



NATURE WITHIN CITIES AND CITIES WITHIN NATURE





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30 JUNE 2021 | 16.00 CEST

Agenda

Welcome

- Susana NETO (University of Lisbon) and Catarina ROSETA-PALMA (ISCTE-IUL)

Opening Remarks

Including message from the UN Secretary-General

- H.E. João Pedro MATOS FERNANDES, Portuguese Minister for the Environment
- Inger ANDERSEN, Executive Director, UNEP

Multiple Benefits of NbS

- H.E. Ana ABRUNHOSA, Portuguese Minister of Territorial Cohesion
- H.E. Svenja SCHLUZE, German Federal Minister for the Environment, Nature Conservation and Nuclear Safety (Video)
- H.E. Andrej VIZJAK, Slovenian Minister of the Environment and Spatial Planning (Video)

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- Philippe TULKENS, acting Head of Unit, DG Research & Innovation, Healthy Planet Directorate, European Commission
- Ana DAAM, Head of Division of Sustainable Finance and Adaptation, Portuguese Environment Agency
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From Local Action to Global Solutions: Models for Scaling up NbS

- Duarte D'ARAÚJO, Landscape Architect, Lisbon Municipality
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Q&A Session

Wrap up by Moderators

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Opening Remarks

António Guterres

United Nations Secretary General



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Opening Remarks

Inger ANDERSEN

Under-Secretary-General of the United Nations
UNEP Executive Director



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German Federal Minister for the Environment,
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H.E. Andrej VIZJAK

Slovenian Minister of the Environment and
Spatial Planning (Video)



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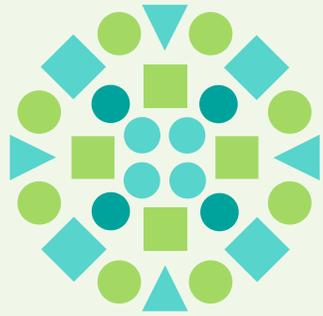
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Head of Division of Sustainable Finance and Adaptation, Portuguese Environment Agency



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Nature Within Cities and Cities within Nature

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Ana DAAM

Head of Unit Sustainable Finance and Adaptation

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**REPÚBLICA
PORTUGUESA**

ENVIRONMENT AND
CLIMATE ACTION

EU Strategy on Adaptation to Climate Change



New EU Adaptation Strategy

- Key initiative of the European Green Deal
- Published on 24th of February 2021
- Focus on better data and better use of existing data, promoting nature-based solutions, integrating financial and economic considerations and stepping up action at international level



Member States Exchange of views

- EU environment ministers held exchange of views in March and April
- At technical level 3 months of debates



Council Conclusions adopted on the 10th June

- Role of nature-based solutions in building climate-resilience, helping to maintain or enhance biodiversity, as well as protecting and restoring ecosystems
- To facilitate and foster cooperation between local, regional and national levels



