



REGENERATIVE ARCHITECTURE and NO NET LOSS CITY

Aalto ARTS Summer School
Pre-course Symposium

Assist. Professor of Landscape Architecture Elisa Lähde
Department of Architecture



Aalto University

Regenerative architecture and no net loss city

- Regenerative architecture
- No net loss city
- Ecosystem services



Regenerative architecture

- Regenerative design emphasizes connectedness and interactions on many different scales and questions the prevailing anthropocentric relationship with nature.
- It demands from designers a vision of architecture that "does good" and not just "less bad".



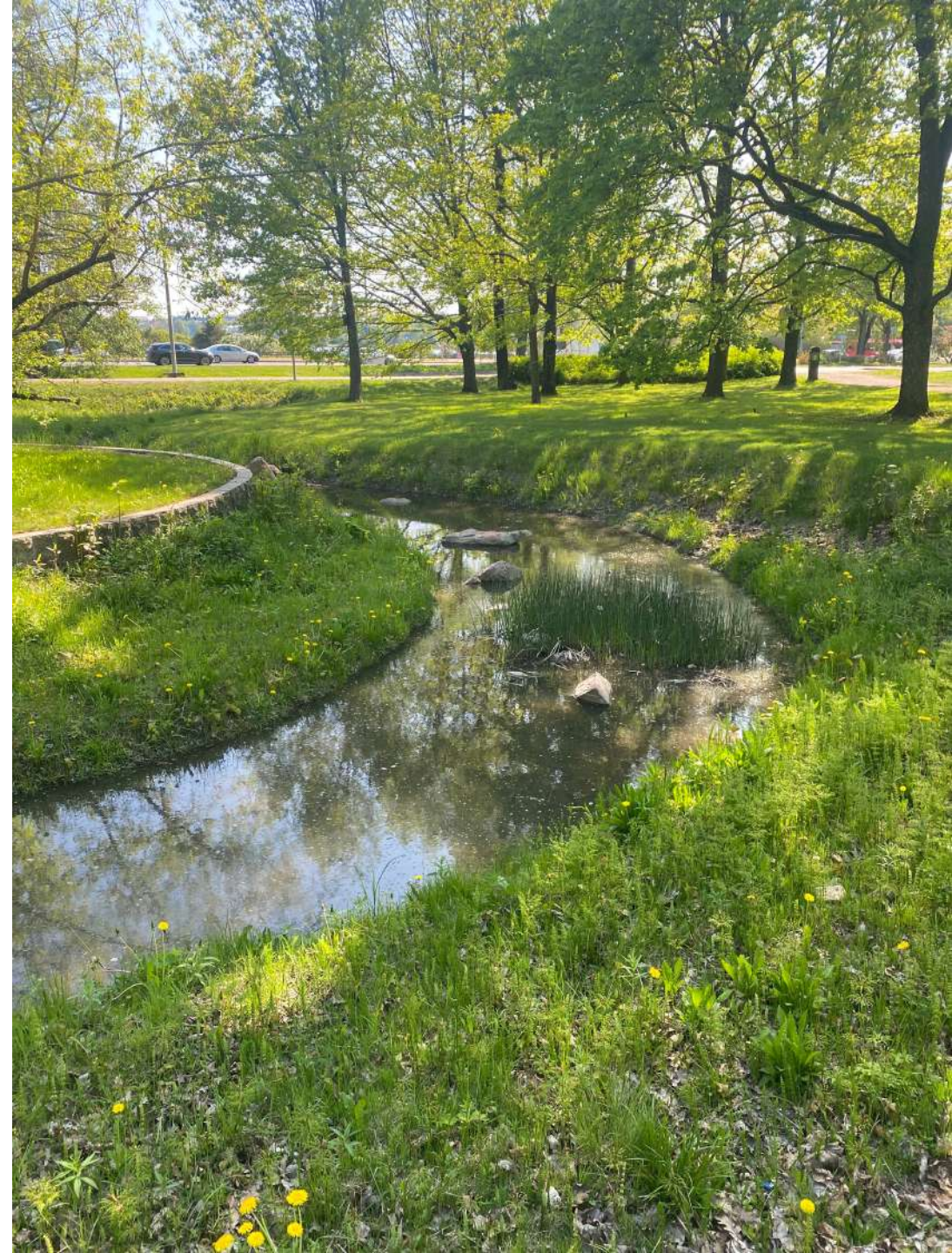
Regenerative architecture

- Holistic approach: Regenerative considers the relationships between people, nature, and the built environment as interconnected and interdependent systems.



