



Resilience of urban eco-systems: EU biodiversity policy implementation and development and urban biodiversity



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CONTENT OF THIS PRESENTATION

- Current EU and global policy developments
- The MAES EU – wide ecosystem assessment
- EU GI implementation review and Guidance documents
- Urban biodiversity – EnRoute and Biodivercities projects



An important moment for EU and global biodiversity policy

- New Commission, European Green Deal, Biodiversity Strategy 2030
- New global biodiversity framework to be adopted at CBD COP 15 (October 2020)
- Ongoing evaluation of the current EU biodiversity strategy to 2020

Watch this space: www.ec.europa.eu/environment/nature/index_en.htm



Political guidelines for the new Commission 2019-2024

A European Green Deal

"Climate change, biodiversity, food security, deforestation and land degradation go together.

"We need to change the way we produce, consume and trade.

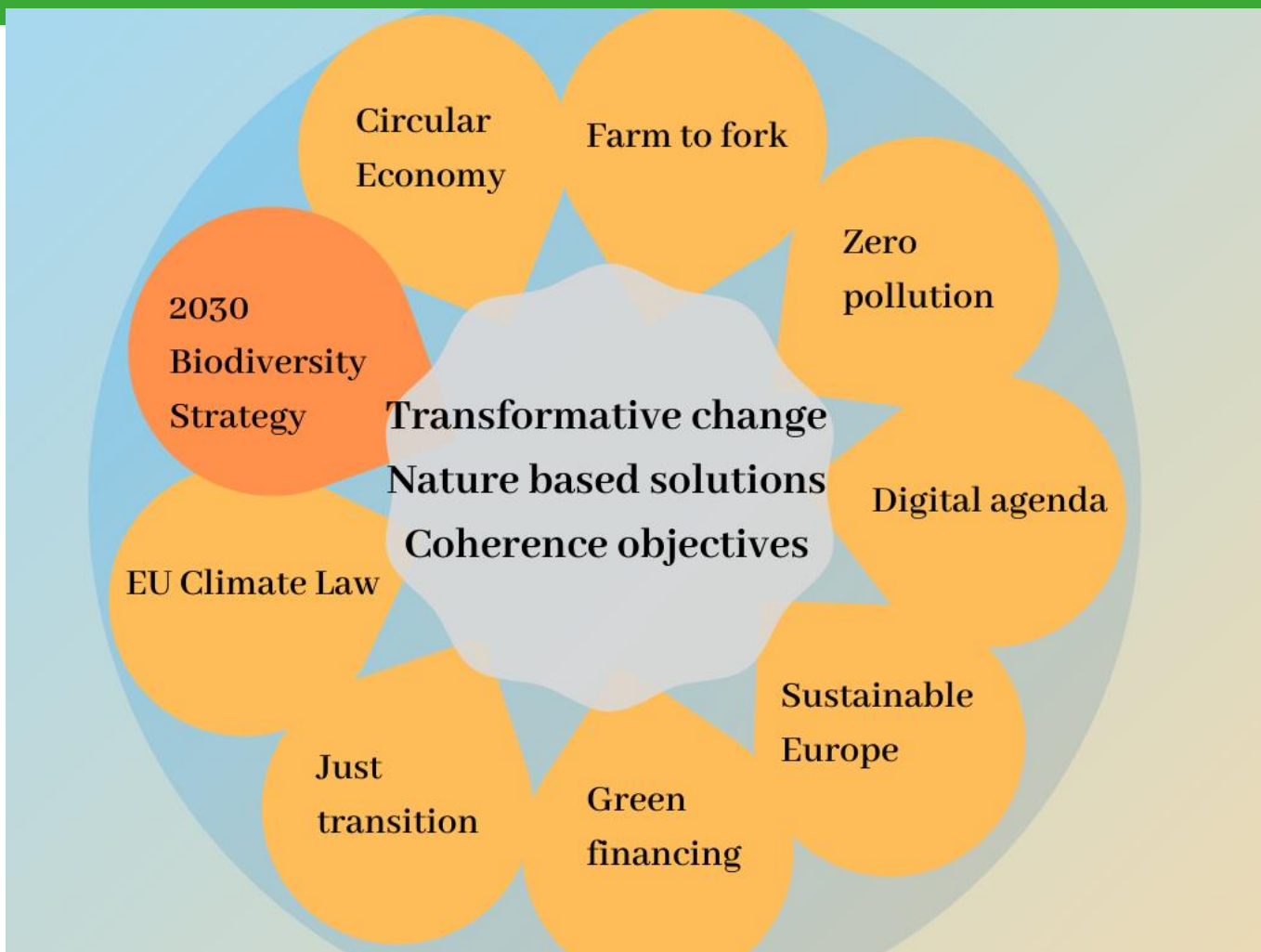
"Preserving and restoring our ecosystem needs to guide all of our work.

