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Supplementary Materials

Table S1. Detailed impacts and references related to built environment characteristics influencing greenway visitation

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
Network attributes	The internal network structure of greenways themselves	Greenway network internal connectivity	Greenway network density	+	[1]
			Greenway node connectivity ratio	+	[1]
		Greenway internal movement barriers	Path length	-	[2,3]
			Terrain complexity	±	[2–5]
			Physical barriers	-	[6,7]
	Connectivity between greenways and road networks	Greenways located in urban areas	Greenways located in suburban areas	±	[8]
			Travel distance	-	[3]
			Distance to urban areas	-	[9]
		Greenway-road network connectivity	Intersection count	±	[1,7,10,11]
			Road network global integration value	+	[12]
			Road network local integration value	+	[12]
			15-minute greenway walkability	+	[11]
			high-choice segments	+	[12]
			Bridge-equipped routes	+	[12]
			Road density	+	[5]
	Linkages between greenways and urban facilities	Distribution of tourism resources around greenways	Accessibility to transit, metro, and bikeshare stations	+	[1,3,9,12–15]
			Motor vehicle parking facilities	+	[6,9,14,15]
			Bicycle racks and rental services	+	[15–17]
			Distance to urban arterial roads	±	[15,18]
			Distribution of accommodation and catering facilities	+	[2,19]
			Scenic spot count	+	[2,5,11]
		Distribution of residential buildings around greenways	Residential area density	+	[1,11]

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Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
		Surrounding land use mix degree	Land use mix degree	+	[1,10]
		Accessibility to nearby parks and green spaces	Park green spaces	+	[1,10,11]
Place-based attributes	Landscape resources		Water bodies and riparian scenery	+	[4,7–9,11,15]
		Uniqueness of landscape elements	Unique viewpoints	+	[19]
			Repurposed historic railways	+	[19]
			Protected habitats	+	[4]
		Scale of landscape elements	Greenway hierarchy	+	[1]
		Greenway social reputation	Social media ratings	+	[2]
			User review content	+	[2]
			Personal recommendations	+	[8,14]
			Media promotion	+	[13,14,19]
			Greenway recognition		[15]
	Natural perception elements	Natural perceptual trigger elements	Water bodies	+	[17]
			Distance to water bodies	-	[11,18,20]
			Shade	+	[15,17]
			Greening level	+	[9,10,12,18]
			Sense of enclosure	±	[10,18–20]
		Greenway vegetation spatial patterns	Sky openness	±	[10]
			Greenway width	+	[9,10]
			Greenway tortuosity	±	[18,21]
			Relative vegetation abundance	+	[22]
			Green space ratio	+	[11]
			Tree species	+	[4]
	Supporting facilities		Trails	+	[9,14–16]
			Benches	+	[6,12,14–16,19,23]
			Water stations	+	[14,15,18]
		Basic service facilities	Restrooms	+	[6,14,15,18,23]
			Trash bins	+	[16]
			Lighting facilities	+	[3,6,16]
			Surveillance	+	[18]
			Signage clarity	+	[3,9,14]
			Guardrails	+	[16]
			Emergency equipment	+	[3]

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
	Residents' activities within greenways	Recreational and sports facilities	Children's playgrounds	+	[9,12,23,24]
			Fitness equipment	+	[12,15,24]
			Public activity spaces	+	[23]
		Social nodes	Small open areas	+	[13]
			Shaded pavilions	+	[16]
			Table and seating	+	[16,18,23]
		Large-scale cultural and recreational events	Cultural and recreational events	+	[16,24,25]
		Visitor flow volume	Visitor density	±	[6,14,15,17]
		Others' environmental behaviors	Uncivilized behaviors	-	[6,9,26,27]
	Operational maintenance	Facility maintenance and vegetation care	Facility cleanliness	+	[3,6,19]
			Facility repair	+	[16,28]
			Vegetation pruning and care	+	[3,6,20]
		Entrance fees	Entrance fees	-	[16]
		Commercial vendors	Commercial vendors	+	[9,19]

Table S2. Detailed impacts and references related to built environment characteristics influencing greenway usage habits

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
Network attributes	The internal network structure of greenways themselves	Greenway network internal connectivity	Greenway node density	+	[29]
			Greenway continuity	+	[15,26,30,31]
		Greenway internal movement barriers	Path length	-	[32]
			Slope	-	[29]
		Greenways located in urban areas	Greenways located in urban areas	+	[8,15]

