

7.2.2023 SPT-E5020 Marketta Kyttä

		10.1.	17.1.	24.1.	31.1.	7.2.	14.2.	21.2
When?	What happens?	Start of the course	Lectures & group work presentations	Lectures & group work presentations	Lectures	Lectures	Lectures	Final session
10.00-10.45		Introduction	Perceived safety	Restorative Environments	Knowledge from people in planning	Socially sustainable and health promoting environment	Various urban user groups	Final presen- tations
10.45- 11.30		Student's presentations about the pre-task	Functional Environments	Sense of Community	The preparation of PPGIS data for analysis (Tiina Rinne)		Age-friendly environments (Tiina Rinne)	
	Contents of the contact session	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
12.30-13.15	SESSION	Student's presentations about the pre-task	Aesthetic Experiences	Place Attachment	Various levels of PPGIS data analysis (Tiina Rinne)	Activity space modelling (Kamyar Hasanzadeh)	Child-friendly environments	Final discussion
12.30-14.00					Online and onsite PPGIS data analysis	Group work	From city streets to playgrounds and suburban woodlands (Veera Moll)	
Group work		Group work 1 starts	Group work 1 presentations	Group work 1 presentations	Group work 2 starts	Group work 2	Group work 2	Group work 2 presentations
Individual work								

PROGRAMME OF TODAY Lectures

10.15-11.30

Marketta Kyttä: Socially sustainable & health promotive environments

LUNCH

12.30-14.00

Kamyar Hasanzadeh: Spatial units of analysis: Use of activity space models in environmental health promotion studies

Group work

TODAY

SOCIAL SUSTAINABILITY & HEALTH PROMOTIVE ENVIRONMENT

GROUP WORK CONTINUES

PLEASE CONTACT Tiina or Marketta to get support! tiina.e.rinne@aalto.fi marketta.kytta@aalto.fi



Discuss with another student:

- What are the essential characteristics of socially sustainable environment?





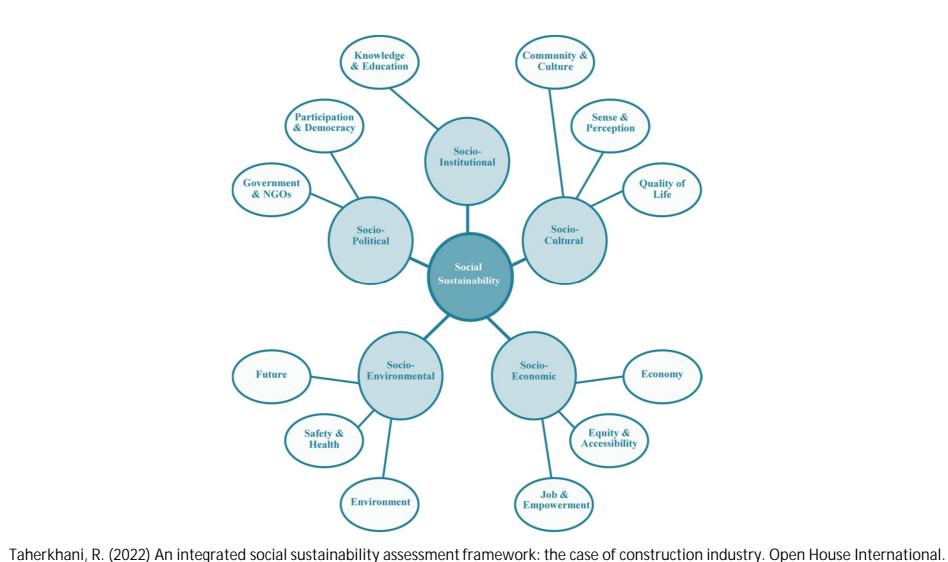
Conceptual Model and Christchurch Case Study. Housing Studies, Vol. 23, No. 3, 423–441.

Ancell & Thompson-Fawcett

Medium Density Housing: A

(2008) The Social Sustainability of

Figure 3. Conceptual evaluation model of the social sustainability of housing



Inhabitants' health and well-being

Sustainability of community

- pride in and attachment
- social interaction

- satisfaction with the home
 - stability

Social equity

- access to services and opportunities
- health centres

Bramley G, Dempsey N, Power S, Brown C, Watkins D, 2009, "Social sustainability and urban form: evidence from five British cities" Environment and Planning A, 41, 2125–2142

How to change or promote ecofriendly behavior?

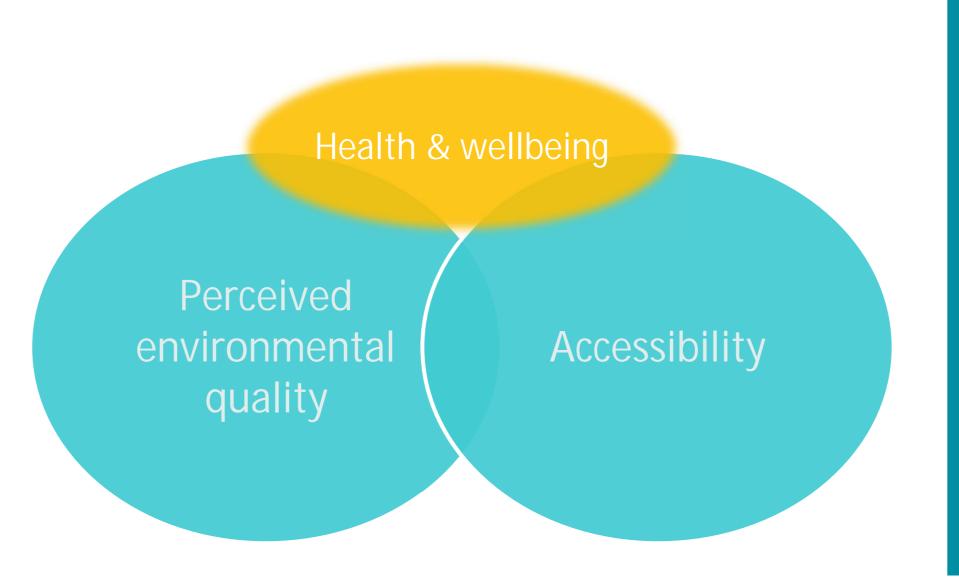
Why people behave the way they do?

