

Urban carbon data synthesis review

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Project Aims

- » Investigate the understanding of the current state of knowledge on carbon stocks in urban systems – across GBGI classification

Above-ground: Vegetation

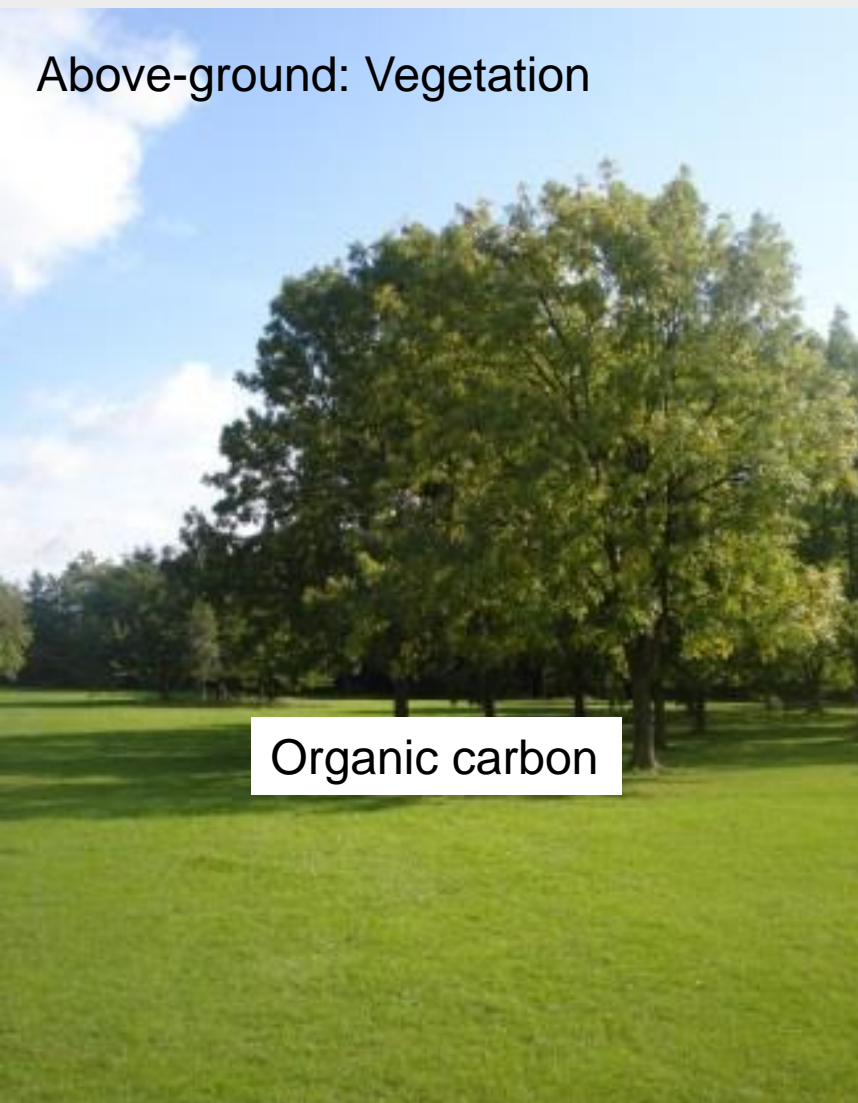


Below-ground: Soils



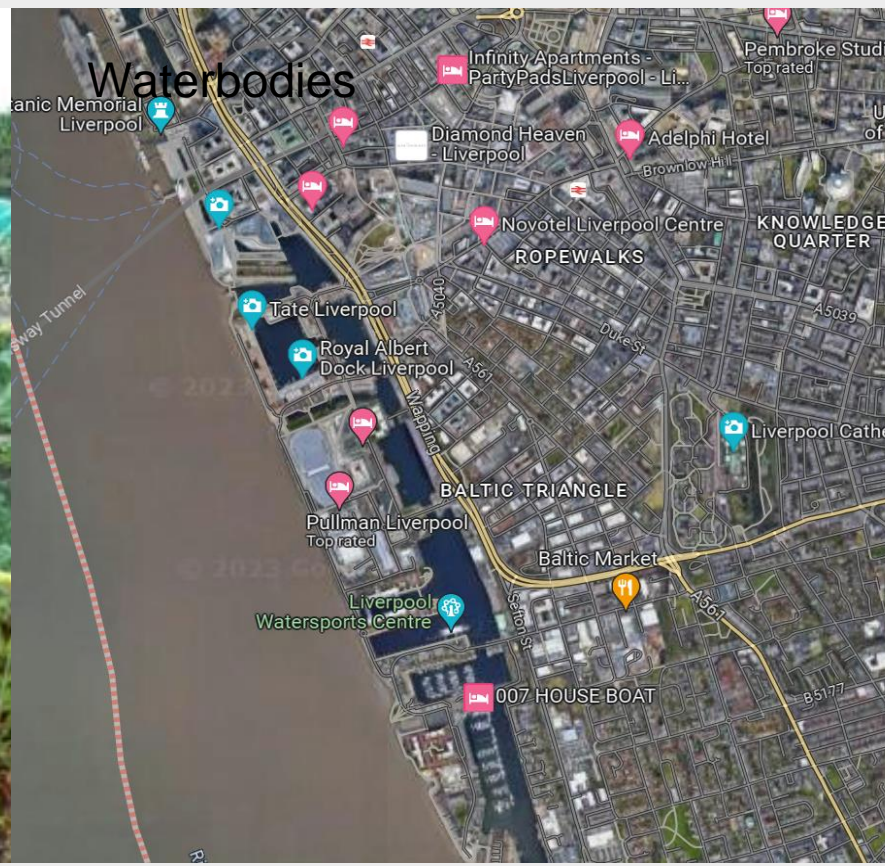
