



Enabling Green and Blue Infrastructure Potential in Complex Social-Ecological Regions

ENABLE

Asoc. Prof. Erik Andersson

Funded projects final conference, 12-13 November 2019, Brussels

BiodivERsA COFUND Call (2015-2016)

« Understanding and managing biodiversity dynamics to improve ecosystem functioning and delivery of ecosystem services in a global change context: the cases of soils and sediments, and land- river and sea-scapes »



CONSORTIUM DESCRIPTION

Partner 1 (coordinator): Erik Andersson, Stockholm University, Sweden, funded by the Swedish Research Council for Environment, Agricultural Sciences, and Spatial Planning and the Swedish Environmental Protection Agency

Partner 2: Humboldt University Berlin, Germany, funded by the German aeronautics and space research centre, Germany

Partner 3: University of Łódź, Poland, funded by the National Science Centre, Poland

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Partner 5: Ecologic Institute, Germany, funded by the German aeronautics and space research centre

Partner 6: Norwegian Institute for Nature Research, Norway, funded by the Research Council of Norway

Partner 7: European Regional Centre for Ecohydrology, Poland, funded by the National Science Centre

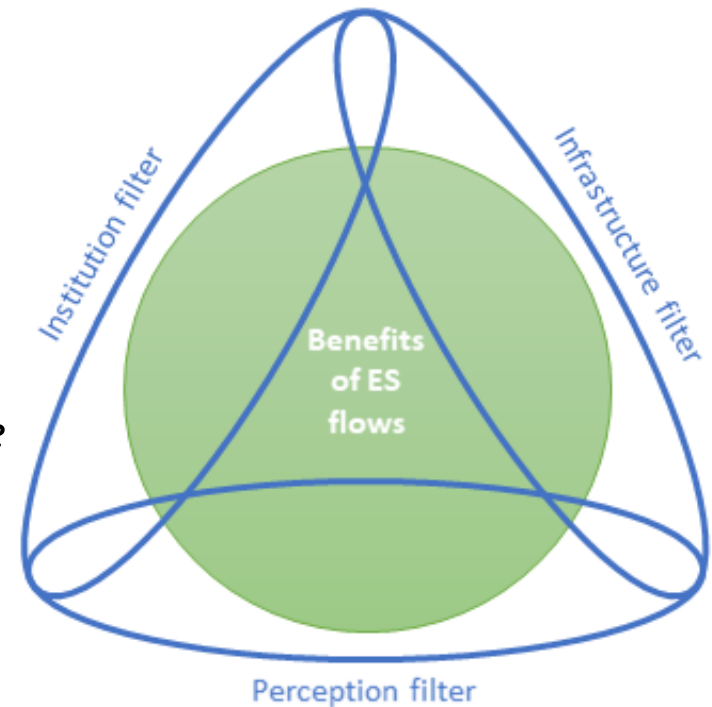
Self-funded partner: The New School, USA

Subcontracted partner 1: IUCN, Belgium, subcontracted to Stockholm University

Subcontracted partner 2: ICLEI, Germany, subcontracted to Humboldt University Berlin

PROJECT DESCRIPTION

- *Two lead themes: Context is more than noise and Contextualised generalisability*
- *Under what conditions does Green and Blue Infrastructure actually deliver benefits?*
- *Assessment, analysis, futures and evaluation*
 - *Mixed methods*
 - *Scenarios*
 - *Resilience and justice*
- *Comparison across difference – multiple evidence and a systems understanding*
- *Moving transdisciplinary science forward: Methodological design, collaboration and co-creation*



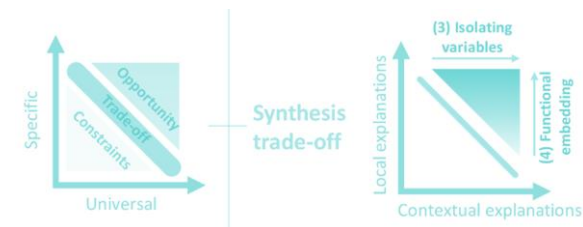
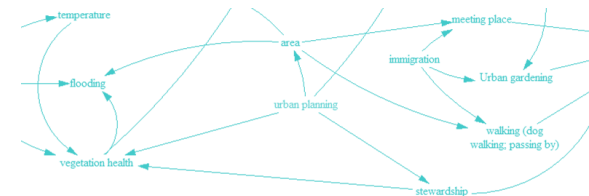
SCIENTIFIC OUTPUTS

