Ecosystem Service Use and the Motivations for Use in Central Parks in Three European Cities

Supplementary material

Table 1. Survey about the use of nature in city parks.

… Your introduction text

Question 1

What do you use/enjoy/ disturbs you here? (Please choose **one use / activity / disturbance** only)

[ ] Collecting food from plants
[ ] Drinking water
[ ] Collecting medicine, fibres etc. from plants or animals
[ ] Using energy from plants
[ ] Draft animal or mount

[ ] Providing shade and shelter
[ ] Mediating smell, noise, visual impacts

[ ] Experience diversity of plants & animals
[ ] Watching animals or plants
[ ] Enjoy landscape beauty
[ ] Experience cultural heritage, sense of place
[ ] Doing research, (environmental) education
[ ] Sacred or religious plants or animals
[ ] Being inspired by nature

[ ] Sport fishing or hunting
[ ] Biking
[ ] Walking the dog
[ ] Walking, strolling, hiking
[ ] Jogging, running
[ ] Meeting people
[ ] Barbequeing, picnicing
[ ] Camping
[ ] Gardening
[ ] Doing other activities in nature:
_____

[ ] Unsightly landscape (Due to natural reasons)
[ ] Causes hayfever/ allergic reaction
[ ] Pests (mosquitos, flies)
[ ] Bad water quality
[ ] Threatening site
[ ] Other problems (e.g. animal excrements; intruding animals or plants)

Question 2 **How important is that use/experience for you?**	**Question 2 (grey only)** **How severe is that problem to you?**	**Question 3** **How often do you use / do you experience this?**	**Question 3 (grey only)** **What is the origin of the problem?**
[ ] unimportant [ ] almost unimportant [ ] intermediate important [ ] important [ ] very important	[ ] Very low [ ] Low [ ] Intermediate [ ] High [ ] Very high	[ ] Less than annual [ ] Yearly [ ] Monthly [ ] Weekly [ ] Daily	[ ] Human [ ] Mostly human [ ] Natural/ human [ ] Mostly natural [ ] Natural

Question 4 **By which means of transport did you get here?**	**Question 5** **Why do you do this here and not at other places?**
[ ] By foot [ ] Bike, e-bike [ ] Moped, scooter, motorcycle [ ] Car, SUV [ ] Local (bus, metro, tram) [ ] Regional (bus, metro, regional train) [ ] Other :	[ ] Wilderness/nature, landscape or fresh air [ ] Tranquillity or seclusion [ ] Physical space for activities [ ] Social interaction, cultural activities [ ] Close to home, accessible, shortcut [ ] Other

If you want, you can leave a comment:
1) What do you like about the site? 2) What do you dislike or feel disturbed by?

Personal data:

City: _____

Street: _____

Postcode: _____

Gender: [ ] female [ ] male [ ] diverse

Age: ___ OR Age group: [ ] – 19 [ ] 20-29 [ ] 30-39 [ ] 40-49 [ ] 50-59 [ ] 60-69 [ ] 70+

Thank you for participating at the survey!

Internal information:

Date/ day of the week:	
Time:	
Site ID:	
Interviewer:	
Weather conditions:	
Shade/sun:	
Location(Path, meadow, …):	
Moving/Resting:	
Other:	

Table S2: Pearson's residuals for Chi-square test of independence for means of transport for the three cities. Positive values show positive associations between the motivation category and the age group (= were mentioned more than expected from the theoretical value), negative values specify that categories were negatively associated with the age group (= were mentioned less than expected from the theoretical value). Highest residuals (absolute value) for each group are marked in grey.

Means of transport (aggregated)	**Coimbra**	**Leipzig**	**Vilnius**
Bike	-5.15	4.15	2.13
By foot	-3.32	4.21	-0.21
Car	6.52	-6.85	-1.04
Public transport	0.23	-0.6	0.33

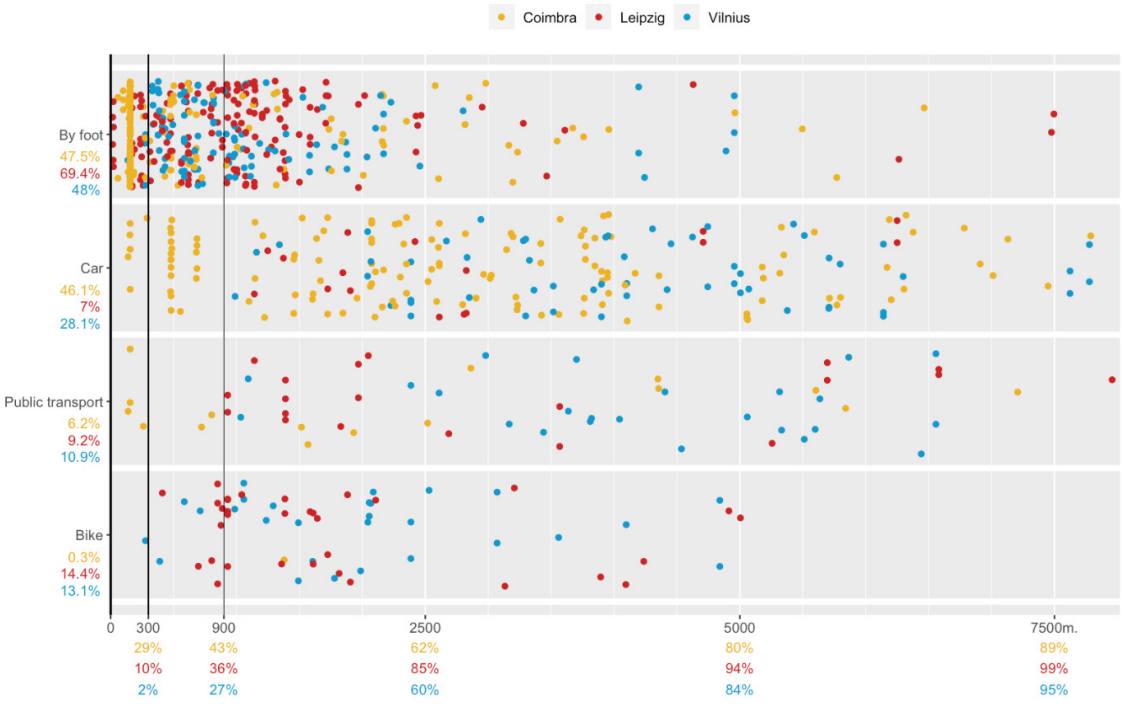

Figure S1: Means of transport and travelled distances of respondents from urban parks in three European cities.

Table S3: Pearson's residuals for Chi-square test of independence for motivation categories of the three cities. Highest residuals (absolute value) for each group are marked in grey.

Motivation category	Coimbra	Leipzig	Vilnius
Nature, landscape or wilderness	1.33	-1.23	-0.39
Tranquillity or seclusion	-0.22	-0.66	0.96
Physical space for activities	1.20	-3.26	1.88
Social or cultural interaction	-1.65	-0.70	2.80
Close to home or accessible	-2.12	3.98	-1.48
Other	2.45	-0.65	-2.39

Table S4: Pearson's residuals for Chi-square test of independence for motivation categories of different age groups. Highest residuals (absolute value) for each group are marked in grey.

Motivation category	Children & Young adults	Adults	Seniors
Nature, landscape or wilderness	-1.82	-0.43	3.73
Tranquillity or seclusion	-1.00	1.02	0.04
Physical space for activities	3.02	-0.84	-3.71
Social or cultural interaction	1.78	-0.58	-2.06
Close to home or accessible	-0.18	0.65	-0.75
Other	-1.28	-0.20	2.46