How various contexts meet the basic needs of people?

BRIDGE SOCIAL SUSTAINABILITY

MAINTENANCE SOCIAL SUSTAINABILITY DEVELOPMENT SOCIAL SUSTAINABILITY

Vallance S, Perkins H C, Dixon J E, 2011, "What is social sustainability? A clarification of concepts" Geoforum 42 342–348



Our model in Urban Happiness -study: the combination of the two



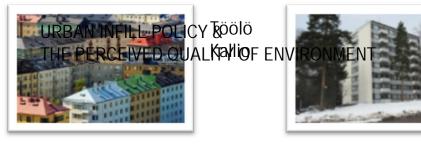
SOCIAL

SUSTAINABILITY

SUSTAINABILITY

SOCIAL

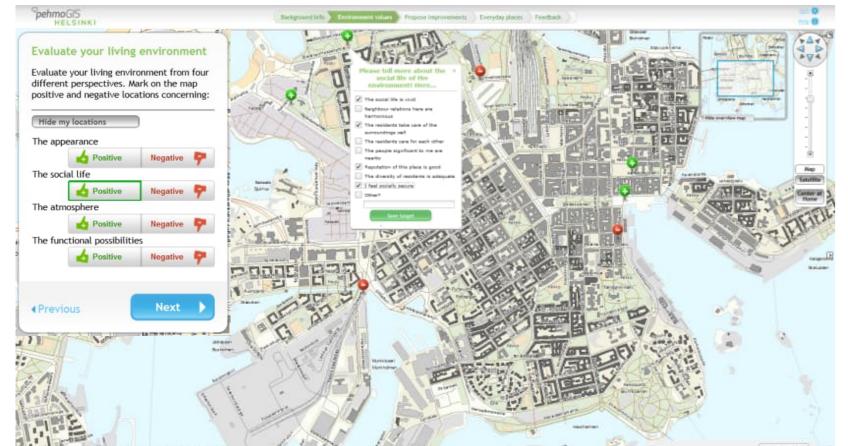