"We must set new standards for biodiversity cutting across trade, industry, agriculture and economic policy.

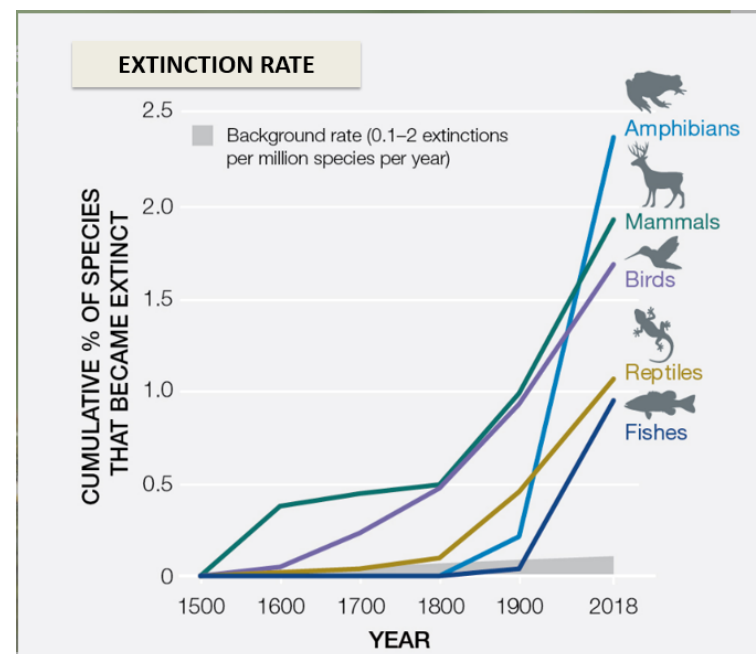
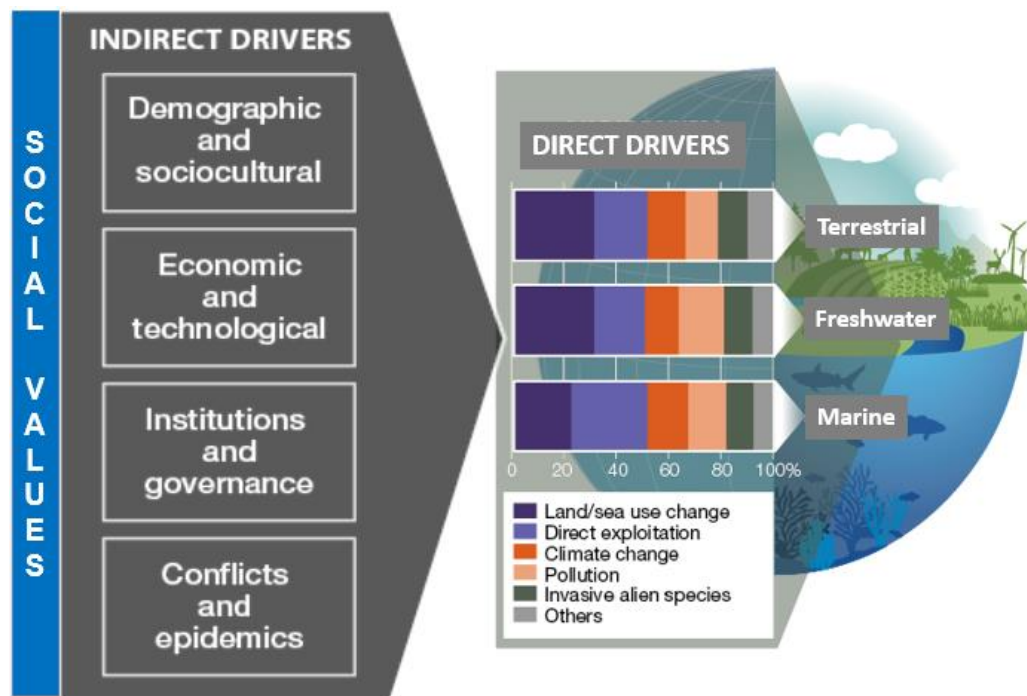
"Europe will work with its global partners to curtail biodiversity loss within the next five years. I want us to lead the world at the 2020 Conference of the Parties to the Convention on Biological Diversity, just as we did at the 2015 Paris Climate Conference."