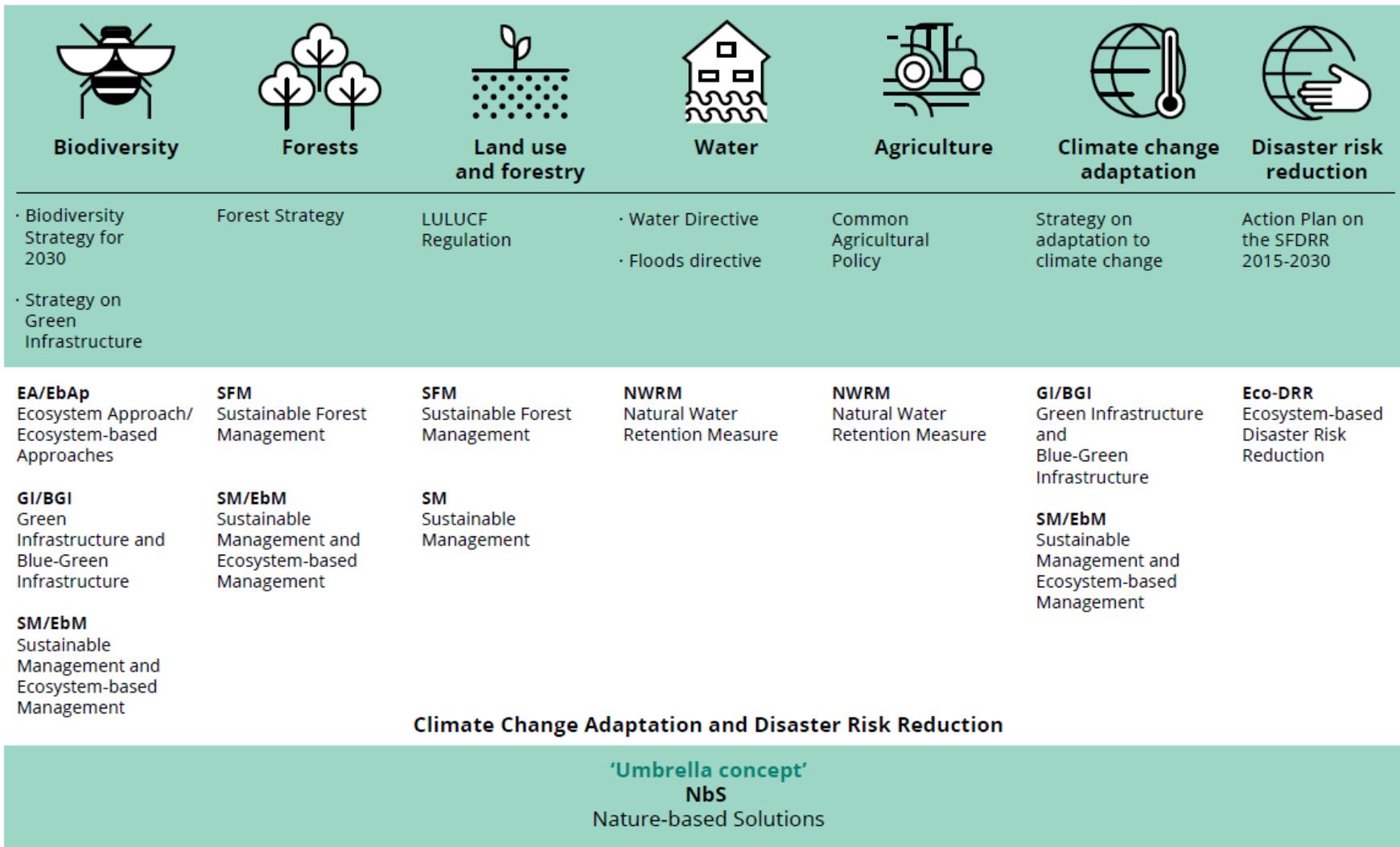
Alone we are strong... together we are stronger!



NBS in the EU policy sectors

Overview of nature-based concepts to climate change adaptation and disaster risk reduction and their related EU policy sectors

1 NBS benefits several sectors



Note: CAP, common agricultural policy; LULUCF, Land use, land use change and forestry; SFDRR 2015-2030, Sendai Framework for Disaster Risk Reduction 2015-2030.

Source: EEA Report N.º 01/2021

Portuguese Framework on Adaptation

Commission for Climate Action

Coordination Group

Overall coordination:

Portuguese Environment Agency (APA)