SUSTAINABILITY



Pohjois-Haaq Kannelmäki Lassila Kontula Mellunmäki



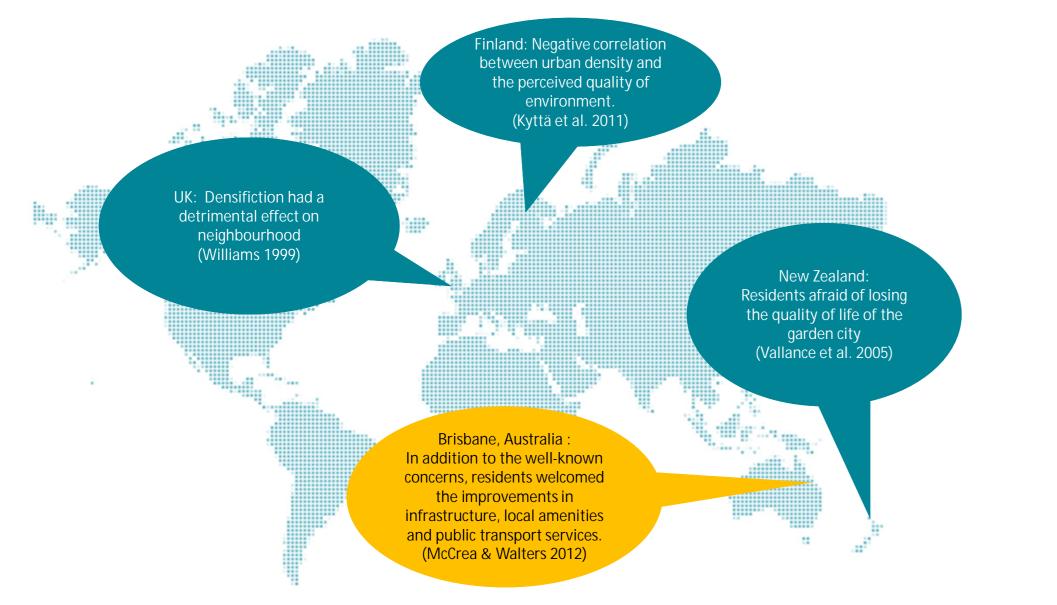
Suvela Leppävaara Matinkylä Soukka



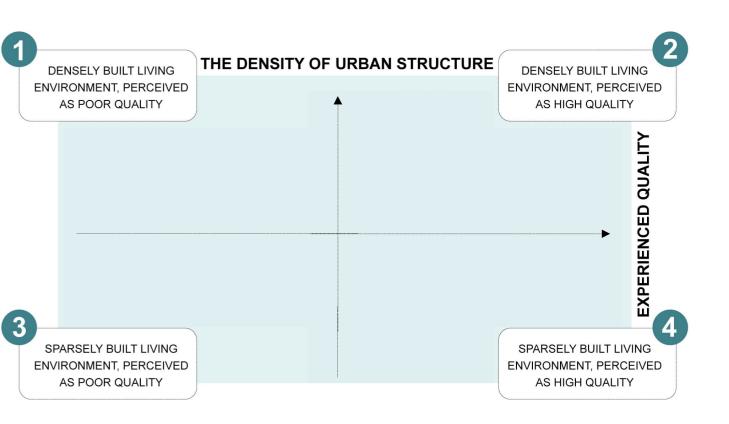
Urban Happinessproject

Urban intensification policy



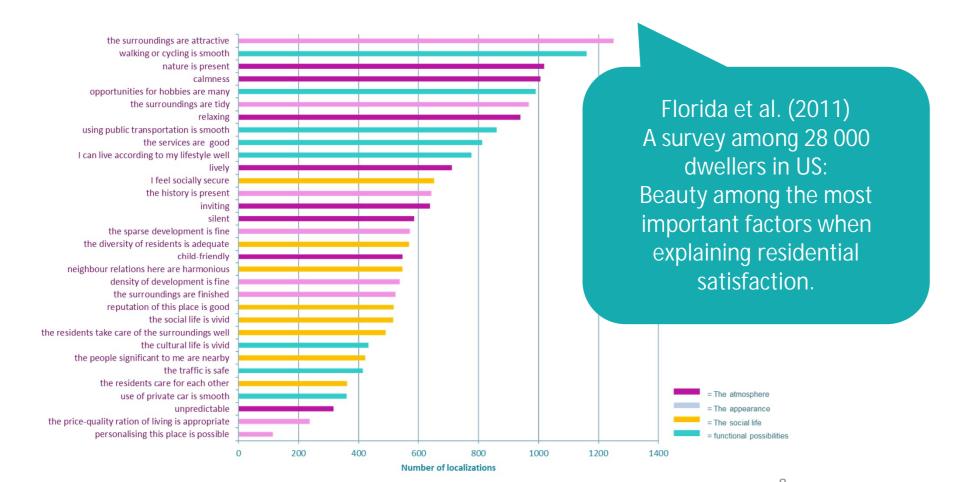


THE SOCIAL ACCEPTANCE OF URBAN DENSIFICATION



The contents of positive quality factors

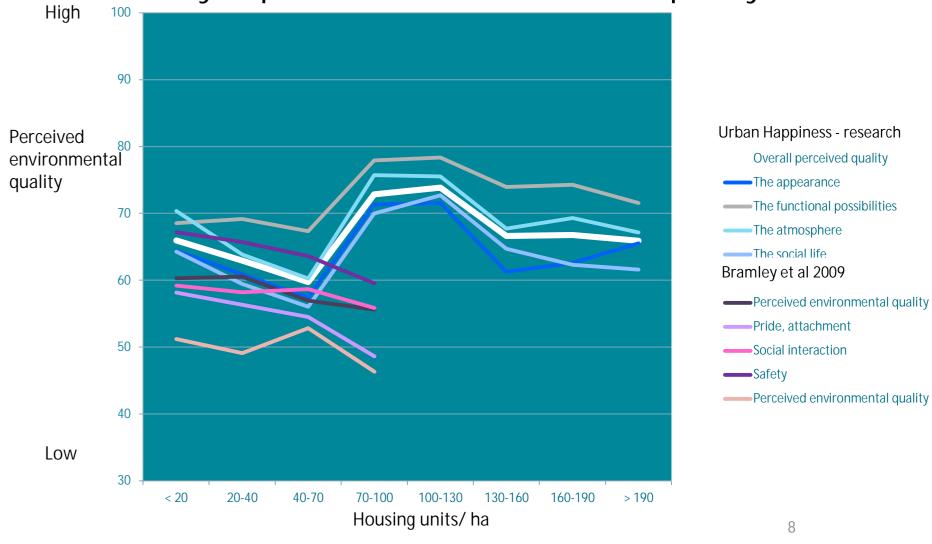
(Urban Happiness –study)