THE 2030 BIODIVERSITY STRATEGY IN THE EUROPEAN GREEN DEAL

European
Commission



The global biodiversity crisis - biodiversity loss and the degradation of ecosystem services continue in the EU and globally





The EU Biodiversity Strategy to 2020

Headline target: halt the loss of biodiversity and ecosystem services in the EU, and restore them as far as possible, while also helping to avert global biodiversity loss

Target 1:

Fully
Implement
Nature
Legislation

Target 2:

Maintain
and restore
ecosystems
and their
services

Target 3:

Sustainable
agriculture
and forestry

Target 4:

Sustainable
fisheries
and marine
ecosystems

Target 5:

Combat
invasive
alien
species

Target 6:

Help to
avert global
biodiversity
loss

Horizontal measures: partnerships, knowledge, financing



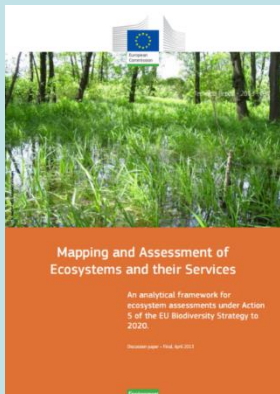
EU non-legislative tools to maintain and restore ecosystems and their services

- ✓ EU MAES (mapping and assessment of ecosystems and their services)
- ✓ EU Pollinators Initiative
- ✓ Deploying Green and Blue Infrastructure
- ✓ EU Guidance on:
 - ✓ Integrating ecosystems and their services into decision-making
 - ✓ Strategic EU level green and blue infrastructure projects
- ✓ Building partnerships (Business and Biodiversity Platform)
- ✓ Financing, including through LIFE-Nature

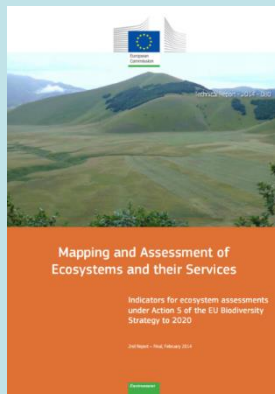
... and mainstreaming into other EU and Member States' policies

