URBAN BIODIVERSITY ANI ECOSYSTEM SERVICES

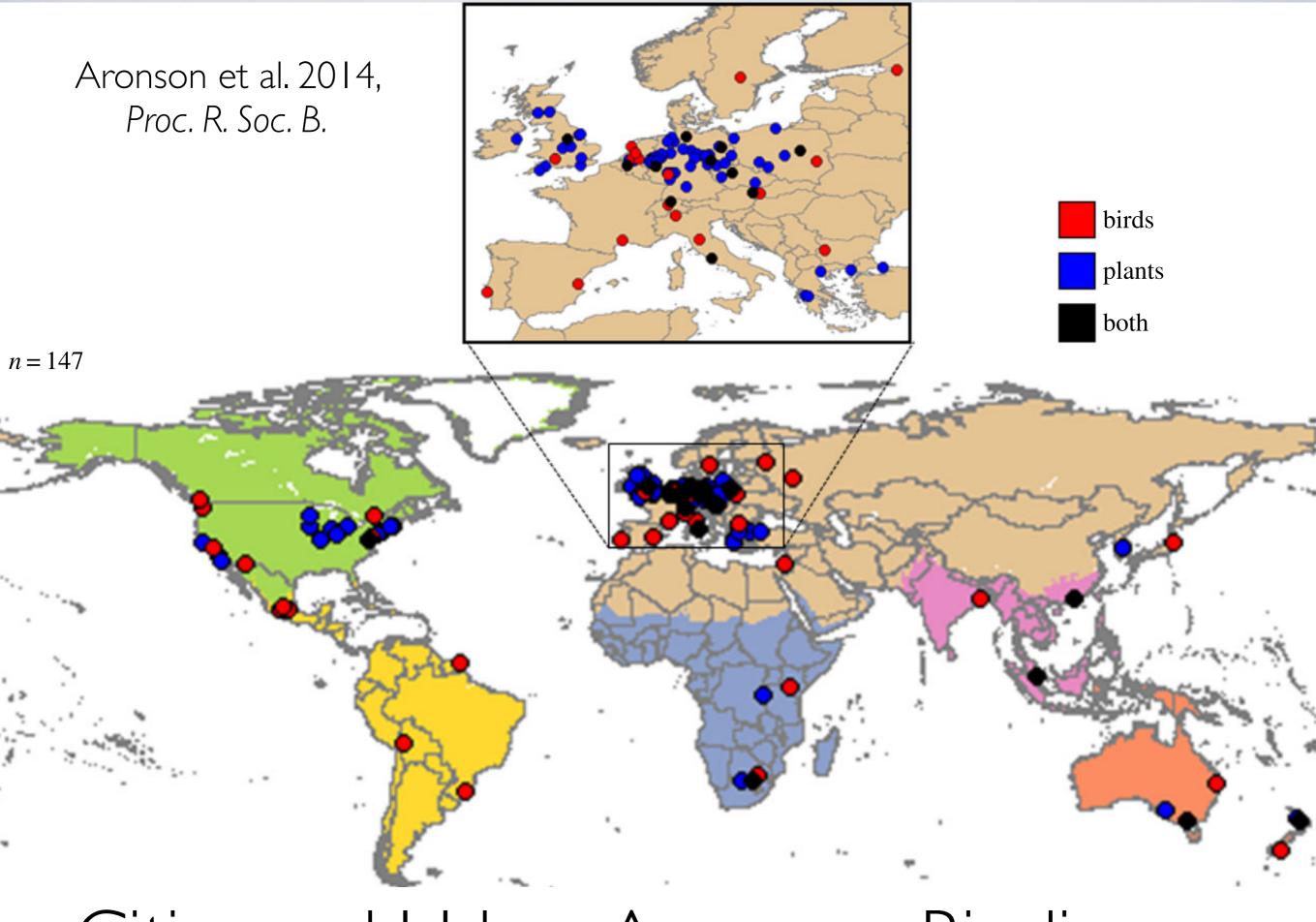
bioSUSTAINABILITY and Future Earth Urban Platform



