



Climate stress and ecosystem resilience

Forests · Watersheds · Cities

Remote sensing · Time-series analysis · Process modelling

2013–2018 · Bachelor's
Shandong Jianzhu University

2018–2025 · PhD (Engineering)
Beijing Forestry University

2025–present · Postdoctoral researcher
Tsinghua University

2 Grants as principal investigator

NSFC Young Scientists Fund–Type C
China Postdoctoral Science Foundation · General Program

5 First-author papers

5 invention patents · Co-inventor
12 publications in total

15 Research projects

National + commissioned Contributor; coordinated 31-member student team

17 Awards and honours

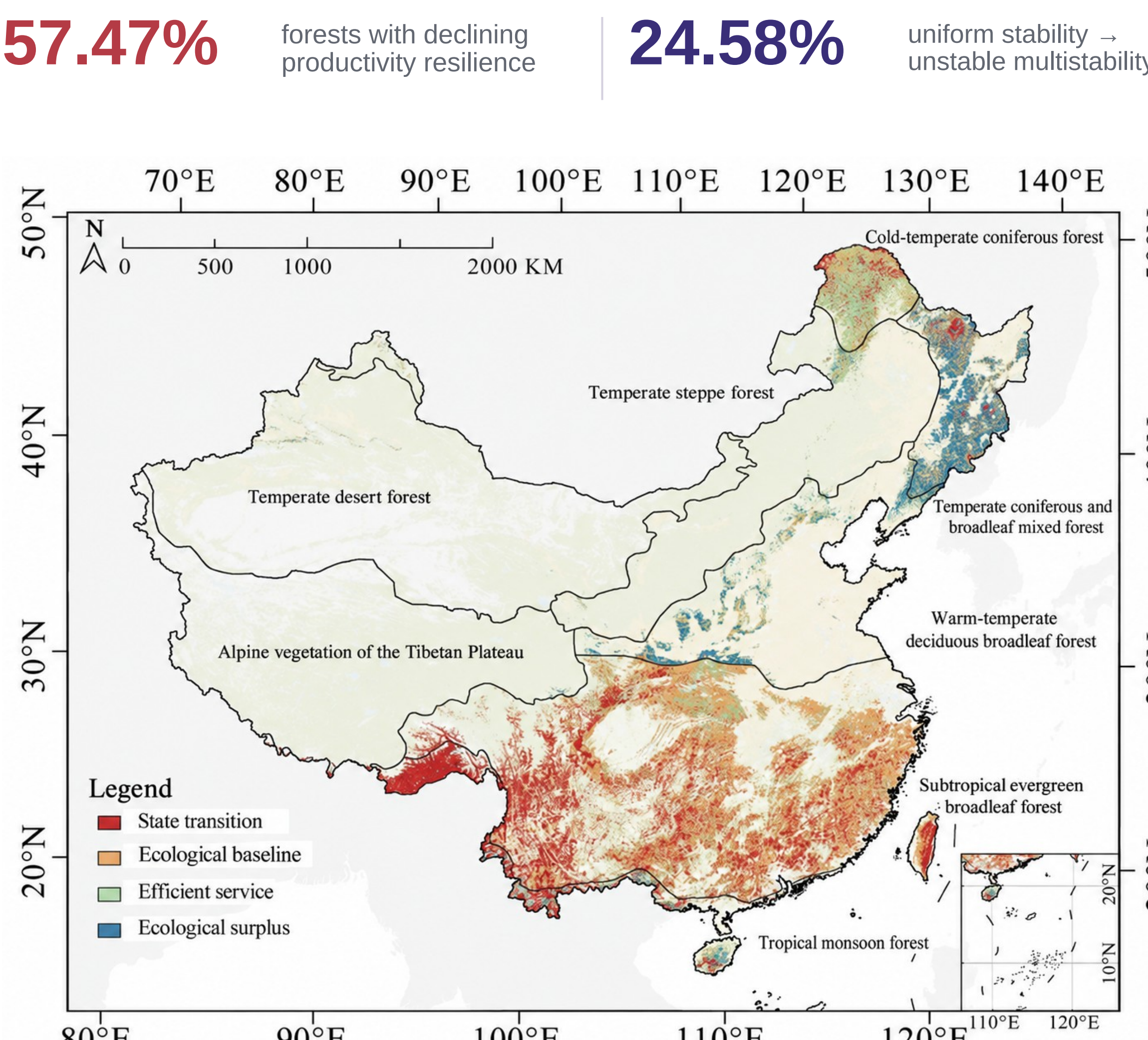
Excellent Doctoral Dissertation, Beijing Forestry University · 2025
First Prize, Huaxia Construction Science and Technology Award · 2024
Second Prize, Excellent Paper Award, Chinese Society of Landscape Architecture · 2024
Second Place, International Federation of Landscape Architects Student Competition · 2024