Thematic areas coordinators

Sectoral groups coordinators

Autonomous Regions

National Association of Portuguese Municipalities

Advises

Scientific Panel

Integrated approach to Boost NBS

Environmental Fund

Reports

Thematic Areas

Sectoral WG

Research & Innovation

Financing Adaptation

International Cooperation

Communication & Propagation

Mainstreaming Adaptation – Spatial Planning

Mainstreaming Adaptation – Water Resources

Agriculture

Biodiversity

Economy

Energy

Forests

Health

Safety of people and goods

Transports and communications

Coastal areas

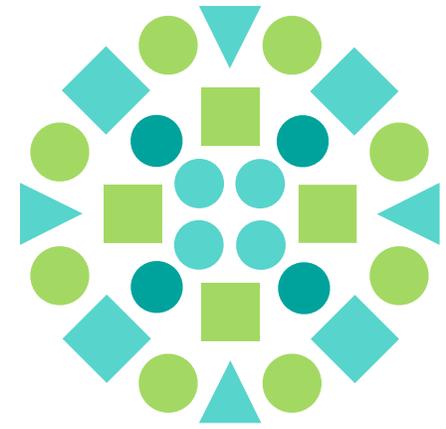
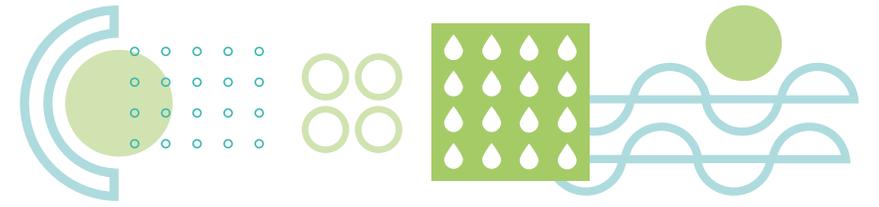
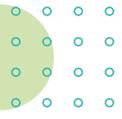
OBJECTIVES NAS 2025

Improve the level of knowledge on climate change

Implement adaptation measures

Promote mainstreaming in sectoral policies

National Roadmap for Adaptation 2100
in progress



THANK YOU

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tiny.cc/NbS30Jun

CO-DEFINING NATURE-BASED SOLUTIONS FOR A MORE JUST CITY. ACTING IN LISBON.

ROSÁRIO OLIVEIRA



THE FUTURE
WILL ONLY
CONTAIN WHAT
WE PUT IN-
TO IT NOW.
MAY 1968.

TERO

