

Annex.

Supplementary Material to the Article „Context-Specific, User-Centered: Designing Urban Green Infrastructure to Effectively Mitigate Urban Density and Heat Stress“

Data: Julia Mittermüller, Amelie Bauer, Sophie Duschinger

S1. Sociodemographics of Questionnaire Respondents

	Bahnhofsviertel <i>n</i> =76	Messestadt <i>n</i> =68
male / female / not answered (n.a.)	56,6% / 43,4% / 0%	50% / 48,5% / 1,5%
native speaker / non-native speaker / n.a.	53,9% / 30,3% / 15,8%	55,9% / 39,7% / 4,4%
resident / non-resident / n.a.	22,4% / 77,6% / 0%	61,8% / 38,2% / 0%
work in the neighbourhood	32,9%	16,2%
< 18 years	5,3%	16,2%
18-29 years	17,1%	20,5%
30-49 years	42,1%	33,8%
50-69 years	30,2%	23,5%
> 70 years	5,3%	5,9%

S2: Questionnaire (English Translation, Original Language German)

Location _____ Time _____ Date _____ Number _____

1. Do you live in this neighbourhood?

- Yes, since _____
- No

Do you visit this neighbourhood frequently? No Yes, as often as _____

(If both questions were answered with “no”, the questionnaire was not continued.)


2. I have brought some pictures of locations in this neighbourhood. Would you please have a look?

[Show pictures of green / open spaces]

	1	2	3	4
- Do you know this location?	Yes / No	Yes / No	Yes / No	Yes / No
- Do you visit it sometimes?	Yes / No	Yes / No	Yes / No	Yes / No
- Do you like it there?	Yes / No	Yes / No	Yes / No	Yes / No

I will show you pairs of words and would like you to tell me which one describes this neighbourhood better, in your opinion. There are no right or wrong answer, please reply spontaneously.

3. This neighbourhood is...

								
Green	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Grey	<input type="radio"/>	
Loud	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Quiet	<input type="radio"/>	
Boring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Interesting	<input type="radio"/>	
Child-friendly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Not child-friendly	<input type="radio"/>	
Seniors-friendly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Not seniors-friendly	<input type="radio"/>	
Full	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Empty	<input type="radio"/>	
Safe	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Unsafe	<input type="radio"/>	
Hectic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Relaxed	<input type="radio"/>	
Pleasant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Unpleasant	<input type="radio"/>	
Attractive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Unattractive	<input type="radio"/>	
Pedestrian-friendly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Not pedestrian-friendly	<input type="radio"/>	
Bike-friendly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Not bike-friendly	<input type="radio"/>	
Car-friendly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Not car-friendly	<input type="radio"/>	
Scarcely built-up	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Densely built-up	<input type="radio"/>	

Now, please imagine a really hot summer day.

4. On such a hot day, which are your two favourite locations in this neighbourhood?

1. _____
2. _____

In contrast, which are your two least favourite locations on such a day in this neighbourhood?

1. _____
2. _____

5. Age: _____

6. Sex Female Male _____

7. Native Speaker (*based on language proficiency*)

Yes No Not sure

8. Would you be interested in taking part in a second longer interview? Yes No

Thank you very much for taking part in this survey!

S3. Sociodemographics of Interview Partners

Interviewee <i>(names changed)</i>	Sex	Age	Occupation	Ethnicity
Bahnhofsviertel <i>(inner-city neighbourhood)</i>				
Valentina	F	34	mother	Croatian
Rebecca	F	28	university student	German
Mareike	F	48	representative of a local district association	German
Ursula	F	58	local store owner	German
Ilayda	F	57	representative of a local Turkish culture association	Turkish
Jürgen	M	55	local store owner	German
Micha	M	32	employee in IT	German
Stefan	M	29	social worker	German
Rainer	M	60	long-term unemployed	German
Theodor	M	51	director of a local theatre	German
Mario	M	40	employee at a local store	Italian
Messestadt <i>(suburban neighbourhood)</i>				
Claudia	F	70	pensioner, representative of all-women housing corporation	German
Ida	F	84	pensioner	German
Maria	F	22	university student	German
Silvia	F	48	architect	German
Nadira	F	27	mother	Arab
Gertrud	F	66	pensioner	German
Anke	F	47	urban planner	German
Florian	M	19	student	Spanish
Franz	M	63	long-term unemployed	German
Darian	M	48	representative of local district association	Iranian
Martin	M	65	pensioner, former city councilor	German
Leopold	M	14	student	German
Hasan	M	20	university student	Turkish
Francesco	M	49	employee at industrial canteen	Italian
Yassir	M	23	employee	Arab
Thomson	M	45	professor for architecture	USA
Olaf	M	45	employee	German

