

KEYNOTE SPEECH

URGENSI PEMETAAN KOLABORATIF

TEKNOLOGI PEMETAAN BENTANG LAHAN UNTUK SOLUSI BERBASIS ALAM DI INDONESIA

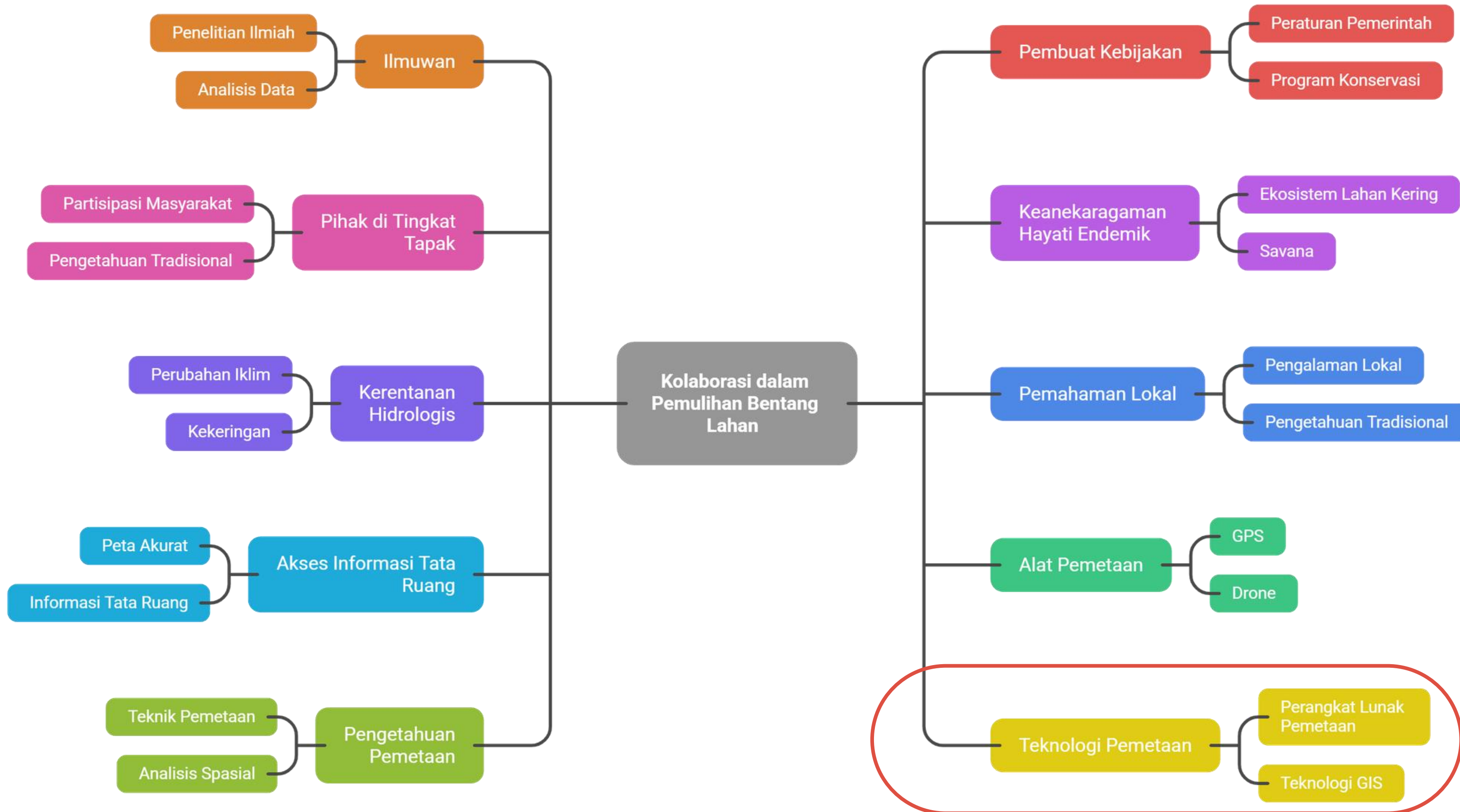
Asep Hidayat, S.Hut., M.Agr., Ph.D
Kepala Pusat Riset Ekologi (PRE) - BRIN

Lokakarya Awal Proyek EPISTEM,
Provinsi Nusa Tenggara Timur (NTT)

