

pSESYNTH Project

Building a Multidisciplinary Paleo-database of the Global South

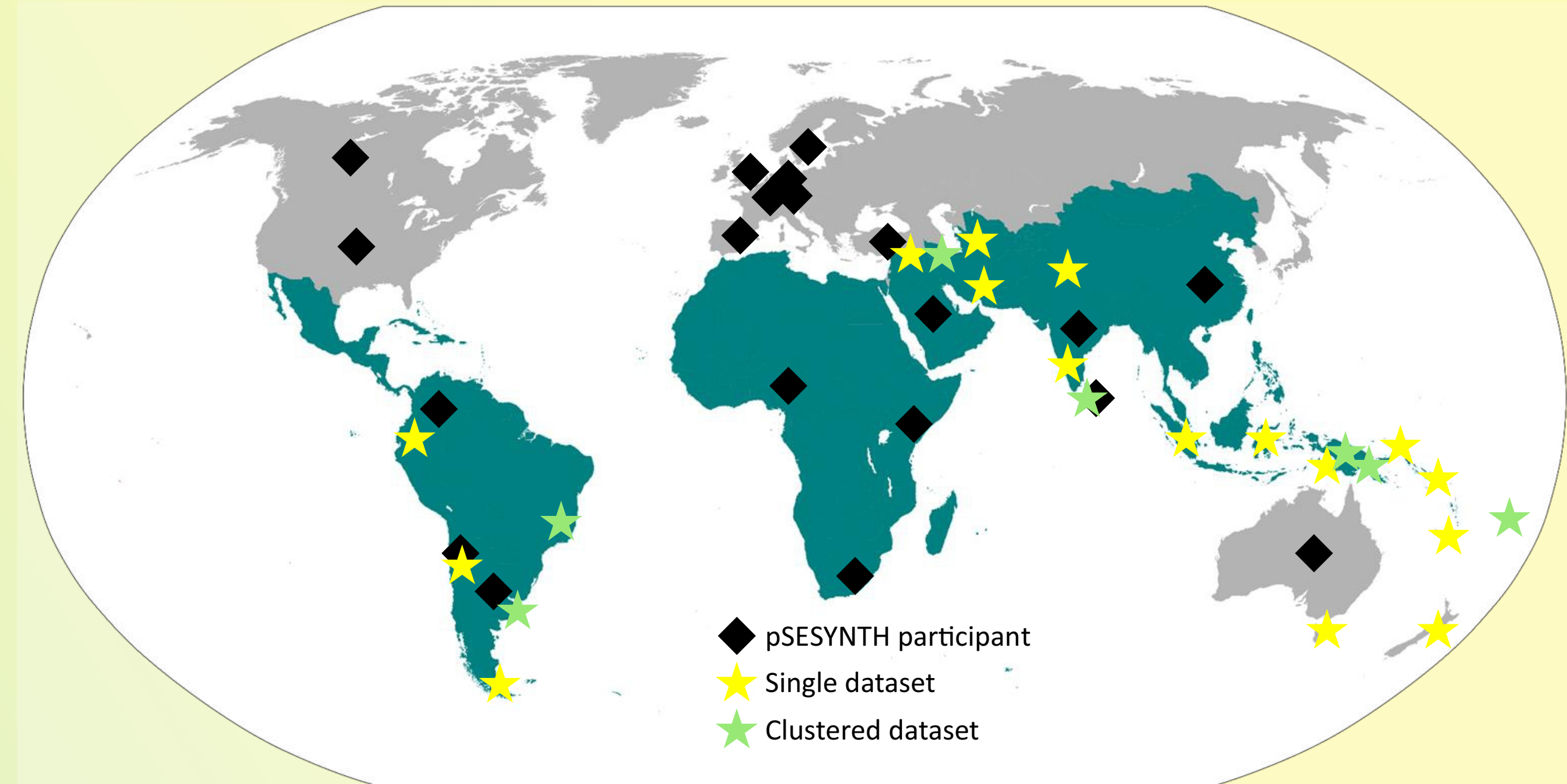


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What is pSESYNTH?

- How to enhance paleoscience research and collaboration in the Global South?
- The INQUA-funded pSESYNTH Project is an example of scientific community mobilization and collaboration focused on the Global South, i.e. Latin America and the Caribbean, Africa, Asia, and parts of Oceania.
- Why Global South?
 - Long-term marginalization from scientific collaborations
 - Underrepresentation of long-term social-ecological studies
 - Diversity of landscapes under climatic & anthropogenic pressures
 - Challenging ecosystem management in developing economies
- Through developing a multi-dimensional paleo-database, pSESYNTH promotes a collective vision for past social-environmental systems and their future sustainability.

