

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?

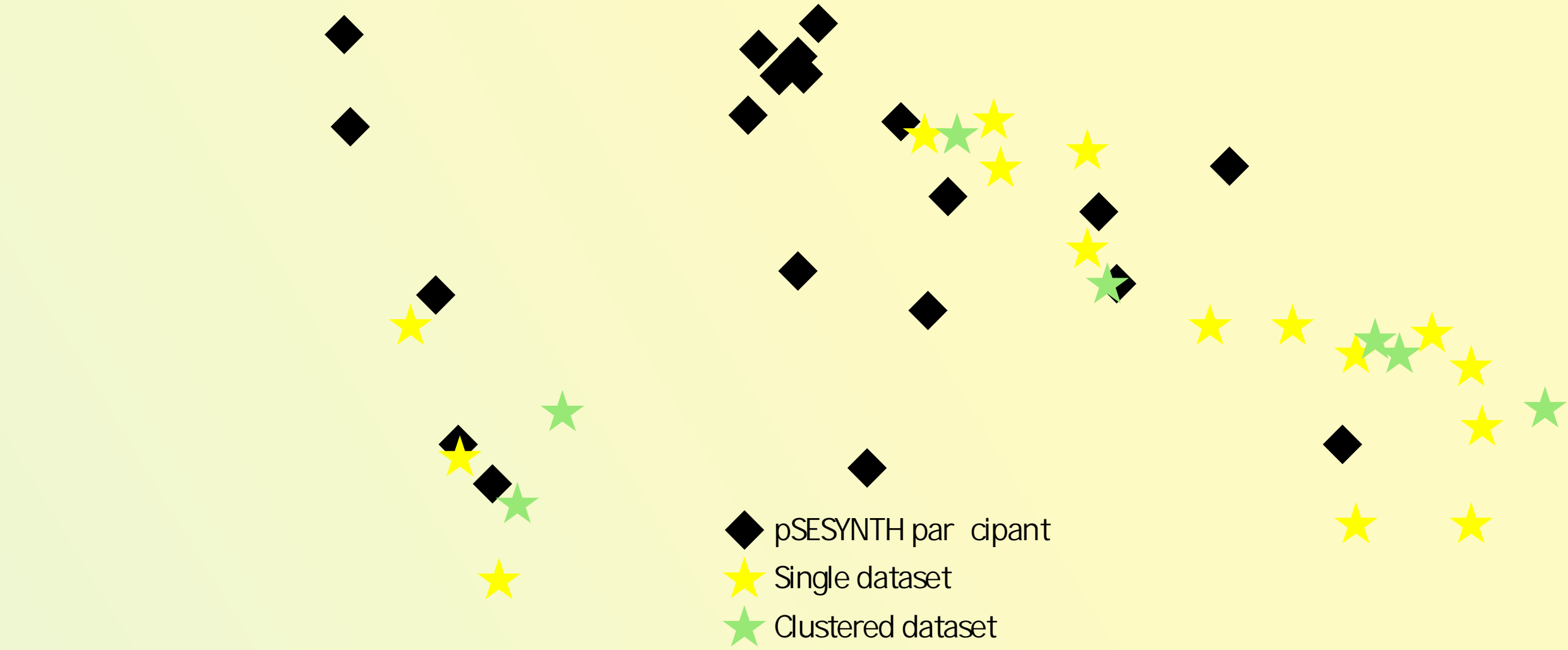
- Long-term marginalization from scientific collaborations
 - Underrepresentation of long-term social-ecological studies
 - Diversity of landscapes under climatic & anthropogenic pressures
 - Challenging ecosystem management in developing economies
- Through developing a multi-dimensional paleo-database, 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