Within 30 years when urban areas will presumably hit 2/3 of the world population... imagine a city where buying your favorite products leads to more nature, not less, and where your job can withstand environmental and economic shocks; where the air you breathe is pure and fresh, re-used water is widely used, soil is producing safe food, waste is recycled and where birdsong no longer has to compete with the noise of traffic.



Densification vs. De-densification

Garden city vs. City in a garden

...

Solutions actually exist to allow cities to minimize risks and crises reinventing themselves for the benefit of nature, the economy and society.

**These are Nature-based Solutions.
They are crucial towards a just city.**



<https://www.theguardian.com/cities/2016/may/26/story-cities-future-growing-megacities-waste-floating-smart>

A just city is where social conditions, environmental quality and health are positively correlated.

Urban policies should be oriented to guarantee an equitable access and distribution of at least:

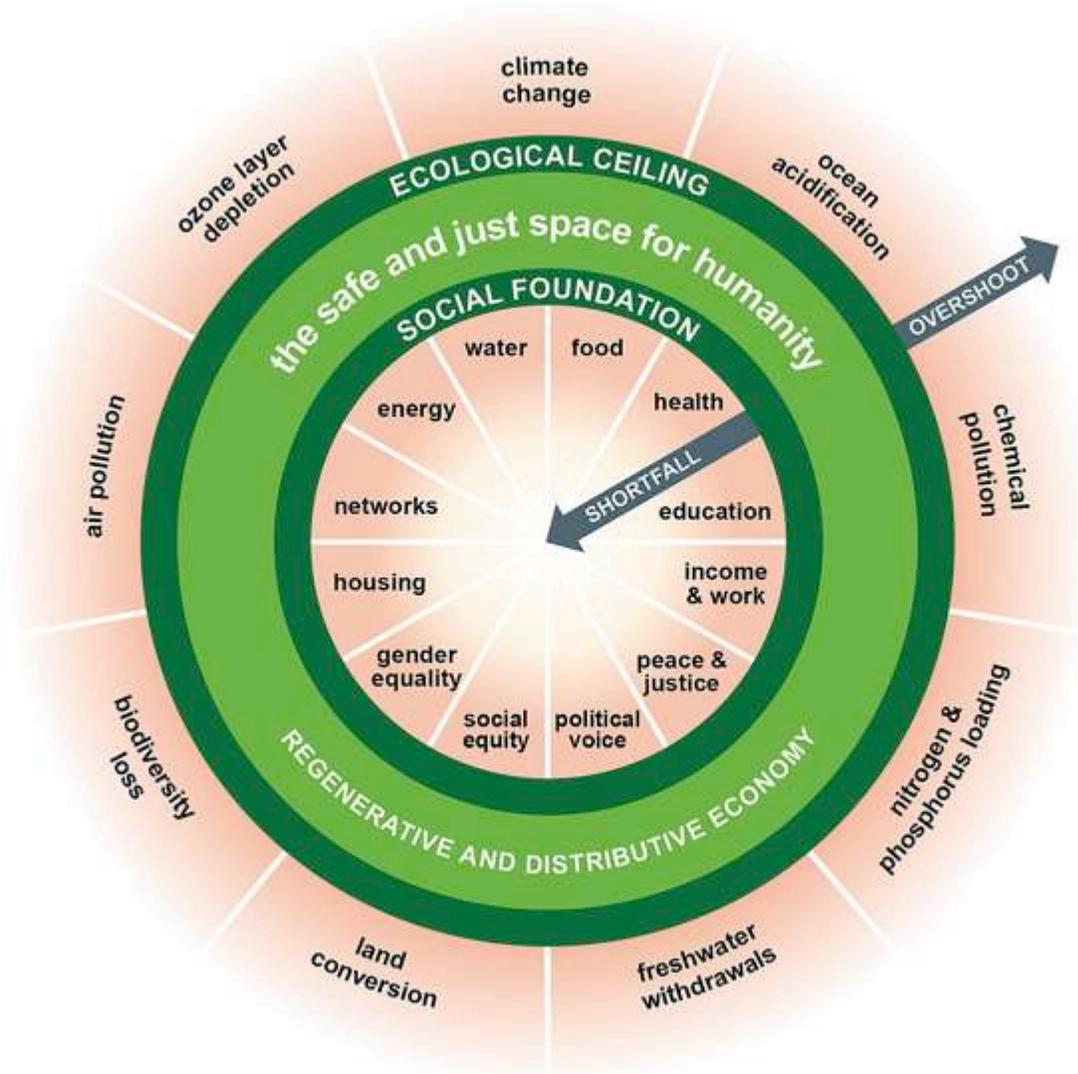
- Clean water, air and soil
- Safe and fresh food
- Clean energy
- Climate adaptation
- Waste treatment and recycled

