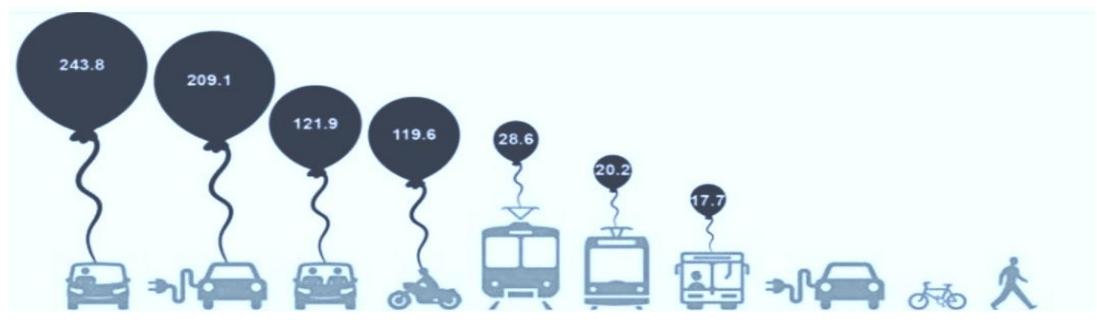
NATURE BASED SOLUTIONS: MORE THAN JUST GREENING THE CITY?

Unpacking nature-based solutions for more sustainable cities

Judith Ryser & Teresa Franchini
CORP 2023

NATURE AND HUMANS

- Humans: domination exploitation of nature
 - -> adverse climate change + biodiversity decline



NBS: making a difference?

re existing planning tools: environmental, ecological, greening +

NATURE AND HUMANS

Planning: alternative response

NBS => ecological, sustainable, liveable human made environment



NBS effectiveness?

re existing planning tools: environmental – ecological – greening +

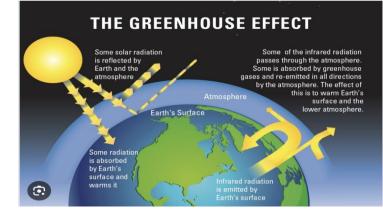
CLIMATE CRISIS AND CITIES

• Scientific evidence: accelerating global warming

• Urgent Actions: policies, measures, implementation at all levels of government

 NBS - new tool: linking biodiversity and people adopted by UN (2005), defined by IUCN (2013)

=> relation with traditional approaches?







NBS IN PRACTICE

Regional level

focus:

landscape conservation, nature restoration, rewilding

human impacts:

social, economic, cultural, institutional





NBS IN PRACTICE

- Urban level
- focus: eco-districts, green and blue infrastructure, unsealing soil
- impacts: heat island reduction, flood prevention, improved air quality



LIMITS AND RISKS OF NBS

- definition: no consensus
- scope: environment above social and economic benefits
- evaluation: no agreed indicators and metrics
- financing: lack of coordination between government levels & with stakeholders
- collateral effects: may maintain status quo & economic elite; inadequate public participation & community consent
 - -> prone to greenwashing & "green gentrification"?
 - -> not different from existing "green" technologies?



REDUCING UNCERTAINTY

IUCN Global Standard

- -C1: transparent, inclusive consultation processes
- -C2: local context based design
- -C3: net nature gains
- -C4: equitable distribution of costs and benefits
- -C5: inclusive, transparent governance processes
- -C6: equitable trade-offs between objectives, benefits and economic rewards
- -C7: managing uncertainties through continuous monitoring
- -C8: integration into appropriate policy context

more regulation?



or more creative action?







NBS, PLANNING AND PLANNERS

- current NBS experiences: punctual, sectoral, with diverse spatial coverage, implemented ad hoc, scarcely included in traditional planning instruments
- opportunities for regulatory structures: making NBS, public participation and budget availability mandatory; devising monitoring and evaluation mechanisms for long-term performance (IUCN Global Standard?)
- opportunities for planners: transposing the NBS concept into new tools to innovate development plans and planning regulations
- opportunities for planning science: research towards NBS, educating NBS specialists

BY WAY OF CONCLUSION

• facts: studies show that NBS contribute to alleviating climate change and improving urban and regional sustainability.

 planning instruments: incorporating NBS into planning policies could foster their long-term viability.

 planning: the vertical and horizontal linkages of NBS policies could bring cohesion to a fragmented planning system, subjected to multiple uncoordinated and often contradictory policies and governance.



ANNEX: IUCN Global Standards (2020)

for national, municipal and local governments, planners, businesses, donors, financial institutions and NGOs

- C1: oriented to the challenges of affected societies, including transparent and inclusive consultation processes
- C2: design adapted to the complexity and uncertainty of local contexts
- C3: net gain in terms of biodiversity and ecosystem protection, functional integrity and connectivity
- C4: economic viability that distributes costs and benefits equitably in the short and long term
- C5: inclusive, transparent and empowering governance processes
- **C6:** equitable trade-offs between objectives, benefits and economic rewards
- C7: adaptive management of uncertainties through continuous monitoring and regular assessments
- **C8:** integration into an appropriate jurisdictional, sectoral and national policy context

CORP23 Keynote Judith Ryser picture web references

1 & 17

photo Judith Ryser (free)

- 3 Enlightenment protagonists
- 4 Enlightenment protagonists (cont)

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