01 Hydroclimatic stress and ecosystem stability

Forest resistance, recovery and legacy · Soil-moisture organisation and instability risk

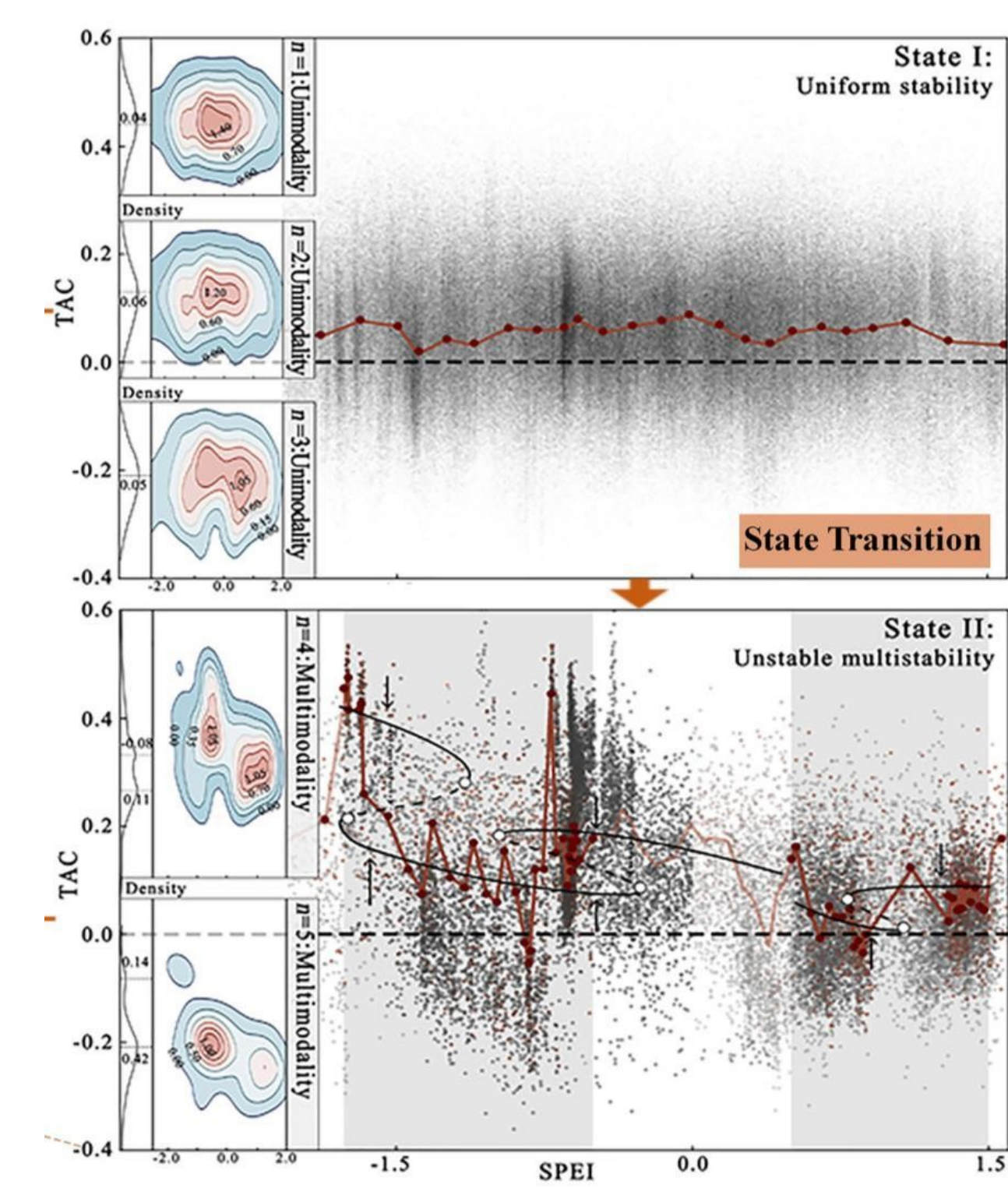
Forest resilience under climate stress