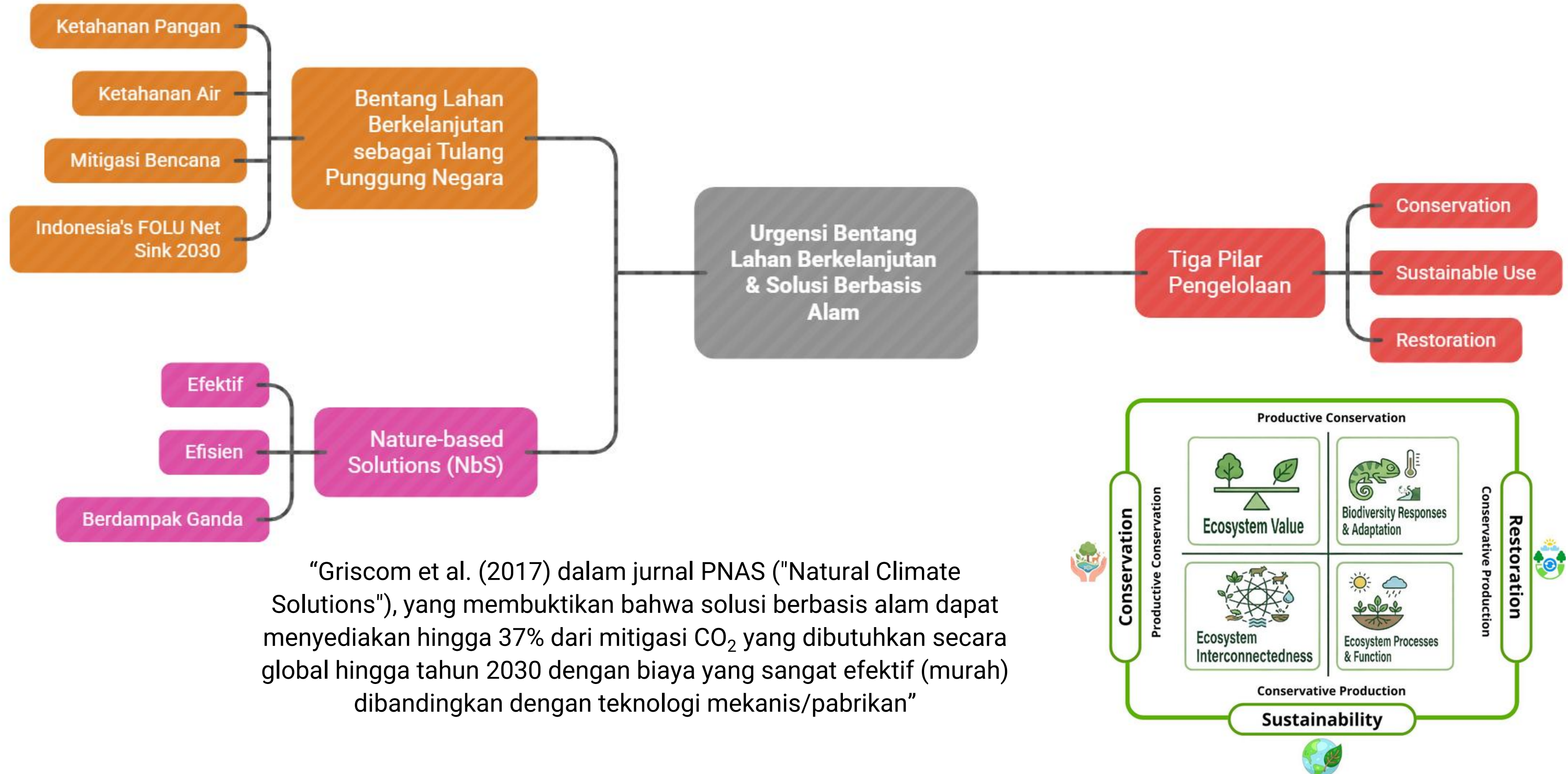


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