

IMECOGIP is a project funded by the BMBF – Germany's Federal Ministry for Education and Research, in the frame of the application-oriented SURE funding priority – Sustainable Urban Regions (SURE).

More information https://sustainable-urban-regions.org/imecogip

Ecosystem Services in the **Planning of Green** Infrastructure

- livable



and Research

FKZ 01LE1805A-B













Make cities ...

healthier more resilient

imecogip@rub.de Prof. Dr. Harald Zepp

What nature does for us ...

Provisioning services

Regulating services

Cultural services



Good planning considers what nature can do for us.

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Against the Knowledge & Communication Gap!



do for us. ation Gap





Ecosystem services

- too complicated ?



- for experts only ?



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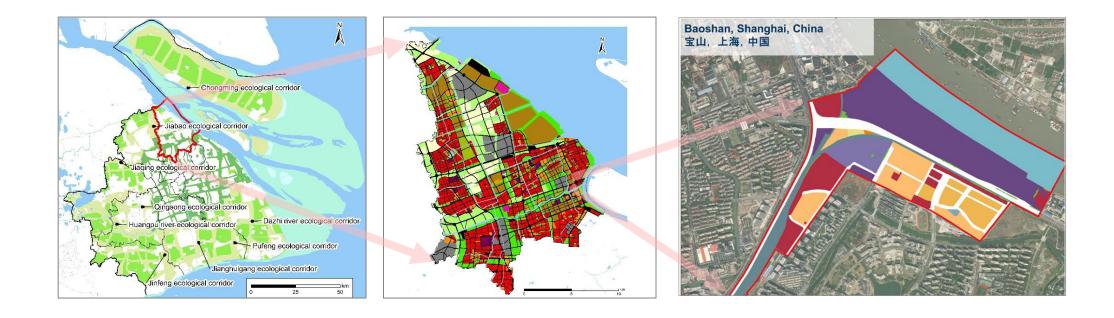
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planners decision makers

The project developed a toolbox that planners and experts can use

- to systematically assess the ecosystem services of any area,
- be it a building block, a neighborhood, district, or region.



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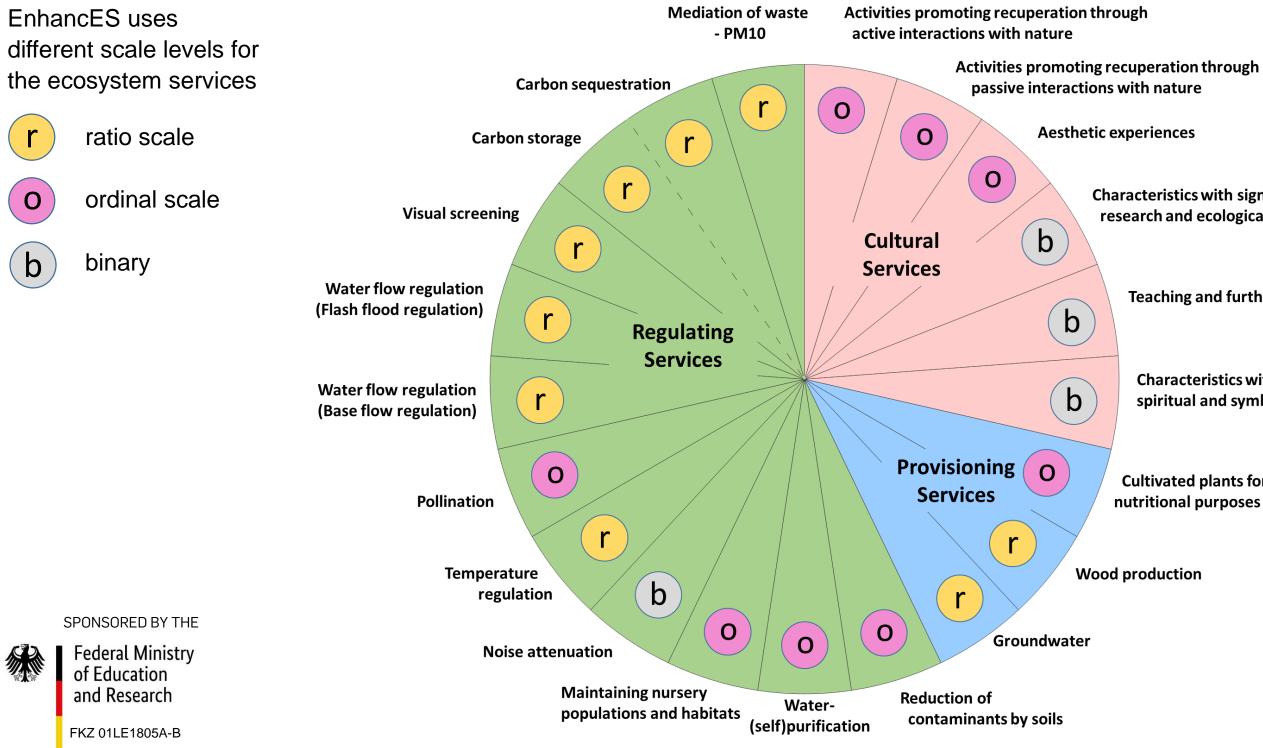
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Assessing ecosystem services with the Enhances Toolbox