China's forests · Spatial patterns and state changes

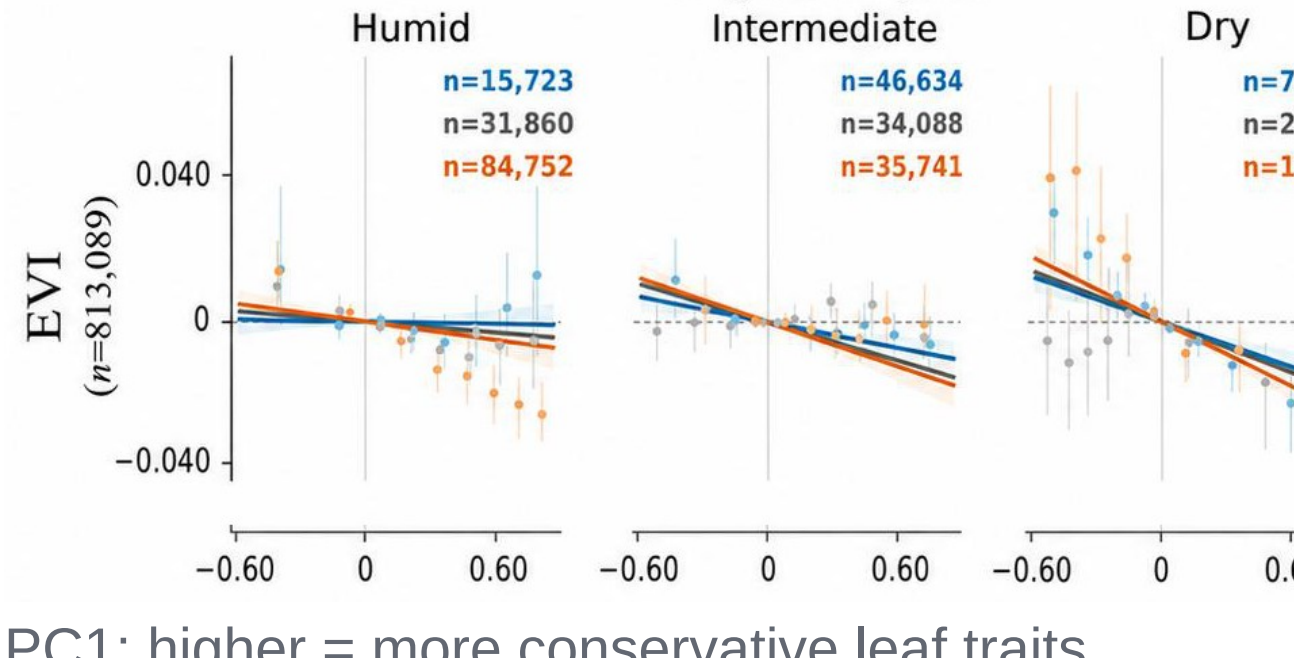


Resilience–service zoning

Resilience-state transitions

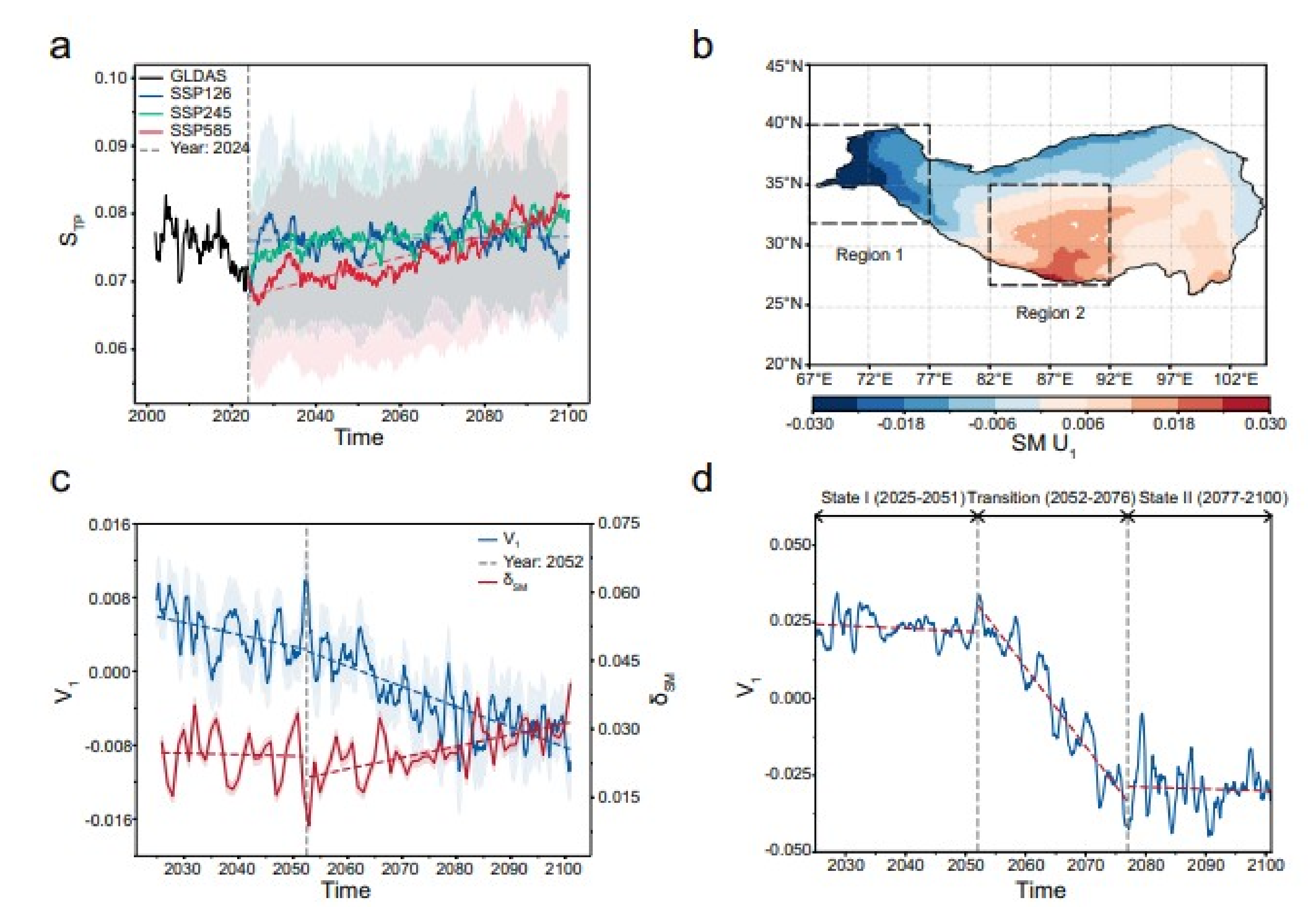


Functional traits and climate