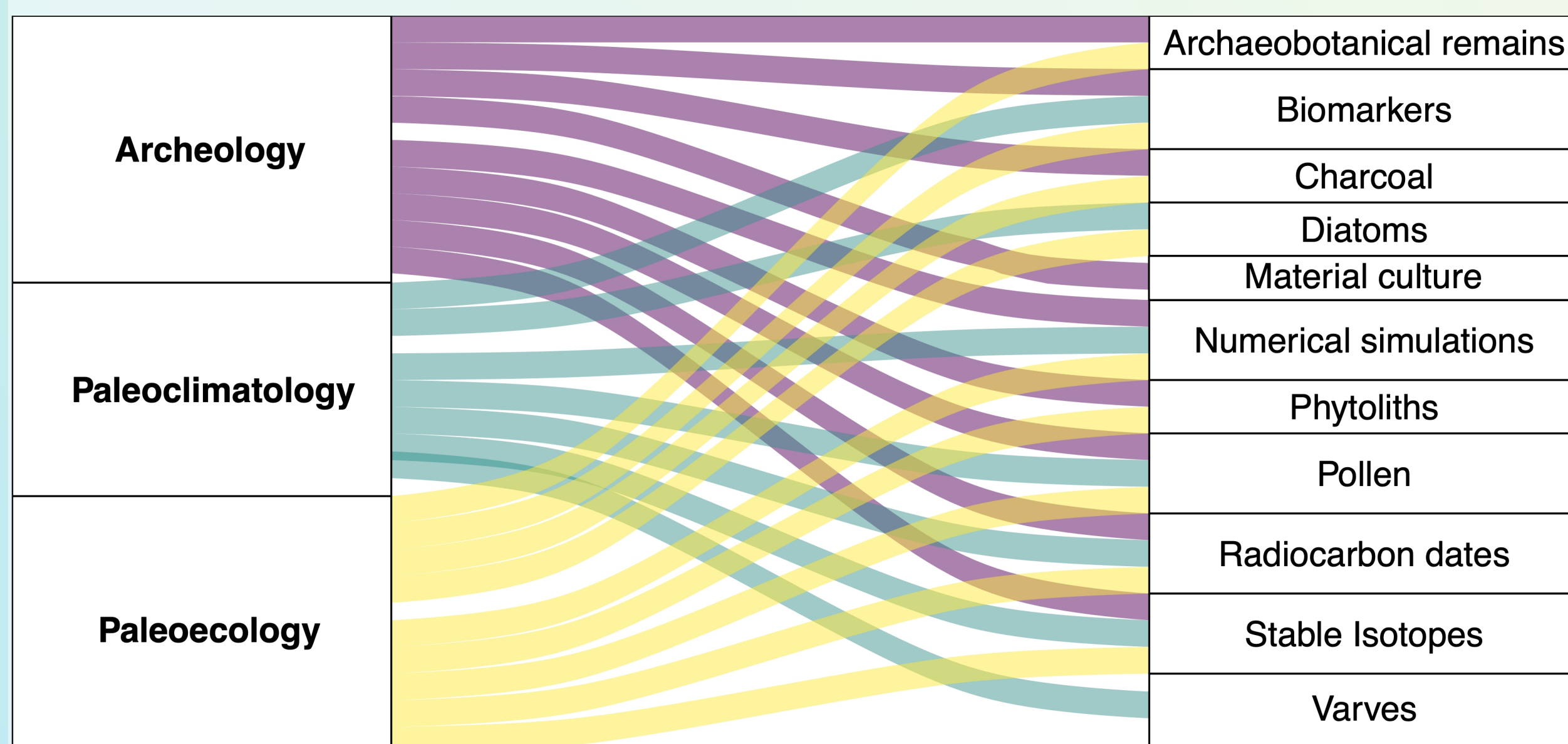


Methodology

Collection of Datasets and Ideas

The pSESYNTH participants explore, analyze, and share past social-environmental systems data of the Global South, using three core themes:

- Paleoecology
- Paleoclimatology
- Archeology



Addressing Community-led Questions

The pSESYNTH database will offer curated sets of interdisciplinary case studies from the Global South, aimed at addressing generic and region-specific questions, such as:

- Do long-term vegetation changes, land use and landscape management patterns on the sub-continental and regional scale emerge for the Global South?
- What was the role of colonialism in the evolution of socio-environmental systems in the Global South?
- How human colonization altered island ecosystems?