S4. Statistical Analysis of Polarity Profile

Table S4a: Correlation Analysis

		green/grey	loud/quiet	boring/ interesting	child-friendly/not child-friendly	seniors-friendly/not seniors-friendly	full/empty	safe/unsafe
green/grey	Pearson correlation	1	-0,463	-0,236	0,674	0,613	-0,301	0,405
	Significance (2-tailed)		0,000	0,006	0,000	0,000	0,000	0,000
	N	138	137	135	126	98	134	134
loud/quiet	Pearson correlation	-0,463	1	-0,008	-0,587	-0,477	0,380	-0,475
	Significance (2-tailed)	0,000		0,930	0,000	0,000	0,000	0,000
	N	137	141	137	128	100	135	137
boring/interesting	Pearson correlation	-0,236	-0,008	1	-0,192	-0,134	0,001	-0,163
	Significance (2-tailed)	0,006	0,930		0,031	0,183	0,990	0,058
	N	135	137	138	126	100	133	136
child-friendly/not child-friendly	Pearson correlation	0,674	-0,587	-0,192	1	0,669	-0,409	0,484
	Significance (2-tailed)	0,000	0,000	0,031		0,000	0,000	0,000
	N	126	128	126	128	96	124	126
seniors-friendly/not seniors-friendly	Pearson correlation	0,613	-0,477	-0,134	0,669	1	-0,343	0,436
	Significance (2-tailed)	0,000	0,000	0,183	0,000		0,001	0,000
	N	98	100	100	96	100	99	99
full/empty	Pearson correlation	-0,301	0,380	0,001	-0,409	-0,343	1	-0,340
	Significance (2-tailed)	0,000	0,000	0,990	0,000	0,001		0,000
	N	134	135	133	124	99	136	132
safe/unsafe	Pearson correlation	0,405	-0,475	-0,163	0,484	0,436	-0,340	1
	Significance (2-tailed)	0,000	0,000	0,058	0,000	0,000	0,000	
	N	134	137	136	126	99	132	137
hectic/relaxed	Pearson correlation	-0,601	0,607	0,156	-0,674	-0,486	0,455	-0,556
	Significance (2-tailed)	0,000	0,000	0,069	0,000	0,000	0,000	0,000
	N	137	139	137	127	99	135	136
pleasant/ unpleasant	Pearson correlation	0,575	-0,495	-0,389	0,615	0,427	-0,371	0,589
	Significance (2-tailed)	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	N	135	137	135	126	99	133	134
attractive/ unattractive	Pearson correlation	0,504	-0,327	-0,444	0,589	0,464	-0,239	0,446
	Significance (2-tailed)	0,000	0,000	0,000	0,000	0,000	0,007	0,000
	N	129	130	129	121	95	128	128
pedestrian-friendly/ not pedestrian-friendly	Pearson correlation	0,379	-0,299	-0,239	0,510	0,480	-0,227	0,319
	Significance (2-tailed)	0,000	0,000	0,005	0,000	0,000	0,009	0,000
	N	134	136	134	127	99	132	134
bike-friendly/ not bike-friendly	Pearson correlation	0,592	-0,560	-0,175	0,662	0,529	-0,423	0,442
	Significance (2-tailed)	0,000	0,000	0,053	0,000	0,000	0,000	0,000
	N	122	123	123	117	94	122	123
car-friendly/ not car-friendly	Pearson correlation	0,246	-0,239	-0,149	0,312	0,326	-0,259	0,306