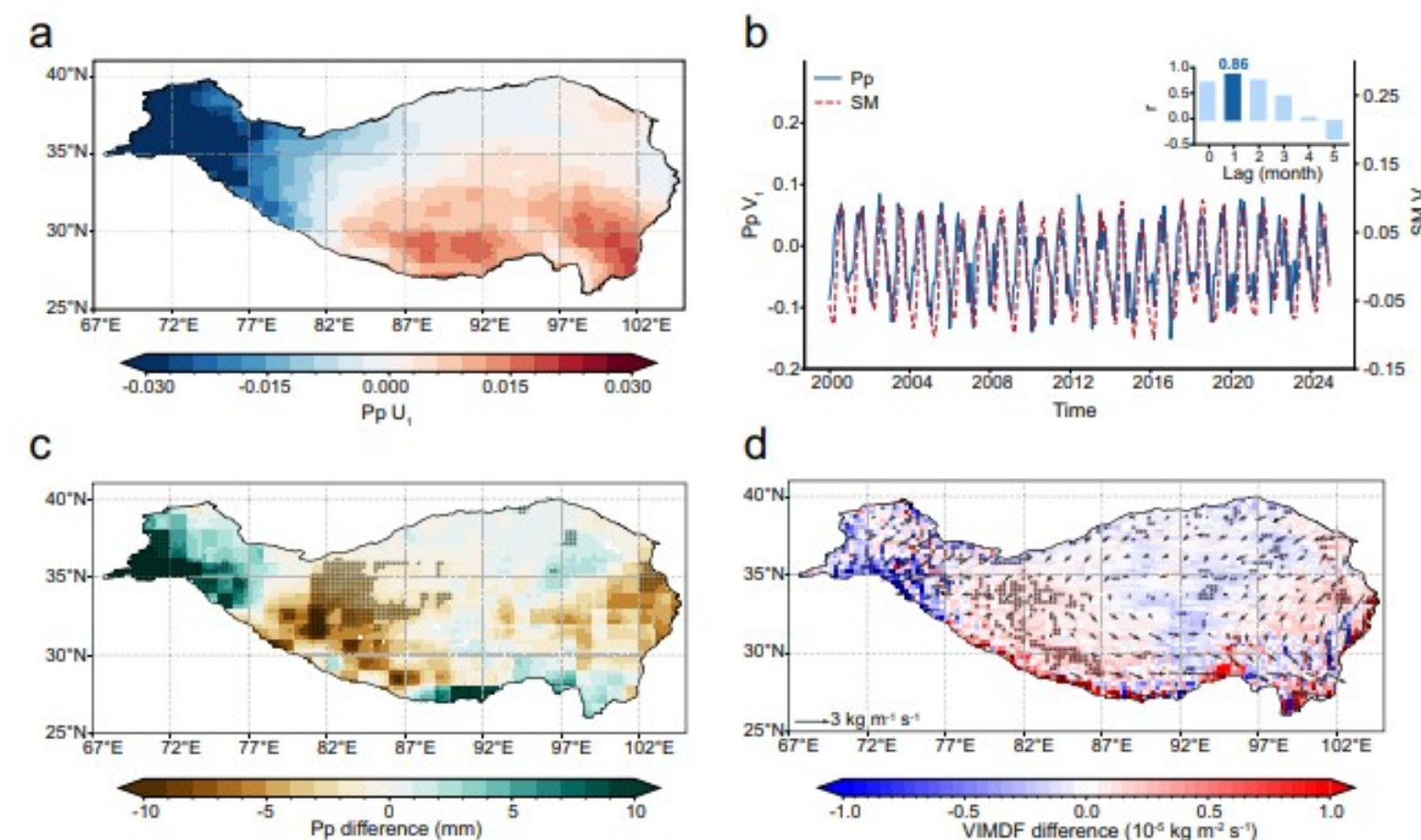
Soil moisture in the Asian Water Tower

Nature Communications (2026) · Co-author



Historical decline, projected increase in entropy

2000–2024: regional wetting accompanied lower entropy.
