

Your childhood experiences?

Child-Friendly Environment



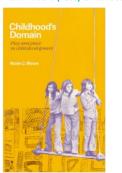


Roger Hart (1979) Children's Experiences of Place



Classic studies about environmental childfriendliness

Robin Moore (1986) Childhood's Domain

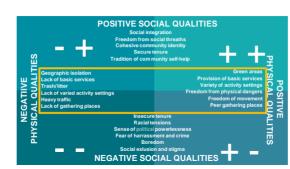




https://naturalearning.org/

Indicators of environmental quality defined by children









Chawla 2002: Growing up in an urbanising world

PROBLEMS CONNECTED TO CHILDREN'S MOBILITY RESTRICTIONS

Physical development (Hüttenmoser 1995; Amstrong 1993; Davis & Jones 1996)

Social development (Prezza et al 2001)

Cognitive development (Biel & Torell 1977; Blades 1989; Rissotto & Tonucci 2002)

Emotional development (Kong 2000; Corbishley 1995)

Time used for chauffering (Tillberg Mattson 2000)

Mothers' working (Gershuny 1993)

Traffic jams (Bradshaw 1999)



Environmental childfriendliness

Kyttä (2003)





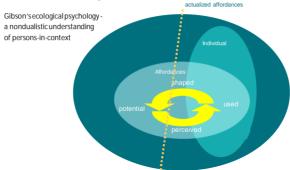
GLASSHOUSE

Number/diversity of actualized affordances

Affordance 'spectacles'



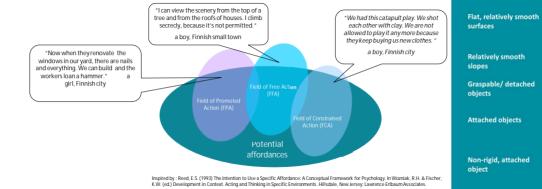
Theoretical background:



Affordances of urban environment



SOCIAL DIMENSIONS OF **AFFORDANCES**



surfaces







Non-rigid, attached















Climbable feature

Shelter

Water









WASTELAND	BULLERBY
CELL	CLASSHOUSE

many affordances. The actualization of affordances motivates further exploration and

Any environment where children are allowed to be a part of every day life





Affordances of every day life

Negative affordances: risks and dangers





GLASSHOUSE

be based on second hand information.









Duties as affordances



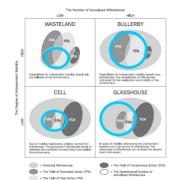


AVAILABILITY OF AFFORDANCES IN DIFFERENT COMMUNITIES



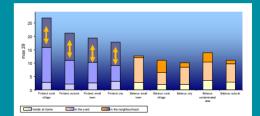
ENVIRONMENT

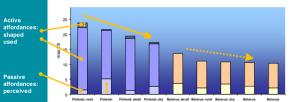
THE HYPOTHETICAL NUMBER OF ACTUALIZED **AFFORDANCES IN EACH TYPE OF**

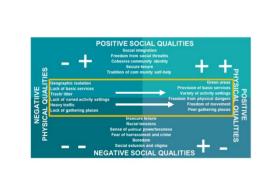


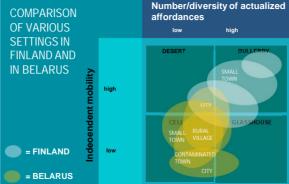
WHERE ARE THE AFFORDANCES LOCATED?









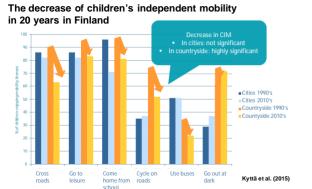


BULLERBY MODEL HAS BEEN USED TO ADVICE CHILD-FRIENDLY PLANNING AND DESIGN



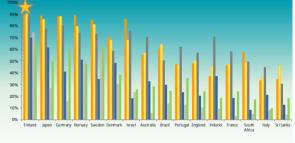
- Things to do -





LATER: CHILDREN'S INDEPENDENT MOBILITY IN 2010'S

Children's independent mobility in 16 countries Mobility licences given by parents (Shaw et al. 2015)