	Significance (2-tailed)	0,009	0,011	0,118	0,001	0,002	0,006	0,001
	N	111	112	112	106	89	110	111
scarcely built-up/ densely built-up	Pearson correlation	0,365	-0,322	-0,013	0,280	0,223	-0,302	0,264
	Significance (2-tailed)	0,000	0,000	0,885	0,002	0,028	0,000	0,002
	N	132	133	132	125	97	130	131

Table S4a: Correlation Analysis (continued)

		hectic/ relaxed	pleasant/ unpleasant	attractive/ unattractive	pedestrian-friendly/not pedestrian-friendly	bike-friendly/not bike-friendly	car-friendly/not car-friendly	scarcely built- up/densely built-up
green/grey	Pearson correlation	-0,601	0,575	0,504	0,379	0,592	0,246	0,365
	Significance (2-tailed)	0,000	0,000	0,000	0,000	0,000	0,009	0,000
	N	137	135	129	134	122	111	132
loud/quiet	Pearson correlation	0,607	-0,495	-0,327	-0,299	-0,560	-0,239	-0,322
	Significance (2-tailed)	0,000	0,000	0,000	0,000	0,000	0,011	0,000
	N	139	137	130	136	123	112	133
boring/interesting	Pearson correlation	0,156	-0,389	-0,444	-0,239	-0,175	-0,149	-0,013
	Significance (2-tailed)	0,069	0,000	0,000	0,005	0,053	0,118	0,885
	N	137	135	129	134	123	112	132
child-friendly/not child- friendly	Pearson correlation	-0,674	0,615	0,589	0,510	0,662	0,312	0,280
	Significance (2-tailed)	0,000	0,000	0,000	0,000	0,000	0,001	0,002
	N	127	126	121	127	117	106	125
seniors-friendly/not seniors-friendly	Pearson correlation	-0,486	0,427	0,464	0,480	0,529	0,326	0,223
	Significance (2-tailed)	0,000	0,000	0,000	0,000	0,000	0,002	0,028
	N	99	99	95	99	94	89	97
full/empty	Pearson correlation	0,455	-0,371	-0,239	-0,227	-0,423	-0,259	-0,302
	Significance (2-tailed)	0,000	0,000	0,007	0,009	0,000	0,006	0,000
	N	135	133	128	132	122	110	130
safe/unsafe	Pearson correlation	-0,556	0,589	0,446	0,319	0,442	0,306	0,264
	Significance (2-tailed)	0,000	0,000	0,000	0,000	0,000	0,001	0,002
	N	136	134	128	134	123	111	131
hectic/relaxed	Pearson correlation	1	-0,669	-0,542	-0,411	-0,620	-0,360	-0,346
	Significance (2-tailed)		0,000	0,000	0,000	0,000	0,000	0,000
	N	140	137	130	135	123	112	133
pleasant/ unpleasant	Pearson correlation	-0,669	1	0,633	0,413	0,464	0,361	0,233
	Significance (2-tailed)	0,000		0,000	0,000	0,000	0,000	0,007
	N	137	138	131	134	122	112	132
attractive/ unattractive	Pearson correlation	-0,542	0,633	1	0,465	0,535	0,300	0,338
	Significance (2-tailed)	0,000	0,000		0,000	0,000	0,002	0,000
	N	130	131	131	129	119	109	128
pedestrian-friendly/ not pedestrian-friendly	Pearson correlation	-0,411	0,413	0,465	1	0,641	0,340	0,175
	Significance (2-tailed)	0,000	0,000	0,000		0,000	0,000	0,045
	N	135	134	129	136	122	111	132
bike-friendly/ not bike- friendly	Pearson correlation	-0,620	0,464	0,535	0,641	1	0,421	0,280

	Significance (2-tailed)	0,000	0,000	0,000	0,000		0,000	0,002
	N	123	122	119	122	124	107	122
car-friendly/ not car-friendly	Pearson correlation	-0,360	0,361	0,300	0,340	0,421	1	0,164
	Significance (2-tailed)	0,000	0,000	0,002	0,000	0,000		0,087
	N	112	112	109	111	107	113	110
scarcely built-up/ densely built-up	Pearson correlation	-0,346	0,233	0,338	0,175	0,280	0,164	1
	Significance (2-tailed)	0,000	0,007	0,000	0,045	0,002	0,087	
	N	133	132	128	132	122	110	134