INDIVIDUALLY
SENSITIVE
ANALYSIS OF
URBAN
STRUCTURE

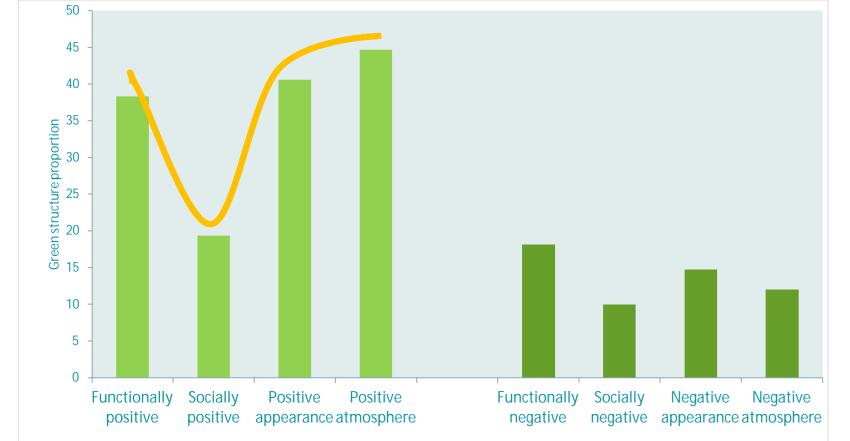


Urban density & perceived environmental quality



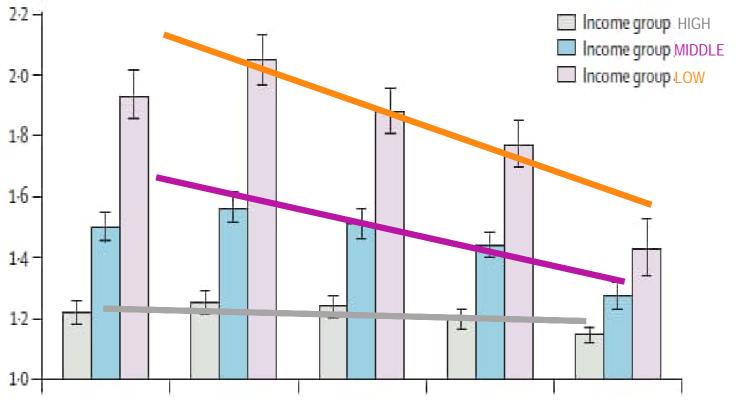
ALSO GREEN PLACES EXTREMELY VALUABLE EXPERIENTIALLY!

Green structure proportion & various types of quality places



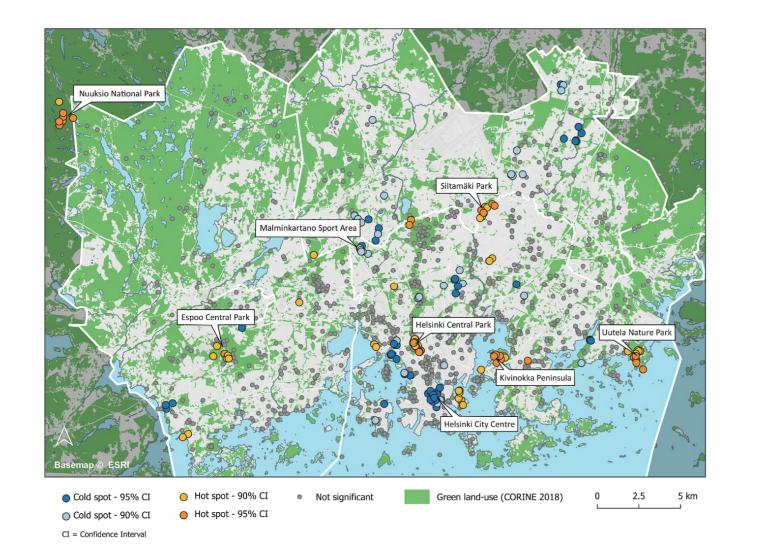
GREEN STRUCTURE AND MORTALITY IN VARIOUS SOCIO-ECONOMIC GROUPS

A All-cause mortality



Mitchell, R & Popham, F. (2008) Effect of exposure to natural environment on health inequalities: an observational population study. The Lancet, Vol.372, Issue 9650, 1655-1660.







Kajosaari, Anna; Pasanen, Tytti P. (2021) Restorative benefits of everyday green exercise: A spatial approach. Landscape and Urban Planning 206, 103978.

	Relaxation	Stress reduction	Nature enjoyment
rge recreational rests	74,8	69,9	91,1
rge urban rests	67	61	91,5
ue spaces	71,5	65	81,5
nall urban rests	55,3	49,1	88,6
aintained urban een space	58,4	48,4	77
itdoor sports cilities	57,6	55,9	63,1
ilt outdoor vironment	50	42	68,2

1(

"Planning and health is big news"

(Boarnet, 2006)

BUT

HOW ABOUT HEALTH AND WELLBEING?

TWO WAVES OF ENVIRONMENTAL HEALTH PROMOTION RESEARCH

Indirect Health promotive characteristics of environment

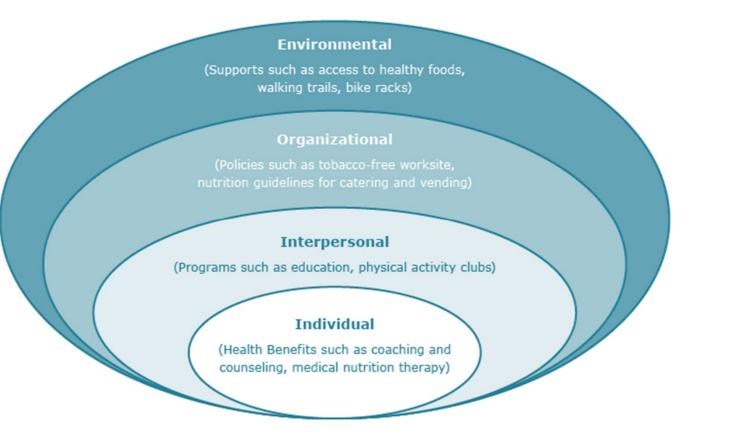
Direct IIIness producing characteristics of environment

THE PROPORTION OF OVERWEIGHT 25-65-YEAR-OLDS FINNS BETWEEN 1978-2015

(Self-reported weight and height, BMI>30)



