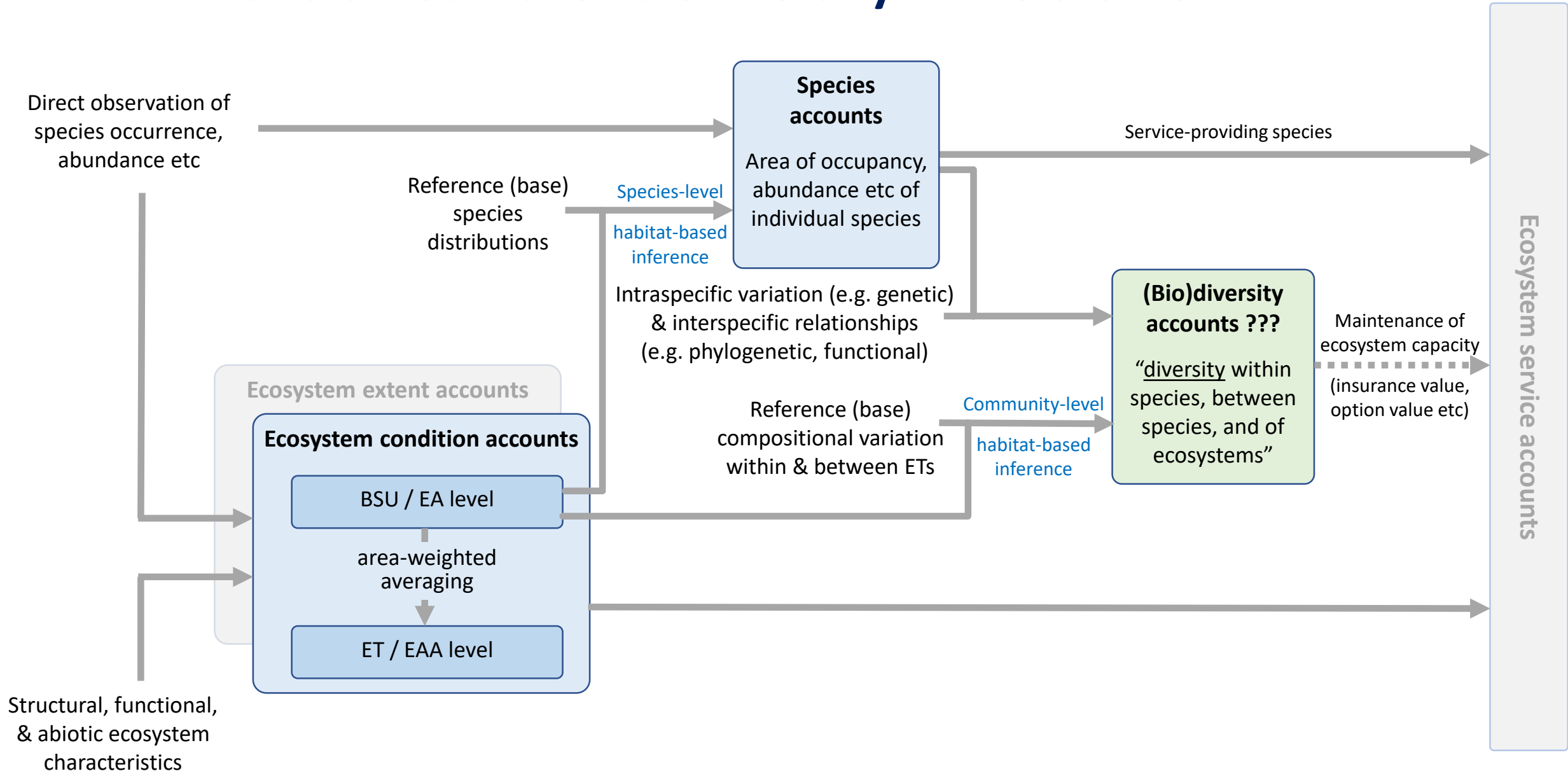
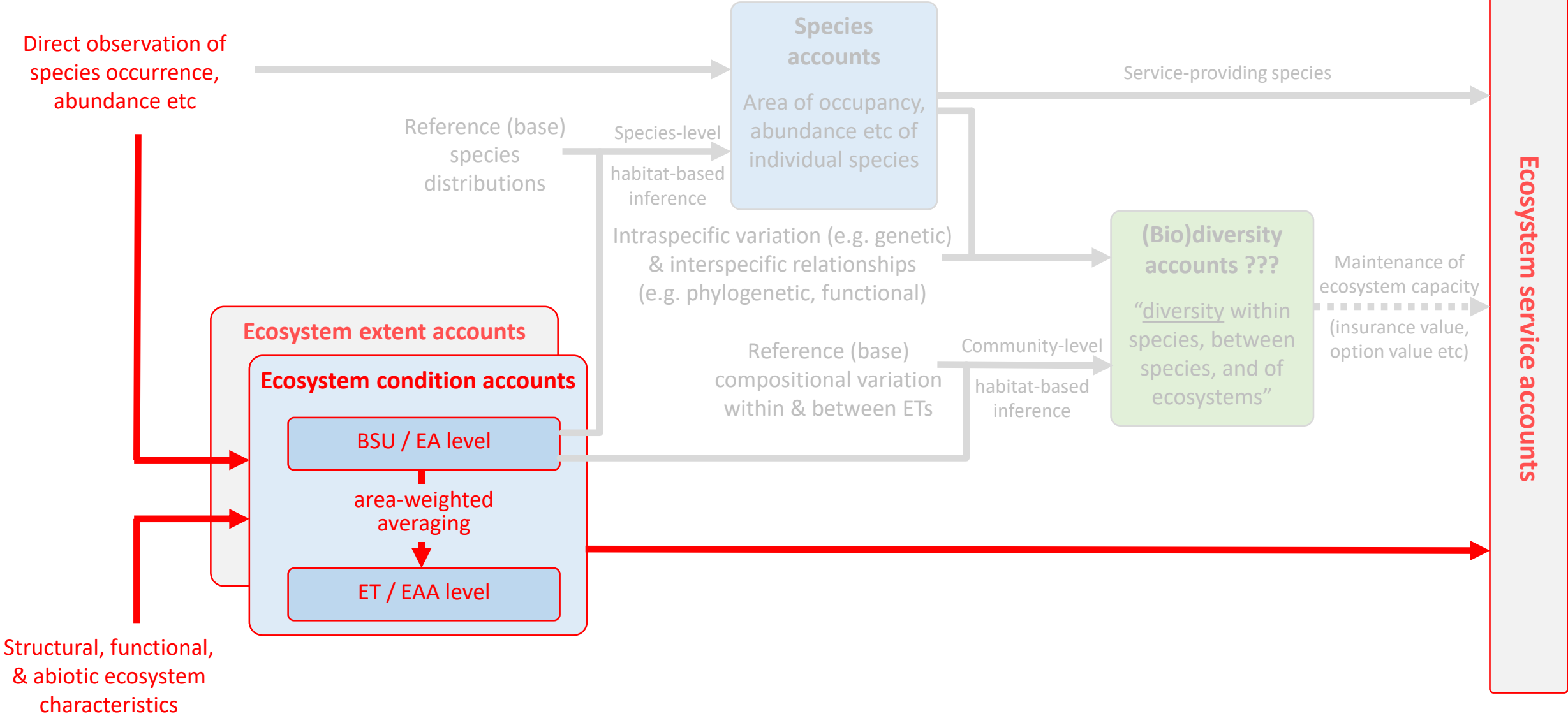