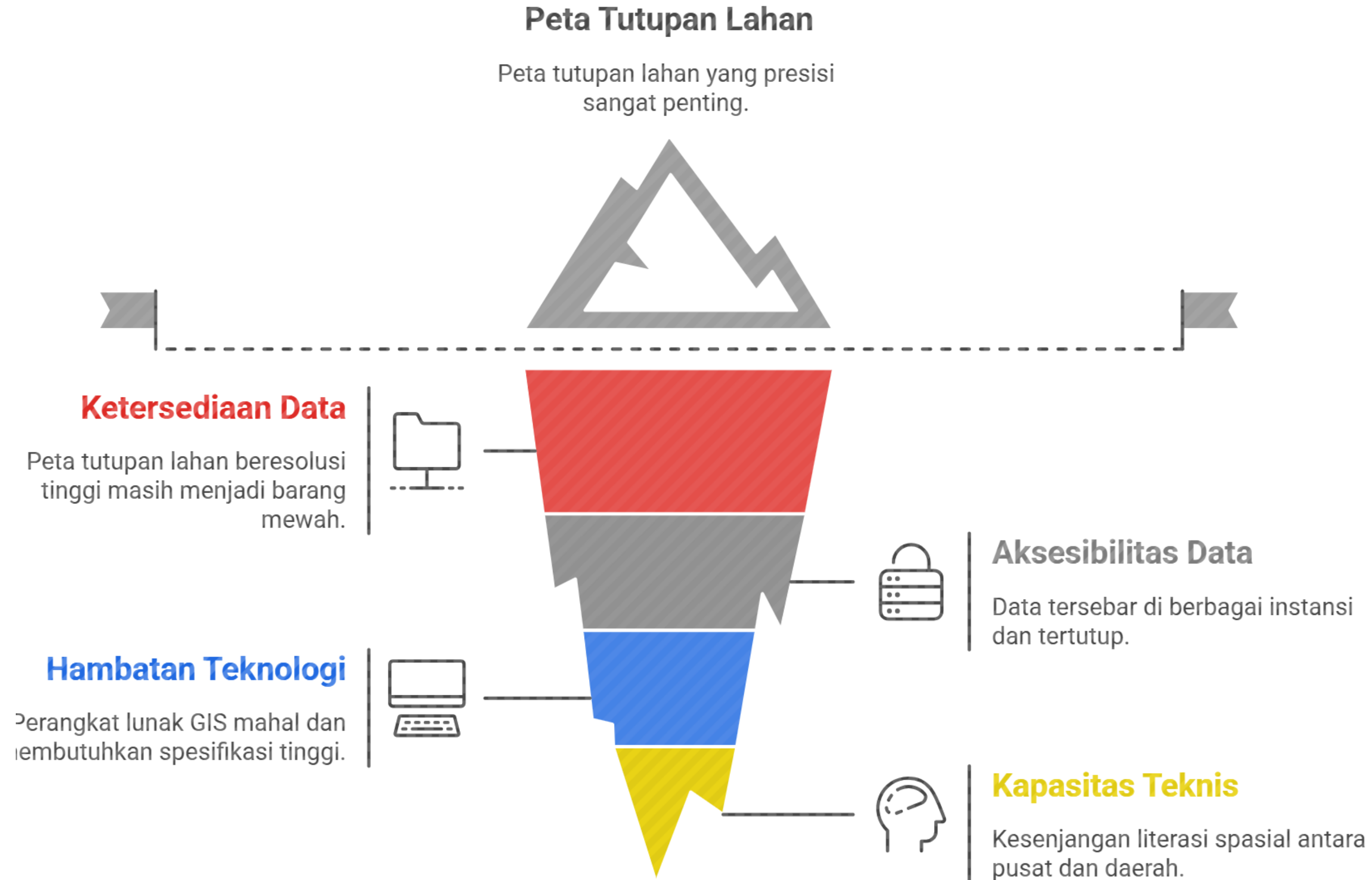