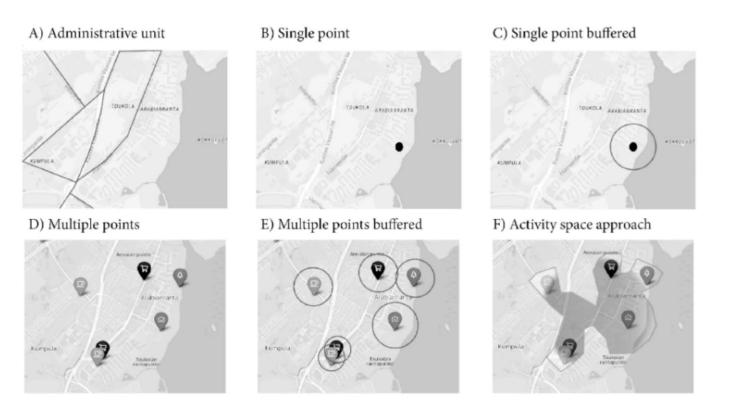
ECOLOGICAL MODEL(S) OF ENVIRONMENTAL HEALTH PROMOTION



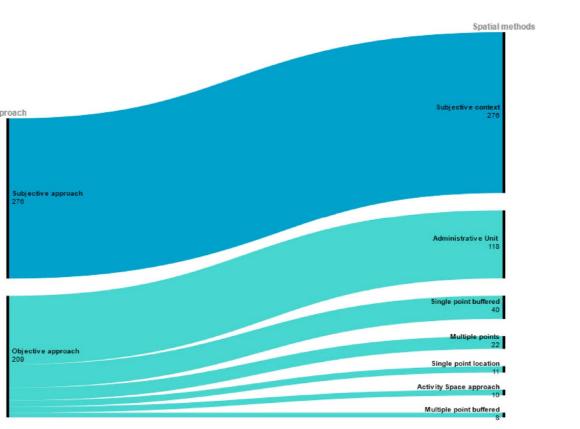
RESEARCH ON THE HEALTH PROMOTIVE CHARACTERISTICS OF LIVING ENVIRONMENT



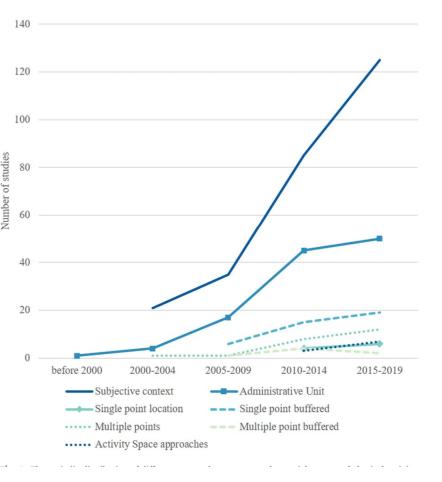
THE METHODOLOGICAL APPROACHES USED IN SOCIAL ECOLOGICAL RESEARCH OVER TWO DECADES



Rinne, T. Kajosaari, A. Soderholm, M. Berg, P. Pesola, A. Smith, M. & Kyttä, M. (2022) Delineating the geographic context of physical activities: A systematic search and scoping review of the methodological approaches used in social ecological research over two decades. Health & Place, 73, 102737.