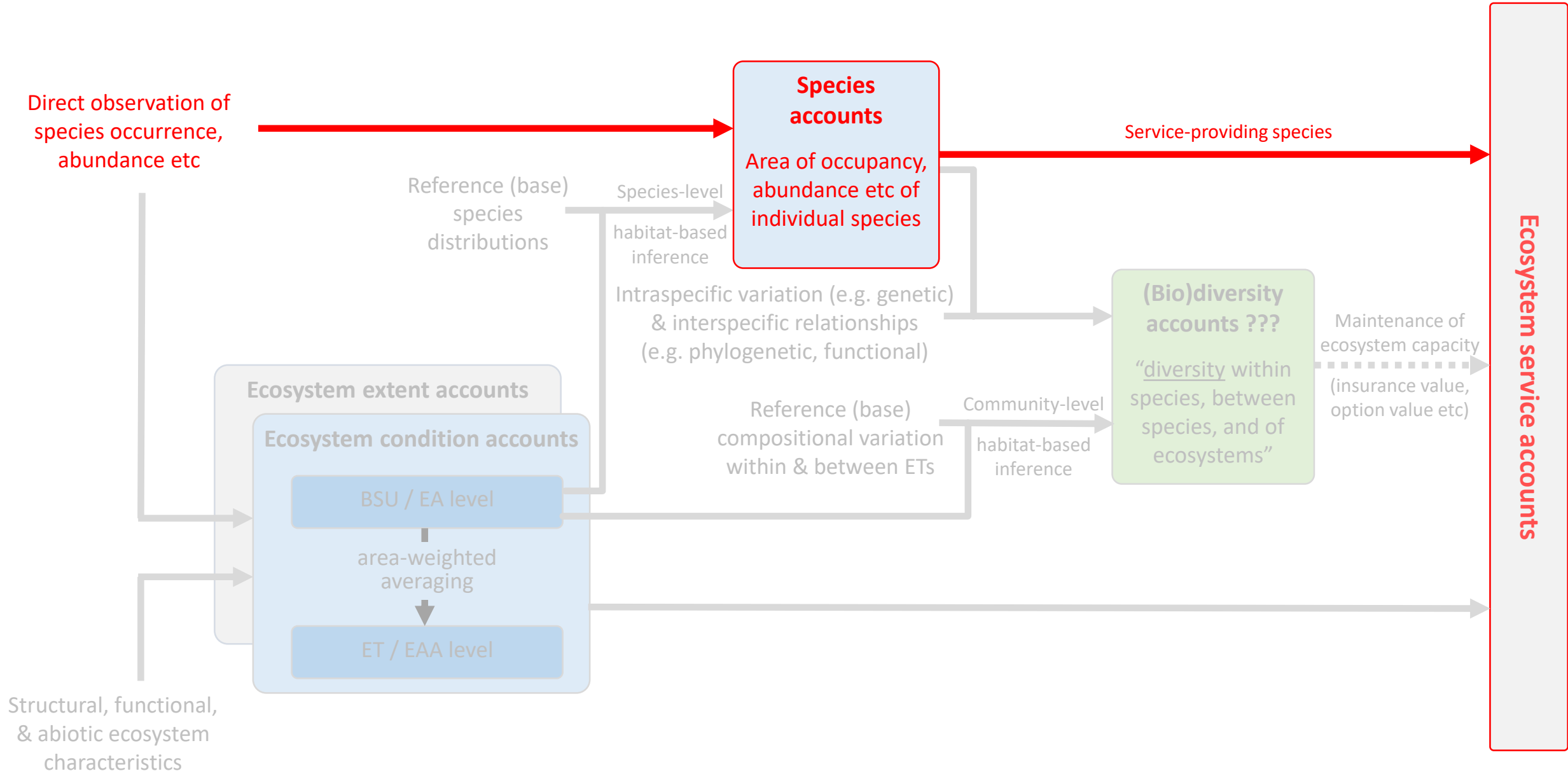
Simon Ferrier (CSIRO): Reflections on the introductory presentation and accounts for biodiversity in the draft SEEA EA