2025–2100: all three scenarios project rising entropy.

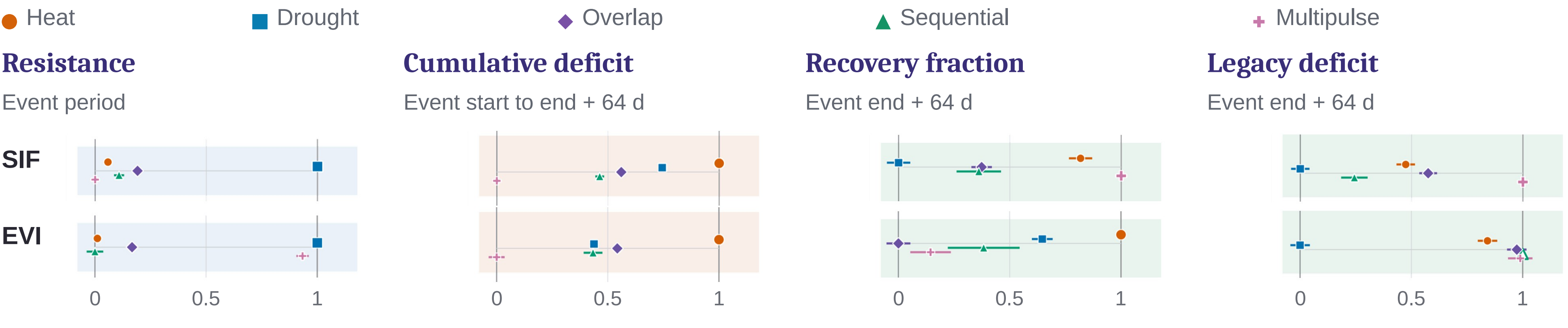


Precipitation–soil moisture coupling

Historical spatial patterns and seasonal co-variation.

