

Appendix 1. Multiple-source data on urban green spaces for the case study cities.

Name of the UGS category	Code	Data source and data processing
Urban forestry areas (not classified as forests)	GS4	Green urban areas in UA, intersected with the tree layer from COPERNICUS
Forests	GS5	Forests in UA
Greenery other than tree canopy in urban parks	GS18	Green urban areas in UA, intersected with OSM urban parks
Trees in urban parks	GS16	Green urban areas in UA, intersected with OSM urban parks and with the tree layer from COPERNICUS
Green urban areas	GS8	Green urban areas in UA other than forest urban areas, forests, urban parks, and trees in urban parks
Trees accompanying roads and transportation areas	GS7	Road, rail and associated land in UA (CODE2012 = '12210' OR CODE2012 = '12220' OR CODE2012 = '12400' OR CODE2012 = '12300'), intersected with the tree layer from COPERNICUS
Trees on mineral extractions	GS11	Mineral extractions, dump sites in UA, intersected with the tree layer from COPERNICUS
Trees on construction sites	GS17	Construction sites in UA, intersected with the tree layer from COPERNICUS
Brownfield trees	GS2	Land without current use in UA, intersected with the tree layer from COPERNICUS
Tree canopy in industrial and commercial areas	GS10	Trees in industrial areas: industrial, commercial, military in UA, intersected with the tree layer from COPERNICUS
Greenery other than tree canopy in industrial and commercial areas	GS21	Greenery other than trees: industrial, commercial, military in UA, intersected with green coverage from European Settlement Map
Trees accompanying railway areas	GS6	Road, rail and associated land in UA (CODE2012 = '12230'), intersected with tree layer from COPERNICUS
Tree canopy in private land and inner court trees (e.g., house gardens)	GS9	Trees on private land: urban fabric in UA, intersected with the tree layer from COPERNICUS
Greenery other than tree canopy in private land and inner court greenery (e.g., house gardens)	GS20	Greenery other than trees: urban fabric in UA, intersected with green coverage from European Settlement Map
Arable land, permanent crops, pastures and wetlands	GS19	Arable land (annual crops), permanent crops, herbaceous vegetation, pastures and wetlands in UA
Greenery other than tree canopy in cemeteries	GS3	Green urban areas in UA, intersected with OSM cemeteries

Trees in cemeteries	GS15	Green urban areas in UA, intersected with OSM cemeteries and with the tree layer from COPERNICUS
Greenery other than tree canopy in sports and leisure green areas	GS12	Sport/leisure areas in UA
Trees in sports and leisure green areas	GS13	Sport/leisure areas in UA, intersected with the tree layer from COPERNICUS
Greenery other than tree canopy in allotment gardens	GS1	Sport/leisure areas in UA, intersected with OSM allotment gardens
Trees in allotment gardens	GS14	Sport/leisure areas in UA, intersected with OSM allotment gardens and with the tree layer from COPERNICUS