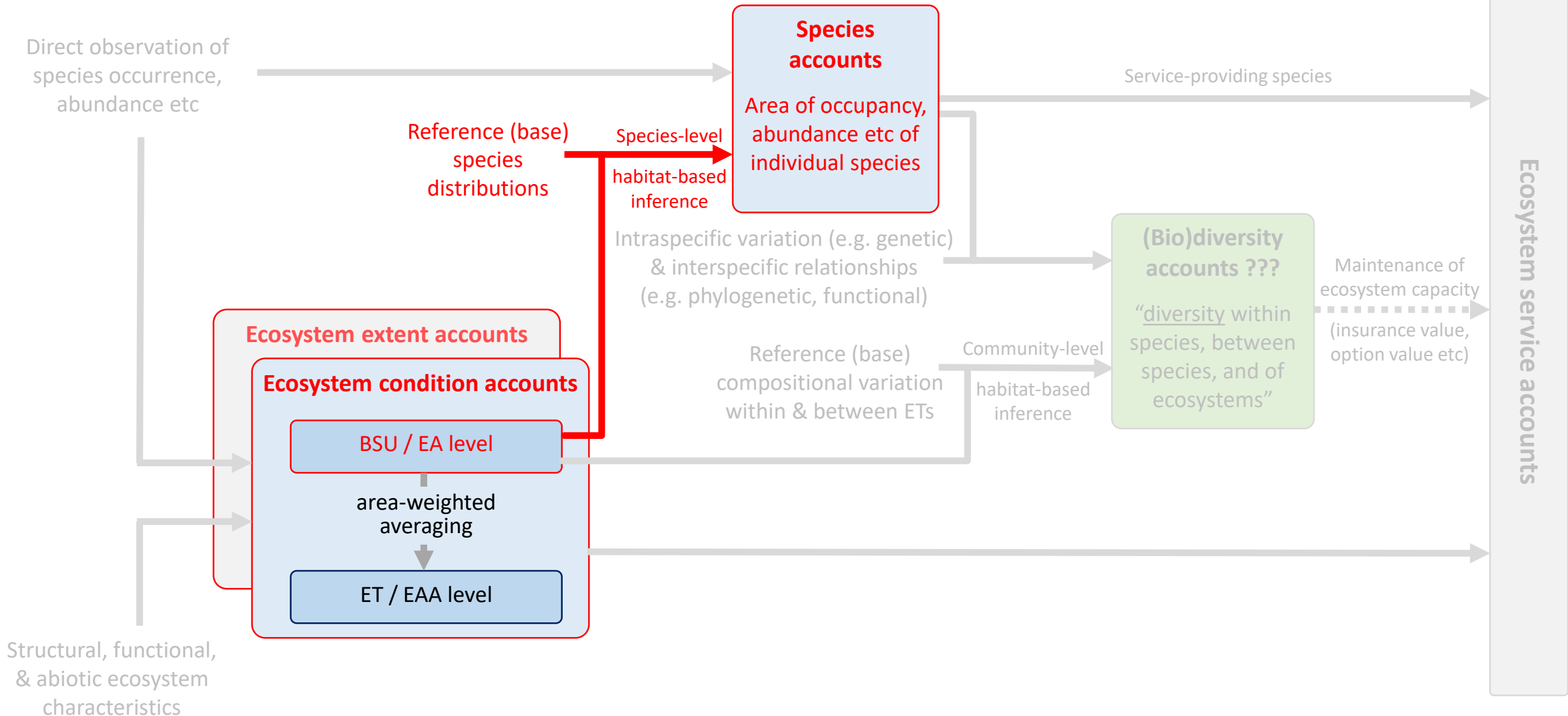
Assessment of Ecosystem Condition at Ecosystem Asset (EA) level can be informed by direct observation of local species occurrence, abundance, or richness (alpha diversity)



Direct observation of species can also be used to generate Species Accounts for individual species of interest, including service-providing species

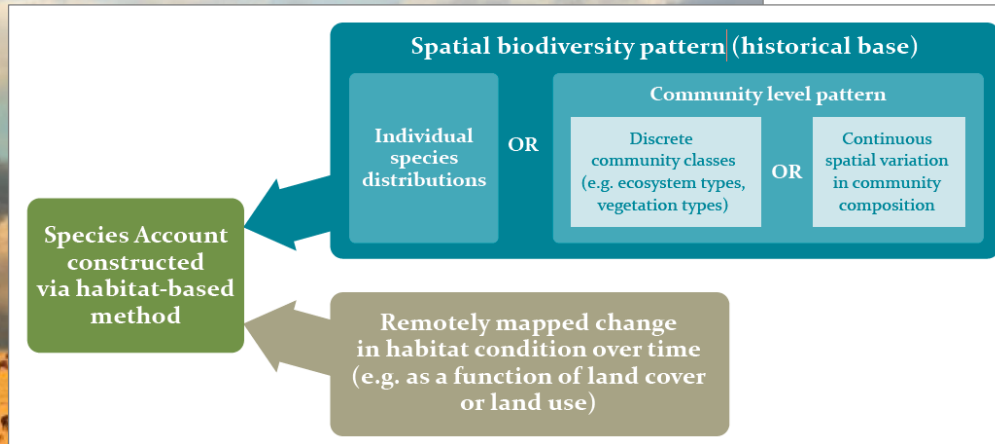


Species Accounts can alternatively be populated through habitat-based inference, by intersecting reference (base) species distributions with observed change in ecosystem extent and condition



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EXPLORING APPROACHES FOR CONSTRUCTING SPECIES ACCOUNTS IN THE CONTEXT OF THE SEEA-EEA

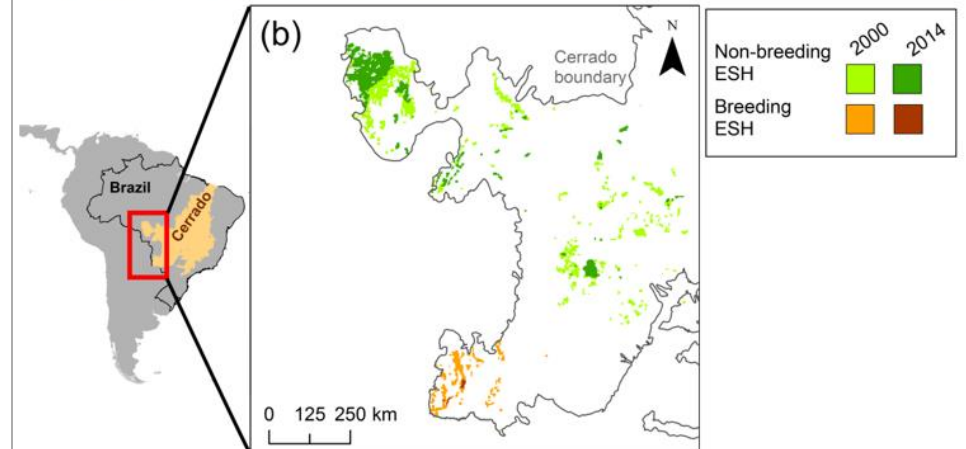
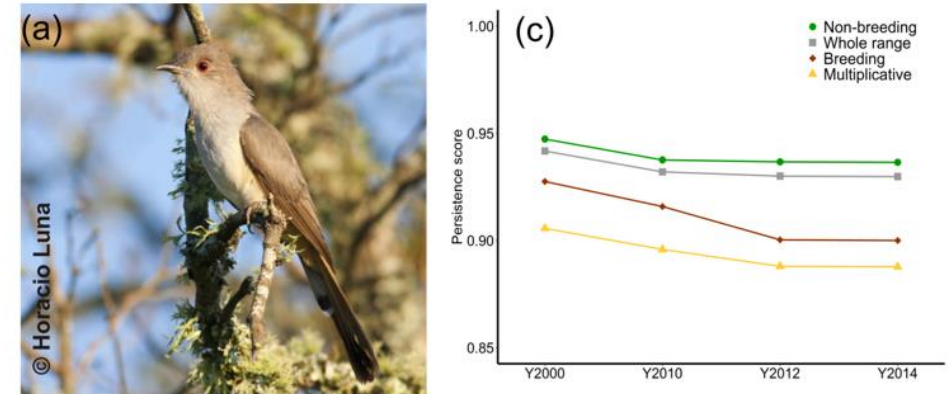