Carbon – form matters

Above-ground: Vegetation



Organic carbon

Below-ground: Soils

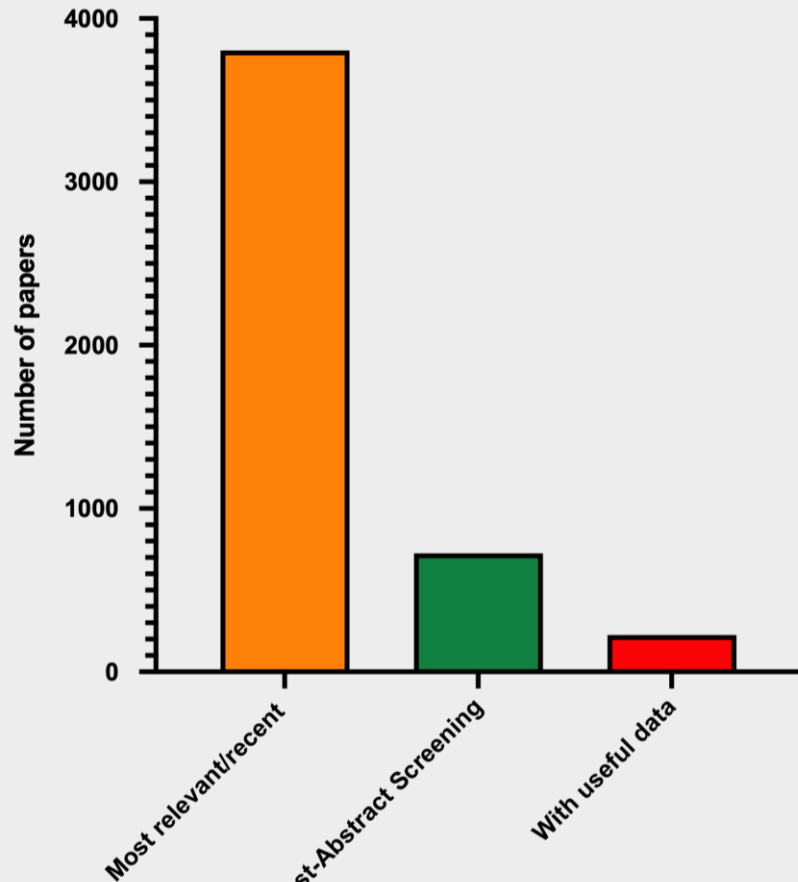


Organic carbon + Inorganic carbon + Black carbon = Total carbon