Regenerative architecture

- Partnership with nature: Regenerative architecture aims to create a mutually beneficial and net-positive relationship between humans and nature.
- This partnership involves designing landscapes, cities, and buildings that work with, rather than against, natural systems to support healthy ecosystems and habitats.



No net loss

- No net loss principle: policy applied at various spatial scales aiming to achieve a minimum of no net loss in biodiversity across all impacts of development.
- NNL policies are often operationalized in practice through application of the “mitigation hierarchy.” Framework for mitigating biodiversity losses from development by sequentially avoiding biodiversity impacts wherever possible, minimizing impacts where impacts are unavoidable, restoring following the impact if impacts are time bound, and finally offsetting any residual impacts to biodiversity. (zu Ermgassen et al, 2019)

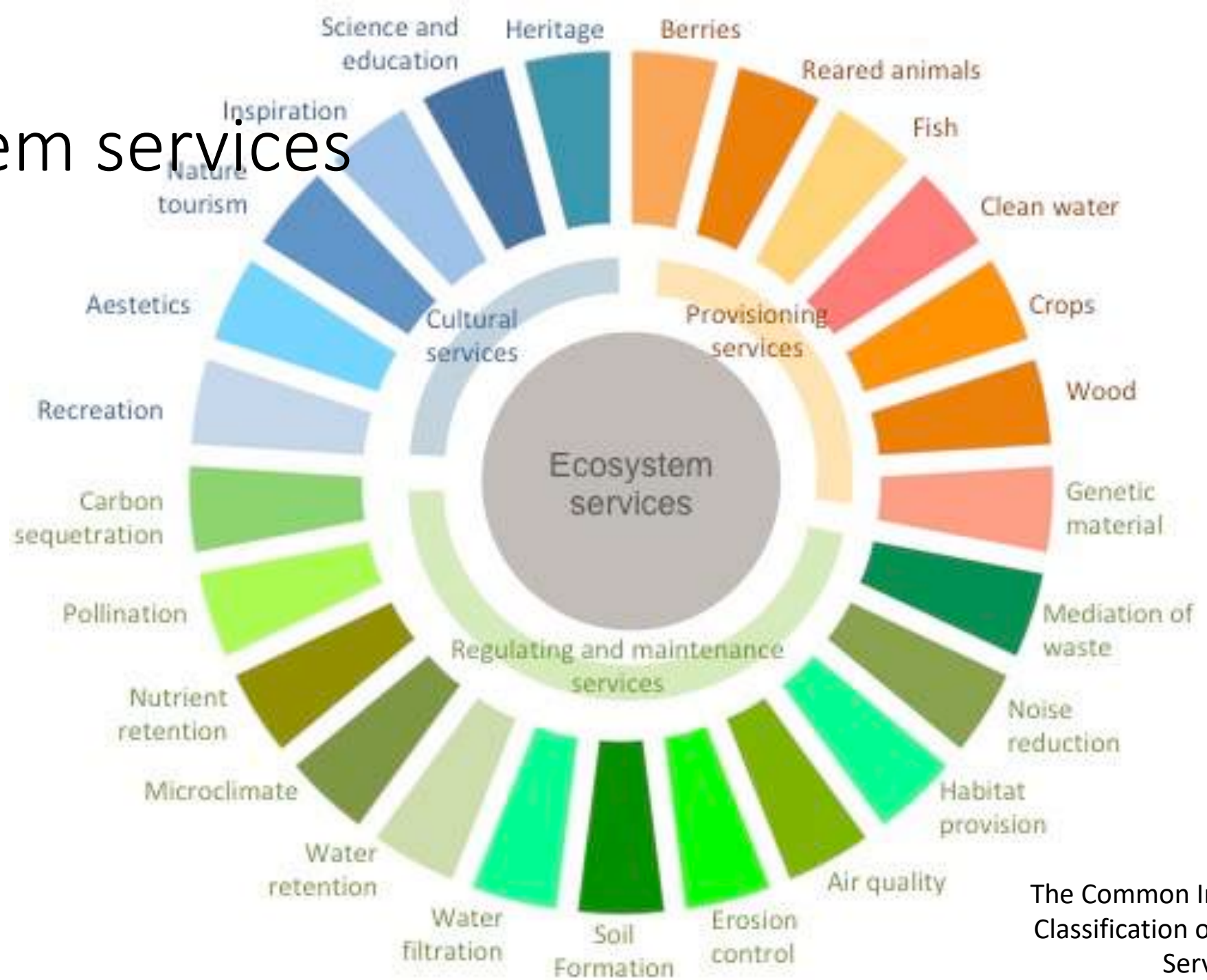
Some links:

[Ensuring no net loss for people as well as biodiversity: good practice principles](#)

[Boost for biodiversity offsets](#)

Can there be an entire no net loss city? What would it be like?

Ecosystem services



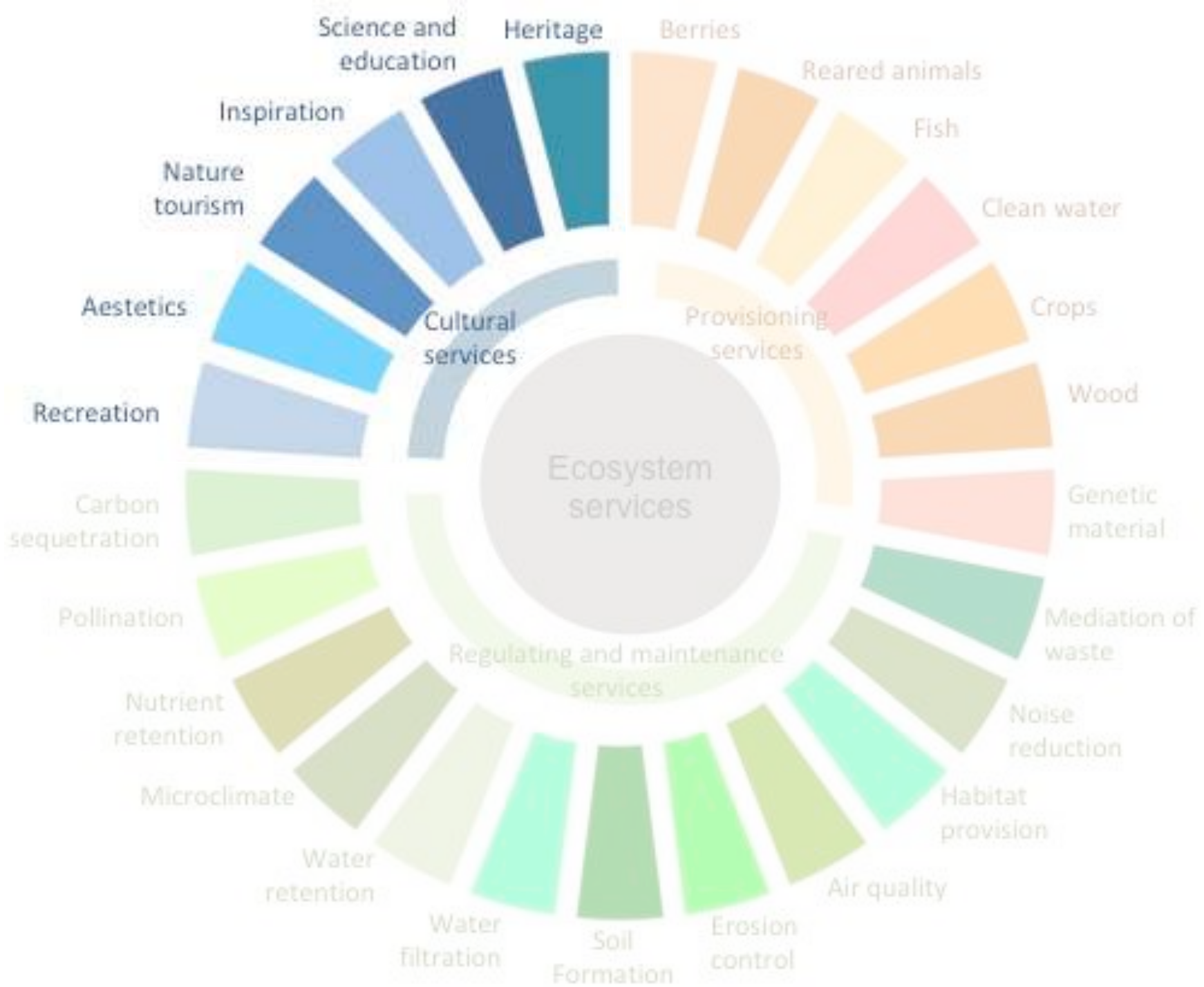
The Common International
Classification of Ecosystem
Services (CICES)