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
	Connectivity between greenways and road networks	Greenway road network connectivity	Intersection count	-	[6,7,26,33]
			Motor vehicle parking facilities	+	[6,14,27,34–38]
			Physical barriers	-	[7,39]
			Accessibility to transit	+	[3,14,15,24,25,29,35,39]
			Distance to urban arterial roads	±	[14,15]
	Connectivity between greenways and pedestrian/cycling networks	Connectivity between greenways and slow-traffic networks	Number of access points	+	[3]
			Bicycle lane connections	+	[26]
			Pedestrian-friendly surroundings	+	[14]
			15-minute slow-traffic coverage	+	[38]
			Greenway connection-node ratio	-	[10]
			Proportion of direct walking paths between greenways and residential areas	+	[40]
			Walkability indices	+	[40]
	Linkages between greenways and urban facilities	Distribution of residential buildings around greenways	Residential connectivity	+	[41]
			Residential proximity	±	[3,6,8,14–16,23–25,32,34,36,42–46]
			Residential area density	+	[29]
			Community openness	+	[38]
			Greenway coverage length near residential areas	+	[40]
		Surrounding land use mix degree	Land use mix degree	+	[10,14]
		Accessibility to nearby parks and green spaces	Accessibility to nearby parks and green spaces	+	[39,41]
		Distribution of daily life facilities around greenways	Connectivity to daily activity destinations	+	[26,37]
			Building density	+	[10]

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
Place-based attributes	Landscape resources	Uniqueness of landscape elements	Water bodies	+	[15,23,24,43,47]
			Dense vegetation	+	[15,23]
		Greenway social reputation	Greenway recognition	+	[6,40,45,48]
			Social media recommendations	+	[25]
	Natural perception elements	Natural perceptual trigger elements	Wildlife	±	[23,25,26,38,47,49]
			Seasonal natural landscapes	+	[21,25]
			Dynamic scenery	+	[25]
			Water bodies and riparian scenery	+	[24–26,47]
			Wetlands	+	[49]
			Woodlands	±	[7,15,25,26,33,40,42,50]
			Aromatic plants	+	[49]
			Fruit trees	+	[47]
			Wooden boardwalks	+	[49]
			Bird sounds	+	[49]
		Richness of natural perceptual elements	Richness of natural landscapes	+	[16,25,27,35,38]
			Topographic variation	+	[38,49]
			Species diversity	+	[25,49]
			Chromatic diversity	+	[30,49]
			Vegetation diversity	+	[6,47,51]
			Green visibility index	±	[10,30,39,46,52]
		Greenway vegetation spatial patterns	Enclosure	±	[10,30]
			Openness	±	[10,24,30,35,46,49,52]

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
	Supporting facilities		Canopy closure	±	[49]
			Curvilinear forms	+	[24,30]
			Natural visibility	±	[30]
			Vegetation coverage	+	[24,39,46,50]
			Tree density	+	[46]
			Trails	+	[3,6,10,14,16,26,27,29,30,32,34,35,38,41,42,50–52]
			Benches	+	[3,6,14–16,22,23,25,27,29–31,41,42,49,51]
			Water stations	+	[14,22–24,35,49]
		Basic service facilities	Restrooms	+	[3,6,23,27,30,35,36,42,49,53]
			Trash bins	+	[24,27,49]
			Lighting facilities	+	[6,14,16,23,26,31,34,35,38,40,42,49,53]
			Surveillance	+	[40]
			Signage clarity	+	[3,14,26,30,33–35,37,41]
			Guardrails	+	[14,30,34,35,38]
			Emergency equipment	+	[38]
			Management office	+	[3]
			Pergolas	+	[15,49,50]
			Barrier-free facilities	+	[35,38,49]
		Recreational and sports facilities	Fitness equipment	+	[8,14,22,24,35,36]
			Sports fields	+	[23,24,31,49,53,54]
			Children's playgrounds	+	[3,14,23,24,41]
		Pet amenities	Pet-friendly paths	+	[23]
			Pet activity areas	+	[14,53]
		Social nodes	Rest and social nodes	+	[3,14,15,23,25,27,36,51]
			Barbecue areas	+	[53]
			Table and seating	+	[23]

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
	Residents' activities within greenways	Natural observation facilities	Environmental education signage	+	[3,23,25,27]
		Cultural and art installations	Cultural and art installations	+	[13,16,22,30,40]
			Neighborhood-friendly interactions	+	[50]
		Neighborhood interactions	Community event organization	+	[16,25,26,40]
		Community environmental co-creation	Community environmental co-creation	+	[42]
			Spontaneous planting behaviors	+	[36]
		Pedestrian flow	Crowd density	-	[6,15,27,30,33,54]
		Others' environmental behaviors	Disorderly behaviors	-	[27,47,50]
			Usage conflicts between different users	-	[27,32,47,50]
			Environmental vandalism	-	[27]
			Motor vehicle interference	-	[3,15,27,30,34,35,42,50,52]
	Operational maintenance		Vegetation pruning and care	+	[6,31,33,41,51]
			Facility repair	+	[3,31,37,40]
		Facility maintenance and vegetation care	Water treatment	+	[40,42,47,53,55]
			Facility cleanliness	+	[3,6,7,15,23,31,32,35,38,47,50,52]
		Entrance fees	Entrance fees	-	[16]
		Greenway usage security and management	Mosquito control	+	[24,32,42]
			Security patrols	+	[37,38]
			Slow-traffic Policy support	+	[26]
			Behavioral management	+	[27]