Upper panels:
12 CMIP6 models · 3 scenarios
Shading: standard errors.

Event rankings vary across response metrics

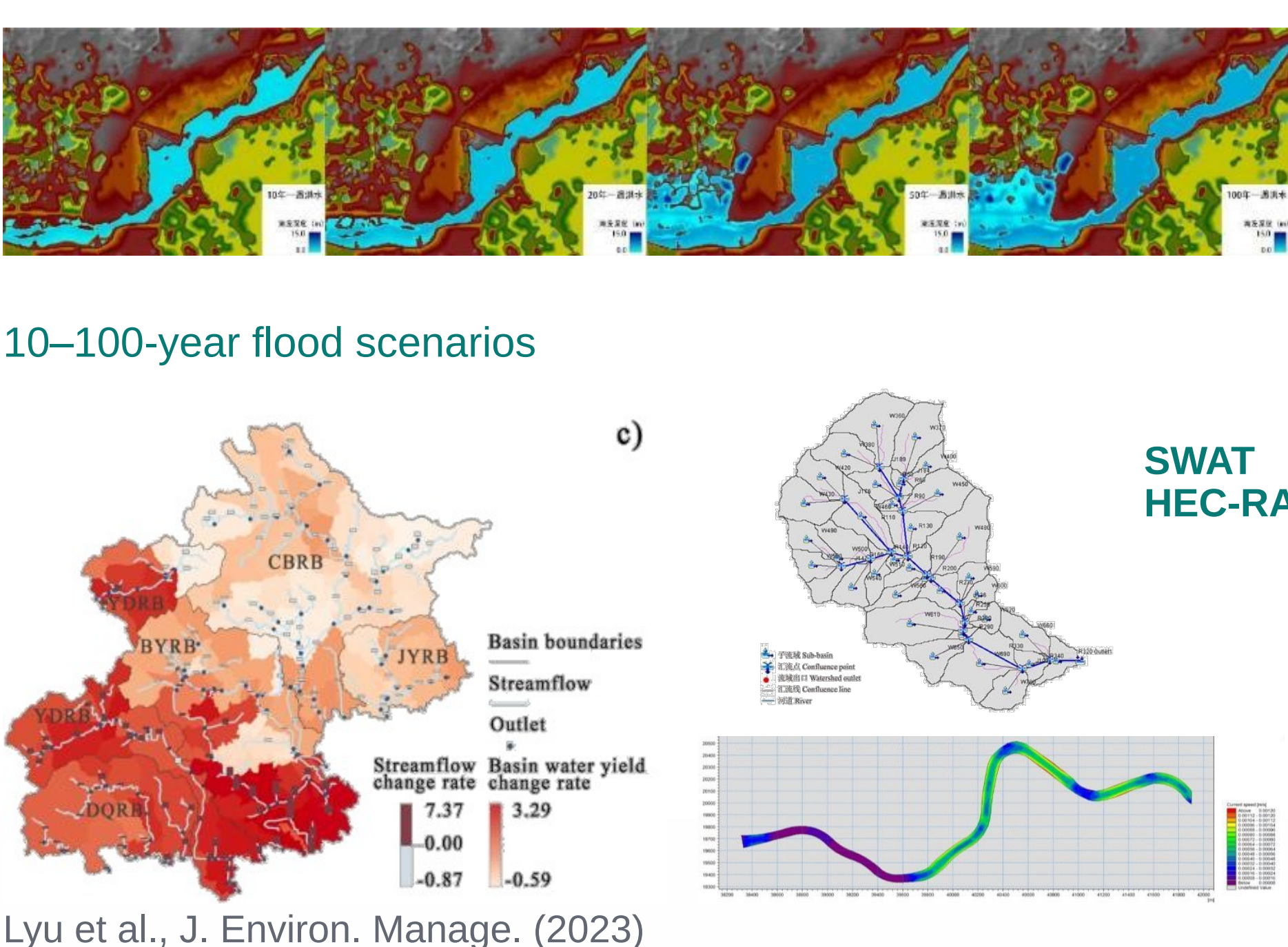


OLS-adjusted ranks within each metric and product: 0 least → 1 most adverse.
SIF: solar-induced fluorescence; EVI: enhanced vegetation index.