RESEARCH ARTICLE

Methods in Ecology and Evolution
BRITISH ECOLOGICAL SOCIETY

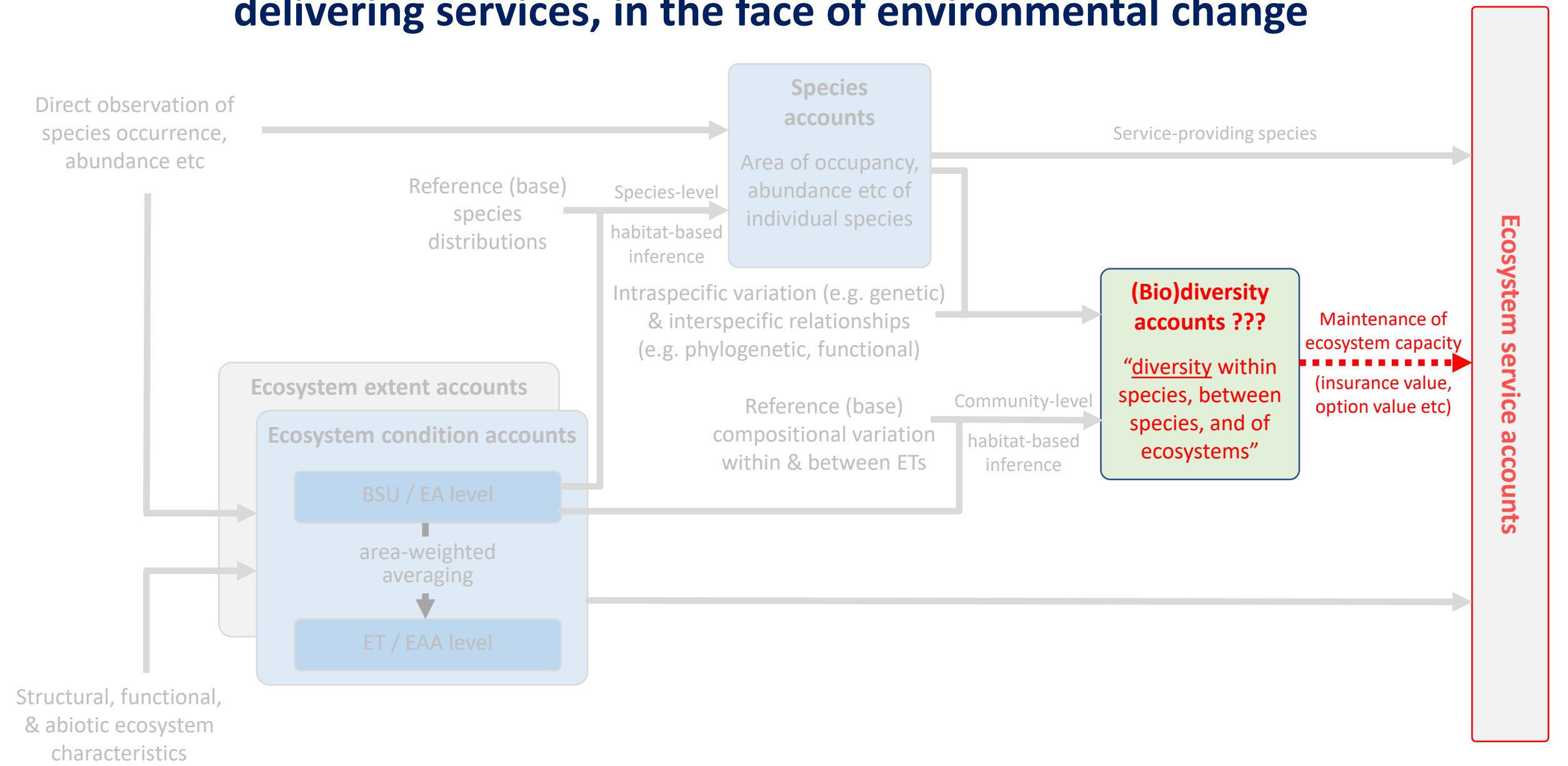
A practical approach to measuring the biodiversity impacts of land conversion

América P. Durán^{1,2,3,4} | Jonathan M. H. Green^{3,5} | Christopher D. West⁵ | Piero Visconti⁶ | Neil D. Burgess^{1,2,7} | Malika Virah-Sawmy⁸ | Andrew Balmford¹