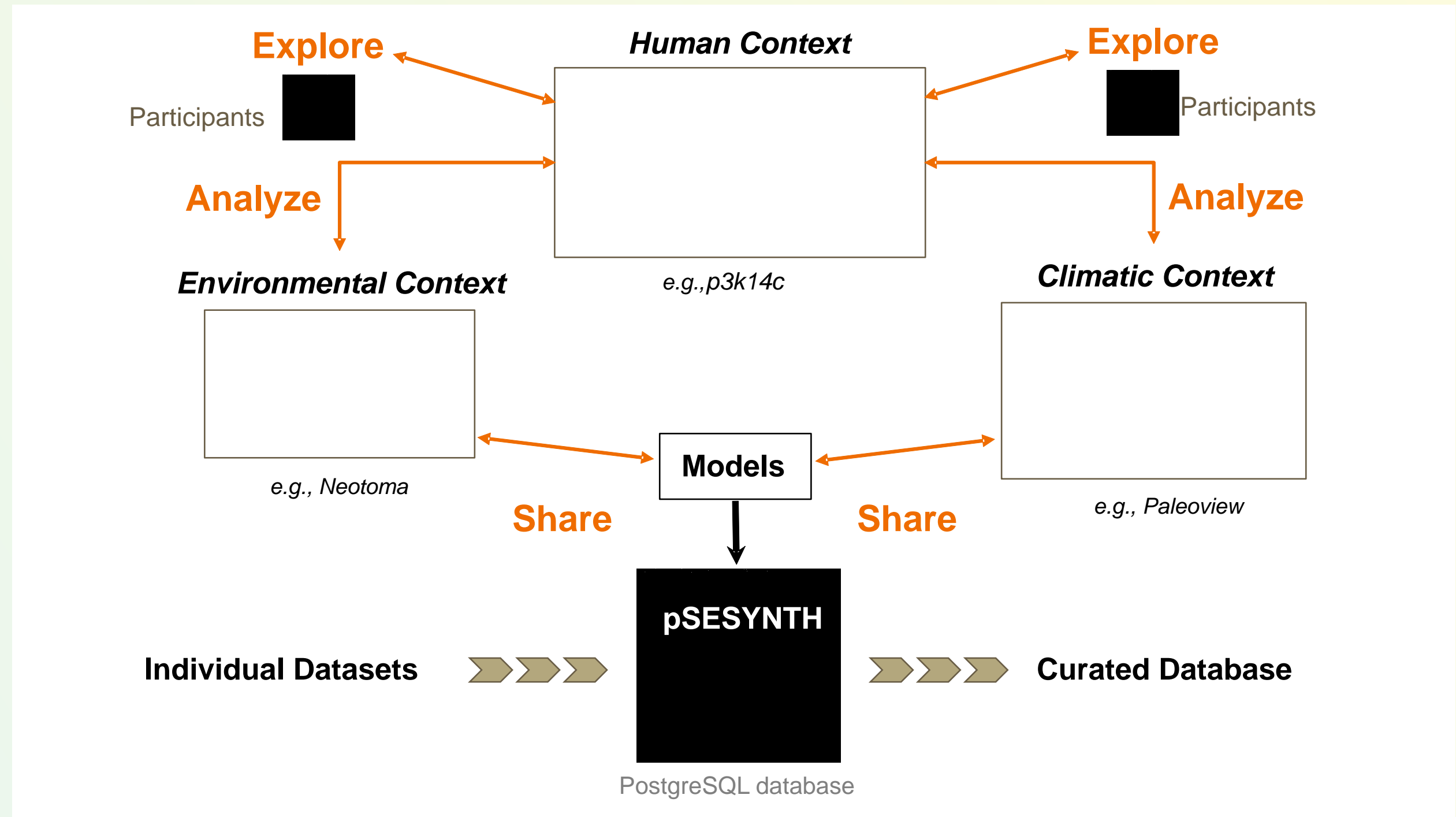


Objectives

- 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



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 HABCOM support and upcoming PAGES-INQUA synergistic activities as platforms
- The project will organize an in-person meeting during 2024

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?