Table S3. Detailed impacts and references related to built environment characteristics influencing users' alignment with nature

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
Network attributes	The internal network structure of greenways themselves	Greenway network internal connectivity	Greenway continuity	+	[56,57]
		Greenway internal movement barriers	Terrain complexity	±	[21,58]
			Path length	±	[21]
	Linkages between greenways and urban facilities	Accessibility to nearby parks and green spaces	Accessibility of park green spaces	+	[1,6,9]
	Linkages between greenways and ecological networks	Connectivity between greenways and ecological networks	Centrality within ecological networks	+	[26,59,60]
			Coupling with ecological corridors	+	[18,22,26,61]
			Proximity to linear corridors	+	[18,22]
			Connectivity with various natural patches	+	[61]
Place-based attributes	Landscape resources	Uniqueness of landscape elements	Types of unique landscape elements	+	[61–67]
		Scale of landscape elements	Scale of natural resource elements underlying greenways	+	[18,22,26]
	Natural perception elements	Natural perceptual trigger elements	Wildlife	+	[9,25,47,57,64,68]
			Water bodies	+	[9,25,47,57,68–70]
			Flowering plants	+	[9,25,68]
			Vegetation	+	[21,25,28,68]
			Majestic ancient trees	+	[21]
			Distinctive landforms	+	[21,71]
			Fruits	+	[21]
			Unanticipated natural phenomena	+	[25]

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
		Richness of natural perceptual elements	Topographic variation	+	[25,49,57,69,72]
			Dynamic Scenery	+	[25,49,57]
			Seasonal natural landscapes	+	[9,21,25,57]
			Sequential landscape vistas	+	[21]
			Interactive landscapes	+	[21]
			Natural light and shadow, and subtle natural details	+	[57,64]
			Hazardous natural elements	-	[21,64]
			Vegetation diversity	+	[9,67,70,72,73]
			Plant layers	+	[6,16,49]
			Chromatic diversity	+	[49,69]
			Biodiversity	+	[49,57]
			Landscape element diversity	+	[21,70]
		Greenway vegetation spatial patterns	Visual openness	+	[6,56,57,67,69,70,72]
			Arboreal height	+	[9,16]
			Dense vegetation	+	[9,16]
			Landscape fragmentation indices	-	[49]
			Greenway tortuosity	+	[21,57]
			Sky openness	+	[49,52,56,68]
			Three-dimensional green volume	+	[49]
			Canopy density	+	[49]
			Vegetation coverage rate	+	[6,57,67,74,75]
			Green visibility index	±	[28,56,67]
			Blue visibility index	+	[67]
		Environmental authenticity	Low artificial interference	+	[21,49,56,57,64,67,69]
			High naturalness	+	[15,21,56,67]

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
			Pristine natural features	+	[21]
			Freedom from urban noise	+	[21]
			Biomimetic design	+	[57]
			Landscape ecological adaptation	+	[57,70]
			Authenticity-focused design	+	[21,57,64,69,70]
	Supporting facilities		Trails	+	[28,58,66,68]
		Basic service facilities	Signage clarity	+	[57,58,64,68]
			Trash bins	+	[27,55,70,76]
			Rain shelter facilities	+	[69]
			Guardrails	+	[57,69]
			Surveillance	+	[57]
			Barrier-free facilities	+	[57,69,70]
			Benches	+	[28,57,69,70]
			Lighting facilities	+	[57,69,70]
			Restrooms	+	[57,70]
		Natural observation facilities	Ecological facilities	+	[25]
			Nature education signs	+	[25,27]
	Residents' activities within greenways	Pedestrian flow	Crowd density	±	[21,56,57,64,77]
		Community environmental co-creation	Community environmental co-creation	+,	[62]

Greenway Attributes	Associated Elements	Built Environment Characteristics	Indicators	Impacts	References
		Nature-based activities and nature education	Nature-based activities	+	[57,65]
			Nature education	+	[65,76,78]
		Others' environmental behaviors	Others' environmental behaviors	+	[47,64,79]
	Operational maintenance	Facility maintenance and vegetation care	Clear water quality	+	[9,47,55,68]
			Vegetation pruning and care	+	[64]
			Facility repair	+	[47,58,78]

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