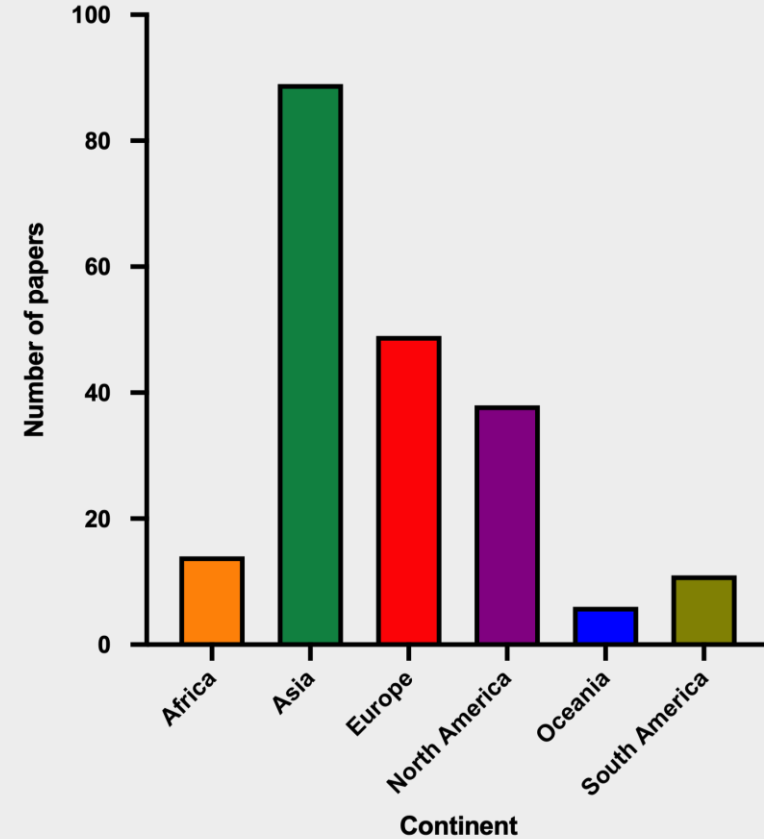
Literature searches



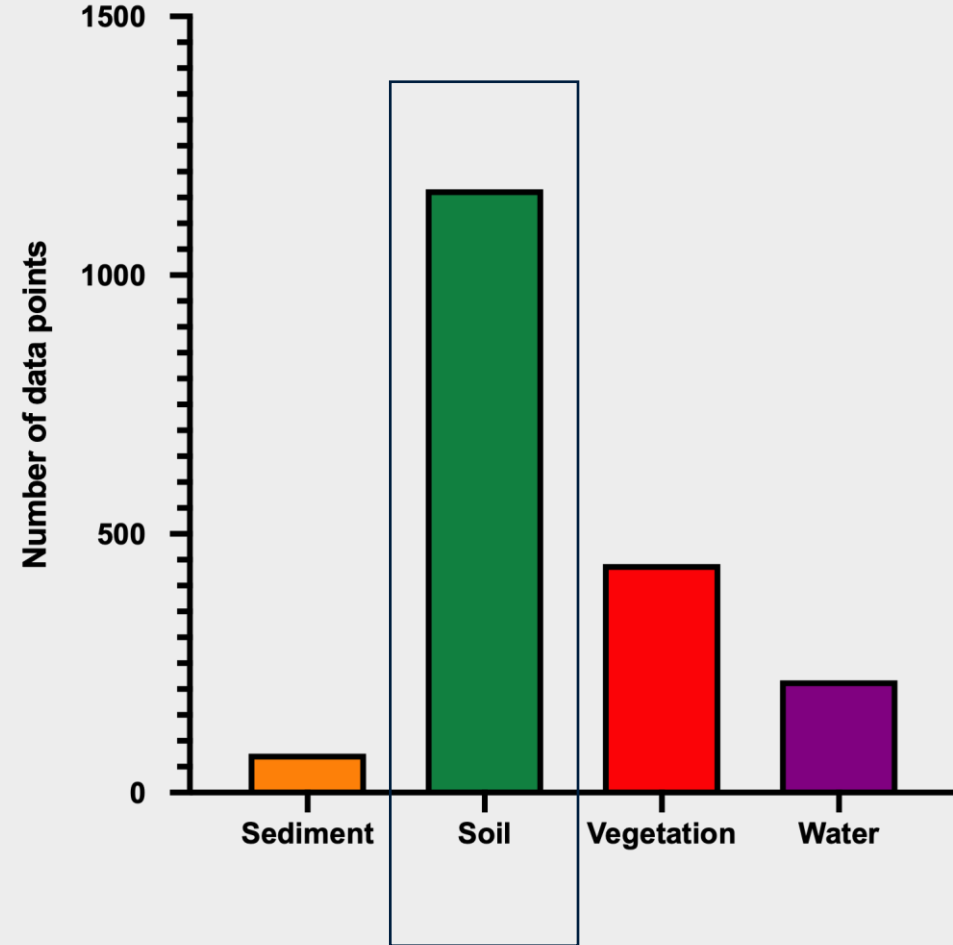
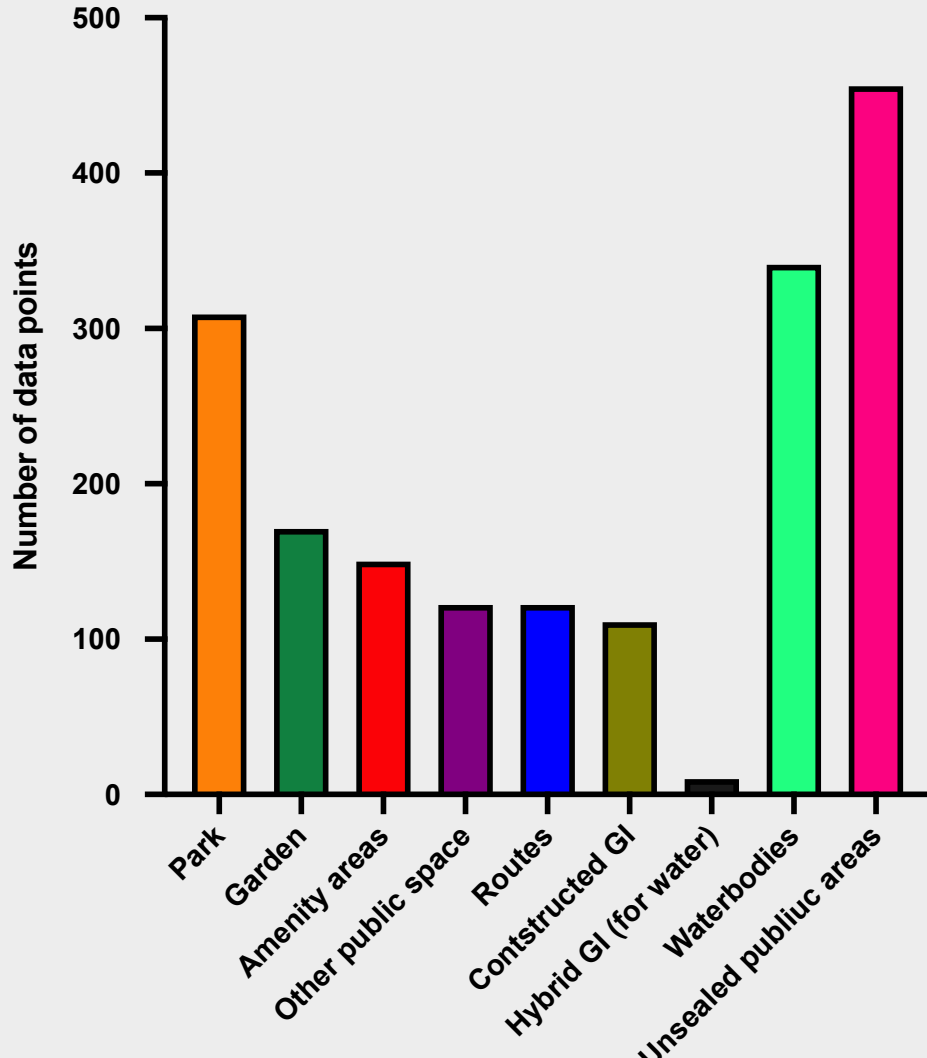
Initial screening