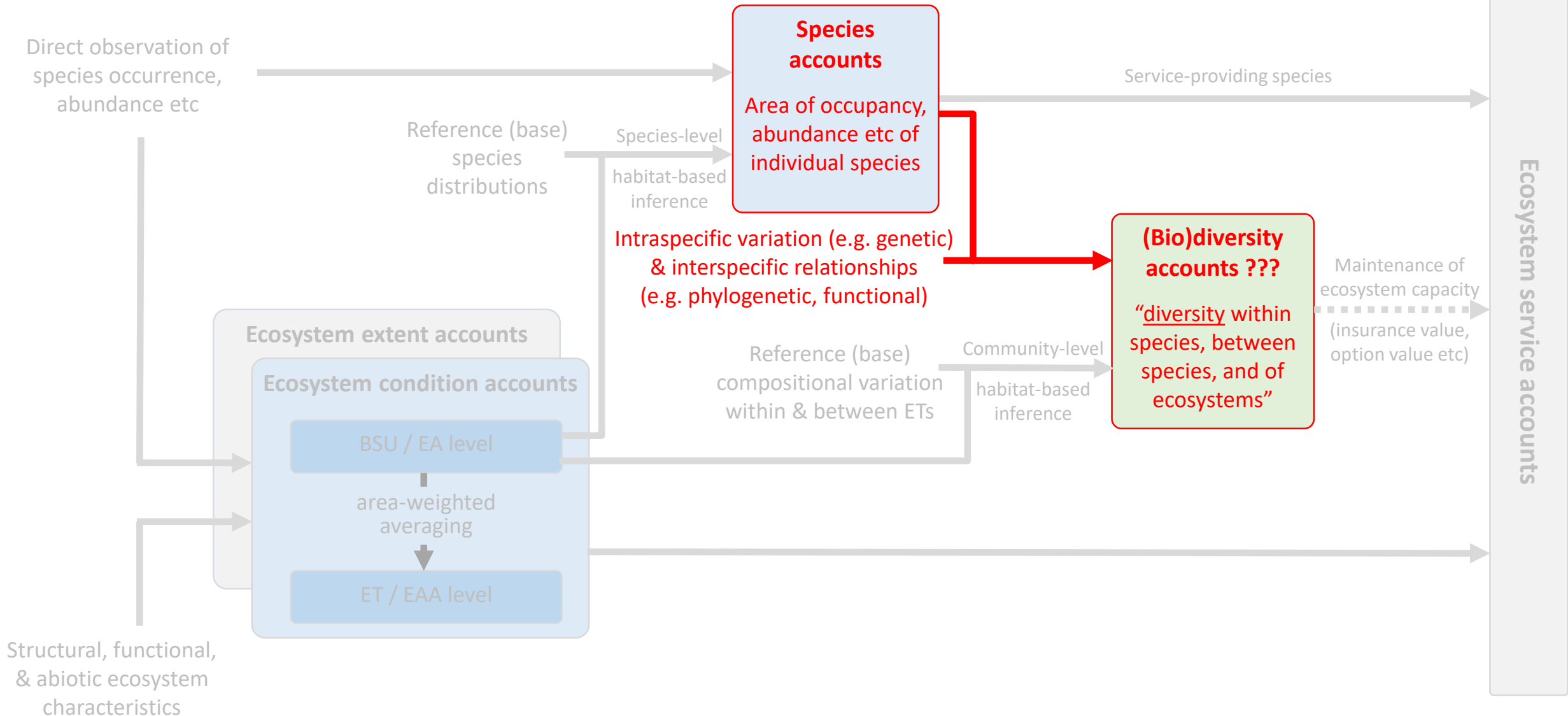


But what about accounting for change in diversity itself (as per CBD definition)?

- vital to maintaining the capacity of ecosystems to continue functioning, and delivering services, in the face of environmental change



Two complementary pathways for generating ‘diversity accounts’ – the first through aggregation of Species Accounts, ideally also accounting for diversity (e.g. genetic/phylogenetic, functional) within and between species ...



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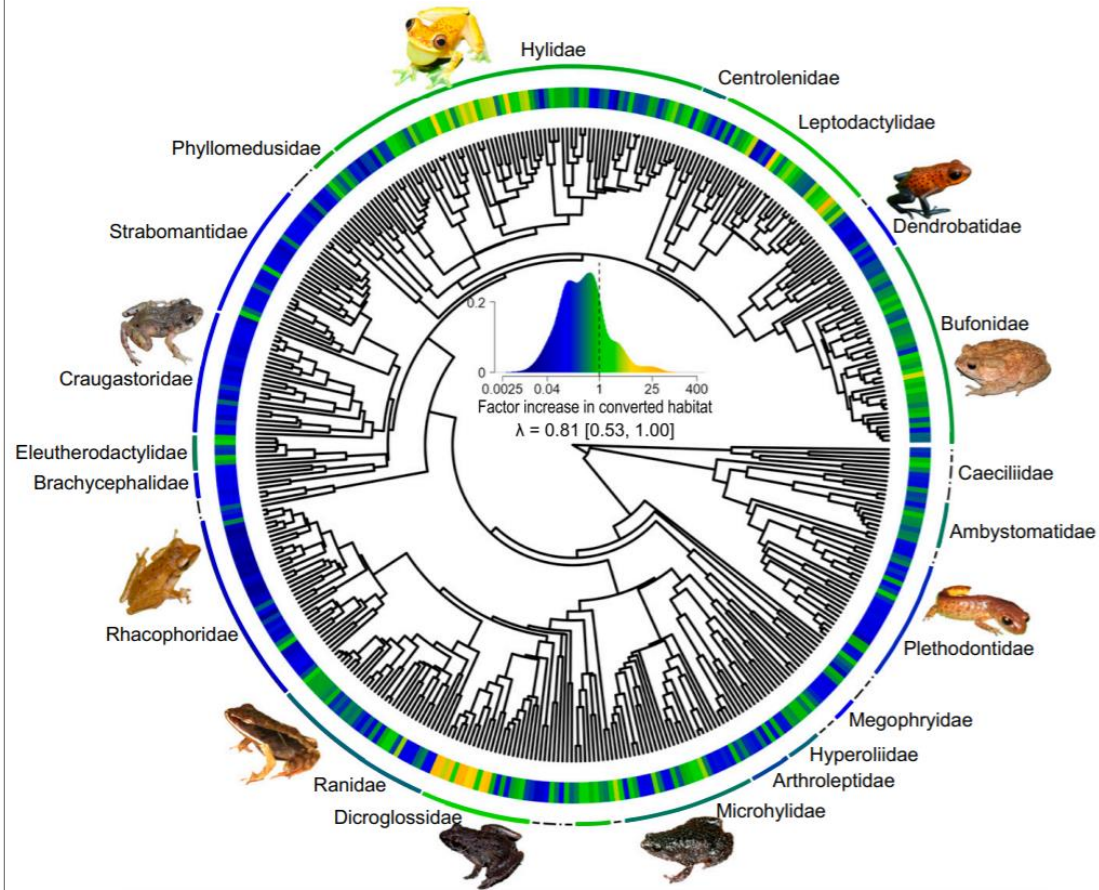
PNAS

Phylogenetic homogenization of amphibian assemblages in human-altered habitats across the globe