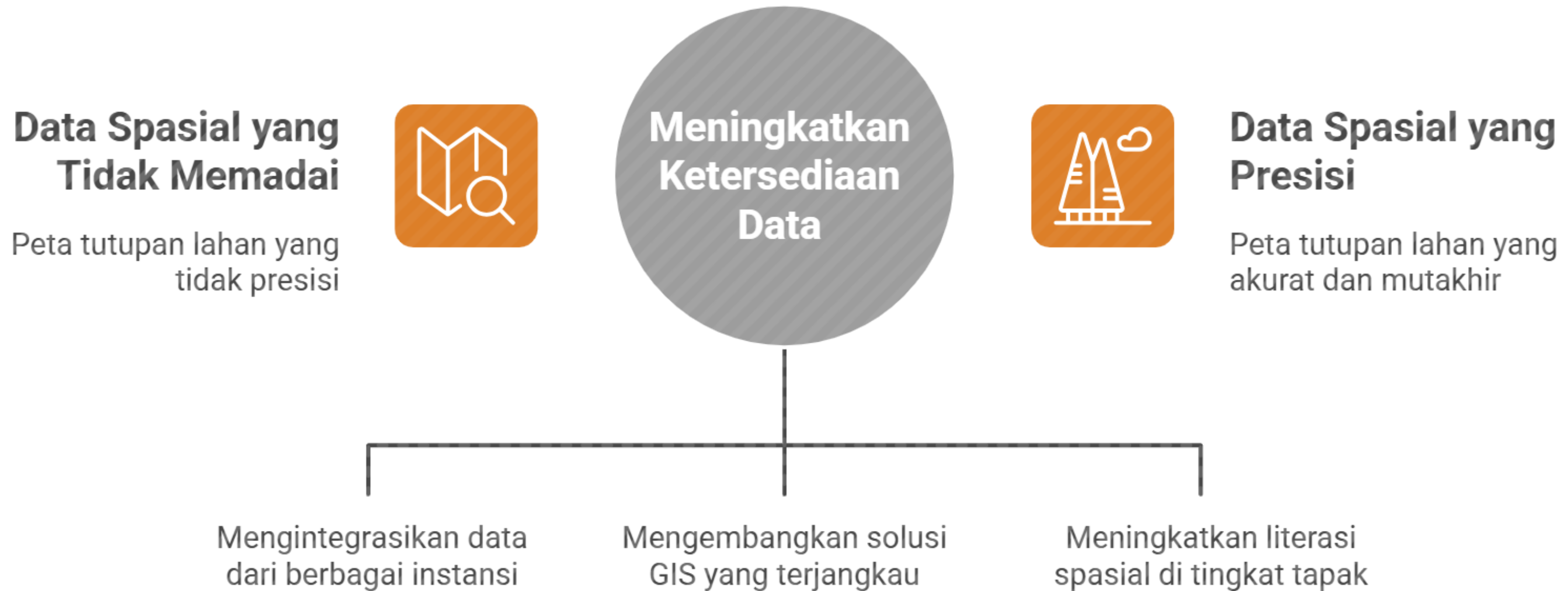


URGENSI BENTANG LAHAN BERKELANJUTAN & SOLUSI BERBASIS ALAM



“Griscom et al. (2017) dalam jurnal PNAS (“Natural Climate Solutions”), yang membuktikan bahwa solusi berbasis alam dapat menyediakan hingga 37% dari mitigasi CO₂ yang dibutuhkan secara global hingga tahun 2030 dengan biaya yang sangat efektif (murah) dibandingkan dengan teknologi mekanis/pabrikasi”