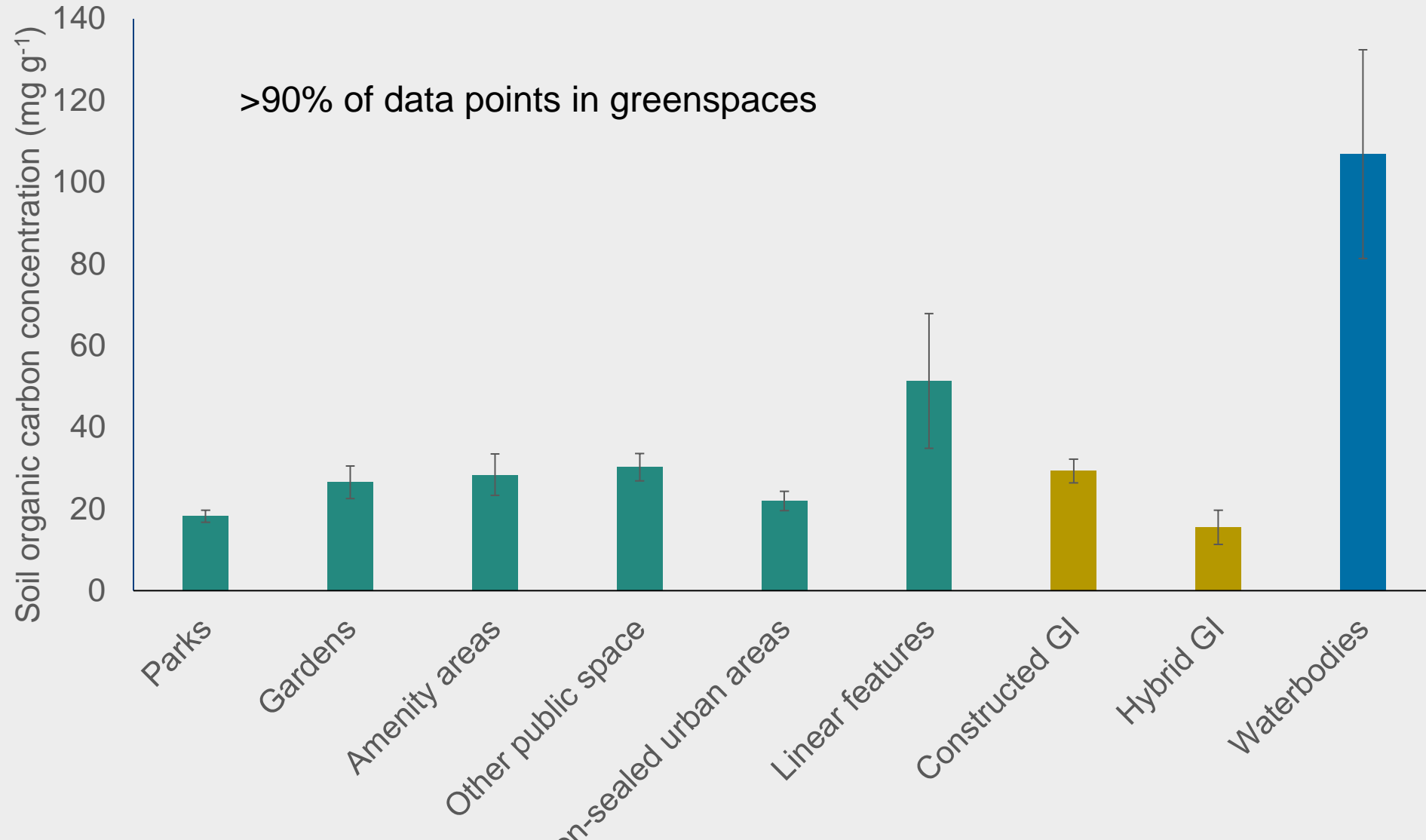
Geographical distribution of studies



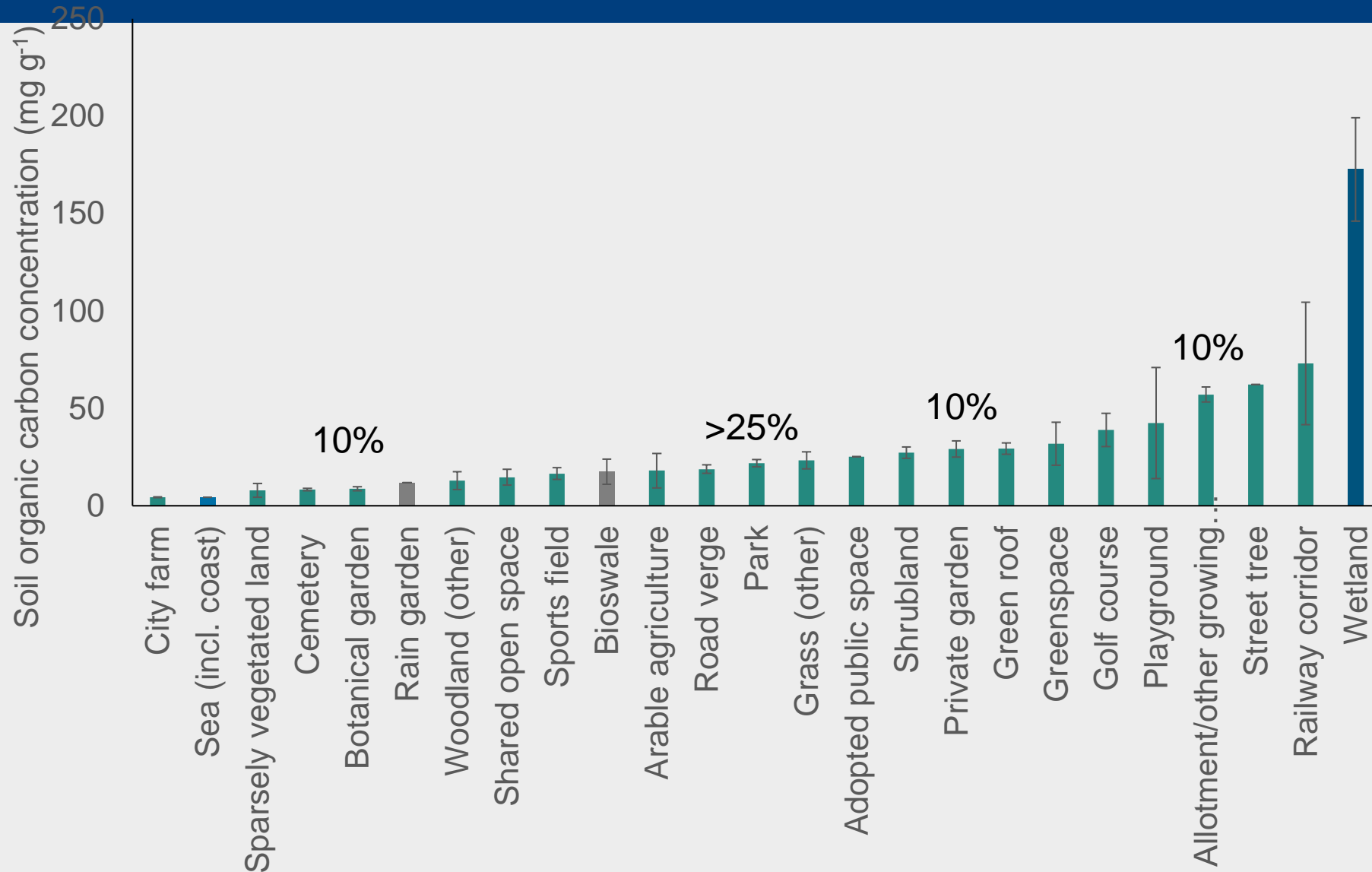
Urban carbon data



Soil organic carbon concentration



Soil organic carbon concentration



Early findings



- » Data on urban carbon not equally studied globally
 - low in Oceania, Africa and South America
- » The focus of the research has been on soils
- » Study of soil carbon concentrated in parks, allotments, botanical gardens and private gardens
- » Preliminary data conforms to trends you would predict
 - Wetland > Greenspaces > Engineered soils