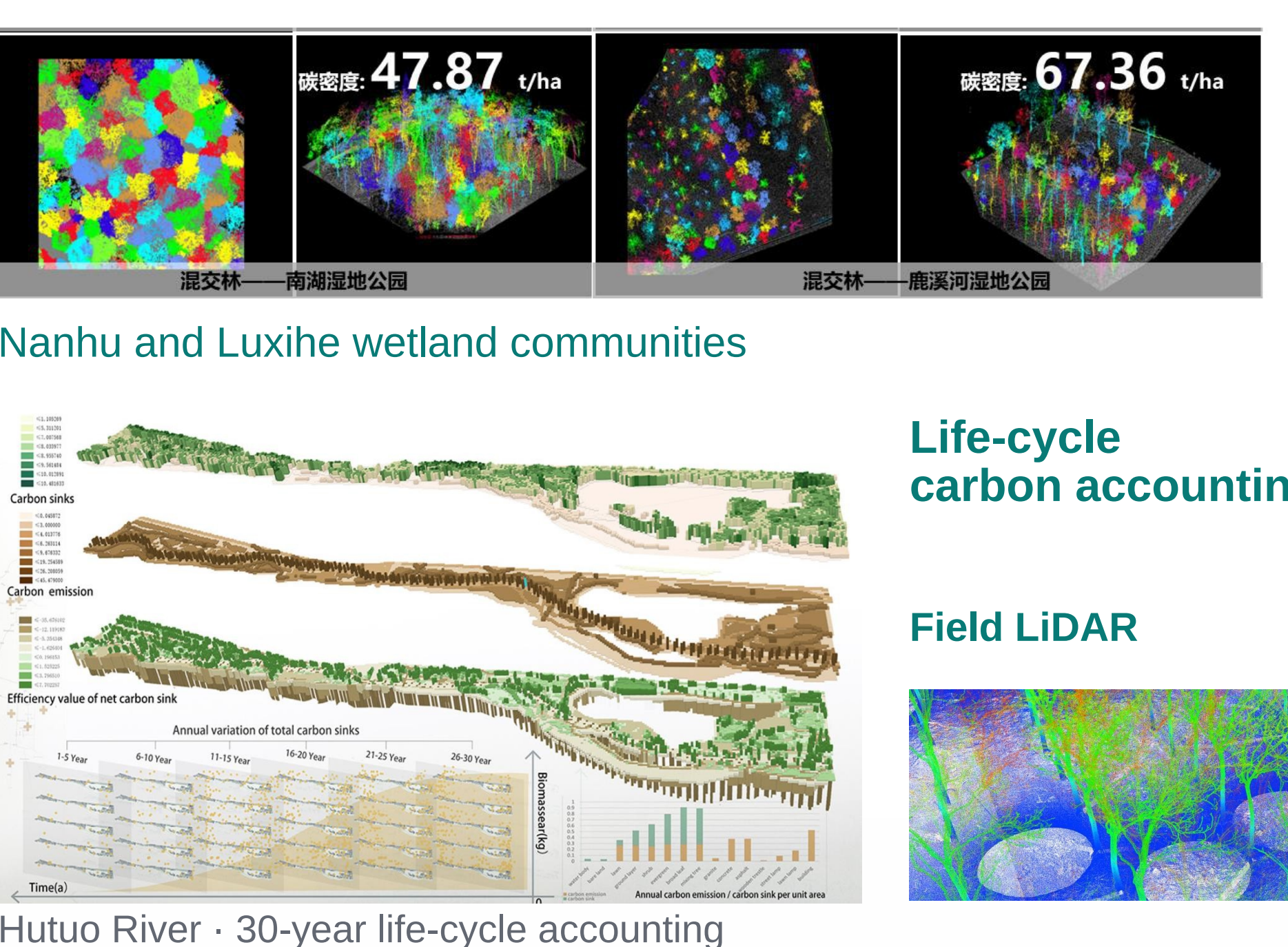
02 Carbon–water assessment

Hydrological modelling · LiDAR · Life-cycle accounting

Streamflow and flood scenarios