Future Directions

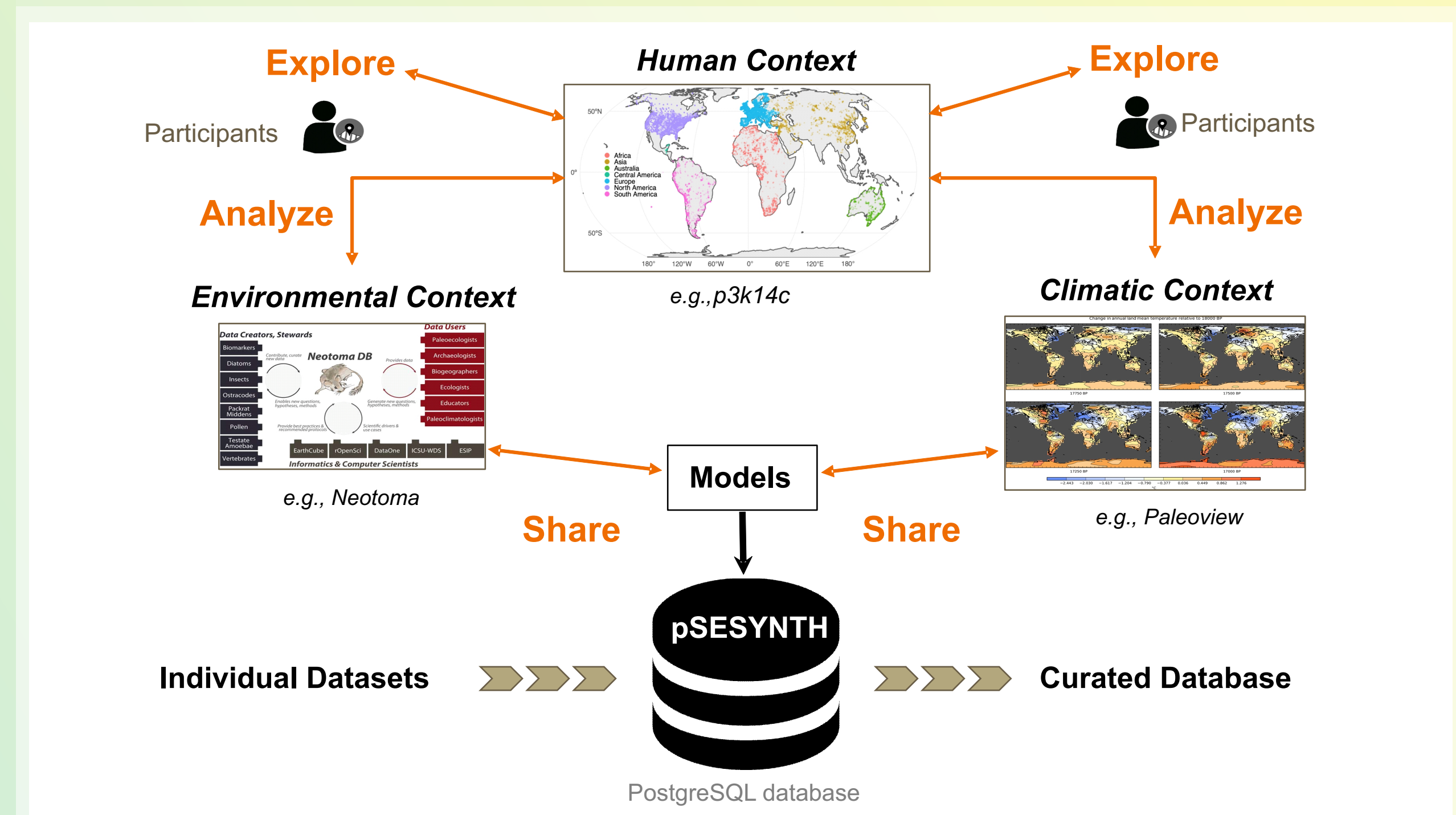
- pSESYNTH activities will continue to cross-fertilize knowledge and methods, availing the INQUA HABCOCOM support and upcoming PAGES-INQUA synergistic activities as platforms
- The project will organize an in-person meeting during 2024

Objectives

- To establish, articulate and strengthen interdisciplinary teams for studying past socio-environmental systems in the Global South
- To stimulate community-led research questions at the intersection of climate, humans, and environment
- To build the first-ever multi-disciplinary database of past socio-environmental systems of the Global South

To stir community-led questions varying across geographies within the Global South, pSESYNTH operates through region-specific subgroups:

- Americas
- Asia-Africa
- Australasia-Oceania



Data Visualization

Database visualization will consist of a R shiny application to locate records in space and time.

Data Storage

Raw data assigned with DOIs will be securely stored in a repository (e.g. Zenodo), ensuring ownership credits to the original contributors along with secured and transparent data reusability guidelines.

How Do I Get Involved?



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