JRBAN ECOLOGY LAB

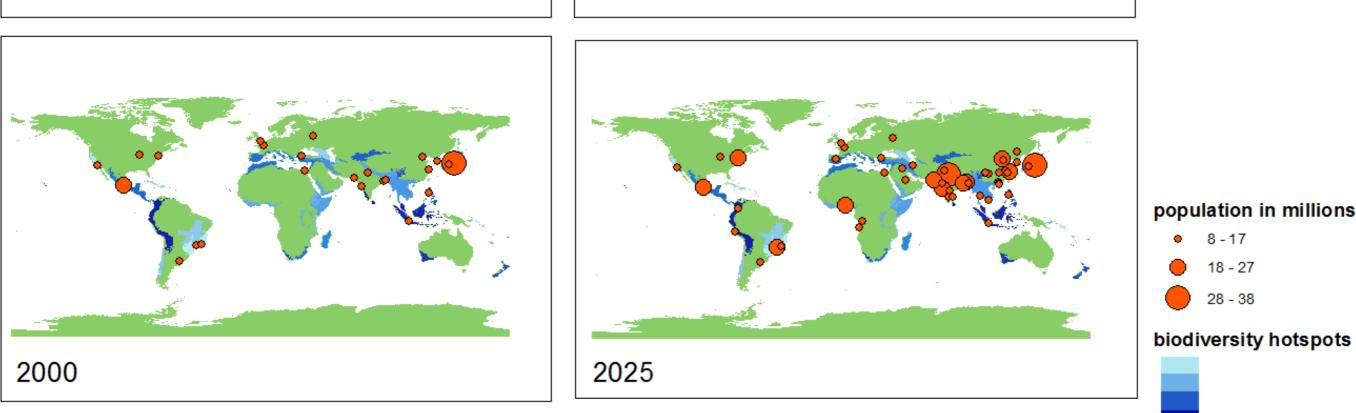
Timon McPhearson

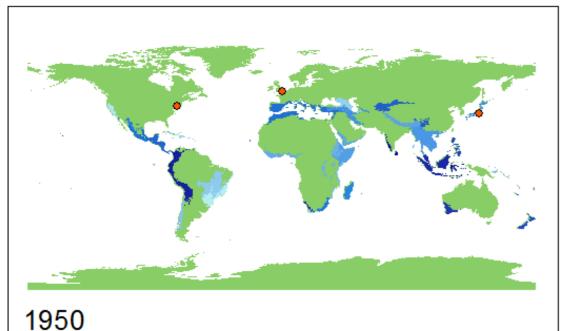
@timonmcphearson timon.mcphearson@newschool.edu