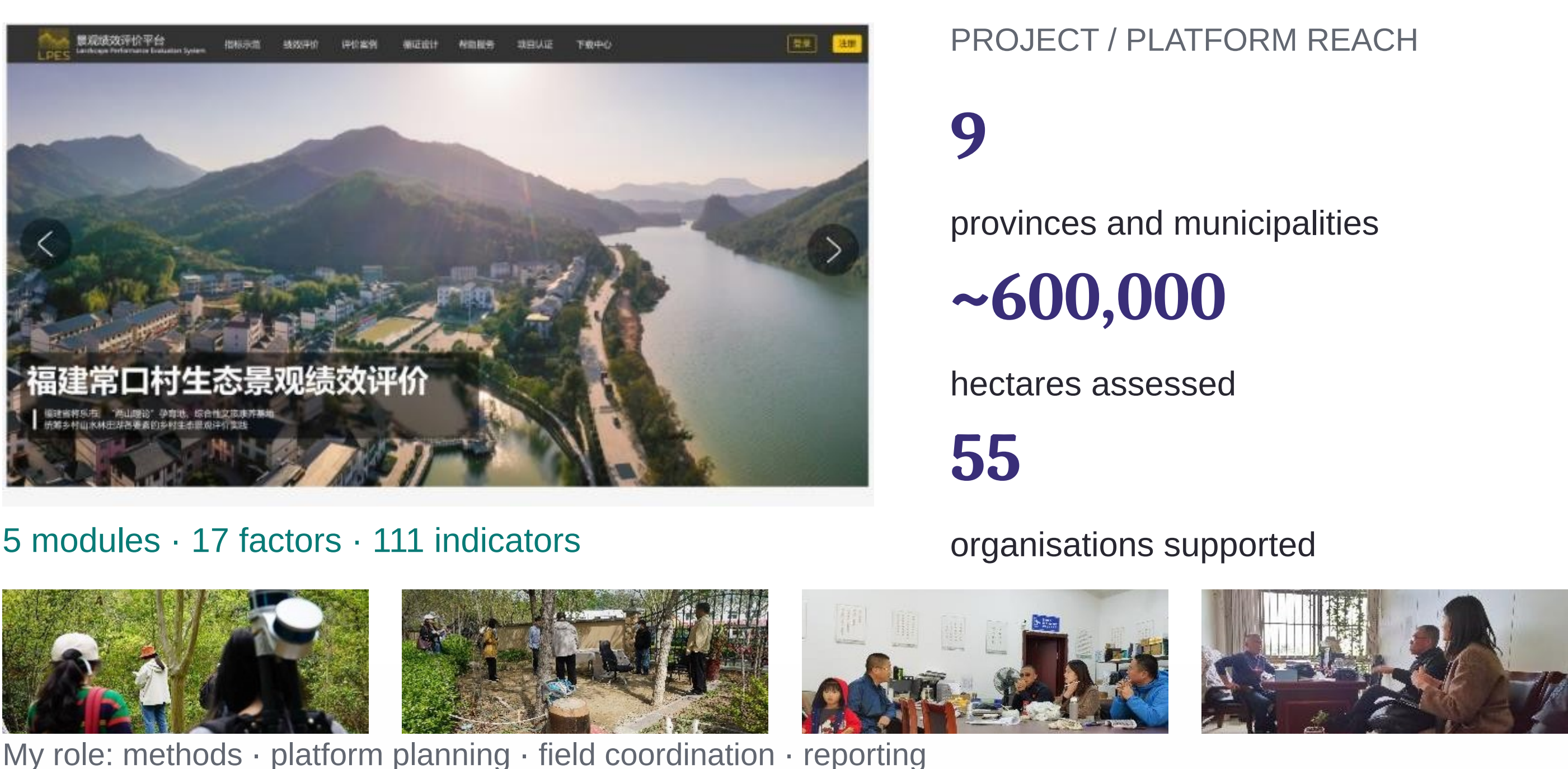
Vegetation structure and carbon



03 Ecological planning

Decision support · Public-sector collaboration

Landscape performance evaluation



Organizers

