

Can management improve the lawn's functioning in the conditions of multiple anthropogenic stressors?

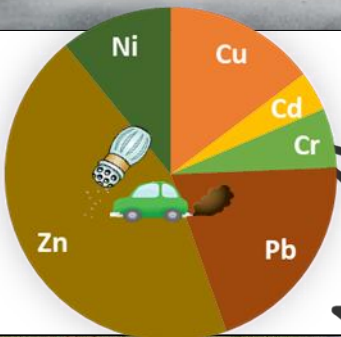
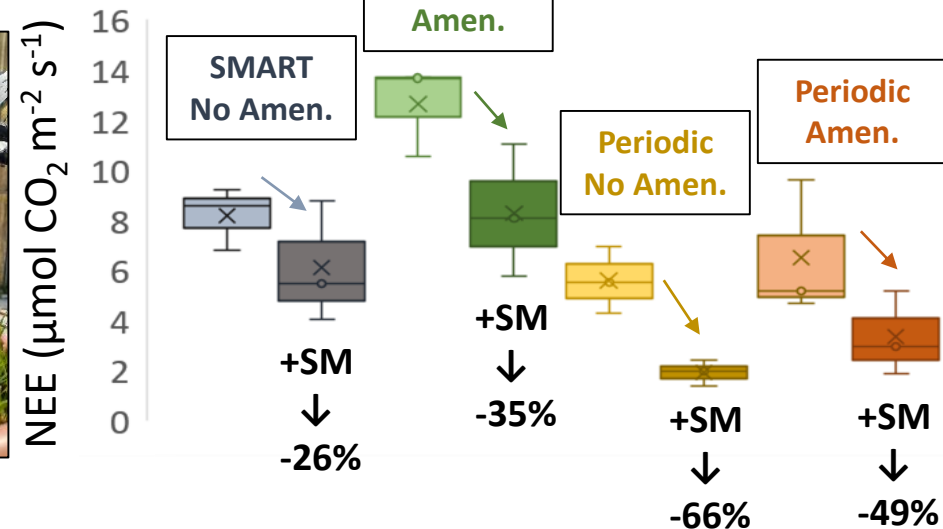


We question:
 Can management (amendment and irrigation):

- improve the gas exchange and productivity of urban lawns?
- limit the distribution of pollutants in plant-soil-ground water system?



RESULTS: lawn net carbon uptake under SM stress



METHODS
2 lawn management strategies:

- Smart irrigation / Periodic irrigation
- Soil amendment (zeolite + vermicompost)/No soil amendment



16 combination of treatments

Each management strategy subjected to a single input of a simulated **road runoff solution (SM)** containing :

- De-icing salt (S)
- A cocktail of heavy metals in bioaccessible forms (M)

RESULTS: release of pollutants into the groundwater