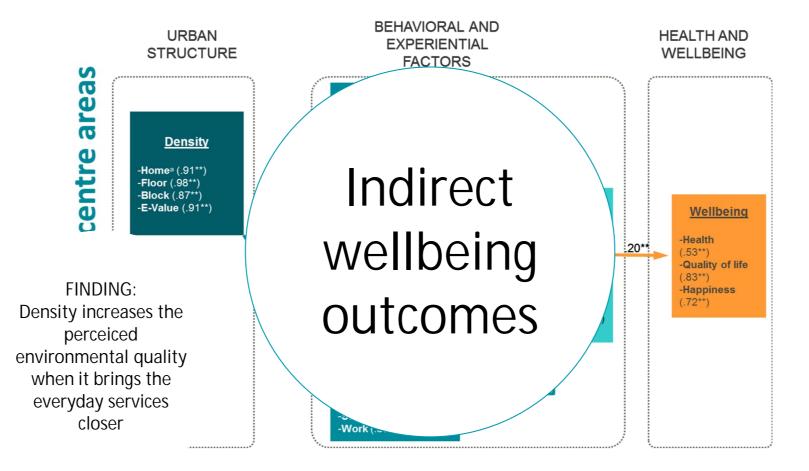
Health and Place 73 (2022) 102737

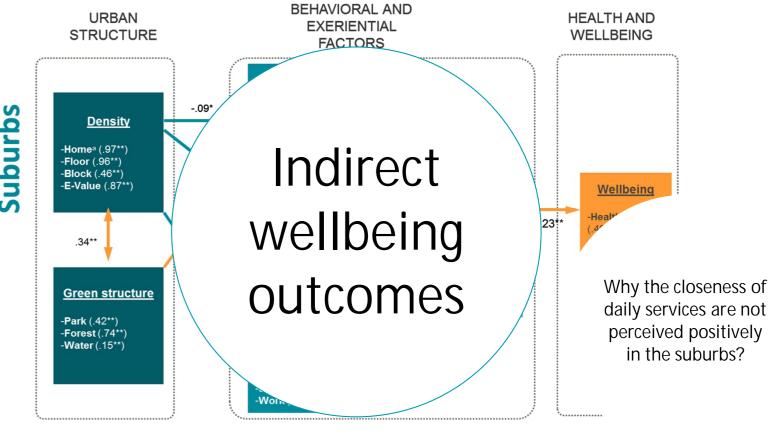


Our model: health is an outcome of socially sustainable environment



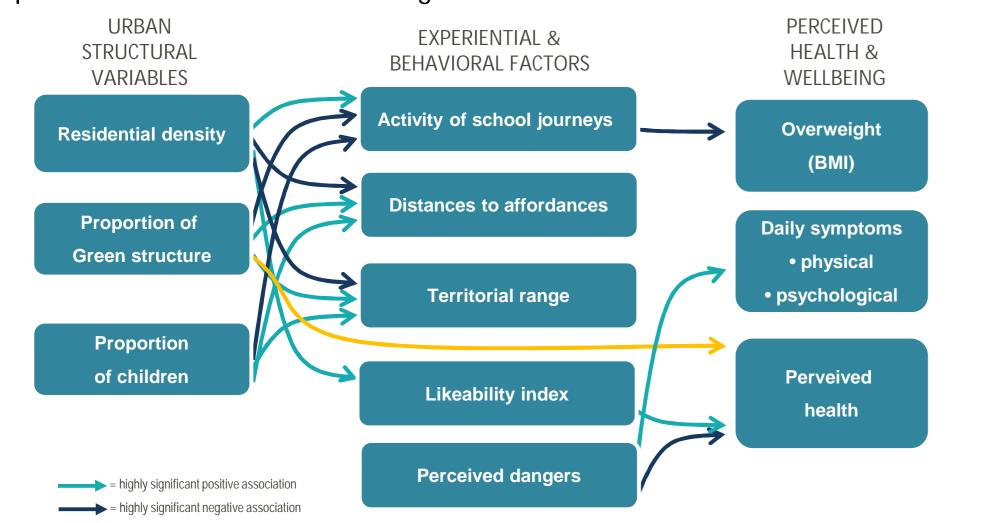
CONTEXTUALLY VARYING ASSOCIATIONS



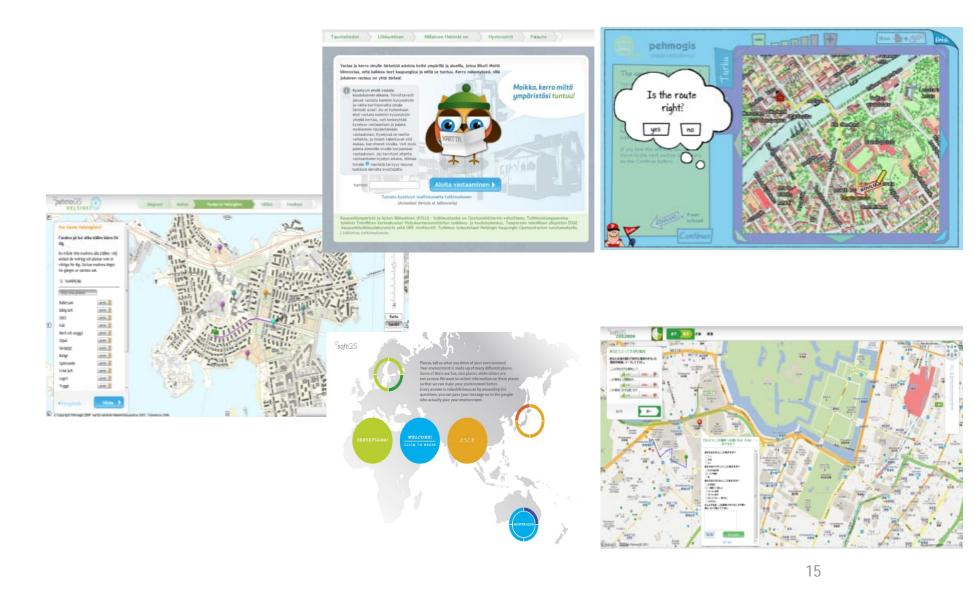


Kyttä, M. Broberg, A., Haybatollahi, M., and Schmidt-Thomé, K. (2016) Urban happiness – Context-sensitive study of the social sustainability of urban settings. Environment and Planning B: Planning and Design, vol 43, 34 – 57.

Factors that predict childrens' environmental experiences and their perveived health and wellbeing



PARALLEL FINDINGS FROM STUDIES OF CHILDREN



DEFINING THE INDIVIDUAL, DYNAMIC ACTIVITY SPACE

Hasanzadeh, K. (2018) IASM: Individualized activity space modeler. SoftwareX, Volume 7, January - June 2018, Pages 138-142

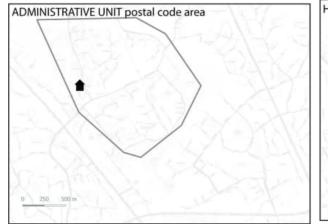
1. Stafic administrative

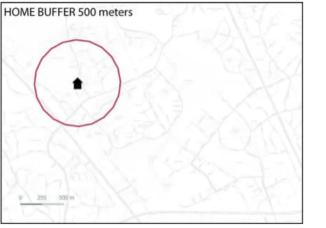
3. Dynamic,

individual

activity

space





2. Static buffers around home

WHAT IS THE PROBLEM?

