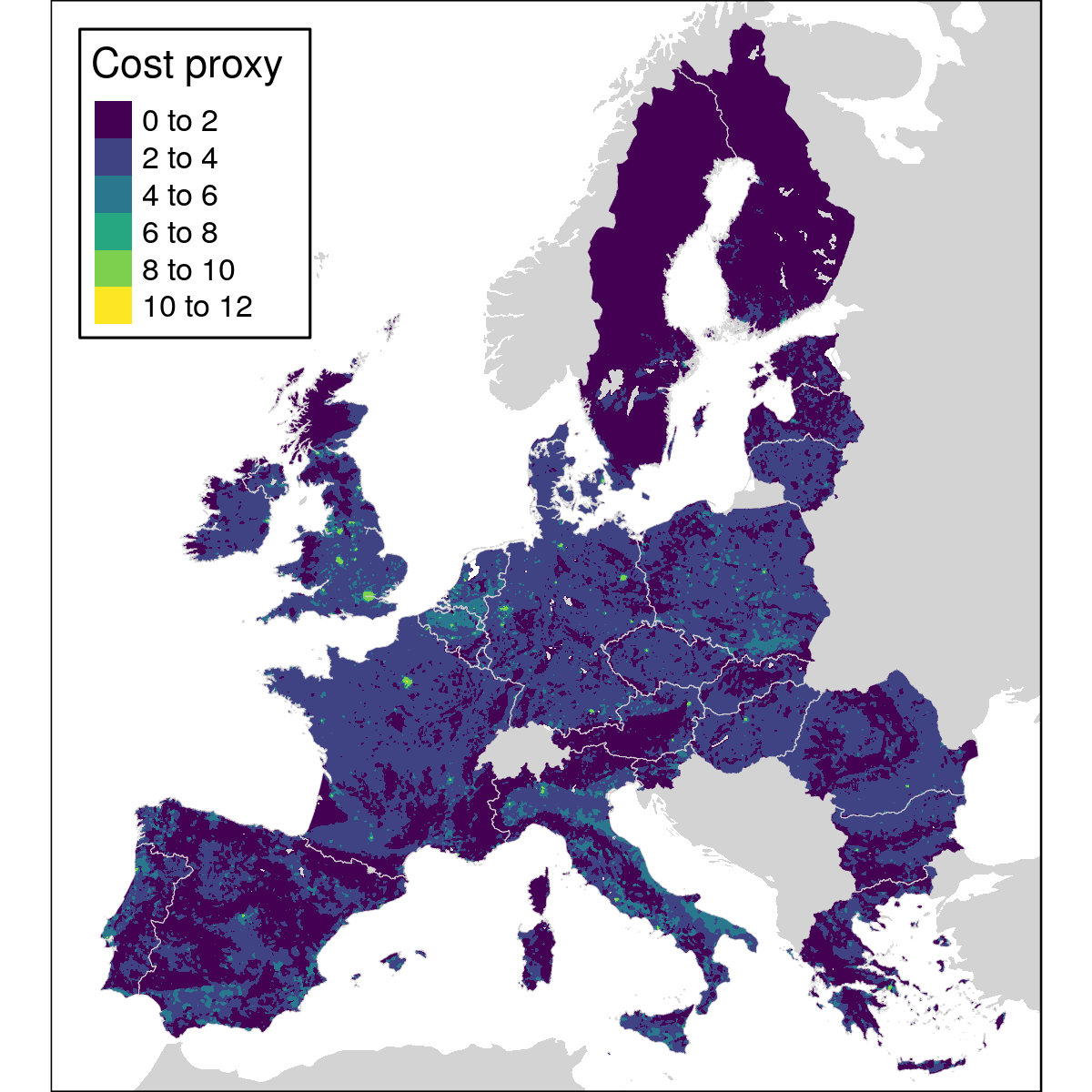
**Comparing spatial prioritization methods for biodiversity conservation and ecosystem service supply in Europe - Supplementary Material**