Descriptives

Table S4b: ANOVA (Oneway)

Independent Variable: Residential status

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
green/grey	non-resident	83	3,52	1,253	0,138	3,24	3,79	1	5
	resident	55	2,45	1,331	0,179	2,09	2,81	1	5
	Total	138	3,09	1,382	0,118	2,86	3,33	1	5
loud/quiet	non-resident	84	2,04	1,284	0,140	1,76	2,31	1	5
	resident	57	2,96	1,463	0,194	2,58	3,35	1	5
	Total	141	2,41	1,430	0,120	2,17	2,65	1	5
boring/interesting	non-resident	82	3,33	1,296	0,143	3,04	3,61	1	5
	resident	56	3,89	1,139	0,152	3,59	4,20	1	5
	Total	138	3,56	1,262	0,107	3,35	3,77	1	5
child-friendly/not child-friendly	non-resident	74	3,51	1,564	0,182	3,15	3,88	1	5
	resident	54	2,00	1,427	0,194	1,61	2,39	1	5
	Total	128	2,88	1,679	0,148	2,58	3,17	1	5
seniors-friendly/not seniors-friendly	non-resident	55	3,42	1,548	0,209	3,00	3,84	1	5
	resident	45	2,47	1,502	0,224	2,02	2,92	1	5
	Total	100	2,99	1,592	0,159	2,67	3,31	1	5
full/empty	non-resident	80	1,98	1,211	0,135	1,71	2,24	1	5
	resident	56	2,04	1,026	0,137	1,76	2,31	1	5
	Total	136	2,00	1,135	0,097	1,81	2,19	1	5
safe/unsafe	non-resident	81	2,54	1,441	0,160	2,22	2,86	1	5
	resident	56	2,23	1,206	0,161	1,91	2,56	1	5
	Total	137	2,42	1,354	0,116	2,19	2,64	1	5
hectic/relaxed	non-resident	84	2,43	1,467	0,160	2,11	2,75	1	5
	resident	56	3,54	1,414	0,189	3,16	3,91	1	5
	Total	140	2,87	1,540	0,130	2,61	3,13	1	5
pleasant/unpleasant	non-resident	83	2,95	1,431	0,157	2,64	3,26	1	5
	resident	55	2,02	1,225	0,165	1,69	2,35	1	5
	Total	138	2,58	1,424	0,121	2,34	2,82	1	5
attractive/unattractive	non-resident	77	3,35	1,393	0,159	3,03	3,67	1	5
	resident	54	2,17	1,314	0,179	1,81	2,53	1	5
	Total	131	2,86	1,477	0,129	2,61	3,12	1	5

pedestrian-friendly/not pedestrian-friendly	non-resident	80	2,39	1,445	0,162	2,07	2,71	1	5
	resident	56	1,64	1,341	0,179	1,28	2,00	1	5
	Total	136	2,08	1,446	0,124	1,84	2,33	1	5
bike-friendly/not bike-friendly	non-resident	69	3,28	1,626	0,196	2,88	3,67	1	5
	resident	55	1,98	1,521	0,205	1,57	2,39	1	5
	Total	124	2,70	1,701	0,153	2,40	3,00	1	5
car-friendly/not car-friendly	non-resident	61	3,64	1,391	0,178	3,28	4,00	1	5
	resident	52	3,06	1,577	0,219	2,62	3,50	1	5
	Total	113	3,37	1,501	0,141	3,09	3,65	1	5
scarcely built-up/densely built-up	non-resident	78	4,23	1,104	0,125	3,98	4,48	1	5
	resident	56	3,70	1,264	0,169	3,36	4,03	1	5
	Total	134	4,01	1,198	0,104	3,80	4,21	1	5