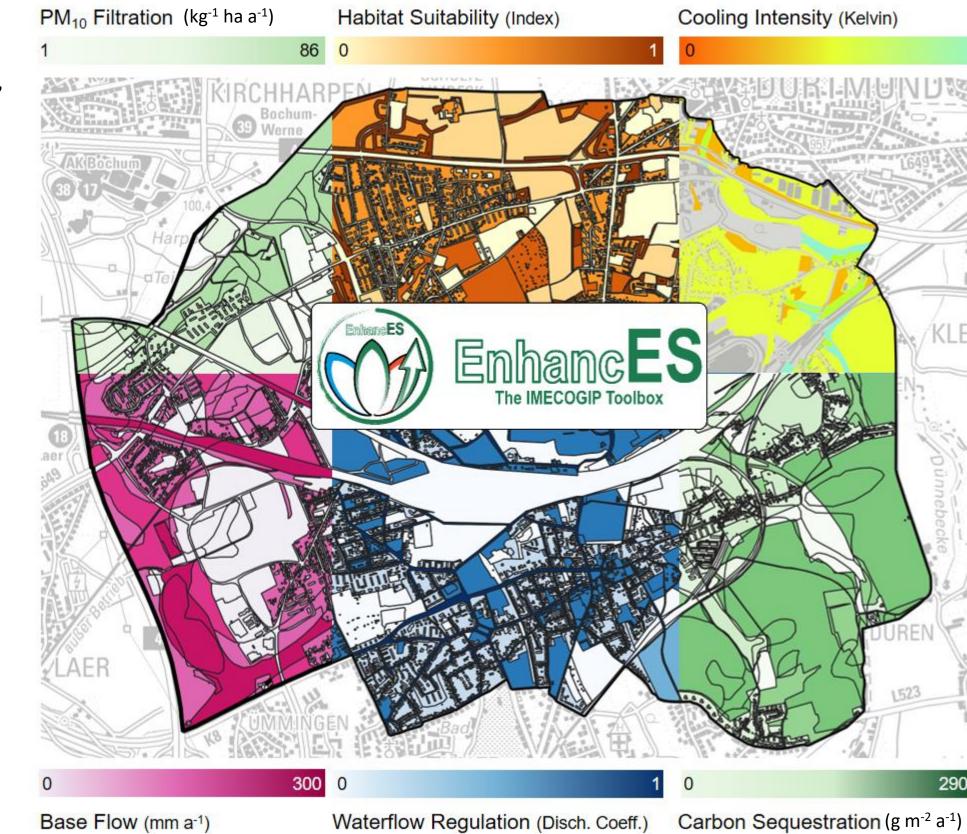
Characteristics with significance for research and ecological knowledge

Teaching and further education

Characteristics with natural, spiritual and symbolic meaning

Cultivated plants for nutritional purposes

5



EnhancES' outputs come in maps

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Base Flow (mm a⁻¹)

Waterflow Regulation (Disch. Coeff.)