**Joona Lehtomäki**, **Luigi Maiorano** and **Peter verburg**

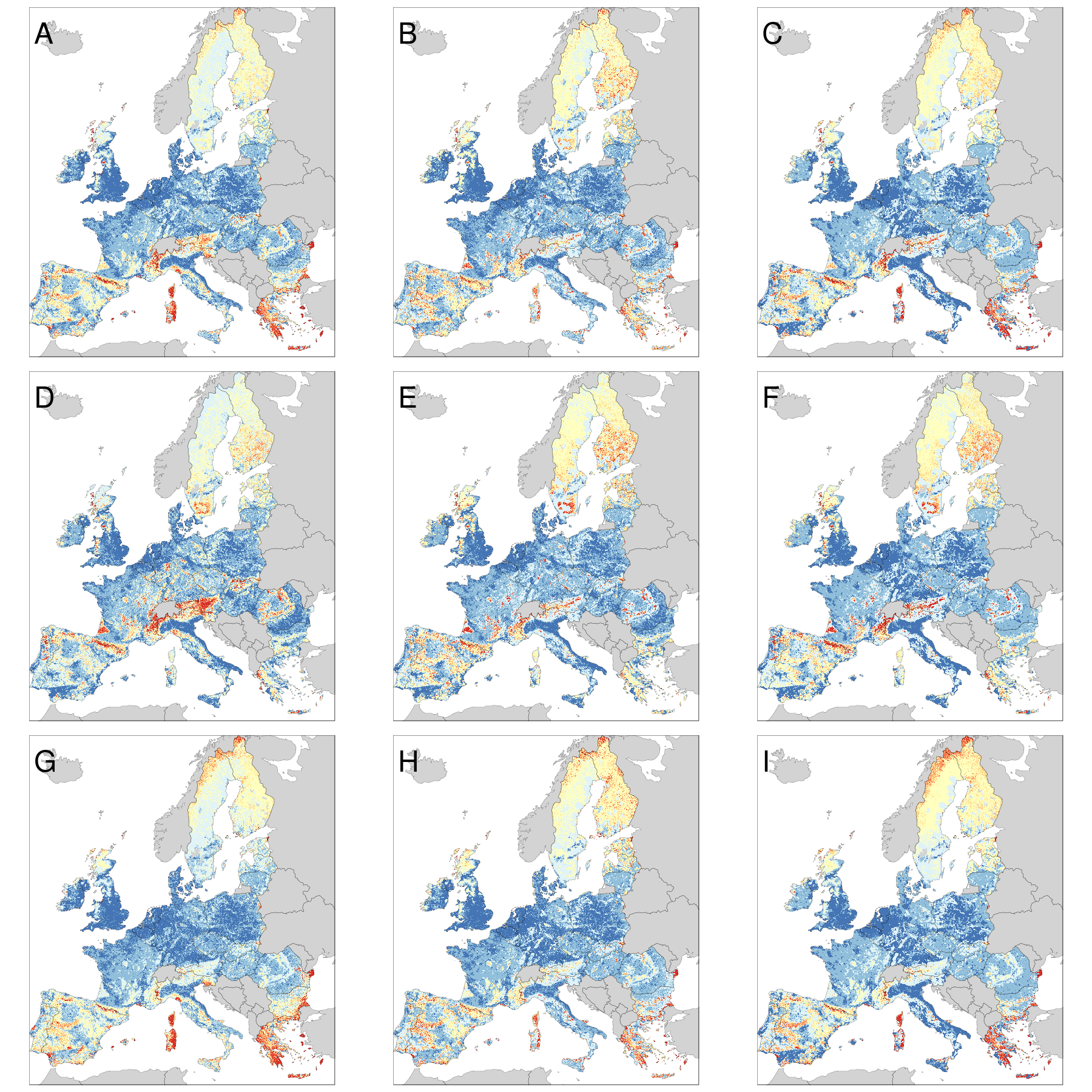
# 1. Prioritization analysis including costs