Mapping and assessment of ecosystems and their services

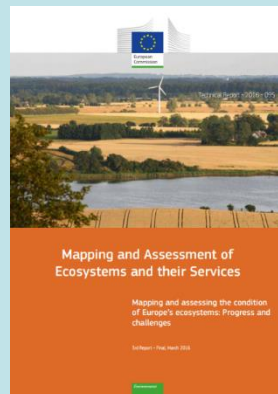
Conceptual framework and typologies



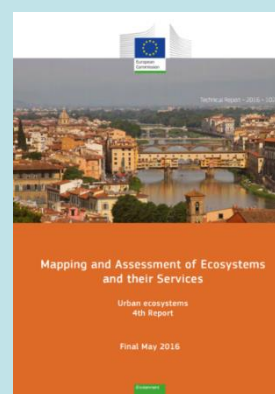
Indicators for ecosystem services



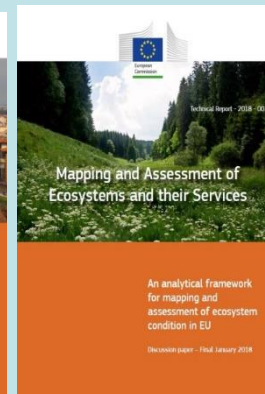
Ecosystem condition assessment



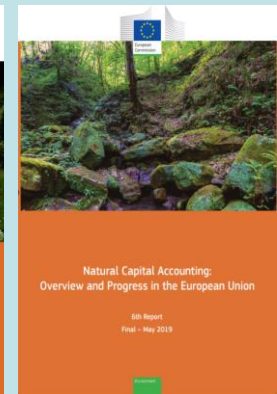
Urban ecosystems



Indicators for ecosystem condition

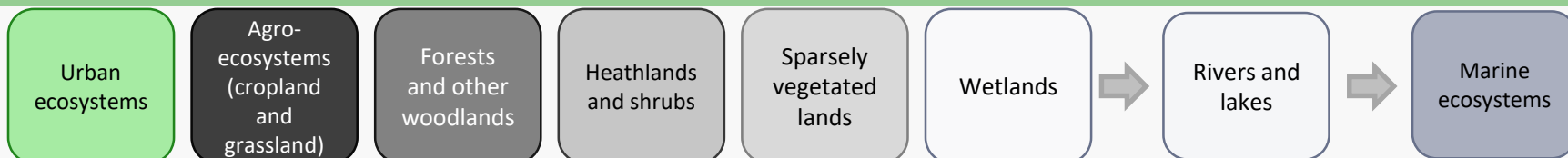


Natural capital accounting



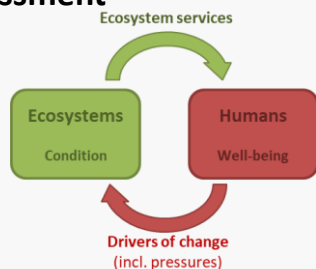
<http://biodiversity.europa.eu/maes>

Thematic ecosystem assessments: Pressures and condition per ecosystem type

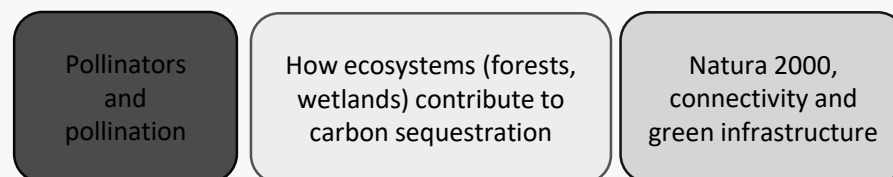


Integrated ecosystem assessment

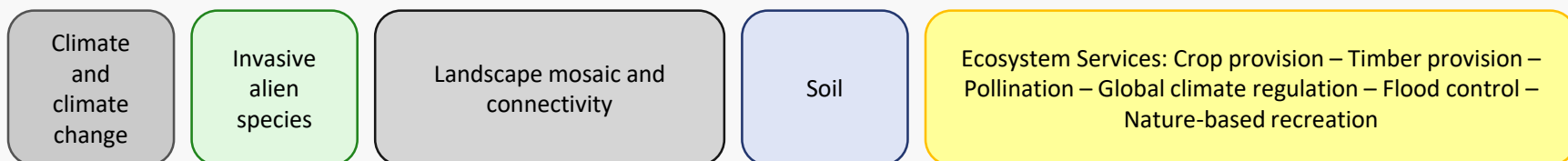
What are the relations between pressures, condition and ecosystem services?



Integrated narratives on key policy issues (examples)



Cross-cutting ecosystem assessments: Pressures, condition and services across ecosystem types