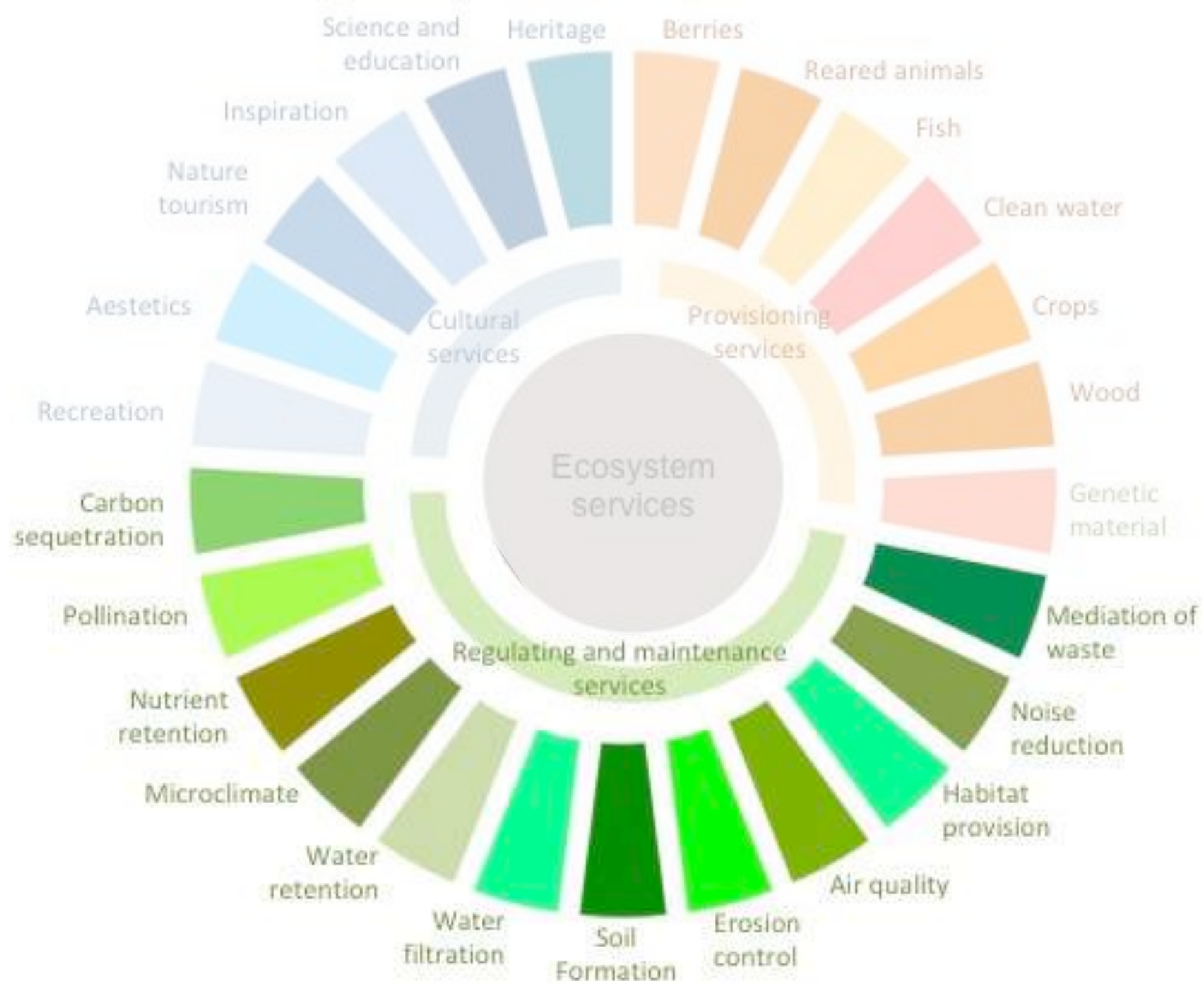














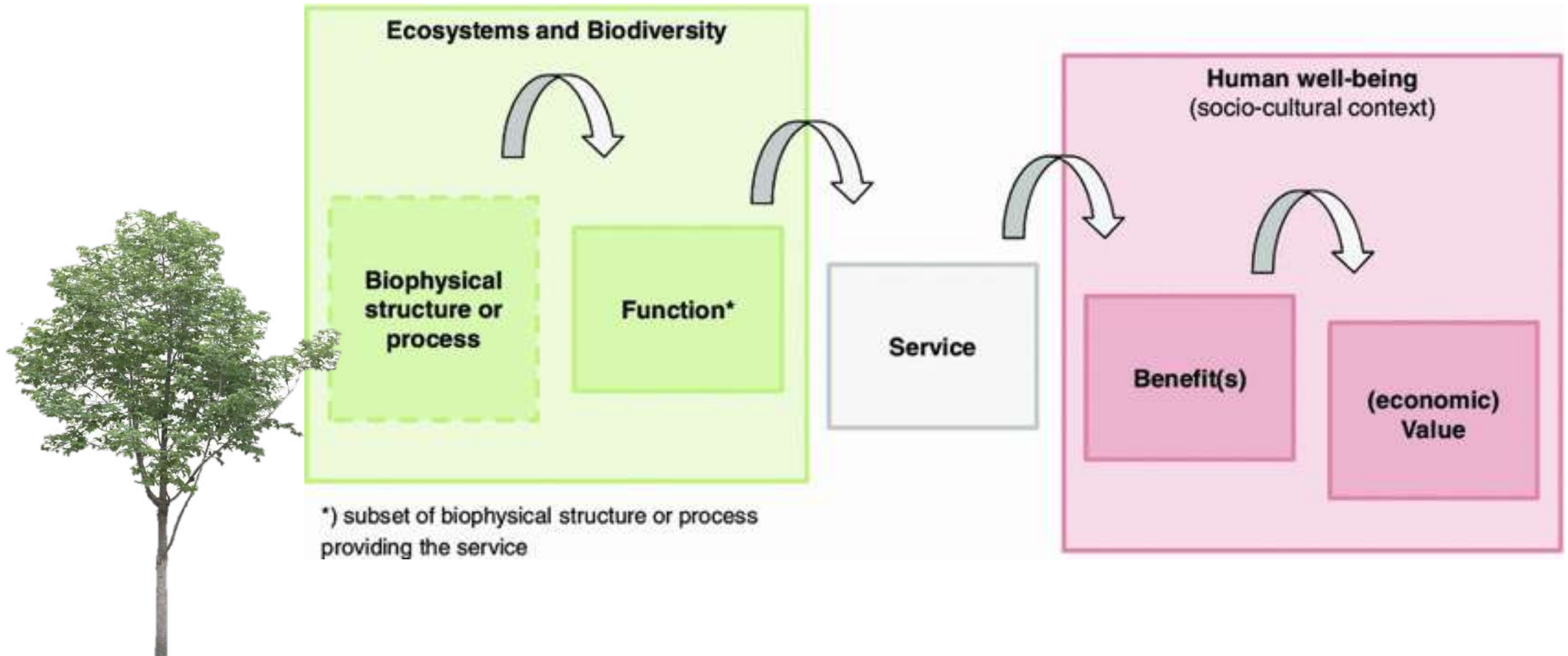




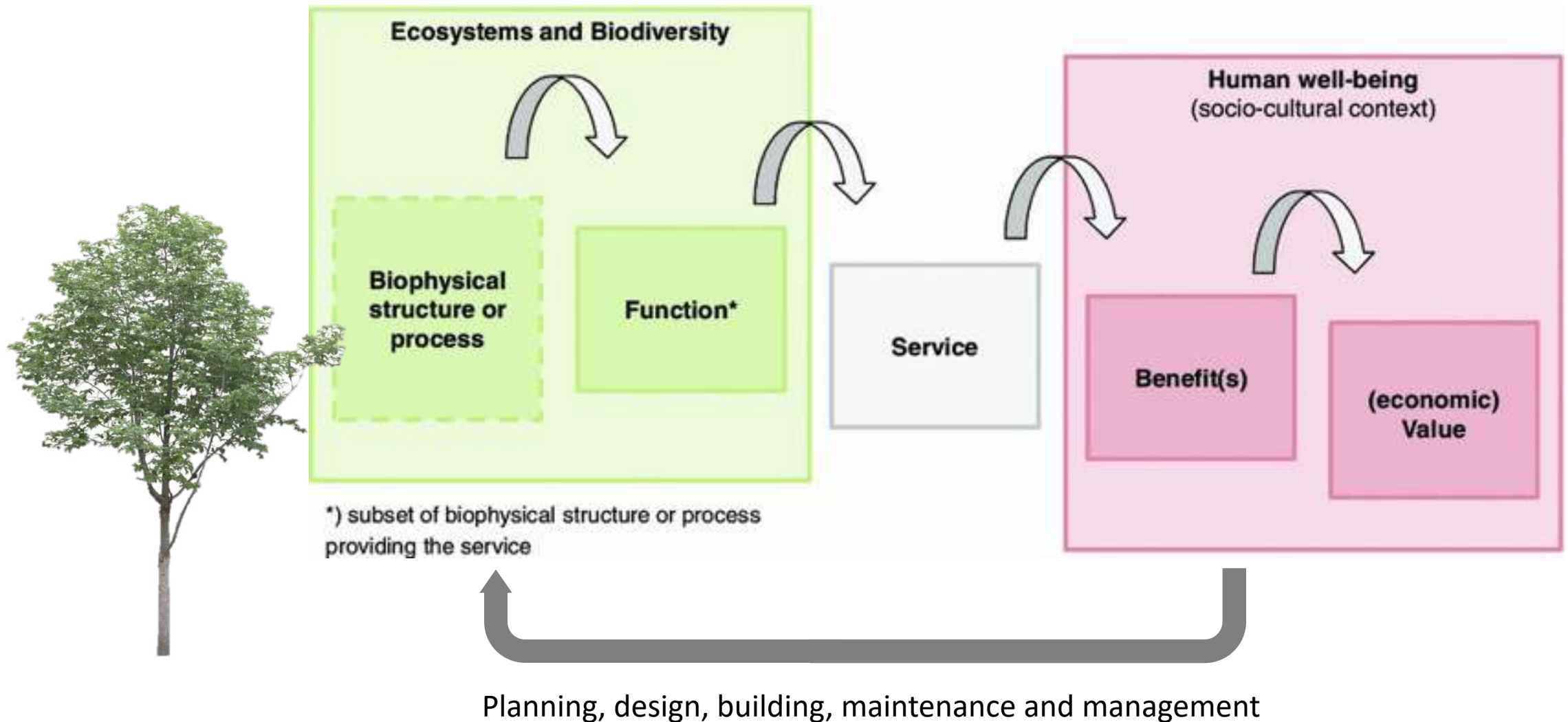