■ Home from school

Go to places within walking distance

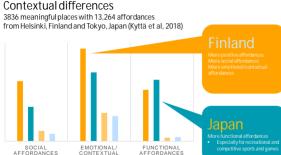
Cross main roads

Cycle on main roads

Go out after dark

Travel on local buses





Contextual differences

The location of meaningful outdoor places

Finland

Japan

- Average distance from home: 1,1 km





- Positive Finland Positive Japan Negative Finland Negative Japan
- AFFORDANCES

Behavior settings

189



Here: a shopping

Behavior settings – clusters of affordances



Behavior settings in Helsinki and Tokyo



ountries

Indoor and commercial settings perceived most positively, traffic areas most

Outdoor settings shared with other user groups dominate

Land use $X^2 = 24.6$, df = 5, p = .000

79.9% $X^2 = 12.4$, df = 1, p = .000Japan: Commercial, recreational, traffic and religious settings more

In both countries:

between the

Finland: Natural and educational

settings more common

The Master's thesis of Ella Paasilinna Children's home range 1661 respondents Two age groups: 12 and 15 year-olds Main results: Mean home range = 15 km² Still: over half of the activity places located less than 2 km distance from home Older children and girls had wider home ranges Majority of activity places located in built areas (n=9000; 88%); minority in green areas (n=1201; Very large (over 20 km²) home ranges associated with lower perceived health

ONGOING NORDGREEN-STUDY IN CITY OF ESPOO

PLACE-BASED DATA DROM CHILDREN CAN BE USED BY PLANNERS

CASE: CITY OF LAHTI,



To think about...

A model for human-friendly environment?

Accessibility of environmental



Diversity/amount of environmental opportunities

Thank you!

Selected publications:

Broberg, A. Salminen, S. & Kytta, M. (2013) Physical environmental characteristics promoting independent and active transport to children's meaningful places. Applied Geography, Vol. 38, 43-52.

Broberg, A. Kyttä, M. & Fagerholm, N. (2013) Child-friendly Urban Structures: Bullerby Revisited. Journal of Environmental Psychology. Vol. 35, 110-

Fyhrit, A Hjorthol, R, Mackett, R. Nordpaard Fotel, T. & Kytta, M. (2011) Children's active travel and independent mobility in four countries: Development, social contributing trends and measures. Transport Policy, Vol. 18, issue 5, 703-710.

Kytta, M. (2008) Children in outdoor contexts. Microflances and independent mobility in the assessment of environmental child friendliness. PhD

thesis, Helsinki University of Technology. Available at: http://lib.tkk.fl/Diss/2003/sbin9512268736/isbn9512268736.pdf Kyttak. M. (2004) The Extent of Children's Independent Mobility and the Number of Actualized Alfordances as Criteria of a Child-Friendly Environment. Journal of Environmental Psychology, Vol. 24, Issue, 179-198.

Kyttä, M. Hirvonen, J. Prjola, I. Laatikainen, T. & Rudner, J. (2015) The last free-range children? Children's independent mobility in Finland in 1990's and 2010's. Journal of Transport Geography, 47, 1-12.

Kytta, M. Kaaja, M.& Horelli, L. (2004). An Internet-based Design Game as a Mediator of Children's Environmental visions. Environment & Behavior, Vol. 36, Issue 1, 127 – 151. Kytta, M. Oliver, M. Ikeda, E. Ahmadi, E. Omiya, I. & Laatikainen, T. (2018) Children as urbanites: Mapping the affordances and behavior settings of

Kyttä, M. (2002) The Affordances of Children's Environments, Journal of Environmental Psychology, Vol. 22, Issue 1, 109 - 123.

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Laatikainen, T. Broberg, A. & Kytta, M. (2017) The physical environment of positive places: Exploring differences between age groups. Preventive Advirtices. Vol 65 SRs. 501.

Leskinen, Aino (2015) Kaupunki lasten kokemana: lahtelaisten lasten kokemuksia jalankulku-, joukkolilikenne- ja autovyöhykkeiltä. Master's thesis. Aalto University, Department of Architecture.

Allido University, Legarrment of Arcinitecture.

Shaw, B. Bicket, M. Elliott, B. Fagan-Watson, B. Mocca, E. & Hillman, M. (2015) Children's independent mobility. An International Comparison and Recommendations for Action. Policy Studies Institute. London.