

# The role of the new campus for urban ecosystem services on local and city-wide scales

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# Design for ecosystem services

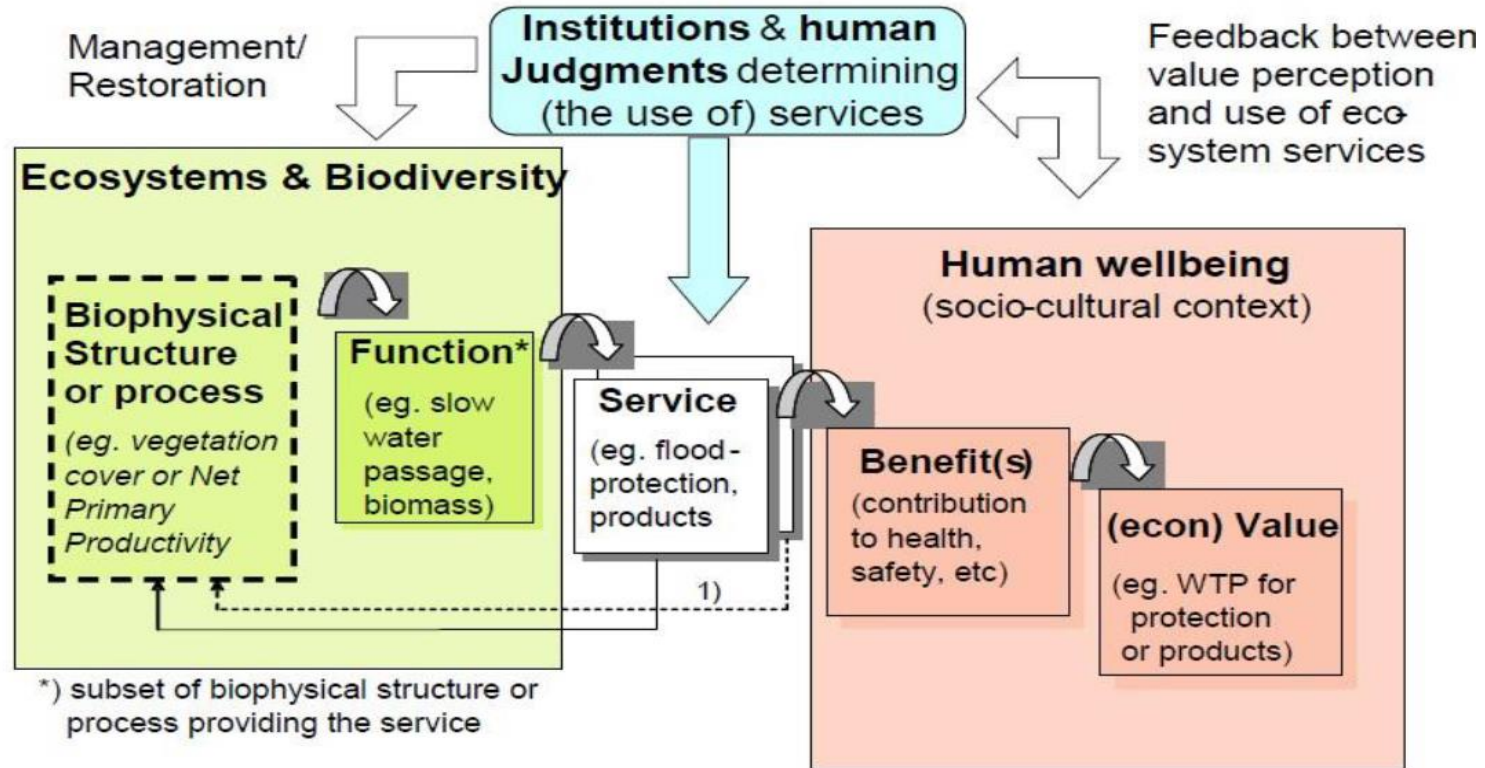
- Why the explicit focus on green?
- Where do ecosystem services come from?
- How can we make sure they are available where they are needed?



# Ecosystem services

- We still depend on ecosystems for our survival and wellbeing
  - Food, clean air, clean water, soil processes, photosynthesis, climate control ...
  - From a campus?
    - Recreation
    - Pedagogical
    - Health
    - Aesthetics
    - Local climate and environment
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# Getting to grips with an inclusive concept



Adapted from Haines -Young & Potschin, 2010 and Maltby (ed.), 2009

# Design for ecosystem services

- Why the explicit focus on green?
  - Where do ecosystem services come from?
  - How can we make sure they are available where they are needed?
  