Recently published EU package on ecosystems and Green Infrastructure

**EU Green
Infrastructure strategy
implementation
review**

**Guidance on a strategic
framework for supporting
the deployment of EU-
level green and blue
infrastructure**

**Guidance on integrating
ecosystems and their
services into decision-
making**



Follow-up of EU guidance documents

www.ec.europa.eu/environment/nature/ecosystems/index_en.htm

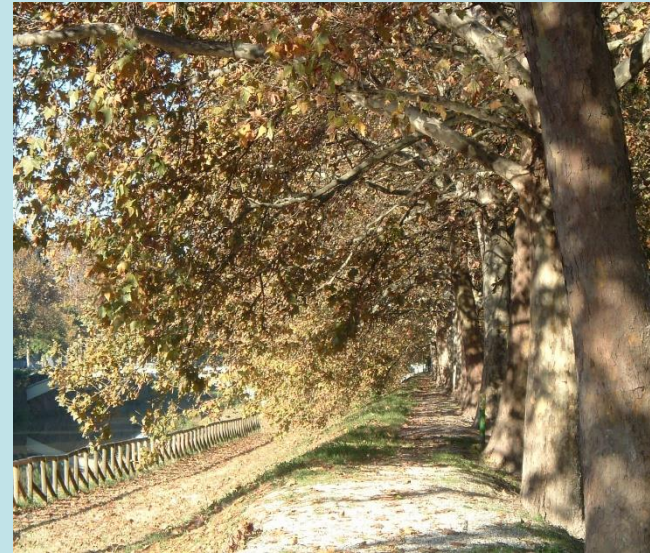


EnRoute: Enhancing Resilience of Urban Ecosystems through Green Infrastructure

Joachim Maes

Urban green infrastructure: a city's life support system

- Network of urban green spaces and natural and semi-natural ecosystems.
- Multifunctional: it enhances biodiversity in cities and delivers essential ecosystem services and benefits.
- EnRoute: Integrating knowledge and scientific evidence on urban green infrastructure in local planning and policymaking



City-lab: Padua

18 EnRoute

city-labs:

How can scientists and policymakers interact to address urban challenges using urban green infrastructure?





Growing with green ambitions

Growing cities with sufficient green space for everyone

Leipzig, Utrecht, Karlovo

BiodiverCities

A focus on maintaining urban trees and biodiversity; embedding the city in a regional ecological network, and urban bee keeping

Lisbon, Limassol, Oslo, Helsinki-Espoo-Vantaa, Padova, Rome

Improving the quality of life

Community based approaches for investing in natural capital and urban green space for recreation

Manchester, Poznan, Trento

Green cities, healthy cities

Different examples of proper planning of how urban green space delivers benefits for physical and mental health.

The Hague, Rome

Sustainable strategic urban planning

Development of multi-functional urban green and blue infrastructure and integration in regional planning.

Antwerp, Valletta, Dublin, Trento

Climate-proof cities

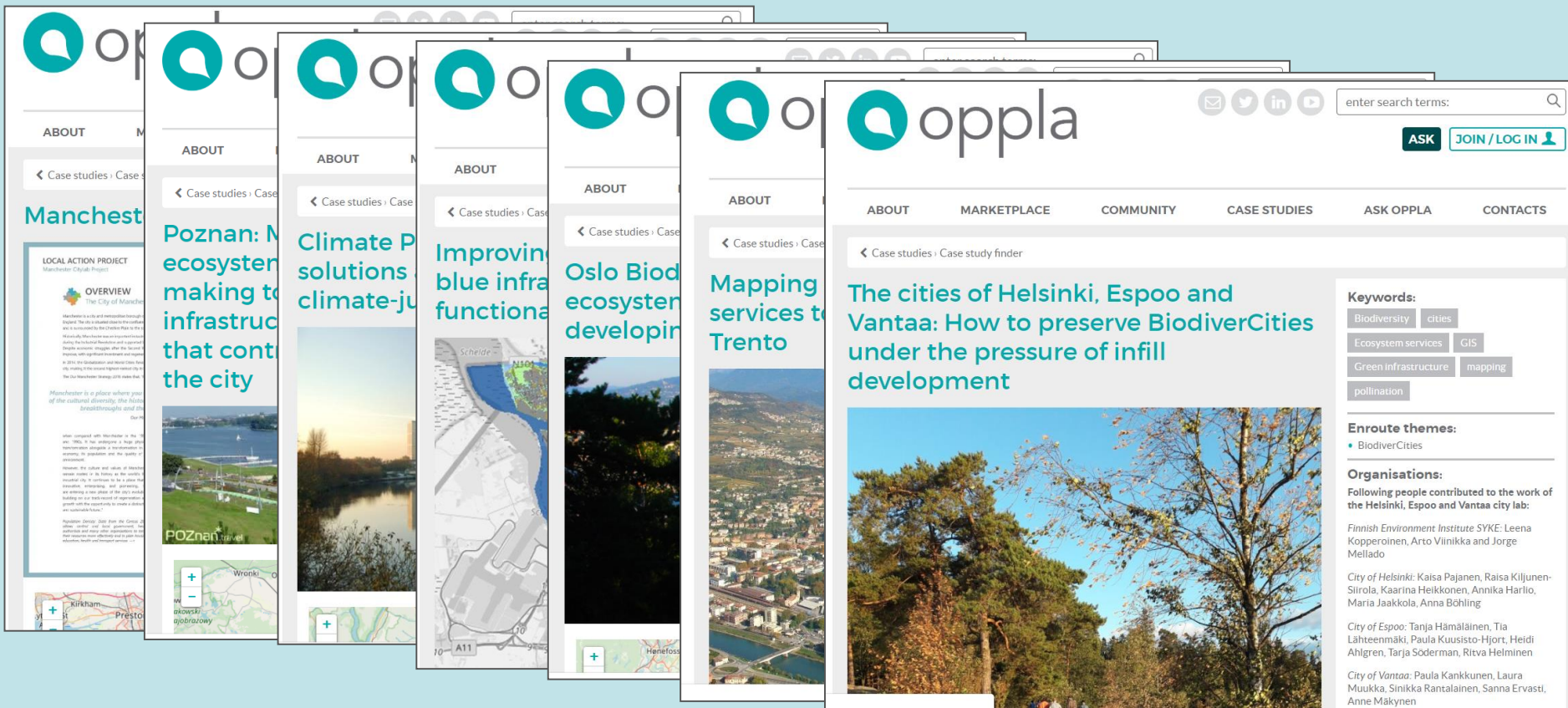
Urban nature to support climate transition