The right to live in an urban landscape quality according to the principle of 'one health'.

Three different aspects of environmental justice:

- **Distributive justice:** just or suitable distribution of environmental resources;
- **Equitable access:** equal access to environmental resources;
- **Procedural justice:** equal opportunities to take part in informative, planning and decision-making processes for all those directly affected by environmental interventions.

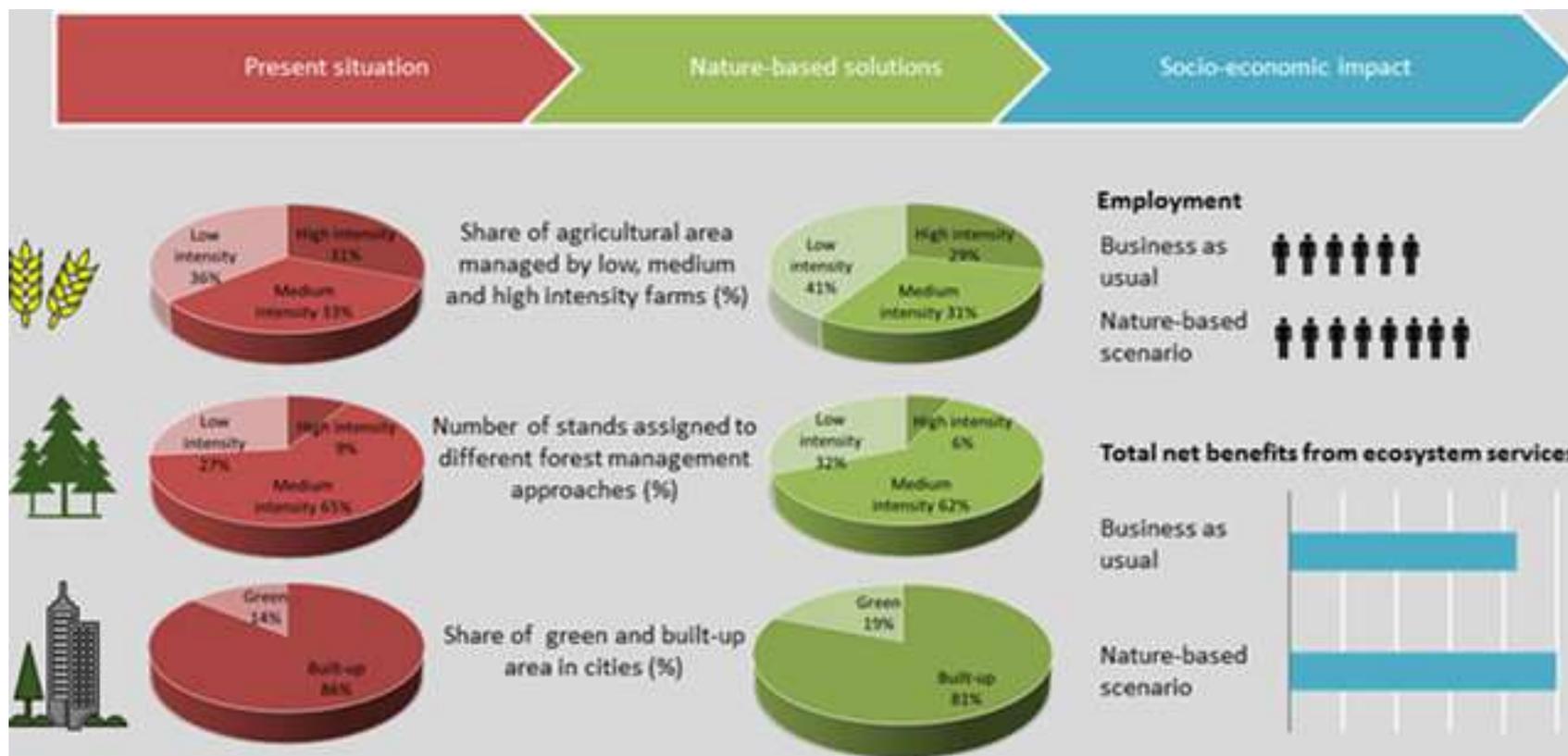




Seven ways to think like a 21st century economist

Seven Ways to Think:	From 20th-Century Economics	To 21st-Century Economics
1. Change the Goal	GDP	the Doughnut
2. See the Big Picture	self-contained market	embedded economy
3. Nurture Human Nature	rational economic man	social adaptable humans
4. Get Savvy with Systems	mechanical equilibrium	dynamic complexity
5. Design to Distribute	growth will even it up again	distributive by design
6. Create to Regenerate	growth will clean it up again	regenerative by design
7. Be Agnostic about Growth	growth addicted	growth agnostic

Potential of a nature-based economic scenario: increasing the nature-based use of farmland, forests, and urban areas creates additional jobs and increases total socioeconomic benefits of ecosystem services.