MENJAWAB TANTANGAN: KEBUTUHAN TEKNOLOGI KOLABORATIF & EPISTEM

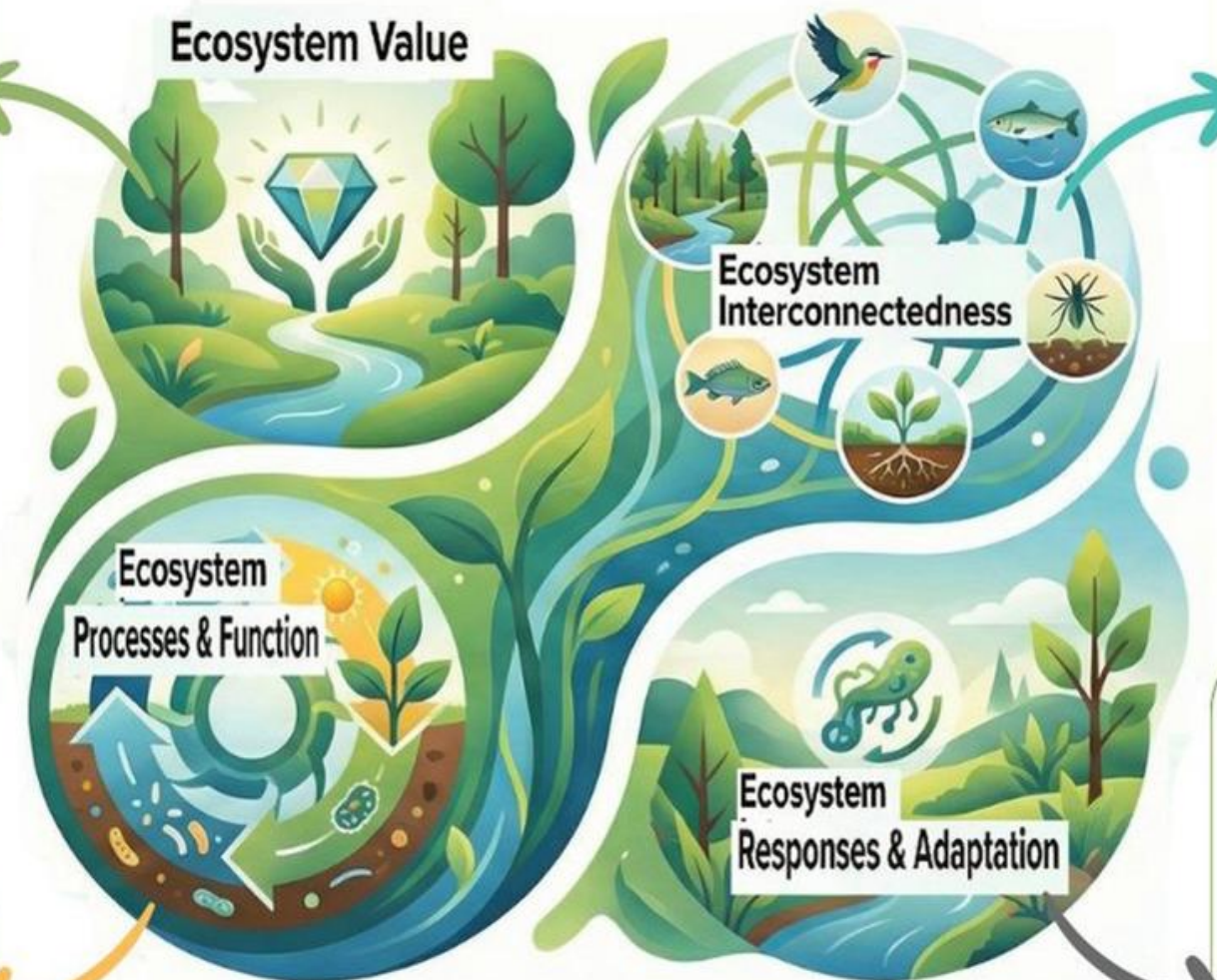
• Fokus Riset PRE BRIN dalam pengelolaan bentang lahan

SQ : ERCAS, FOOBERS, & SUBION, ECDIS

Ecosystem value refers to the potential benefits that ecosystems provide to humans and the environment. Ecosystem value in ecology encompasses ecological, environmental, economic, socio-cultural values, as well as life-supporting functions. This approach primarily aims to establish the monetary and other proxy values of an ecosystem. Ecosystem services represent the benefits derived from healthy ecosystems.

SQ : EDEX, ERCAS, FOOBERS & ECDIS

The ability of natural processes and components (biotic and abiotic). Ecosystem functions reflect the collective life activities of plants, animals, and microbes, as well as their impacts, through physical, chemical, and biological processes to sustain life (energy transformation and translocation). An ecosystem must have a high diversity of plants, animals, and microorganisms to form a robust web of life that prevents ecosystem extinction and maintains regulatory functions against natural hazards.



SQ : SUBION, EDIS

Ecosystem utilization and management encompass the sustainable use and management of ecosystems and biodiversity. Research in this area includes studies of local community production activities, material culture, ethnomedicine and traditional phytochemistry, scientific validation of biodiversity values, cognitive ethnobiology, and paleo-ethnobiology. Ethnoecology examines the relationships between humans—particularly local and indigenous communities—and their natural environments, including how they understand, utilize, and manage ecosystems based on traditional knowledge. It encompasses the reciprocal relationships between ecosystems and human cultures, addressing traditional knowledge systems, resource management practices, cultural values, classification systems, and community adaptation to environmental conditions.