Glasgow, Tallinn, Utrecht

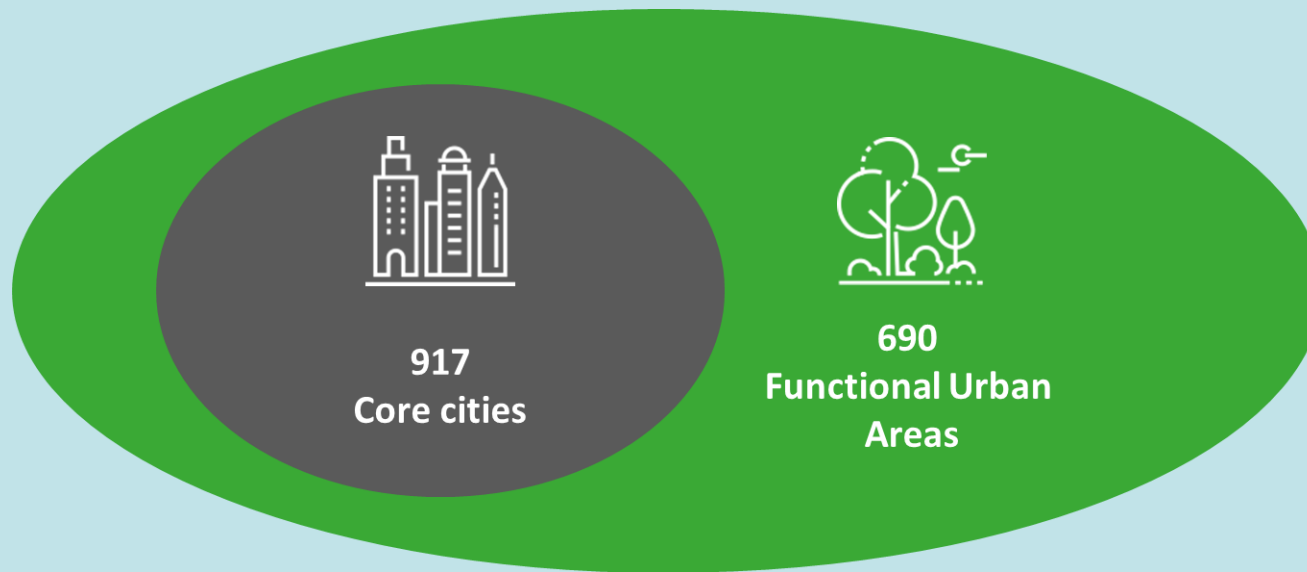


City-lab: Karlovo

<https://oppla.eu/enroute>



Options for upscaling based on an EU wide assessment of urban green infrastructure



