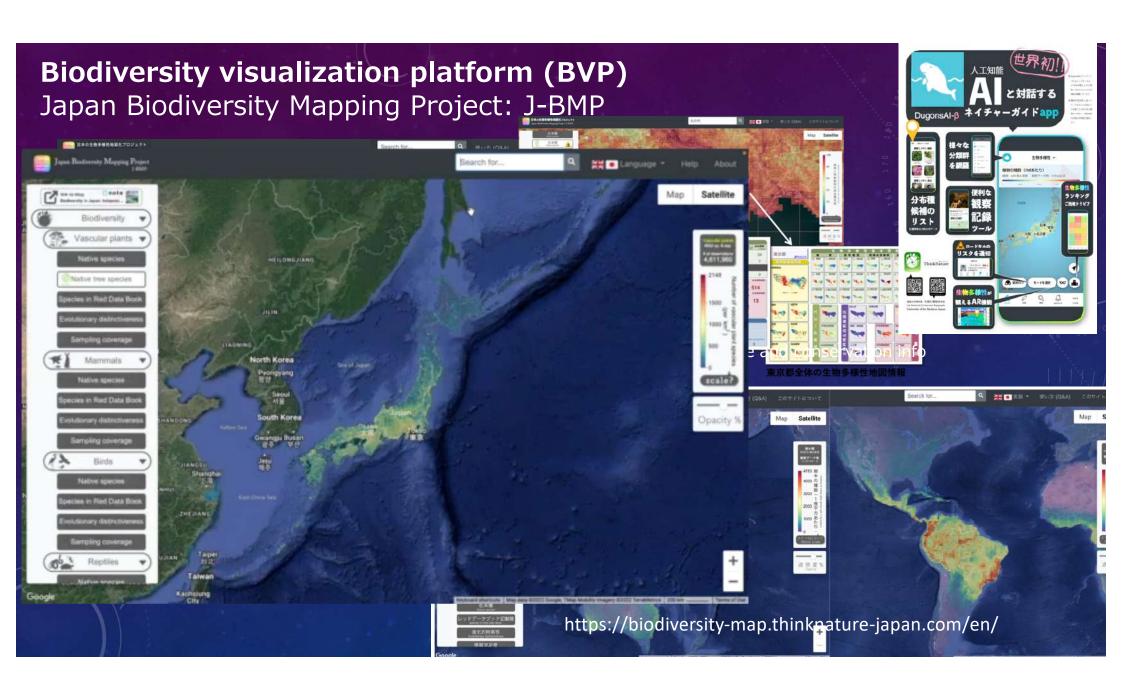






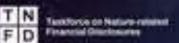






Nature (biodiversity and ecosystem service)-related data being into business activities

TNFD releases first beta version of nature-related risk management & disclosure framework for market consultation

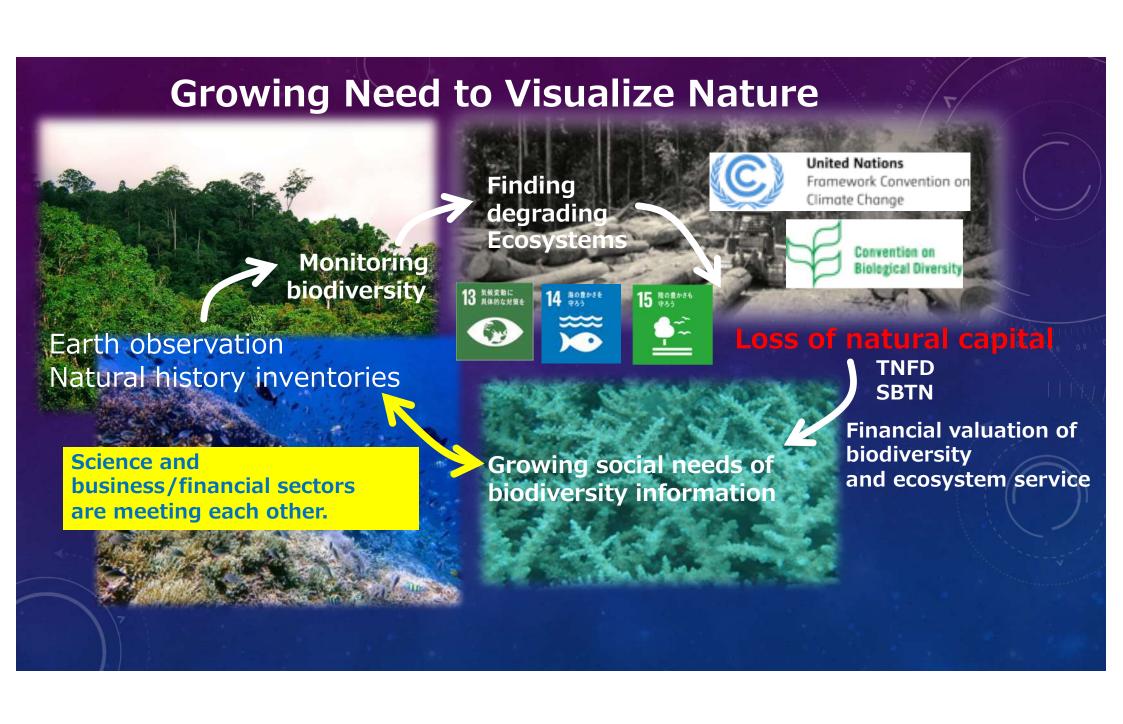


TNFD's LEAP approach consists of four core analysis phases.

- Locate your interface with nature
- Evaluate your dependencies and impacts
- Assess your risks and opportunities
- Prepare to respond to nature-related risks and opportunities and report



Biodiversity visualization platform (BVP) is essential to Locate your business with nature in Phase 1, and spatial data of conservation-priority and biodiversity-loss-risk can be used to Evaluate and Assess business impacts on nature, in Phase 2 and 3.



Structuring the biodiversity data ecosystem



Scientists are the primary consumers of data

Data processing

Data analysis

Publishing paper



Data consumption (output) is Not circulating in data primary production.



Data repository Data distribution



Biodiversity visualization platform (BVP) fills a gap in the data value chain between data-generator and end-consumers, and structures the data ecosystem.

Data users



Private companies, local governments, citizens

Data curation

Long-term maintenance of data value Annotating data to encourage re-use (meta-data maintenance) <····· Including their publication

Data application development

(1) Absence of data curator **Lack of curating services**



- Biodiversity visualization platform (BVP) plays a role in structuring data ecosystem.
- Biodiversity visualization platform (BVP) acts as data curator and curating service provider.
- These contribute to connecting a missing link in the value chain between data-generator and end-consumers.