SQ : EDEX & ECDIS

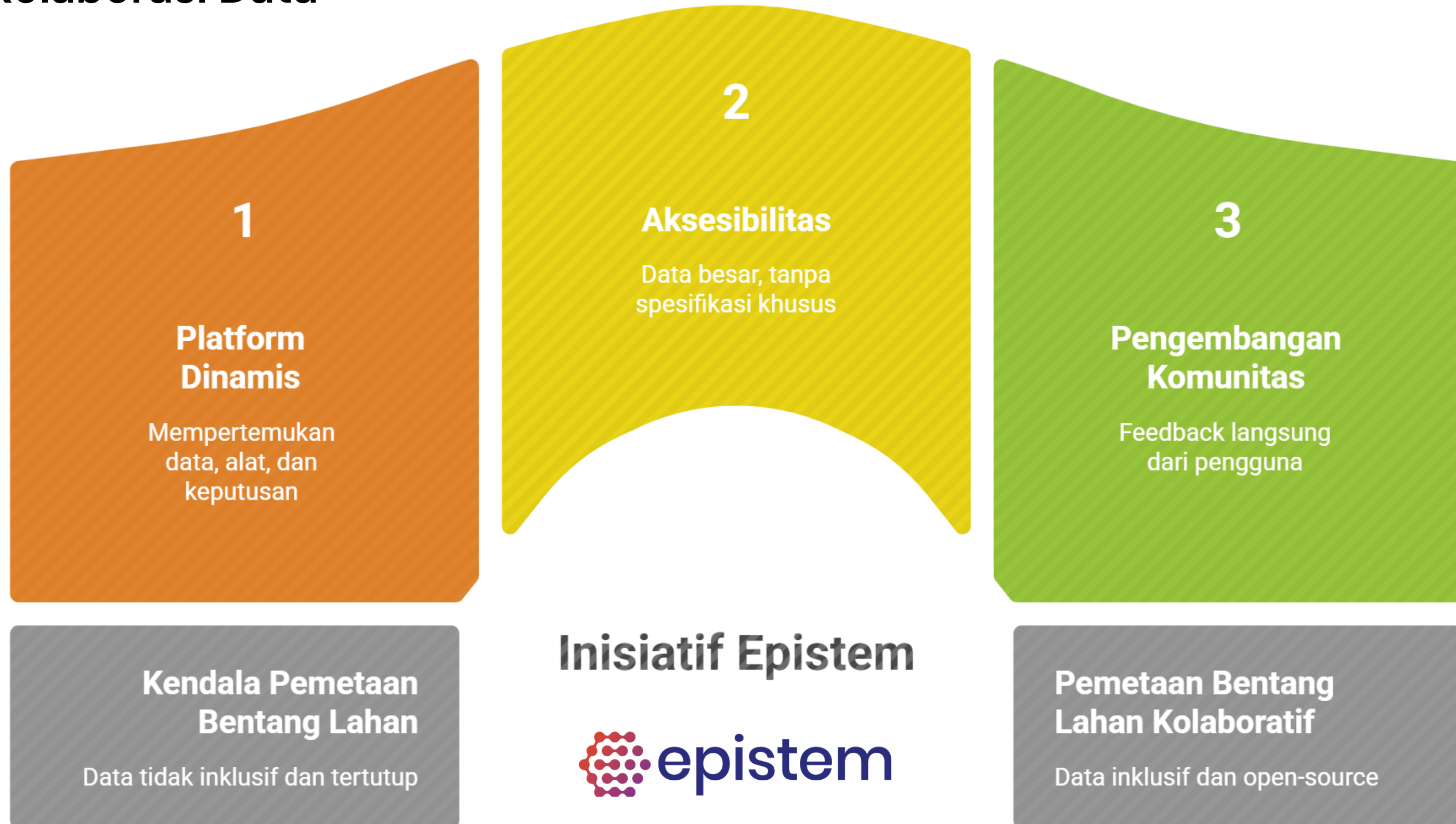
More than half of the global Gross Domestic Product (GDP) depends on biodiversity, while over one billion people rely directly on natural ecosystems. Yet nature is currently in poor health: approximately one million species face extinction, essential tropical rainforest ecosystems are transforming from carbon sinks into carbon sources, and numerous wildlife and plant populations are experiencing decline and local extinctions. Ecosystem responses and adaptation describe how ecosystems react and adjust to environmental changes, whether natural or human-induced. This encompasses how ecosystems respond to disturbances, maintain resilience, adapt to environmental shifts, undergo community changes, and adjust their ecological functions across both short- and long-term timeframes.

MENJAWAB TANTANGAN: KEBUTUHAN TEKNOLOGI KOLABORATIF & EPISTEM



MENJAWAB TANTANGAN: KEBUTUHAN TEKNOLOGI KOLABORATIF & EPISTEM

- Urgensi Kolaborasi Data





PENUTUP

Mengapa pemetaan partisipatif penting?

Pemetaan partisipatif adalah kunci untuk tata kelola hutan dan lahan yang transparan. Jika semua pihak memegang dan memahami "peta" yang sama, kolaborasi pelestarian alam akan jauh lebih mudah diwujudkan.

Apa harapan dari lokakarya di NTT?

Berharap lokakarya di NTT ini membuahkkan diskusi yang tajam dan konstruktif, menjadi batu loncatan kesuksesan EPISTEM untuk direplikasi di seluruh Indonesia.



●● **Thank You**
For Your Attention