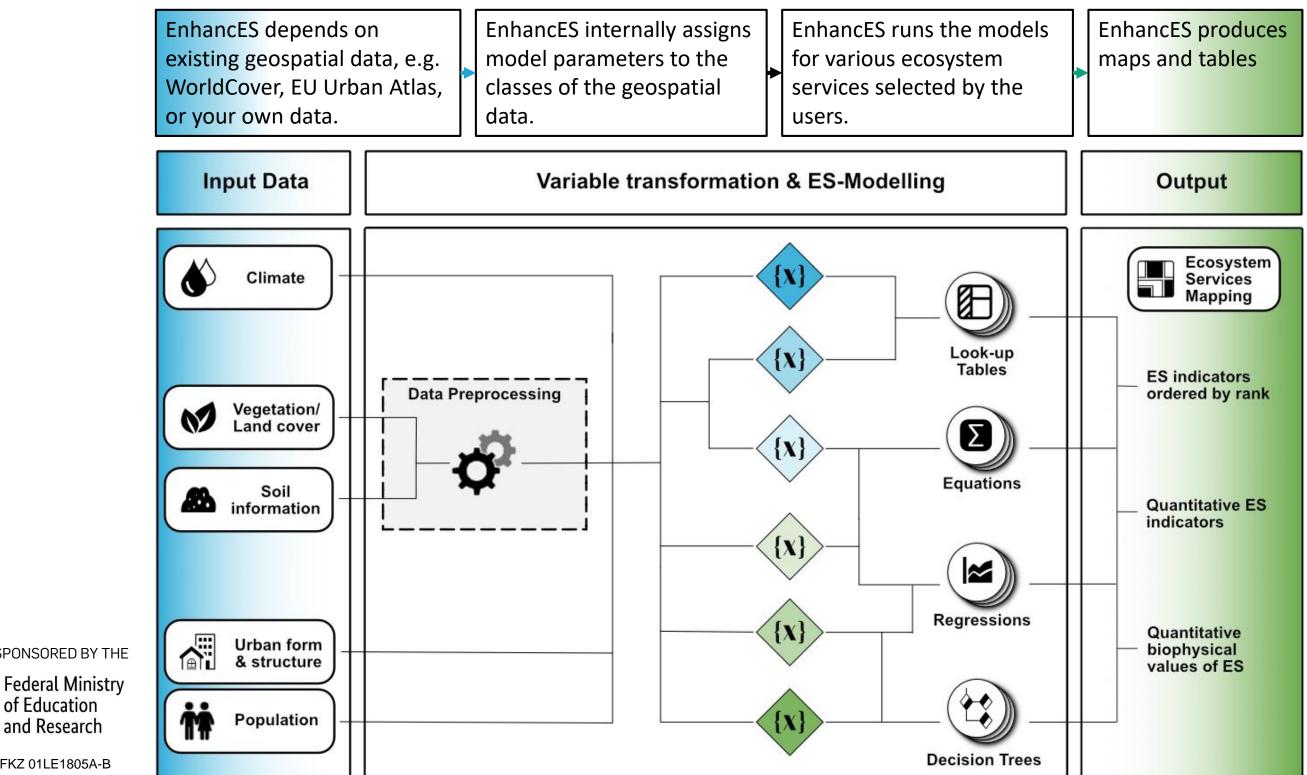








How does EnhancES work?