A. Justin Nowakowski^{a,1,2}, Luke O. Frishkoff^{b,1,2}, Michelle E. Thompson^c, Tatiana M. Smith^a, and Brian D. Todd^a

^aDepartment of Wildlife, Fish, and Conservation Biology, University of California, Davis, CA 95616; ^bDepartment of Ecology and Evolutionary Biology, University of Toronto, Toronto, ON M5S 3B2, Canada; and ^cDepartment of Biological Sciences, Florida International University, Miami, FL 33199

Edited by David B. Wake, University of California, Berkeley, CA, and approved February 16, 2018 (received for review August 22, 2017)



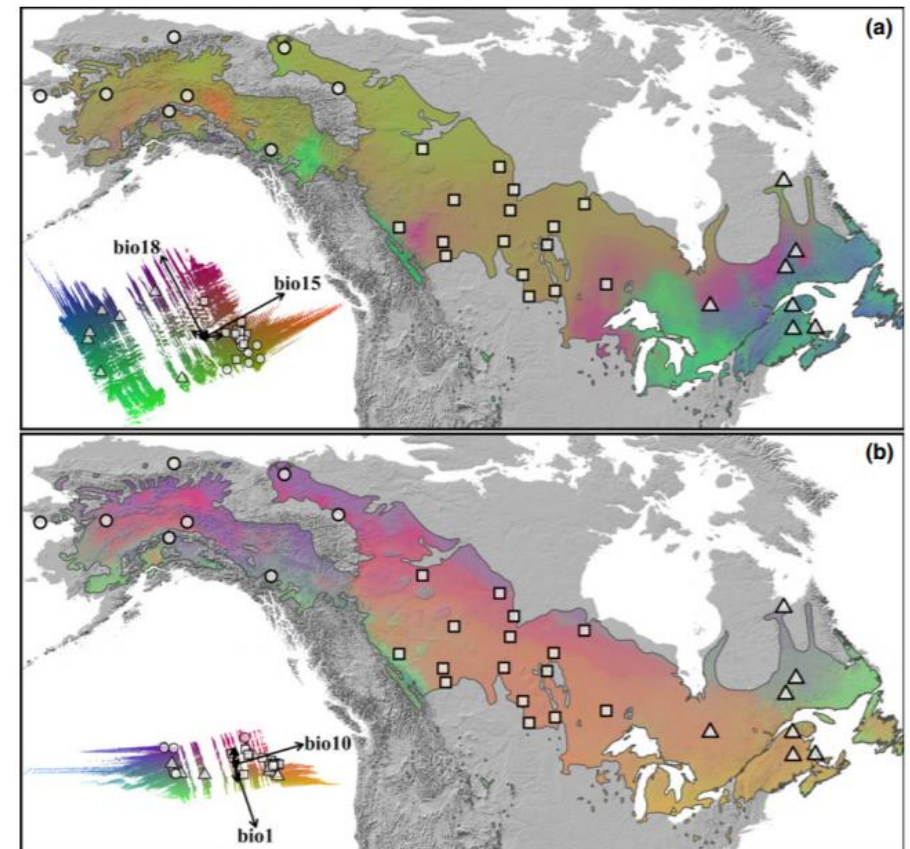
ECOLOGY LETTERS

Ecology Letters, (2014)

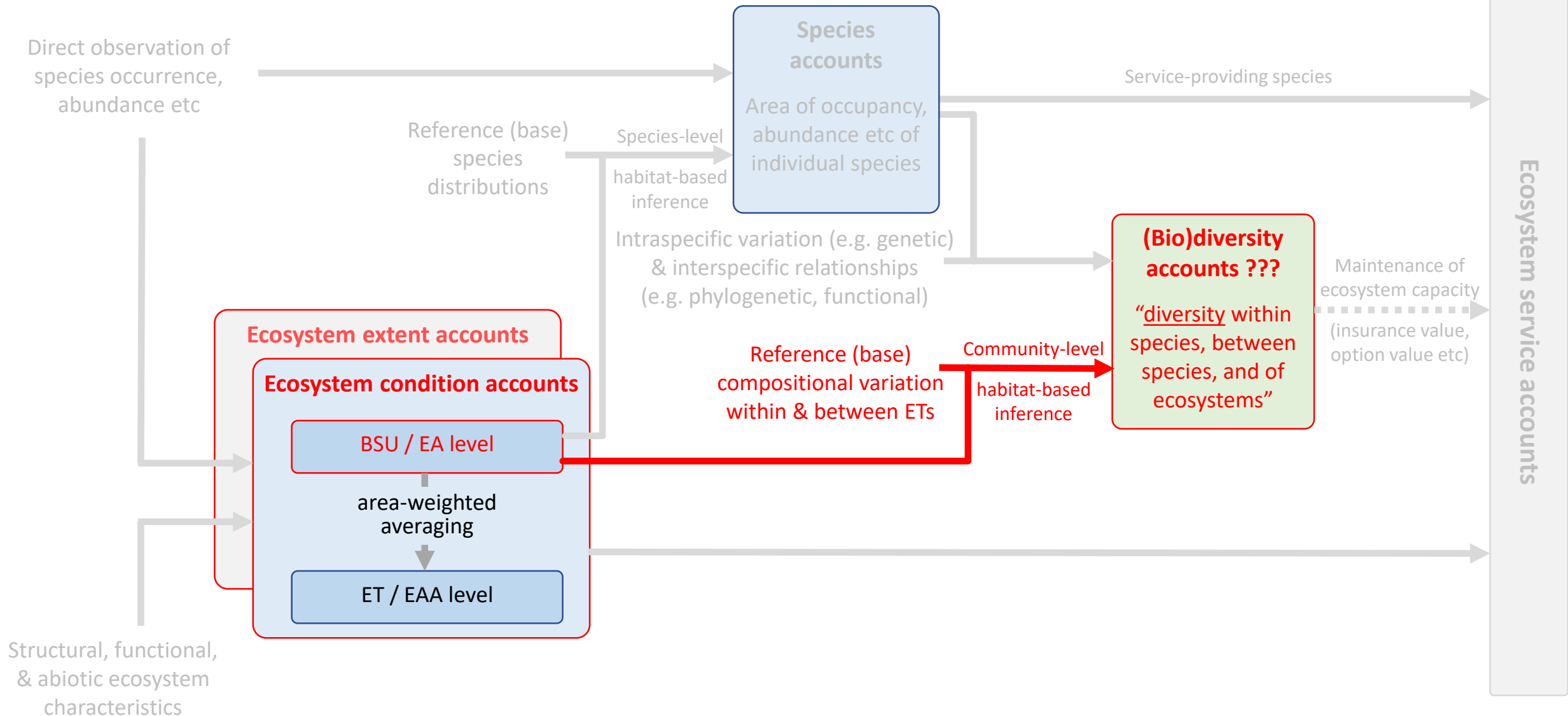
doi: 10.1111/ele.12376

IDEA AND PERSPECTIVE

Ecological genomics meets community-level modelling of biodiversity: mapping the genomic landscape of current and future environmental adaptation