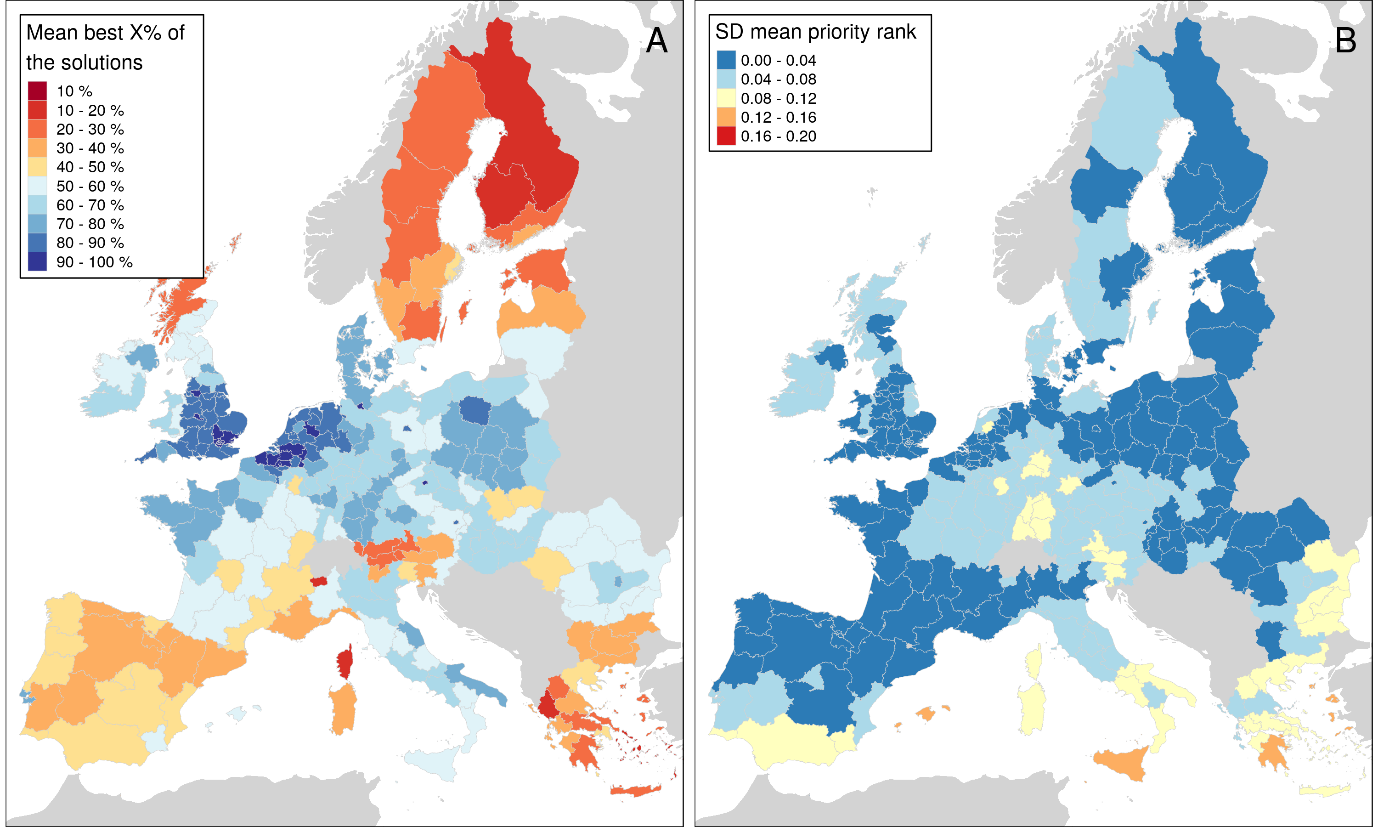
Accounting for various types of costs is often required for real-life conservation prioritization especially when different management actions are considered (Evans et al. 2015). While cost-efficient prioritization can be more desirable in supporting e.g. land-use decisions, including costs in the prioritization always means suboptimal solutions for the considered biodiversity and ES features (Arponen et al. 2010). Thus, it is always advisable to run the prioritization with and without costs to establish the “cost of including the costs” in the prioritization (Arponen et al. 2010; Kukkala and Moilanen 2016). However, different prioritization methods deal with costs differently and therefore the selection of method matters.