HOME RANGE MODEL



4. Dynamic fabric of an individual activity

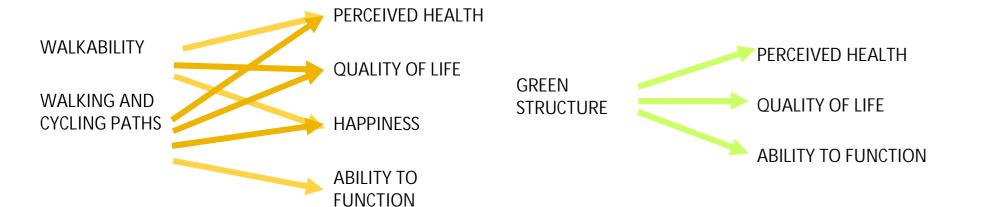


ACTIVE AGING PhD project: Tiina Laatikainen

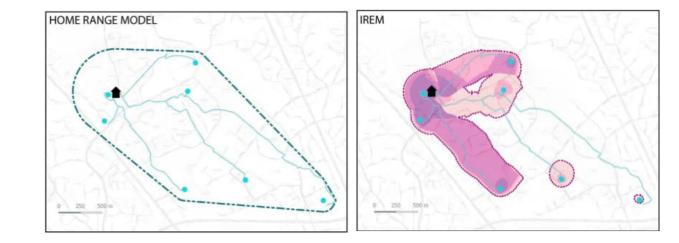




AGAIN: HOW ABOUT HEALTH & WELLBEING?



3. Dynamic, individual activity space



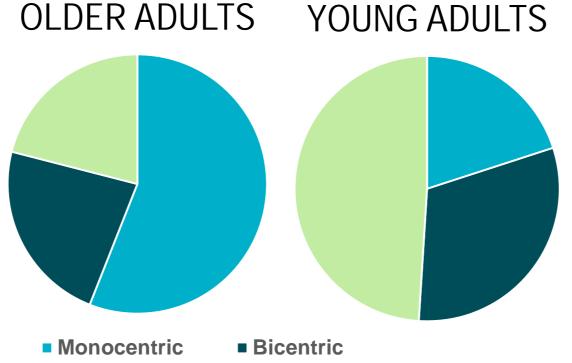
SOME RESULTS

4. Dynamic

fabric of an

individual

activity



Monocentricity & perceived health

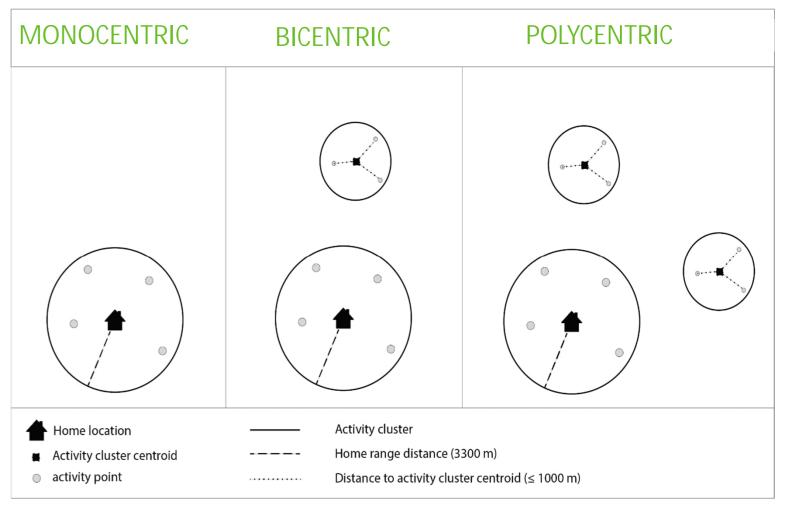
 In both groups, monocentric lifestyle was associated with better perceived health

Polycentricity & quality of life

- Among young adults monocentric lifestyle was also associated with higher perceived quality of life
- Among older adults polycentric lifestyle was associated with lower perceived quality of life

Hasanzadeh et al. 2020

ACTIVITY SPACE TYPOLOGY



RECENT STUDY: 14 CITIES, 10 COUNTRIES, 5 CONTINENTS

Urban structural characteristics promoting active living:



• Population density p=0.001



• Intersection density p=0.019



• Public transportation stop density p=0.0007



• Number of parks p=0.010

68-89
min/week
more
physical
activity

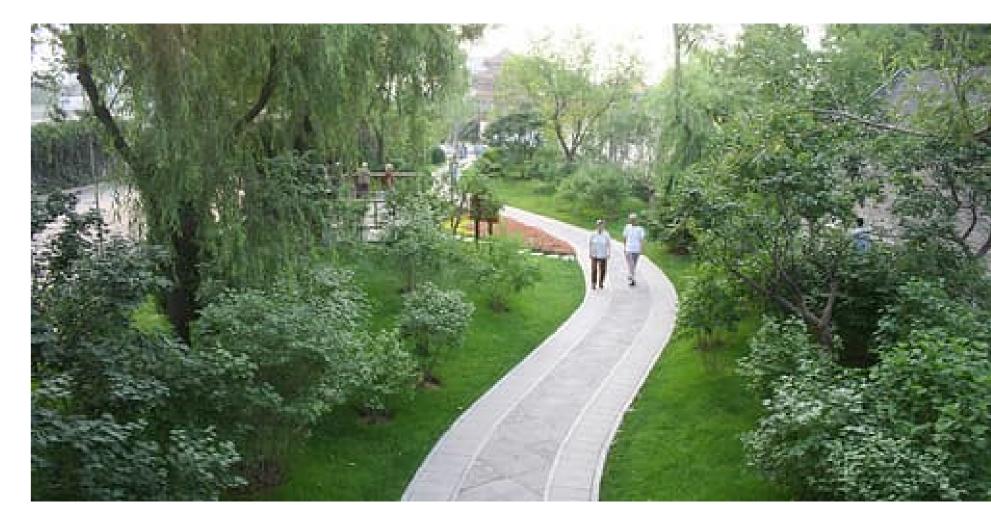
Sallis, J.F. et al. (2016) Physical activity in relation to urban environments in 14 cities worldwide: a cross-sectional study. The Lancet 6736(16):348.