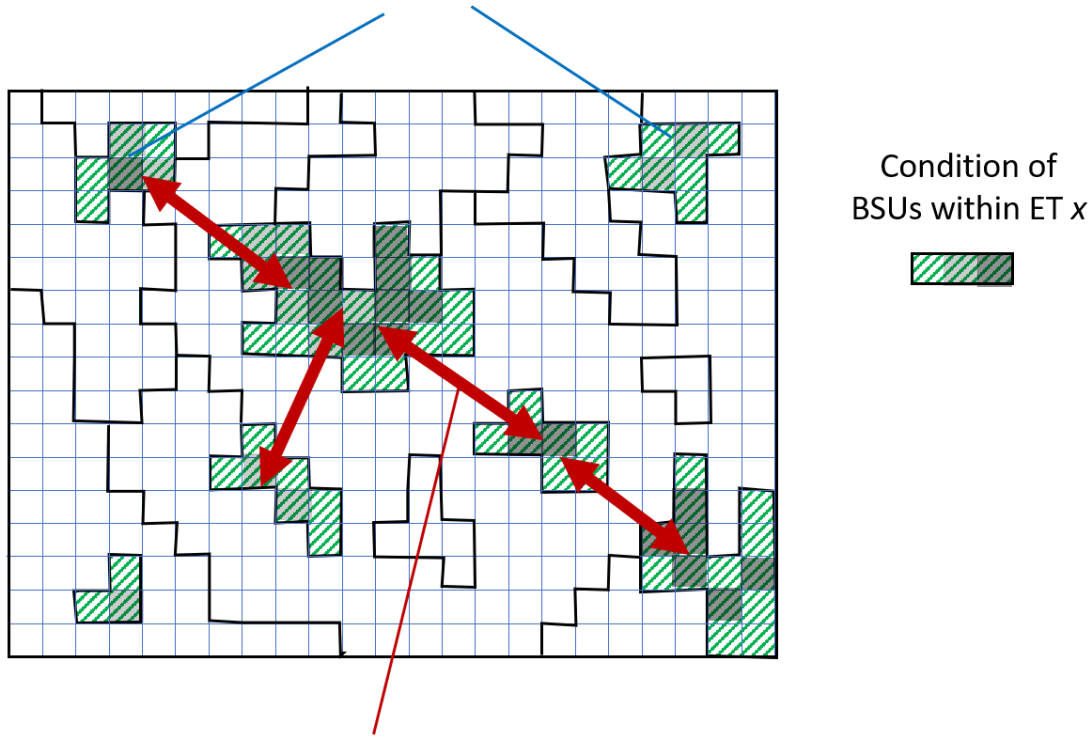


... and the second through aggregation of Ecosystem Condition estimates for all EAs across an EAA, while also accounting for compositional variation (beta diversity) within and between ETs, and habitat connectedness