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
green/grey	Between Groups	37,416	1	37,416	22,681	0,000
	Within Groups	224,359	136	1,650		
	Total	261,775	137			
loud/quiet	Between Groups	29,319	1	29,319	15,868	0,000
	Within Groups	256,823	139	1,848		
	Total	286,142	140			
boring/interesting	Between Groups	10,569	1	10,569	6,928	0,009
	Within Groups	207,467	136	1,525		
	Total	218,036	137			
child-friendly/not child-friendly	Between Groups	71,514	1	71,514	31,452	0,000
	Within Groups	286,486	126	2,274		
	Total	358,000	127			
seniors-friendly/not seniors-friendly	Between Groups	22,408	1	22,408	9,607	0,003
	Within Groups	228,582	98	2,332		
	Total	250,990	99			
full/empty	Between Groups	0,121	1	0,121	0,094	0,760
	Within Groups	173,879	134	1,298		
	Total	174,000	135			
safe/unsafe	Between Groups	3,204	1	3,204	1,758	0,187
	Within Groups	246,081	135	1,823		
	Total	249,285	136			
hectic/relaxed	Between Groups	41,186	1	41,186	19,701	0,000
	Within Groups	288,500	138	2,091		
	Total	329,686	139			
pleasant/unpleasant	Between Groups	28,834	1	28,834	15,762	0,000
	Within Groups	248,789	136	1,829		
	Total	277,623	137			
attractive/unattractive	Between Groups	44,494	1	44,494	24,012	0,000
	Within Groups	239,032	129	1,853		
	Total	283,527	130			

pedestrian-friendly/not pedestrian-friendly	Between Groups	18,266	1	18,266	9,277	0,003
	Within Groups	263,845	134	1,969		
	Total	282,110	135			
bike-friendly/not bike-friendly	Between Groups	51,210	1	51,210	20,501	0,000
	Within Groups	304,750	122	2,498		
	Total	355,960	123			
car-friendly/not car-friendly	Between Groups	9,497	1	9,497	4,340	0,040
	Within Groups	242,892	111	2,188		
	Total	252,389	112			
scarcely built-up/densely built-up	Between Groups	9,307	1	9,307	6,762	0,010
	Within Groups	181,685	132	1,376		
	Total	190,993	133			

Descriptives

Table S4c: ANOVA (Oneway)
Independent Variable: Native Speaker

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
green/grey	native speaker	77	3,17	1,342	0,153	2,86	3,47	1	5
	non-native speaker	46	2,74	1,389	0,205	2,33	3,15	1	5
	Total	123	3,01	1,370	0,124	2,76	3,25	1	5
loud/quiet	native speaker	78	2,45	1,411	0,160	2,13	2,77	1	5
	non-native speaker	48	2,56	1,556	0,225	2,11	3,01	1	5
	Total	126	2,49	1,463	0,130	2,23	2,75	1	5
boring/interesting	native speaker	77	3,60	1,184	0,135	3,33	3,87	1	5
	non-native speaker	47	3,64	1,374	0,200	3,23	4,04	1	5
	Total	124	3,61	1,254	0,113	3,39	3,84	1	5
child-friendly/not child-friendly	native speaker	72	2,93	1,739	0,205	2,52	3,34	1	5
	non-native speaker	42	2,50	1,550	0,239	2,02	2,98	1	5
	Total	114	2,77	1,678	0,157	2,46	3,08	1	5
seniors-friendly/not seniors-friendly	native speaker	58	3,00	1,633	0,214	2,57	3,43	1	5
	non-native speaker	30	2,67	1,516	0,277	2,10	3,23	1	5
	Total	88	2,89	1,593	0,170	2,55	3,22	1	5
full/empty	native speaker	77	2,06	1,030	0,117	1,83	2,30	1	5
	non-native speaker	45	2,00	1,331	0,198	1,60	2,40	1	5
	Total	122	2,04	1,146	0,104	1,84	2,25	1	5
safe/unsafe	native speaker	76	2,38	1,366	0,157	2,07	2,69	1	5
	non-native speaker	46	2,15	1,316	0,194	1,76	2,54	1	5
	Total	122	2,30	1,346	0,122	2,05	2,54	1	5
hectic/relaxed	native speaker	79	2,78	1,473	0,166	2,45	3,11	1	5
	non-native speaker	46	3,30	1,590	0,234	2,83	3,78	1	5
	Total	125	2,98	1,532	0,137	2,70	3,25	1	5
pleasant/unpleasant	native speaker	78	2,62	1,398	0,158	2,30	2,93	1	5
	non-native speaker	45	2,24	1,401	0,209	1,82	2,67	1	5