Co-carbon project

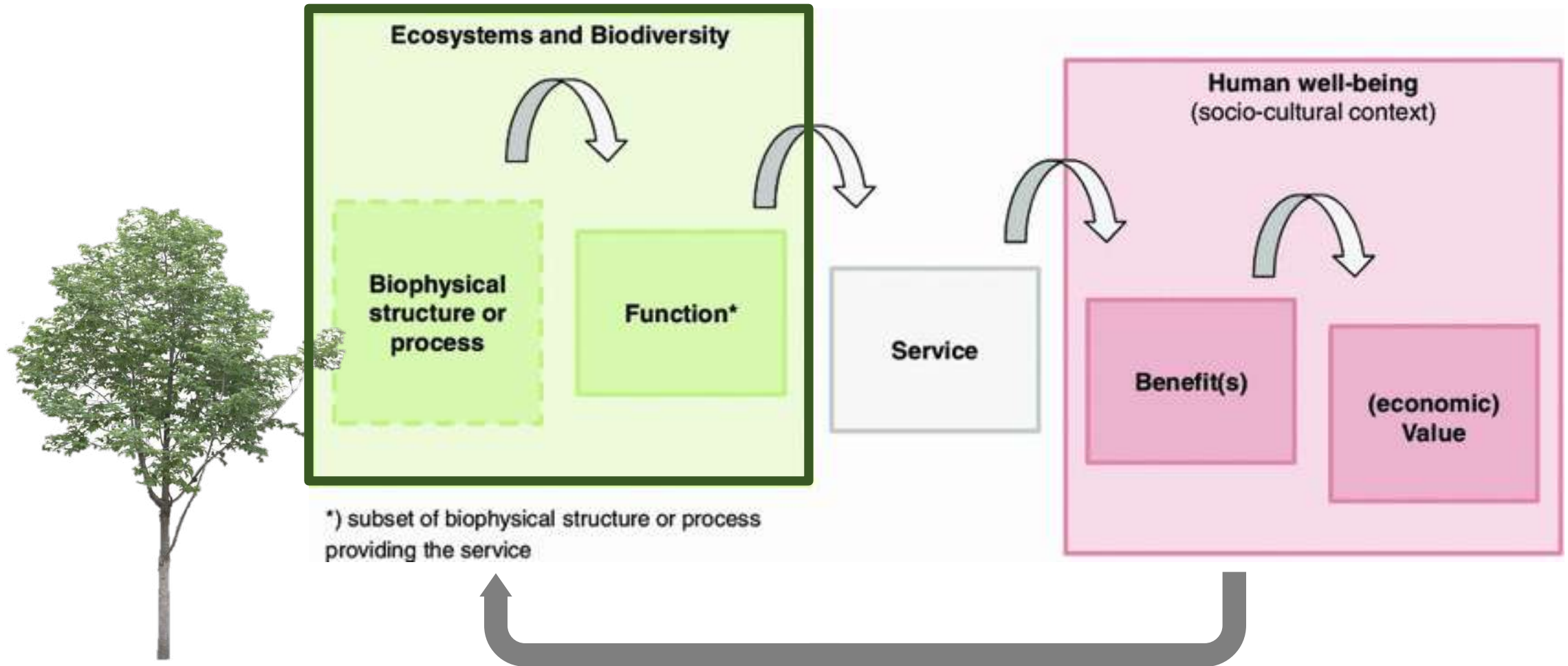
Ecosystem services cascade model



Ecosystem services cascade model



Ecosystem services cascade model



Regenerative planning, design, building, maintenance and management

Thank you

Elisa Lähde

elisa.lahde@aalto.fi

 [elisa_maarit](https://www.instagram.com/elisa_maarit)