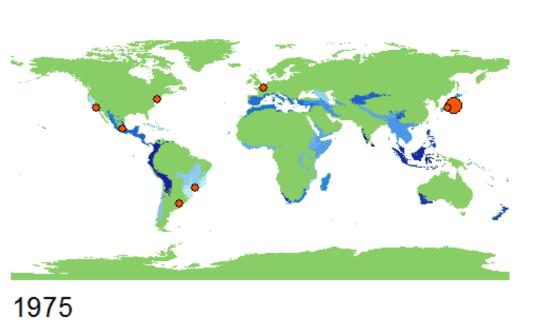


Cities and Urban Areas are Biodiverse

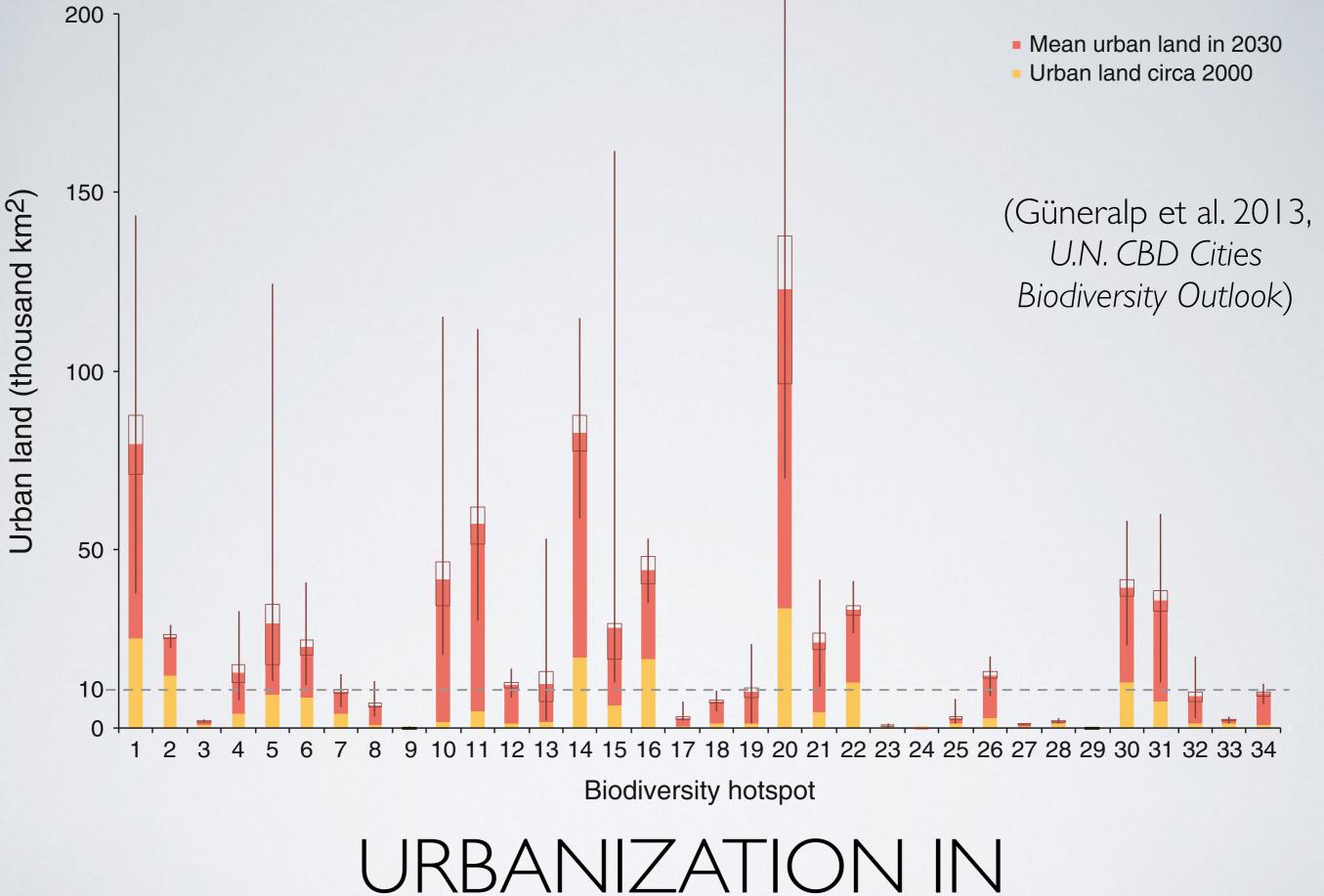
URBANIZATION IN BIODIVERSITY HOTSPOTS







(Schewenius, McPhearson, Elmqvist, 2014, *AMBIO*)



BIODIVERSITY HOTSPOTS





- Urban Biodiversity and Ecosystem Services Project (URBESproject.org) biodiversa
- Cities Biodiversity Outlook







AMBIO 2014, 43:434–444 DOI 10.1007/s13280-014-0505-z



Ecosystem Services **(111**) **111**-**11**

Contents lists available at ScienceDirect

Ecosystem Services

journal homepage: www.elsevier.com/locate/ecoser

The uptake of the ecosystem services concept in planning discourses of European and American cities

Rieke Hansen^{a,*}, Niki Frantzeskaki^b, Timon McPhearson^c, Emily Rall^a, Nadja Kabisch^d, Anna Kaczorowska^e, Jaan-Henrik Kain^e, Martina Artmann^f, Stephan Pauleit^a

Opportunities for Increasing Resilience and Sustainability of Urban Social–Ecological Systems: Insights from the URBES and the Cities and Biodiversity Outlook Projects

Maria Schewenius, Timon McPhearson, Thomas Elmqvist

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Mapping ecosystem services in New York City: Applying a social–ecological approach in urban vacant land

Timon McPhearson^{a,*}, Peleg Kremer^a, Zoé A. Hamstead^b

AMBIO 2014, 43:502–515 DOI 10.1007/s13280-014-0509-8

Urban Ecosystem Services for Resilience Planning and Management in New York City

Timon McPhearson, Zoé A. Hamstead, Peleg Kremer AMBIO 2014, 43:413–433 DOI 10.1007/s13280-014-0504-0

A Quantitative Review of Urban Ecosystem Service Assessments: Concepts, Models, and Implementation

Dagmar Haase, Neele Larondelle, Erik Andersson, Martina Artmann, Sara Borgström, Jürgen Breuste, Erik Gomez-Baggethun, Åsa Gren, Zoé Hamstead, Rieke Hansen, Nadja Kabisch, Peleg Kremer, Johannes Langemeyer, Emily Lorance Rall, Timon McPhearson, Stephan Pauleit, Salman Qureshi, Nina Schwarz, Annette Voigt, Daniel Wurster, Thomas Elmqvist