attractive/unattractive	Total	123	2,48	1,405	0,127	2,23	2,73	1	5
	native speaker	76	2,97	1,414	0,162	2,65	3,30	1	5
	non-native speaker	41	2,39	1,531	0,239	1,91	2,87	1	5
pedestrian-friendly/not pedestrian-friendly	Total	117	2,77	1,476	0,136	2,50	3,04	1	5
	native speaker	76	2,09	1,416	0,162	1,77	2,42	1	5
	non-native speaker	45	1,87	1,471	0,219	1,42	2,31	1	5
bike-friendly/not bike-friendly	Total	121	2,01	1,435	0,130	1,75	2,27	1	5
	native speaker	72	2,74	1,687	0,199	2,34	3,13	1	5
	non-native speaker	40	2,48	1,768	0,280	1,91	3,04	1	5
car-friendly/not car-friendly	Total	112	2,64	1,713	0,162	2,32	2,96	1	5
	native speaker	66	3,42	1,530	0,188	3,05	3,80	1	5
	non-native speaker	38	3,18	1,540	0,250	2,68	3,69	1	5
scarcely built-up/densely built-up	Total	104	3,34	1,530	0,150	3,04	3,63	1	5
	native speaker	77	4,18	1,060	0,121	3,94	4,42	1	5
	non-native speaker	42	3,50	1,401	0,216	3,06	3,94	1	5
	Total	119	3,94	1,230	0,113	3,72	4,16	1	5

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
green/grey	Between Groups	5,317	1	5,317	2,876	0,092
	Within Groups	223,675	121	1,849		
	Total	228,992	122			
loud/quiet	Between Groups	0,385	1	0,385	0,179	0,673
	Within Groups	267,107	124	2,154		
	Total	267,492	125			
boring/interesting	Between Groups	0,049	1	0,049	0,031	0,861
	Within Groups	193,371	122	1,585		
	Total	193,419	123			
child-friendly/not child-friendly	Between Groups	4,917	1	4,917	1,759	0,187
	Within Groups	313,153	112	2,796		
	Total	318,070	113			
seniors-friendly/not seniors-friendly	Between Groups	2,197	1	2,197	0,864	0,355
	Within Groups	218,667	86	2,543		
	Total	220,864	87			
full/empty	Between Groups	0,120	1	0,120	0,091	0,764
	Within Groups	158,675	120	1,322		
	Total	158,795	121			
safe/unsafe	Between Groups	1,508	1	1,508	0,831	0,364
	Within Groups	217,869	120	1,816		
	Total	219,377	121			
hectic/relaxed	Between Groups	7,847	1	7,847	3,410	0,067
	Within Groups	283,081	123	2,301		
	Total	290,928	124			
pleasant/unpleasant	Between Groups	3,927	1	3,927	2,007	0,159
	Within Groups	236,773	121	1,957		

	Total	240,699	122			
attractive/unattractive	Between Groups	9,066	1	9,066	4,278	0,041
	Within Groups	243,703	115	2,119		
	Total	252,769	116			
pedestrian-friendly/not pedestrian-friendly	Between Groups	1,436	1	1,436	0,696	0,406
	Within Groups	245,555	119	2,063		
	Total	246,992	120			
bike-friendly/not bike-friendly	Between Groups	1,753	1	1,753	0,595	0,442
	Within Groups	323,961	110	2,945		
	Total	325,714	111			
car-friendly/not car-friendly	Between Groups	1,389	1	1,389	0,591	0,444
	Within Groups	239,832	102	2,351		
	Total	241,221	103			
scarcely built-up/densely built-up	Between Groups	12,634	1	12,634	8,907	0,003
	Within Groups	165,955	117	1,418		
	Total	178,588	118			