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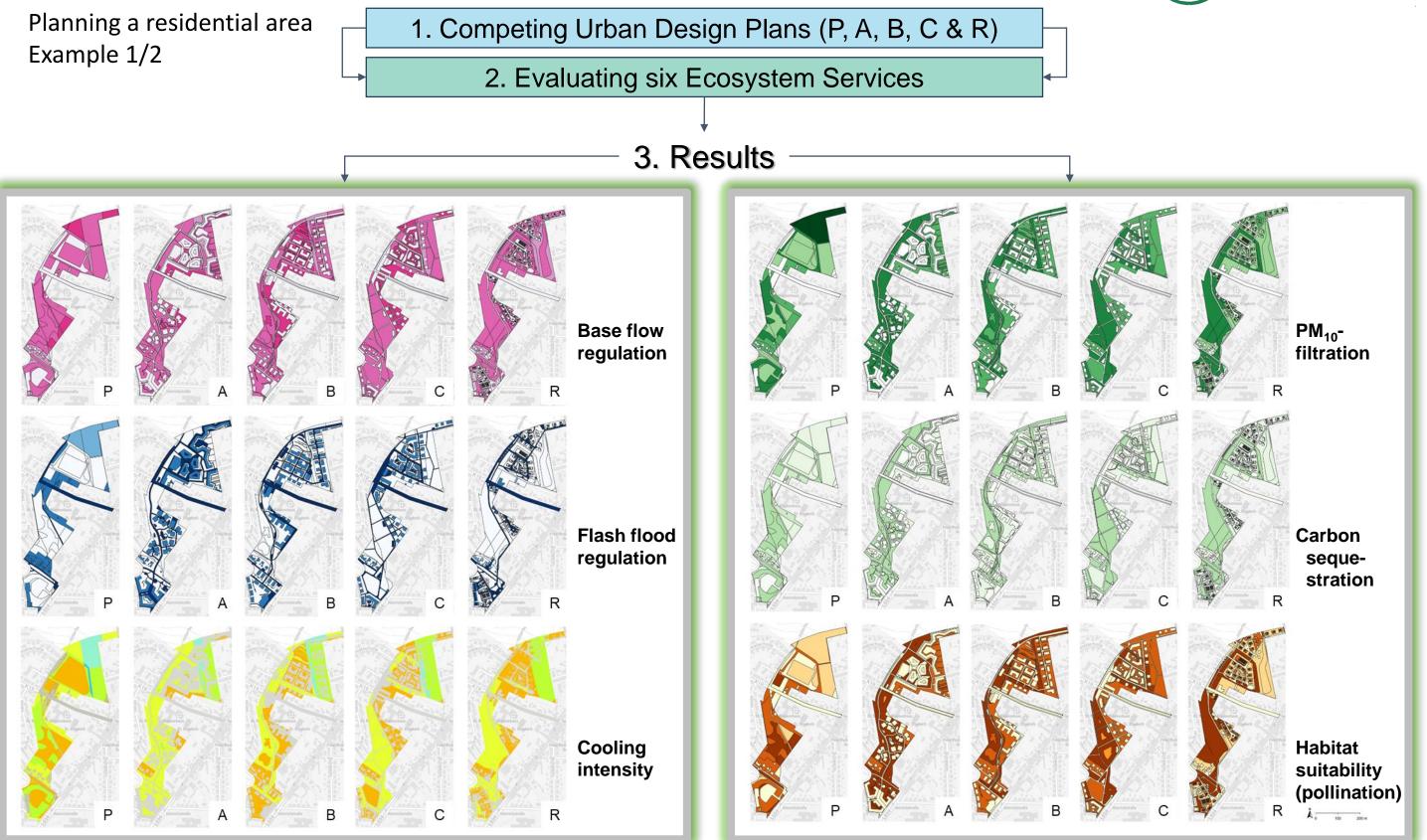
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Planning a residential area Example 2/2

Gains and **losses** of ecosystem service performances of design plans in relation to the present situation.



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By systematically checking planning variants with EnhancES you can optimize ecosystem services to enhance the wellbeing of people.

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Plan nature-based solutions based on ecosystem services

EnhancES empowers actors

- Show ecosystem services on city maps •
- Measure ecosystem services in your city •

EnhancES' application fields

- Assess spatial inequalities and inequities.
- Justify action plans.
- Develop your own ecosystem services standards, specific for your city or region.





- Monitor temporal changes.
- Compare planning variants.
- Decide on measures to enhance ecosystem services in your plan.

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imecogip@rub.de Prof. Dr. Harald Zepp Enhance participatory processes by making ecosystem services transparent to the informed citizens.

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