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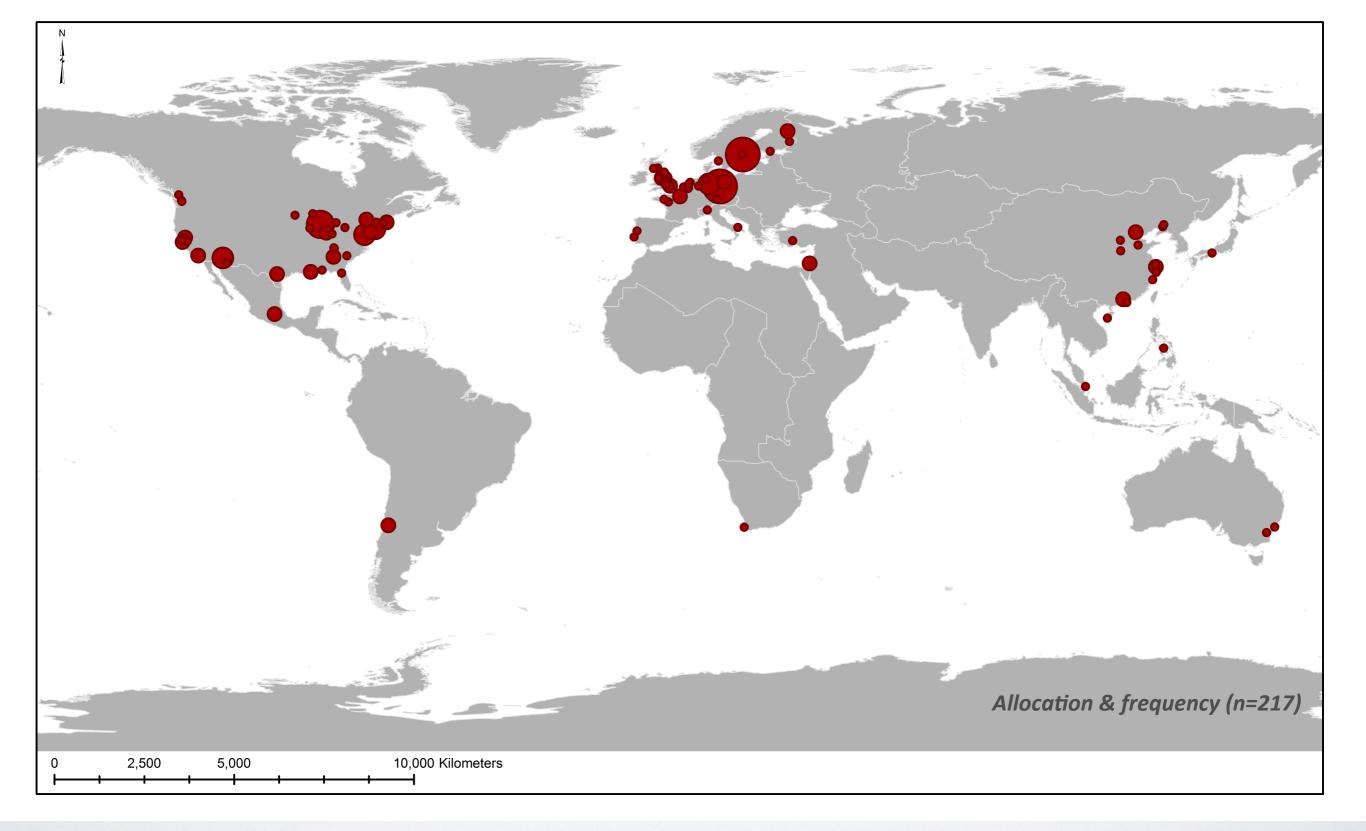
journal homepage: www.elsevier.com/locate/ecoser

Resilience of and through urban ecosystem services Timon McPhearson^{a,*}, Erik Andersson^b, Thomas Elmqvist^b, Niki Frantzeskaki^c



May 2014May 2015Fall 2015Spring 2016Open Access

URBES Special Issues



Review of Urban Ecosystem Services Research

(Haase et al., 2014, AMBIO)

URBES: KEY INSIGHTS

- Land cover and land use are useful, yet using them as proxies for UES can be problematic.
- Relationships between biodiversity and ecosystem services require additional empirical research.
- Understanding boundary and scale mismatches is essential for applying the UES framework in planning and governance.
- Ecosystem services are often mediated by non-ecological, social and technological elements.
- Cultural ecosystem services helps to embrace and emphasize the diverse values and meanings people find in nature
- An effective science-policy interface is essential for the implementation of UES based plans and policies.
- Cross-city comparisons are fundamental to advance understanding of a) drivers of ecosystem structure and function and b) to differentiate between dynamics of UES that are locally unique in cities versus those that generalizable to multiple urban contexts

FUTURE EARTH URBAN PLATFORM

FEUP Core Group

- Xuemei Bai—Australian National University
- Thomas Elmqvist—Stockholm Resilience Centre
- Corrie Griffith—UGEC
- Timon McPhearson—The New School
- Marcus Moench—ISET
- Jon Padgham—START
- Debra Roberts—eThekwini Municipality
- David Simon—Royal Holloway, University of London & Mistra Urban Futures
- Patricia Romero Lankao—National Center for Atmospheric Research

FUTURE EARTH URBAN PLATFORM

- FEUP Scoping meetings in Taipei (Nov 2014), Boulder (March 2015), Paris (July 2015)
- FEUP Science Scoping Document in development
- Research questions include: What are risks and tipping points for urban biodiversity, ecosystem functioning, and services?
- www.futureearth.org/liveable-urban-futures