  - We need to understand basic ecology
  - ...and we need to understand the social systems set up around it
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# The most obvious



# More basics



# Finally – a system





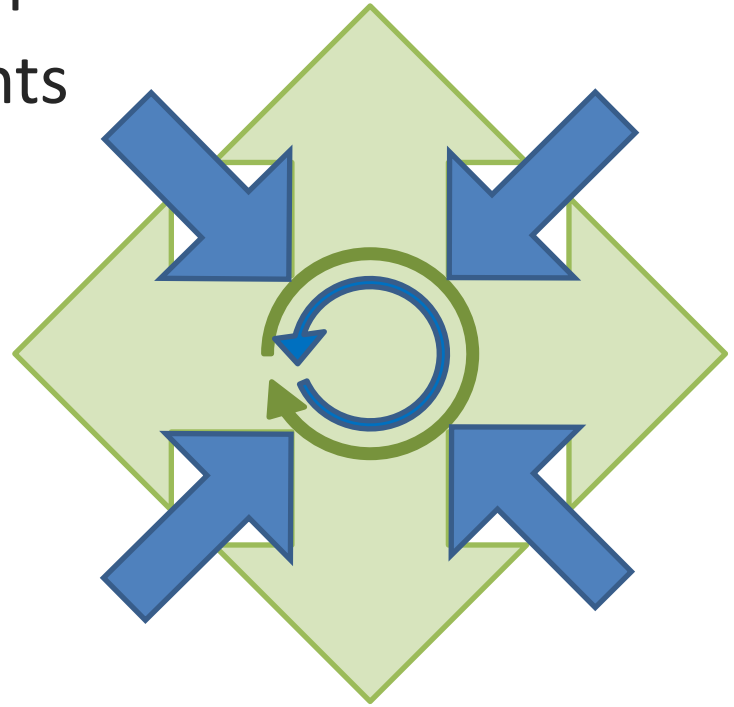
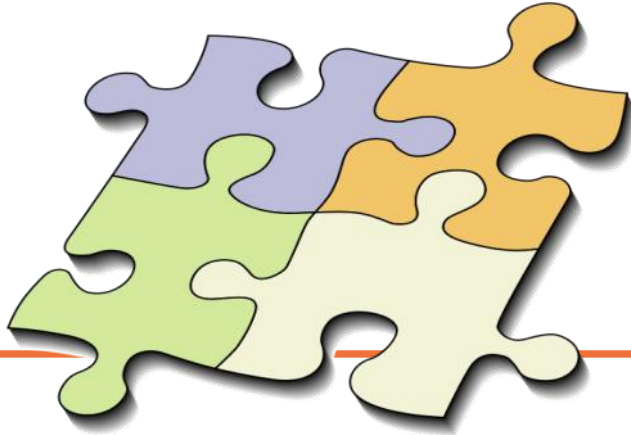
# Apples – the comprehensive summary

- A tree of the right variety
  - Site conditions (water, light, temperature...)
  - Other apple trees
    - Where?
    - What variety?
  - At least one pollinator
    - Additional habitat resources
    - Interconnected populations
    - Diversity to face down disturbance
  - ...and all of this within a limited geographical space
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# Albano

How to make the pieces add up

- Individual design components
- The sum is more or less than the parts...