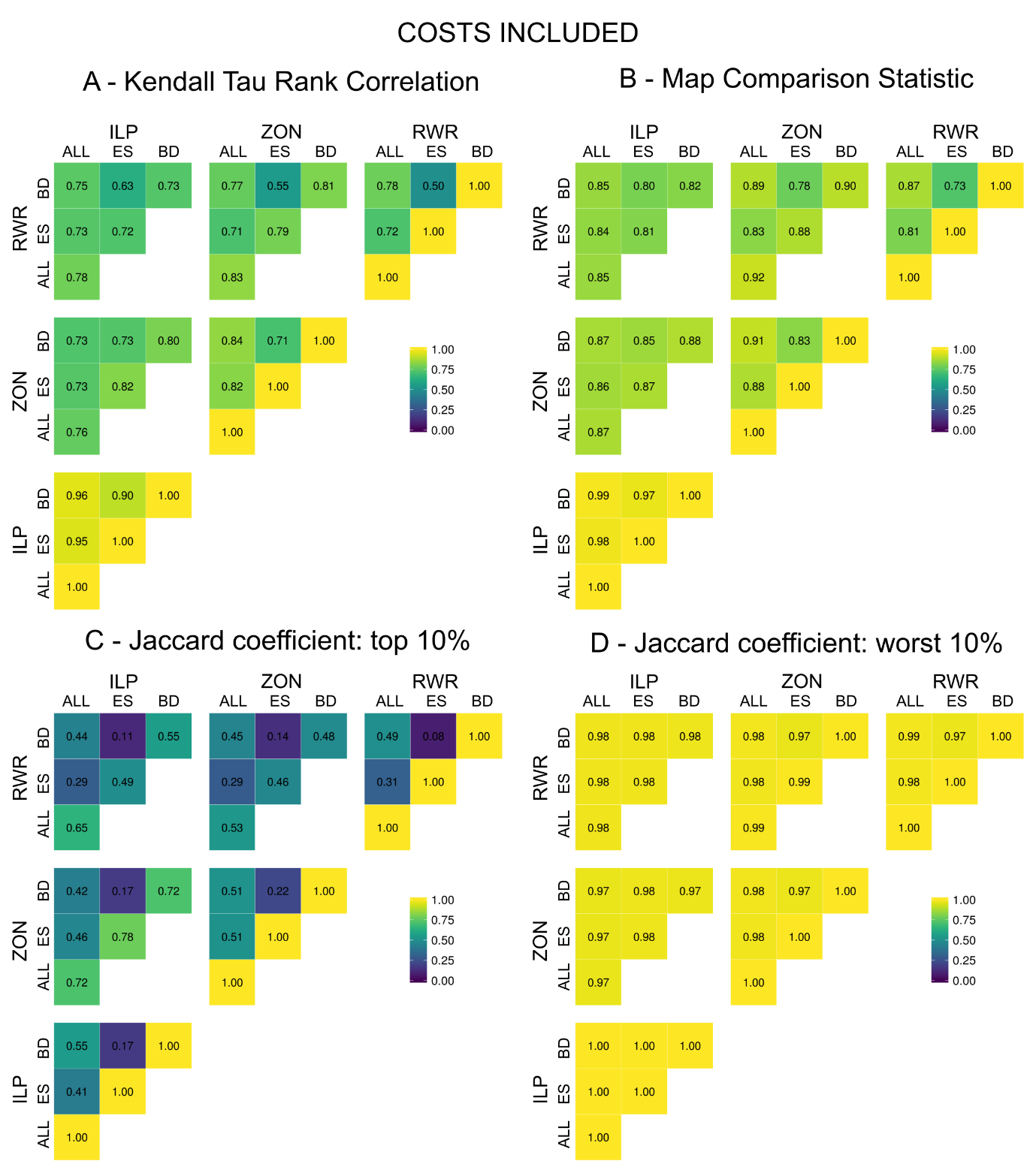
## 1.1 Data and methods

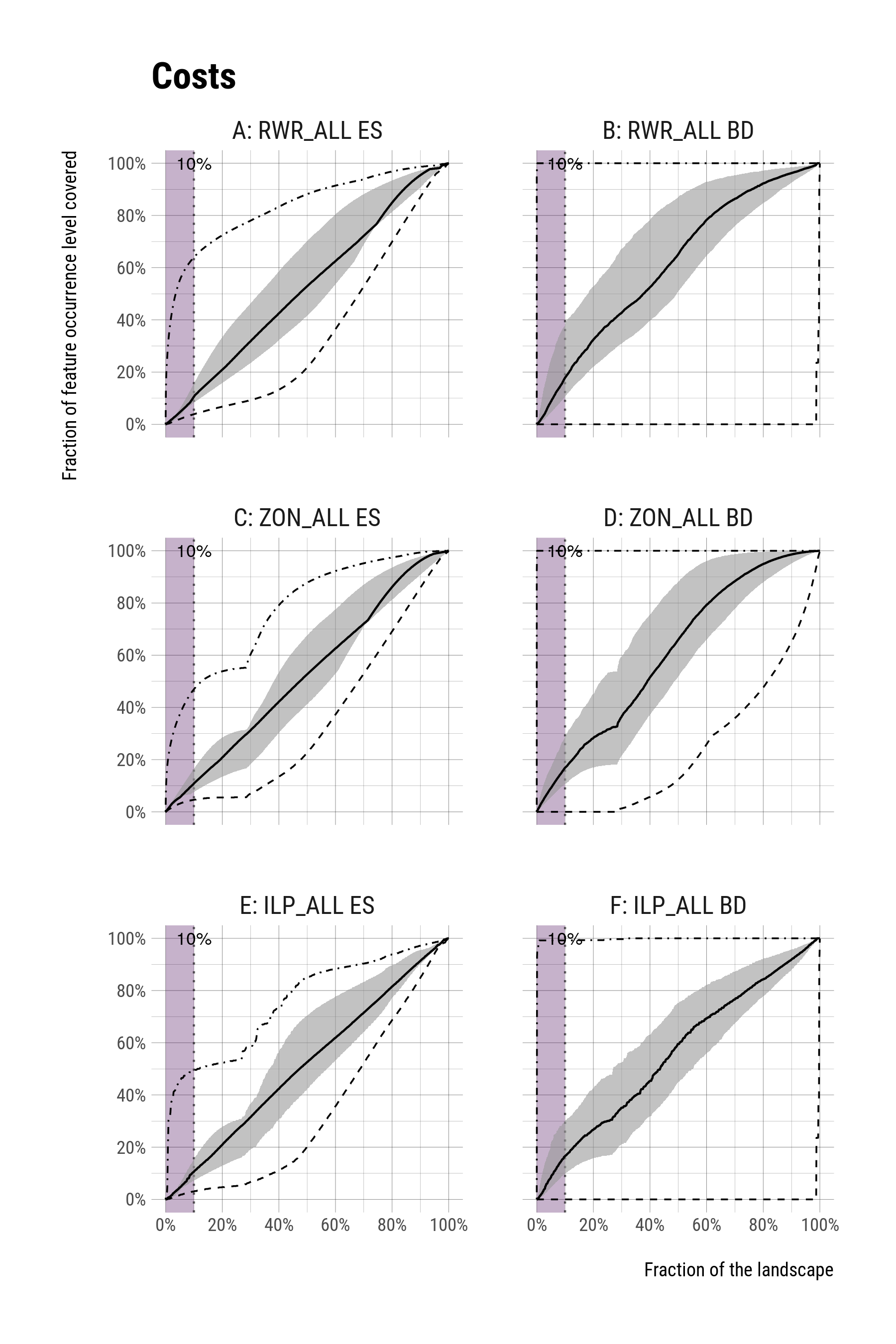


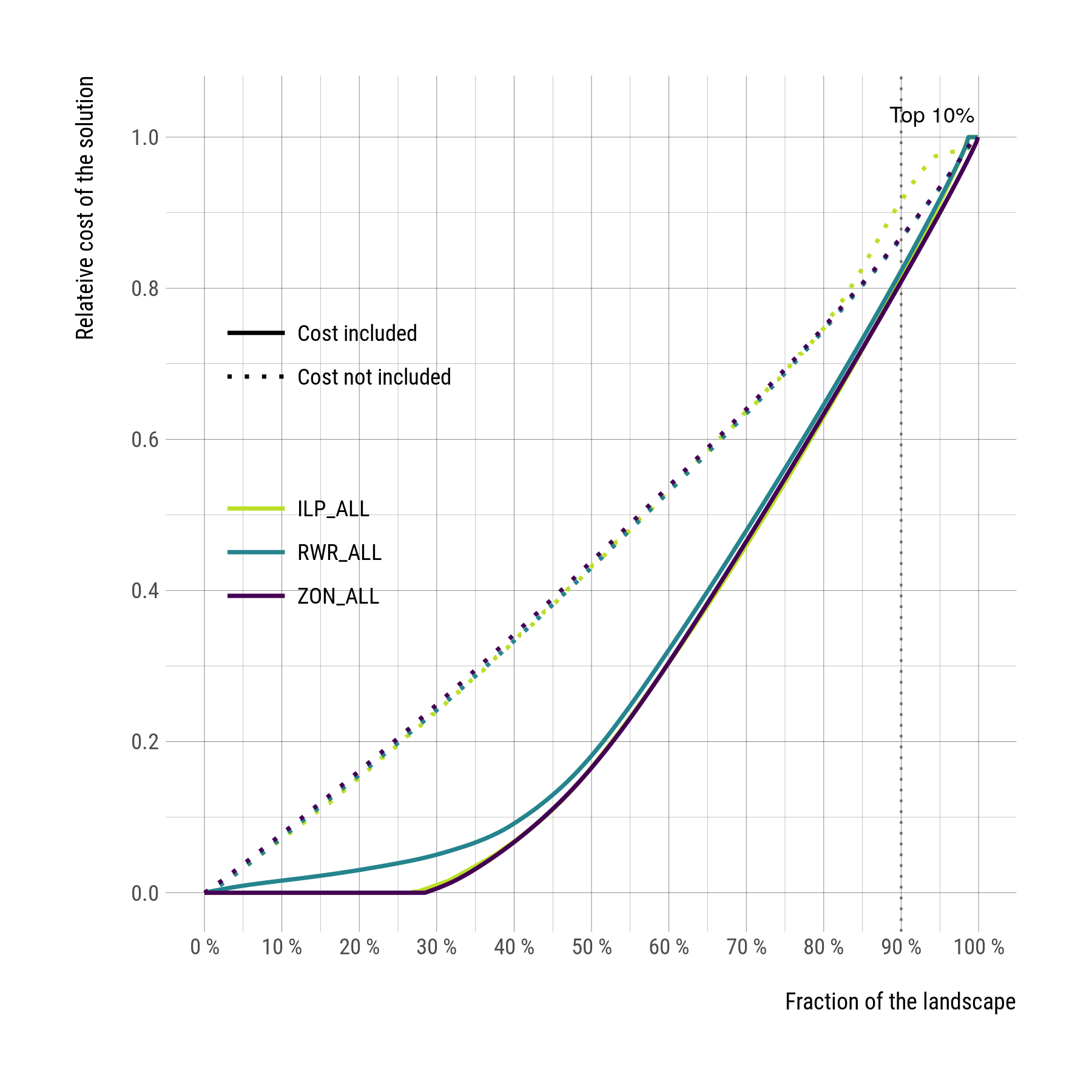
## 1.2 Results











## 1.3 Discussion

# 2. References

Arponen A, Cabeza M, Eklund J, et al (2010) Costs of integrating economics and conservation planning. Conserv Biol 24:1198–204. doi: 10.1111/j.1523-1739.2010.01539.x

Evans MC, Tulloch AIT, Law EA, et al (2015) Clear consideration of costs, condition and conservation benefits yields better planning outcomes. Biol Conserv 191:716–727. doi: 10.1016/j.biocon.2015.08.023

Kukkala AS, Moilanen A (2016) Ecosystem services and connectivity in spatial conservation prioritization. Landsc Ecol. doi: 10.1007/s10980-016-0446-y