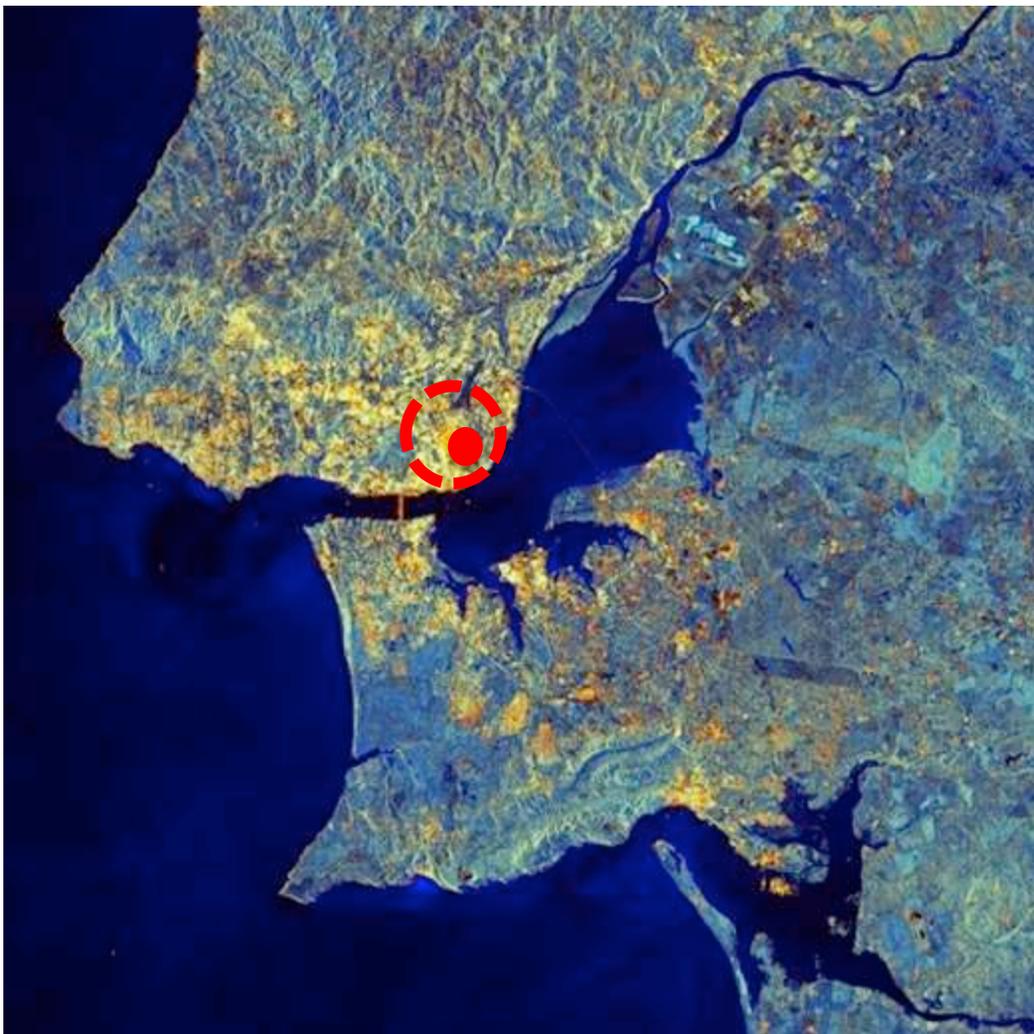






CONEXUS in a H2020 project that brings together community, private, public and research partners to experiment with **novel co-production methods to deliver NBS innovations in 'Life-Lab' pilots**, using a place-based approach to solve problems together with citizens (in São Paulo, Bogotá, Santiago, Buenos Aires, Lisbon, Barcelona and Turin).

The combined palette of socio-cultural, ecological and governance contexts presents the opportunity for specific **urban policy and practice**.



LISGREEN LIFE-LAB

It is an experimental project on urban sustainability to co-create NbS that might be assessed and to produce collaborative knowledge in real context.

It is an opportunity to lead innovation in terms of concepts and perspectives on nature and cities through a **Nature Based Thinking** (NBT) towards a transformative change and on how to make it happen.



LISGREEN LIFE-LAB

- To co-produce ecological services that may improve quality of life through NbS;
- To raise awareness about the importance of urban transformation by integrating a green infrastructure that needs active citizen engagement for place-making and place-taking whilst promoting social cohesion;
- To influence decision-makers on introducing a NBT on policy design, implementation and evaluation from an inter-sectorial multi-scale and multi-stakeholders perspective.





CONEXUS

Urban nature connects us
Conectados por la naturaleza urbana
Conectados pela natureza urbana



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 867564

In the **LISGREEN Life-Lab**, NbS are being delivered in three deprived urban districts that form part of the Eastern Green Corridor, a key priority in biodiversity strategy.

The implementation of the **ecosystem restoration schemes is ensuring a strong focus on social inclusion**, demonstrating place-keeping principles, and enhancing ecological connectivity in the city's urban districts.

Meadows benefiting pollinators with strong resilience to water scarcity is being delivered as opposed to lawns along with tiny forests.

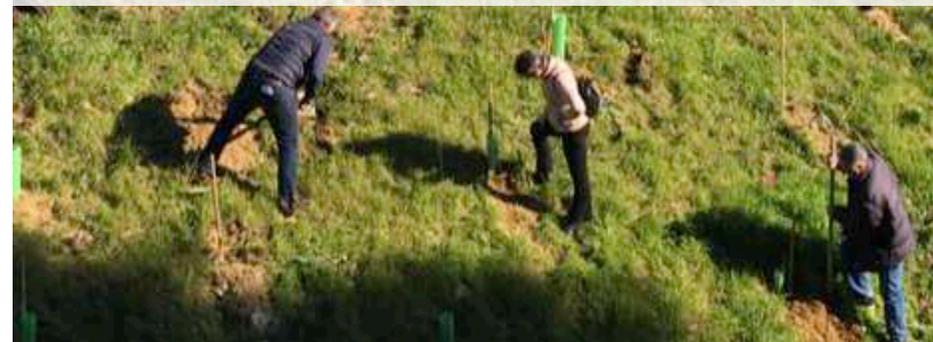


THANK YOU FOR YOUR ATTENTION

ROSÁRIO OLIVEIRA

rosario.oliveira@ics.ulisboa.pt

<https://www.conexusnbs.com>





NATURE WITHIN CITIES AND CITIES WITHIN NATURE

30 JUNE 2021 | 16.00 CEST

Agenda

Welcome

- Susana NETO (University of Lisbon) and Catarina ROSETA-PALMA (ISCTE-IUL)

