

# Review of: "Urban Green Infrastructure Planning for the Bangkok Metropolitan Region: An Empirical Study for Greenspace Expansion"

G rard Merlin<sup>1</sup>

<sup>1</sup> Universit  Savoie Mont Blanc

Potential competing interests: No potential competing interests to declare.

The topic is very interesting with an approach combining GIS and HAP for urban greenspaces development.

I have some remarks and comments to improve this paper.

There is too much repetition in the different paragraphs of the introduction. To avoid it, you must organize this part differently. You can organize by themes such as water management, heat islands, etc. The introduction needs to be improved to be more concise and clearly show the problem.

The choice of the weighting value for each parameter is not sufficiently developed and justified. What do you think about assigning zero or negative weight to certain classes, as observed in the literature?

Concerning paragraphs 3.2.3 and 3.2.5:

How are distances calculated? Is it a mean for a determined location (central point of the considered area)?....

Why a specific item for roads when in 3.2.3 you identify roads as an infrastructure?

Minor remarks:

-In the summary, the acronym BMA is not defined, and sometimes in other places of the text, BMR is used instead of BMA. Can you clarify this?

-The role of plants is clearly defined for the absorption of CO<sub>2</sub> through the process of photosynthesis, but the role for the remediation of other air pollutants is not as defined. I suggest writing this sentence in the introduction. *By generating oxygen, absorbing carbon dioxide, and facilitating phytoremediation processes, they enhance air quality, lessen the impact of the urban heat island, and provide habitat for many wildlife species (Derksen et al. 2017).*

-In the sentence "Environmental consequences include the depletion of biodiversity, air and water pollution,..." I do not understand the origin of the environmental consequences cited. I guess this is not due to urban areas. Can you clarify from what problem the environmental consequences arise?

-*"A myriad of environmental factors,..."* a myriad is not an adequate term because it is synonymous with innumerable,



immeasurable.