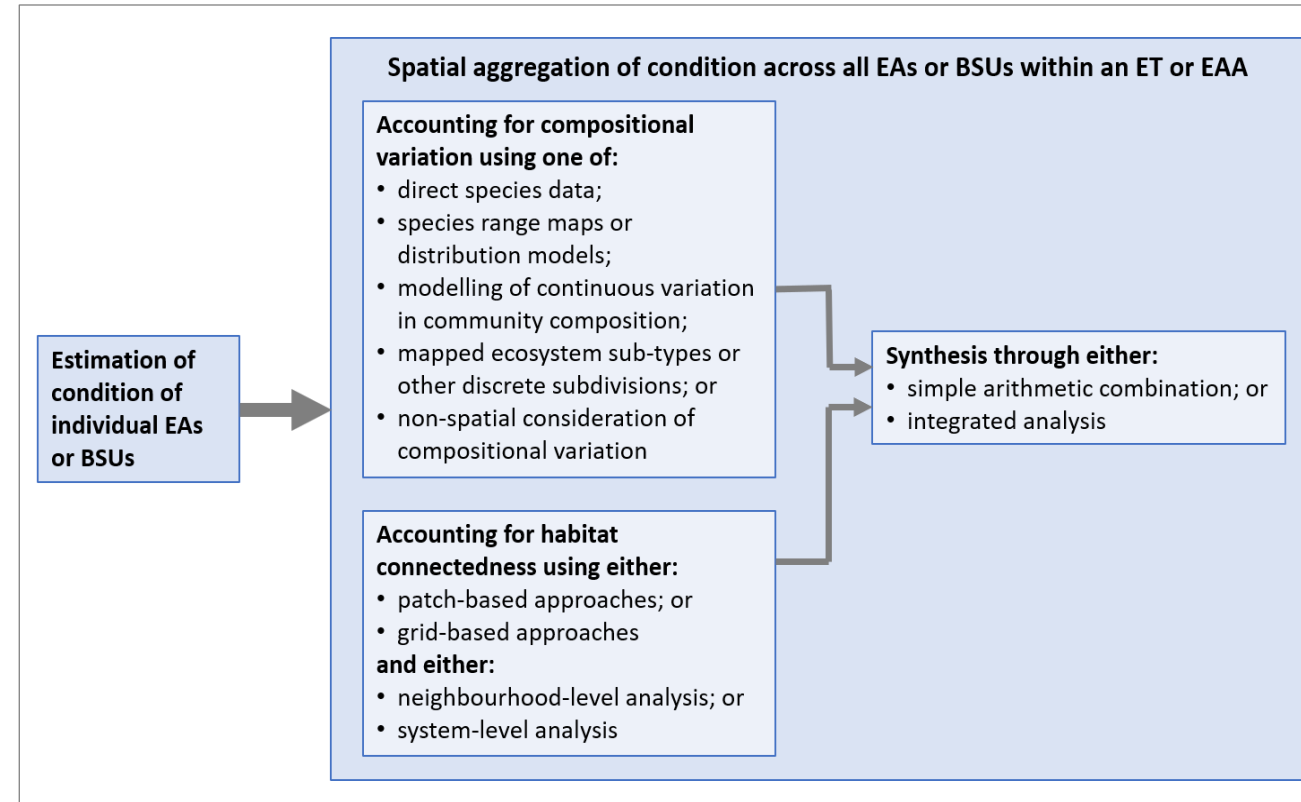


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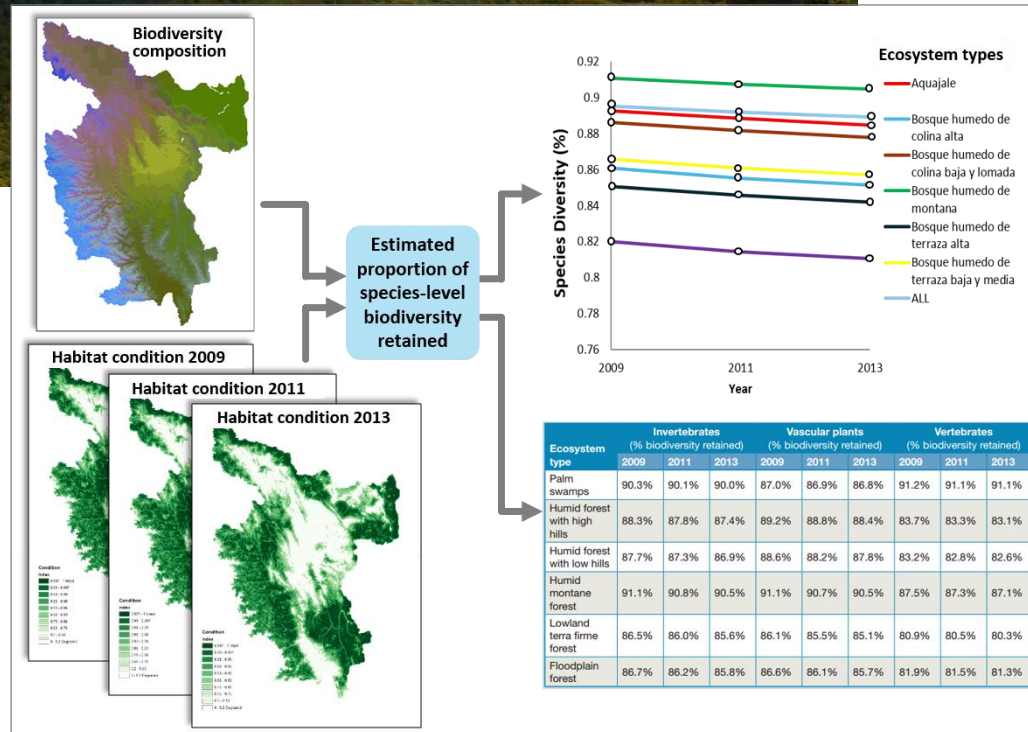
Compositional variation (beta diversity) – EAs in different parts of the geographical and/or environmental range of a given ET often differ in the assemblages of species they support



Spatial connectedness of EAs within, and between, ETs can affect population and metapopulation processes, and therefore species persistence



... and the second through aggregation of Ecosystem Condition estimates for all EAs across an EAA, while also accounting for compositional variation (beta diversity) within and between ETs, and habitat connectedness

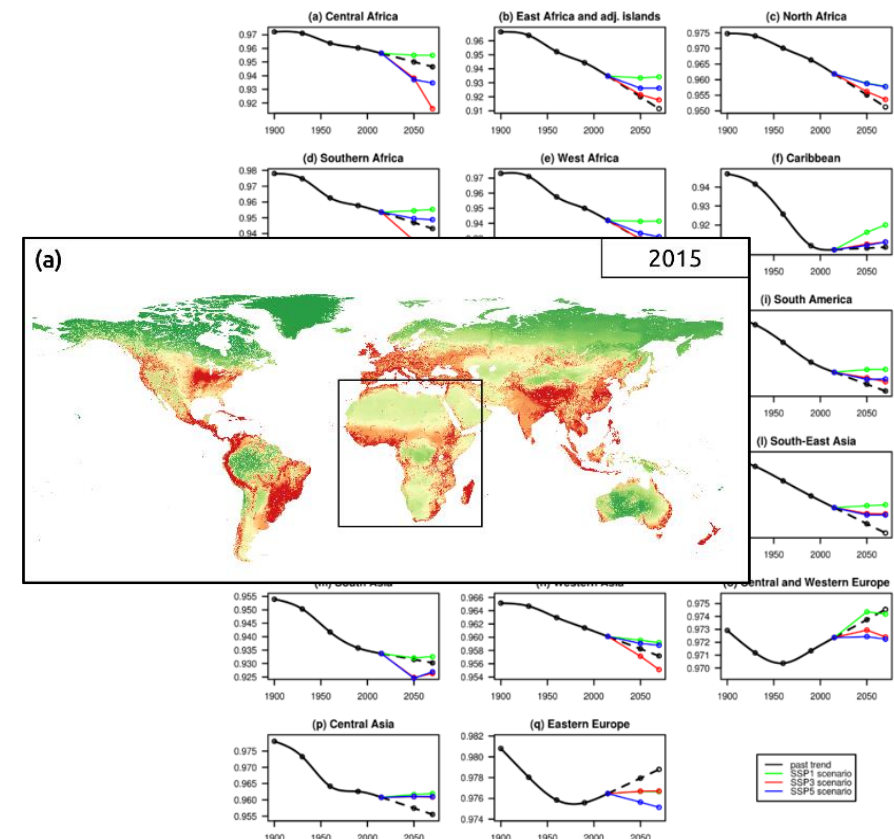


Global Change Biology

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Projecting impacts of global climate and land-use scenarios on plant biodiversity using compositional-turnover modelling

Moreno Di Marco, Tom D. Harwood, Andrew J. Hoskins, Chris Ware, Samantha L.L. Hill, Simon Ferrier



In combination, these two pathways of habitat-based inference offer a powerful means of linking the “ecosystem area, connectivity & integrity” and “species/genetic diversity” elements of Goal A in the CBD’s post-2020 GBF