Opening Remarks

Including message from the UN Secretary-General

- H.E. João Pedro MATOS FERNANDES, Portuguese Minister for the Environment
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From Local Action to Global Solutions: Models for Scaling up NbS

Duarte DARAÚJO

Landscape Architect, Lisbon Municipality

How does an Ecological Landscape approach boost an NBS strategy?

The NBS program of green corridors and the embedded ecosystem services.

> From green spaces to green infrastructure → **ecosystem services**

> From green spaces design to NBS → **natural landscape design**

WATER / AIR / SOIL
ECOSYSTEM
SERVICES

SOCIAL
INCLUSION

LOCAL FOOD
PRODUCTION

LOW-COST
IMPLEMENTATION
&
MAINTENANCE
(BENEFITS)

ACTIVE
MOBILITY

ENERGY
SAVINGS

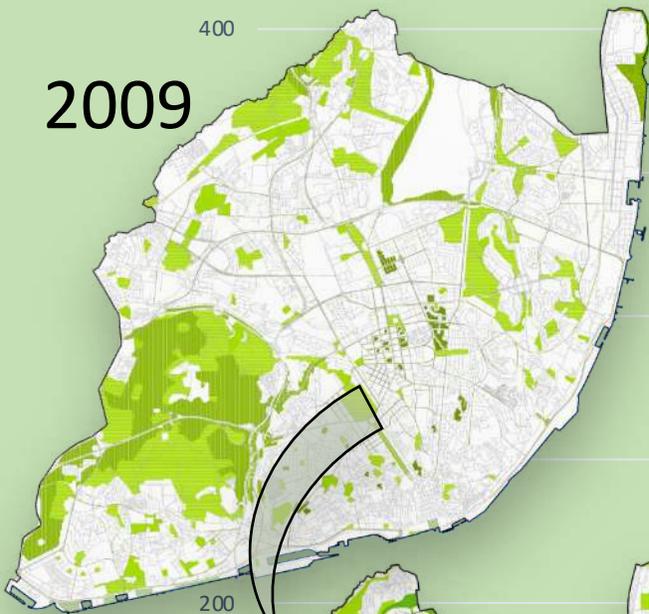
NATURAL
HAZARDS
REDUCTION

HEALTH
BENEFITS
(ECONOMY)