TO CONCLUDE: RESEARCH ON THE HEALTH PROMOTIVE CHARACTERISTICS OF LIVING ENVIRONMENT

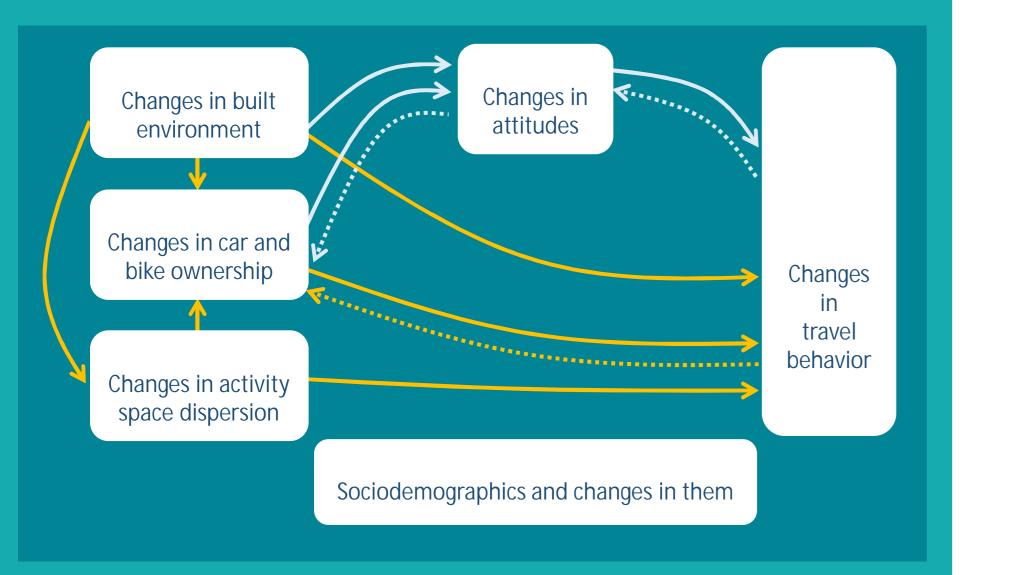


LINEAR PARKS!

Brown, G. Schebella, M.F. & Weber, D. (2014) Using participatory GIS to measure physical activity and urban park benefits. Landscape and Urban Planning, 121, 34-44.





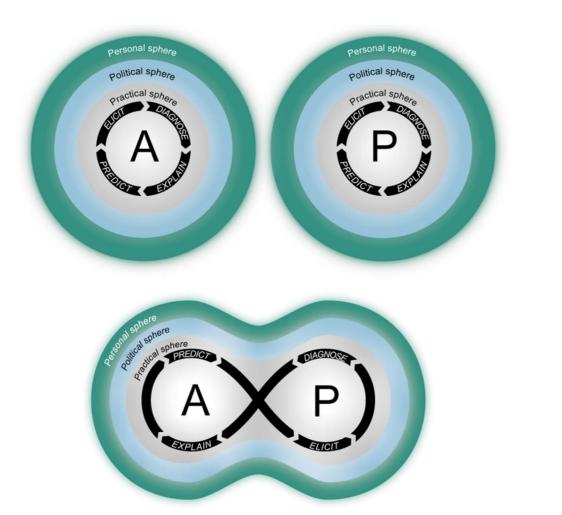


CAN ATTITUDES CHANGE AND NUDGING WORK?

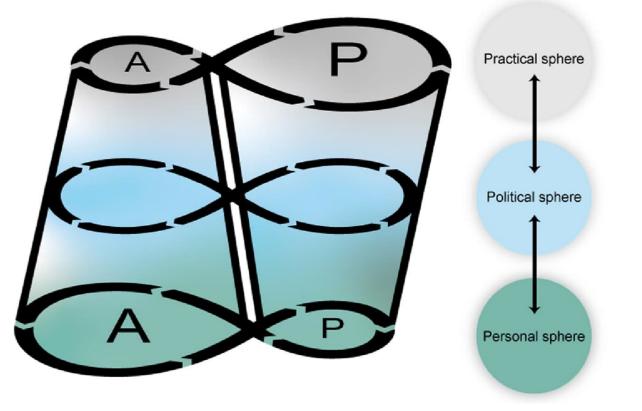
THE STUDY OF PEOPLE MOVING FROM ONE TYPE OF A NEIGHBOURHOOD TO ANOTHER

Ramezani, S. et al (2020) Residential relocation and travel behavior change: investigating the effects of changes in the built environment, activity dispersion, car and bike ownership, and travel attitudes. Submitted to Transportation Research Part A: Policy and Practice.





NEW, FINNISH ACADEMY FUNDED RESEARCH PROJECT: TRANSFORMATIVE CITIES



Grêt-Regamey, A. Switalski, M. Fagerholm, N. Korpilo, S. Juhola, S. Kyttä, M. Käyhkö, N. McPhearson, T. Nollert, M. Rinne, T. Soininen, N. Toivonen, T. Räsänen, A. Willberg, E. & Raymond, C.M. (2021) Harnessing sensing systems towards urban sustainability transformation. npj Urban Sustainability, 40, 1-9.

