





Lorenzo Sallustio

University of Molise

Assessing greenspaces in built-up areas of Italy to support large-scale policy and planning

INTRODUCTION

Trees can be considered a "natural capital" for human well-being. Among the others, these benefits depend on the extension and spatial distribution of greenspaces in built-up areas (GSB)



AIM: large scale monitoring of the abundance, coverage and average size of GSB in Italy, including small-size patches, lawns, gardens and other greenspaces dominated by grasslands instead of only urban forests as defined by the FAO classification system



WHY?

Italy

Highly scattered and fragmented urban mosaic (sprawl and sprinkling)

Statistical approach Accuracy, reliability, reduced times and costs, comparison with other studies

Non-forested and small patches

They contribute to enhance human wellbeing in urban areas and offer the opportunity to implement NBS

GSB in relation to population density The contribution of GSB in offering ecosystem services is related to the local beneficiaries (*serviceshed*)

Methodology

MATERIALS AND METHODS





KEY FINDINGS & IMPLICATIONS

✓ Greenspaces occupy 7.9% of built-up areas (170k ha) and are mainly dominated by forested GSB

✓ GSB availability decreases moving

Unsealed: 890k ha 1 GSB: 170k ha (92% forested)

2

89% of the forested GSB> 0.5 ha, with

average patch size of 4.6 ha (± 2.5)

Average (27.2 m2 GSB/inh)

(vs 9-11 m2/inh WHO threshold)

F-GSB have less patches but 3 occupy a higher surface than SW

Forested GSB follow a distribution gradient of population density

CPSP

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*lorenzo.sallustio@unimol.it

from densely to thinly populated areas \rightarrow shift from an **intensive** to an **extensive** urban pattern (suburbanization)

✓ Urban densification (e.g. more compact settlements) is a good strategy to hamper urban sprawl \rightarrow urban densification vs greenspaces availability

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Original article

The green side of the grey: Assessing greenspaces in built-up areas of Italy

L. Sallustio^{a,b}, A. Perone^{a,*}, M. Vizzarri^a, P. Corona^b, S. Fares^b, C. Cocozza^c, R. Tognetti^{d,e}, B. Lasserre^a, M. Marchetti^a