Report

Table S4d: MANOVA
Independent Variable:
Age group

		green/ grey	loud/ quiet	boring/ interesting	child- friendly/not child-friendly	seniors- friendly/ not seniors- friendly	full/ empty	safe/ unsafe	hectic/ relaxed	pleasant/ unpleasant	attractive/ unattractive	pedestrian- friendly/not pedestrian- friendly	bike- friendly/ not bike- friendly	car- friendly/ not car- friendly	scarcely built- up/densel y built-up
< 30 years	Mean	2,91	2,60	3,79	2,61	3,15	2,18	2,32	3,41	2,11	2,47	1,95	2,54	3,31	3,67
	N	44	45	43	41	33	45	44	44	45	43	44	41	36	43
	Std. Deviation	1,273	1,338	1,103	1,464	1,395	1,302	1,095	1,545	1,210	1,334	1,329	1,629	1,327	1,229
30-60 years	Mean	3,22	2,34	3,49	3,04	2,98	1,88	2,50	2,68	2,93	3,06	2,11	2,65	3,38	4,12
	N	72	73	72	67	49	69	72	72	69	65	70	63	58	69
	Std. Deviation	1,396	1,539	1,300	1,727	1,639	1,065	1,424	1,500	1,478	1,499	1,480	1,752	1,576	1,207
> 60 years	Mean	3,05	2,26	3,35	2,85	2,72	2,00	2,33	2,46	2,46	3,04	2,23	3,20	3,47	4,32
	N	22	23	23	20	18	22	21	24	24	23	22	20	19	22
	Std. Deviation	1,558	1,251	1,402	1,927	1,841	,976	1,623	1,444	1,414	1,581	1,602	1,673	1,645	,995
Total	Mean	3,09	2,41	3,56	2,88	2,99	2,00	2,42	2,87	2,58	2,86	2,08	2,70	3,37	4,01
	N	138	141	138	128	100	136	137	140	138	131	136	124	113	134
	Std. Deviation	1,382	1,430	1,262	1,679	1,592	1,135	1,354	1,540	1,424	1,477	1,446	1,701	1,501	1,198

ANOVA Table

		Sum of Squares	df	Mean Square	F	Sig.
green/grey	Between Groups	2,740	2	1,370	0,714	0,492
	Within Groups	259,035	135	1,919		
	Total	261,775	137			
loud/quiet	Between Groups	2,469	2	1,234	0,600	0,550
	Within Groups	283,673	138	2,056		
	Total	286,142	140			
boring/interesting	Between Groups	3,716	2	1,858	1,170	0,313
	Within Groups	214,320	135	1,588		
	Total	218,036	137			
child-friendly/not child-friendly	Between Groups	4,828	2	2,414	0,854	0,428
	Within Groups	353,172	125	2,825		
	Total	358,000	127			
seniors-friendly/not seniors-friendly	Between Groups	2,157	2	1,078	0,420	0,658
	Within Groups	248,833	97	2,565		
	Total	250,990	99			
full/empty	Between Groups	2,350	2	1,175	0,910	0,405
	Within Groups	171,650	133	1,291		
	Total	174,000	135			
safe/unsafe	Between Groups	1,073	2	0,536	0,290	0,749
	Within Groups	248,212	134	1,852		
	Total	249,285	136			
hectic/relaxed	Between Groups	19,438	2	9,719	4,292	0,016
	Within Groups	310,247	137	2,265		
	Total	329,686	139			
pleasant/unpleasant	Between Groups	18,583	2	9,291	4,842	0,009
	Within Groups	259,040	135	1,919		
	Total	277,623	137			
attractive/unattractive	Between Groups	10,119	2	5,059	2,369	0,098
	Within Groups	273,408	128	2,136		
	Total	283,527	130			
pedestrian-friendly/not pedestrian-friendly	Between Groups	1,252	2	0,626	0,296	0,744
	Within Groups	280,858	133	2,112		
	Total	282,110	135			
bike-friendly/not bike-friendly	Between Groups	6,247	2	3,124	1,081	0,343
	Within Groups	349,713	121	2,890		
	Total	355,960	123			
car-friendly/not car-friendly	Between Groups	0,358	2	0,179	0,078	0,925
	Within Groups	252,031	110	2,291		
	Total	252,389	112			
scarcely built-up/densely built-up	Between Groups	7,705	2	3,853	2,754	0,067
	Within Groups	183,287	131	1,399		
	Total	190,993	133			