At the **operational level**, ENABLE has

- Created an assessment framework and develop new analytical tools and approaches for evaluating GBI performance as embedded in three three filters
- Described the different ways people are involved in realizing final benefits from GBI and thus highlighted the need to seriously engage with justice issues
- Investigated physical, mental and institutional barriers hindering equal access to desired GBI benefits and used multiple evidence based, integrated knowledge to challenge multilevel governance responses, strategies and arrangements
- Advanced the operational knowledge of how to set up a transdisciplinary systematic, mixed-methods flexible approach for engaging with embedded GBI in order to unlock its full potential (theory, analytical and conceptual linkages, methods integration, and critical case comparison and experience translation)

Enabling Green and Blue Infrastructure to Improve Contributions to Human Well-Being and Equity in Urban Systems

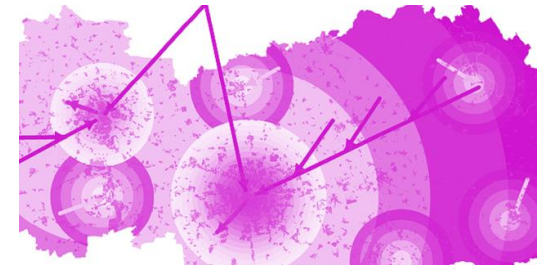
ERIK ANDERSSON¹, JOHANNES LANGEMEYER, SARA BORGSTRÖM², TIMON MCPHEARSON³, DAGMAR HAASE, JAKUB KRONENBERG, DAVID N. BARTON, MCKENNA DAVIS, SANDRA NAUMANN, LINA RÖSCHEL, AND FRANCESCO BARO⁴



SCIENTIFIC OUTPUTS

At the **strategic level**, ENABLE has

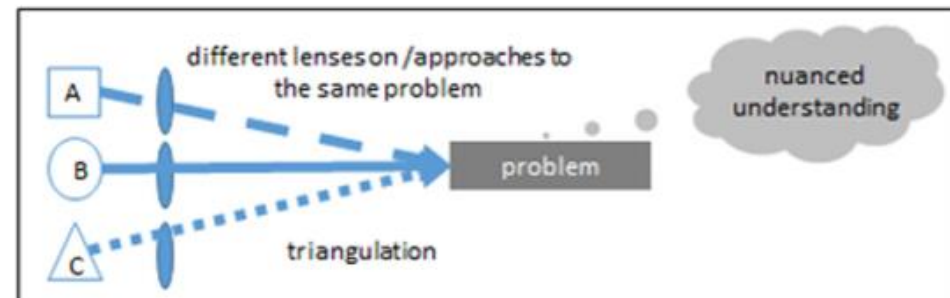
- *Improved the understanding of human perceptions and cultural values of GBI and biodiversity together with stakeholders using conceptual ideas of filters and barriers; focus on new “more-than-humans” linkages between people and nature in cities*
- *Examined critical, fair and complex success factors to improve the analysis, design, management, conservation, performance and assessment of multiple benefits of GBI (integrated scenario development on neighborhood scale embedded in cross-case modelling environment)*
- *Advanced the analytical and theoretical linking of urban ecosystem service to (environmental) justice and developed frameworks for exploring resilience-justice tensions and synergetic opportunities within complex and dynamic urban systems*



SCIENTIFIC OUTPUTS

In practice, ENABLE achieved to

- *Foster scientific co-creation (“tailoring urban socio-ecological research to city needs”) & systematic integration of citizens’ and experts’ knowledge*
- *Transdisciplinary and integrated research designs / mixed methods approaches combining qualitative and quantitative research design tailored to city challenges*
- *Strengthen the capacity for reflective practice: Track and document learning and impact*






SCIENTIFIC OUTPUTS

Areas of exploration and new knowledge

- *Barriers and operational resilience*
 - *Physical, institutional, personal and procedural*
- *Co-production of ecosystem services, NBS and especially their benefits*
- *Interdisciplinary science and connecting multiple evidence*
 - *Methodological approaches*
 - *Transdisciplinary discourse and dialogue*
- *Tapping into new data sources*
- *Useful knowledge*
- *Distributional justice*
 - *Availability, accessibility, attractiveness*
- *Response capacity and adaptation*
- *Theory and conceptual development*



SOCIETAL / POLICY OUTPUTS

- *Problem oriented action research in practice*
 - *The knowledge-practice landscape*
 - *Actors and processes*
 - *Knowledge processes*
- *Transdisciplinary co-production, co-creation and collaboration in our case studies*
- *Ongoing dialogue and multiple bridges between different processes*
- *Policy briefs, fact sheets, webinars, open dialogues, meetings and conferences (local/EU)*
- *Presence at European events (congresses, conferences etc.)*
- *Support to local policy processes and decision making*

- *...and more*

ACKNOWLEDGEMENTS

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Forskningsrådet
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SWEDISH ENVIRONMENTAL
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DLR Project Management Agency