# Basic premises and logic

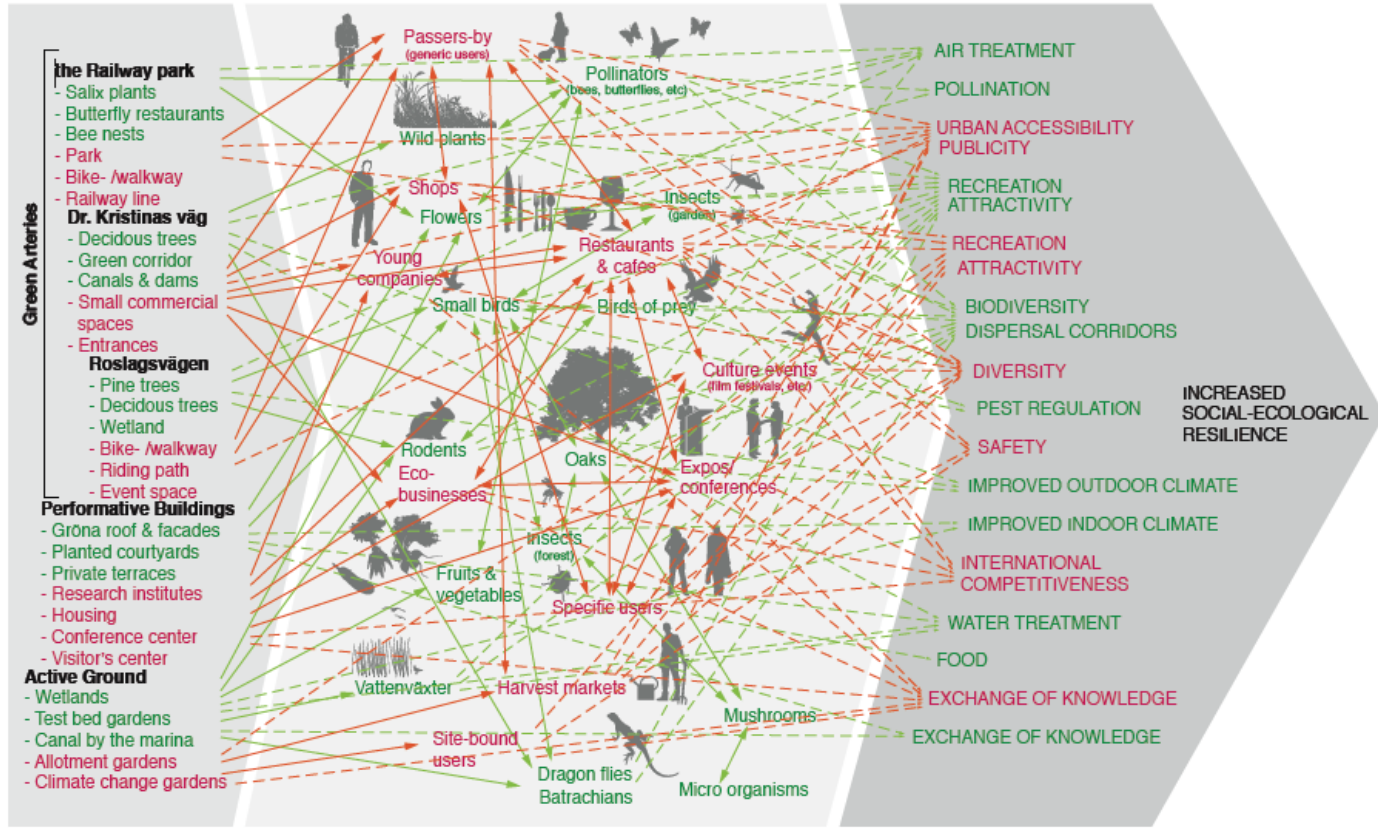
- Build on what is there
    - Complex systems are ... complex
    - Local and regional ecology
    - The landscape remembers
  - Tailor to need
    - Which services?
    - Nature and character of the services
    - Campus and beyond
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# Elements

- Performative buildings
- Active grounds



# Multifunctionality



# Users

- Active transaction as often as not
  - Create value by adding layers facilitation and precaution
  - Values, preferences and needs differ
  - Albano focus on but is not limited to university students and staff
  - Where is the service, where is the beneficiary?
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# Scales

- Element, campus, region
  - Interactions within and across scales
  - Smaller scales are nested in larger, an one single scale is never enough
  - Does Albano make sense? One new piece in the Stockholm puzzle
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# Connections are key

- Movement, flow, exchange, heterogeneity
  - Why would anyone go from *A* to *B*?
  - Green arteries
  - Differential opportunities
  - Guiding logic
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# Similarity or complementarity

- The city – or any landscape – can be understood as a set of resources
  - What are the regional strengths that can be built on?
    - Cultural ‘gardens and parks’ landscape
    - Oak woodlands
    - Wetlands and blue infrastructure
  - What is missing?
    - Need for management and maintenance
  - Active grounds revisited
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# A pathway towards sustainability

- Contextualise and anchor knowledge in experience
  - Behavioural change may start small
  - A mental shift – the power of the ‘good’ example
    - Thought provoking
    - Easy to understand
    - Broadly meaningful
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# Implications and conclusions

- Sustainability needs to be integrated/addressed at all scales
  - Elements need to be used strategically
  - Indirect benefits are at least as important as the direct
  - Experimental knowledge  
personal meanings are key
    - Live in, of and with nature
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# Kiitos, thanks