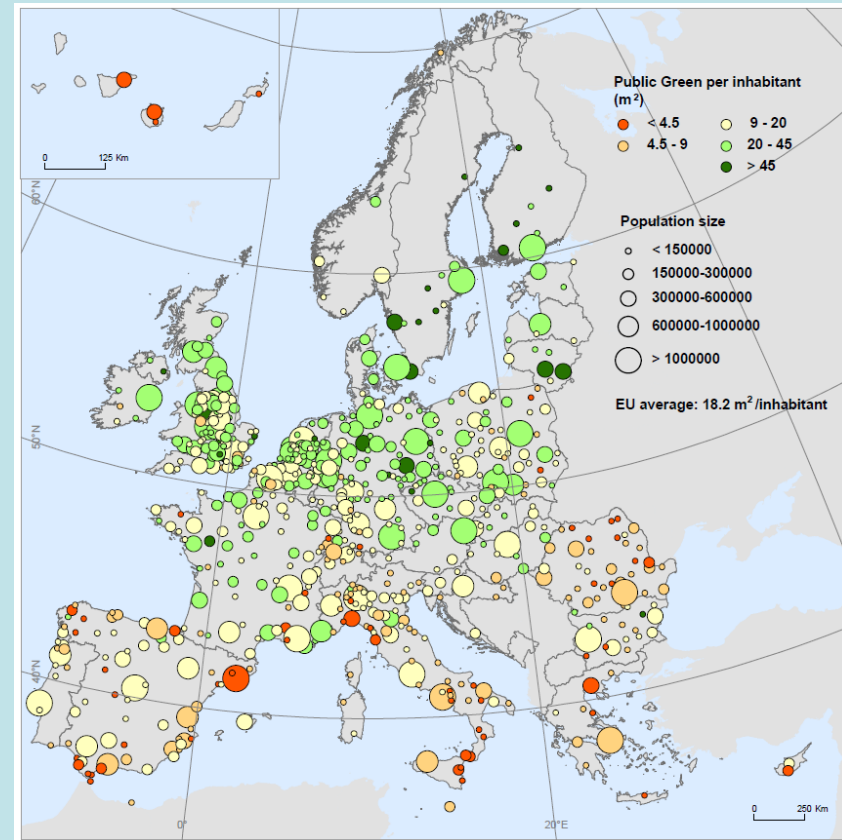
- **25 indicators**
- Green Infrastructure
- Air quality
- Population
- Soil sealing
- Ecosystem services
- Natura 2000

Cities are probably greener than we think but most urban green space is not publicly accessible.

Average coverage (%) of the surface area of core cities in Europe:

→ 39.7% urban green and blue space

→ 2.5% publicly accessible (urban parks): 18 m²/inhabitant



The potential of urban green infrastructure is not fully tapped

- Measuring is knowing: Urban GI map is a key product for urban planning
- A network of urban GI can help achieve local and regional **biodiversity** goals
- Urban GI: a bridge between scientists, policymakers and **citizens** to make cities sustainable and resilient



City-lab: Rome



EP pilot project to follow-up on EnRoute: BIODIVERCITIES

- **Financial support from the European Parliament for a follow-up project with the aims to:**
 - enhance urban green infrastructure to solve many challenges cities face
 - increase scientific knowledge and improve knowledge sharing, tools and innovative approaches
 - improve civil society participation in decision-making.



Summing up – what to expect in the coming months and year:

- EU Green Deal and Biodiversity Strategy to 2030 (early 2020)
- EU-wide MAES ecosystem assessment: 6 December 2019
- Follow-up to EU guidance documents (early 2020)
- Final evaluation of the current EU biodiversity strategy – end 2020
- EU Green Week 2020 on Biodiversity: 2-5 June 2020

Watch this space: www.ec.europa.eu/environment/nature/ecosystems/index_en.htm



Thank you for your attention!

