C cocarbon





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HELSINGIN YLIOPISTO HELSINGFORS UNIVERSITET UNIVERSITY OF HELSINKI strategicRESEARCH

Community understanding of carbon smart green spaces

Christopher Raymond, Oriol García-Antúnez, Anton Stahl Olafsson, Natalie Gulsrud, Eugenia Castellazzi, Jussi Lampinen Managing for 'carbon smart' green spaces



Research questions

Are carbon-smart green spaces supported by the public, by whom, where?

What explains varying levels of support among the public? How do social values for green areas align with biodiversity and carbon?

Key message 1

Public support for carbon-smart green spaces is moderate to strong among residents of Helsinki, but varies according to...

- different ways of valuing, using, and accessing green spaces
- different **socio-economic contexts** (age, gender, income)
- different **understandings** of the role of greens paces in carbon sequestration and storage
- across different places
- according to **perceived trade-offs** to biodiversity and well-being

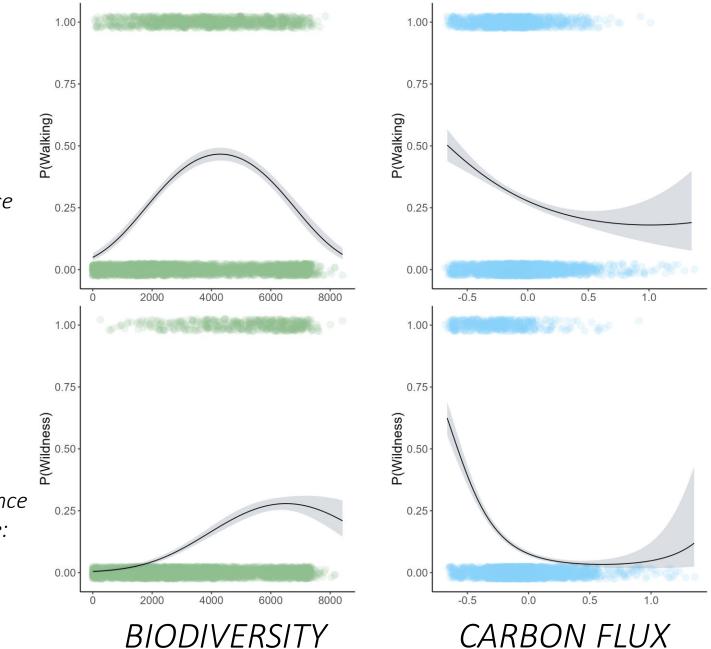
Key message 2

The relationships between biodiversity, carbon, and social values in green spaces across Helsinki is variable. Yet, certain generalizations can be made:

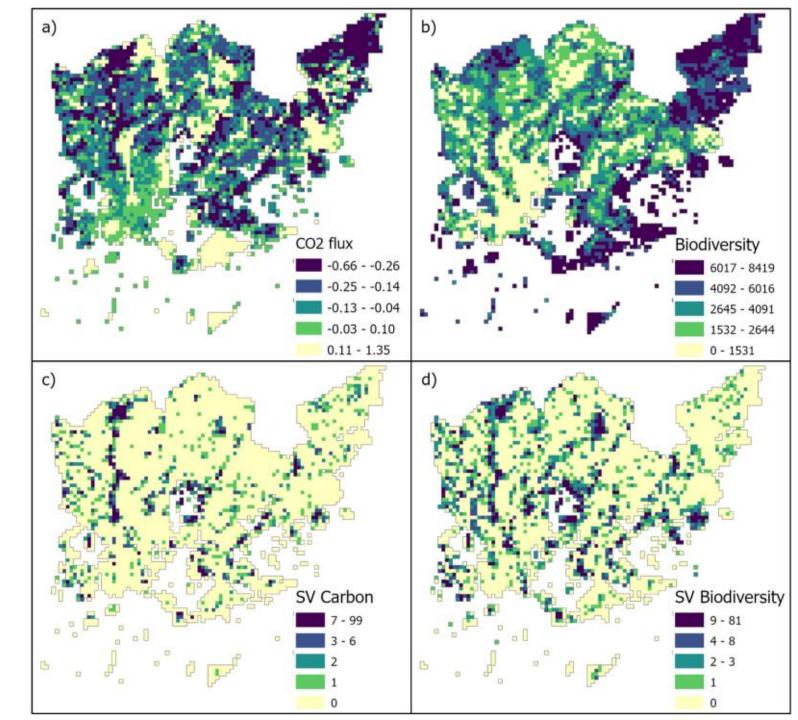
- Biodiversity, carbon sequestration, and social values for nature cooccur in **large green spaces**
- Perceptions of biodiversity and carbon **follow modelled estimates of actual** biodiversity and carbon sequestration

Different parts of the biodiversity- and carbon -gradients are valued in different ways

> Predicted presence 0.25 of social value: Walking 0.00 *n* = 3 616 2000 4000 6000 8000 0 1.00 0.75 P(Wildness) Predicted presence 0.25 of social value: Wildness 0.00 n = 1 158



Perceptions of carbon sequestration and biodiversity align with modelled estimates of carbon sequestration and biodiversity



Conclusion

The results show how biodiversity, carbon sequestration and well-being values need to be managed within specific places in Helsinki. Place-specific management needs to be guided by:

- Inclusive and participatory planning practices
- Recognition of the **interconnectedness** of everything
- Understanding that win-win-win situations between biodiversity, carbon, and social values for green areas **are unlikely to be universal**

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Thank you!

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