DUARTE D'ARAÚJO MATA
MUNICIPALITY OF LISBOA



2009

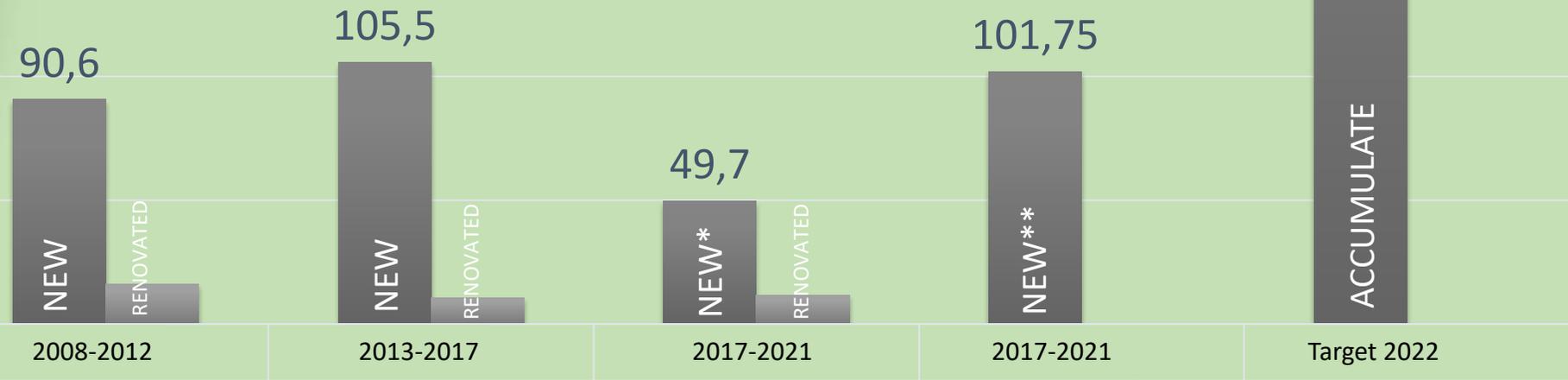


When and Why Did Lisbon start the NBS transition?

2021



30.06.2021 = 297,85



*including underway

**including in public tender

+ 9 Green Corridors | + 300 hectares of new green | + 15% new green in the city



Carlos Fernandes e Maria dos Anjos Fernandes
Parque Hortícola da Quinta das Flores
Fotografia de Nuno Correia (C.M.L.)

HORTAS DE LISBOA
LISBON VEGETABLE GARDENS

20 000 m ² de hortas	10 000 m ² de hortas	10 000 m ² de hortas
10 000 m ² de hortas	10 000 m ² de hortas	10 000 m ² de hortas
10 000 m ² de hortas	10 000 m ² de hortas	10 000 m ² de hortas

- URBAN ALLOTMENT GARDENS (IMPLEMENTED)
- RAINFED MEADOWS (IMPLEMENTED)

“Yellow in Summer
Green in Autumn and Winter
and all colours in Spring”



Amarelo no verão,
 verde no outono
 e inverno,
 e de todas as cores
 na primavera!



- DRAINAGE NBS (IMPLEMENTED)
- DRAINAGE NBS (UNDERWAY)



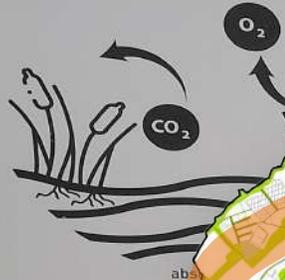
2009



2019

- MASSIVE PLANTING (IMPLEMENTED)
- MASSIVE PLANTING (UNDERWAY)

SOLUÇÕES DE BASE NATURAL PARA TRATAMENTO DE ÁGUAS EM LAGOS



Depuração biológica - sistema de biorremediação

Muitas vezes, a acumulação de matéria orgânica e o crescimento excessivo de algas com águas escuras.

A depuração biológica

libera flutuantes, com equilíbrio saudável, e evita a acumulação de matéria orgânica. Planta solução, q&w.com



● ECOLOGICAL DEPURATION IN LAKES

duarte.mata@cm-lisboa.pt

DUARTE D'ARAÚJO MATA
MUNICIPALITY OF LISBOA



THANK YOU FOR
YOUR TIME!



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Angela CRUZ GUIRAO

Director of Green and Sustainable Development, Campinas City Hall

Nature Within Cities and Cities within Nature

Ângela Cruz Guirao

**Director of Green, Environment and Development Sustainable
Municipality of Campinas**

campinas.sp.gov.br/governo/meio-ambiente/
meioambiente@campinas.sp.gov.br



→ **PLANNING & LEGAL FRAMEWORK**

- ◆ Integrated Planning: Environmental, Water Resources, Green Areas, Sanitation, Education -- Municipal Policy of Environment
- ◆ GHG Inventory of the Metropolitan region
- ◆ Municipal Policy of Climate Change and Atmospheric Pollution

→ **ENGAGEMENT & IMPLEMENTATION**

- ◆ Planting of more than 400,000 seedlings of native species
- ◆ Ecological Corridors and passages of arboreal fauna
- ◆ Linear Parks
- ◆ RECONNECTA RMC Program: Connectivity Area
- ◆ More than 200 biodigestor septic tanks for rural properties
- ◆ Transition to electric mobility of the public transport vehicle fleet
- ◆ Cycle Plan: more than 70 km of cycle routes already implemented

→ Strategic partnerships and alliances



Aliança pela
Ação Climática





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Wrap up by moderators

Susana NETO, University of Lisbon

Catarina ROSETA-PALMA, ISCTE-IUL



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