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Aesthetic Perspectives to Urban Technologies: Outlining the Experiential Sustainability of Smart City Solutions

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Abstract

The pervasiveness of **technology** has undeniably changed the way the urban everyday is structured and experienced. The experiential sphere consists increasingly of objects and activities that combine advances in technology and design in complex ways. Understanding the deep impact of this development on the everyday experience and its aesthetic elements is needed in order to determine how the skills and capacities to cope with the change, as well as to steer it, can be improved. We start with the inevitable recognition that technology has already profoundly changed the way urban environments are perceived and experienced. The overall aim is to describe how this shift within the experiential sphere is affecting people and their relationship with everyday urban environments.

Aesthetics?

- Philosophy of perception, sensory experience ("science of sensory cognition", Baumgarten)
- Aesthetics as distribution of the sensible ("partage du sensible", Rancière)
- The look and feel of cities affects its inhabitants through using of the city (both on conscious and unconscious levels)
- In this context, framework for assessing how the urban lifeworld becomes processed in the human experience
- Bringing together everyday and urban aesthetics with philosophy of technology (postphenomenology; see e.g. Ihde 1990 & 1993, Verbeek 2005)

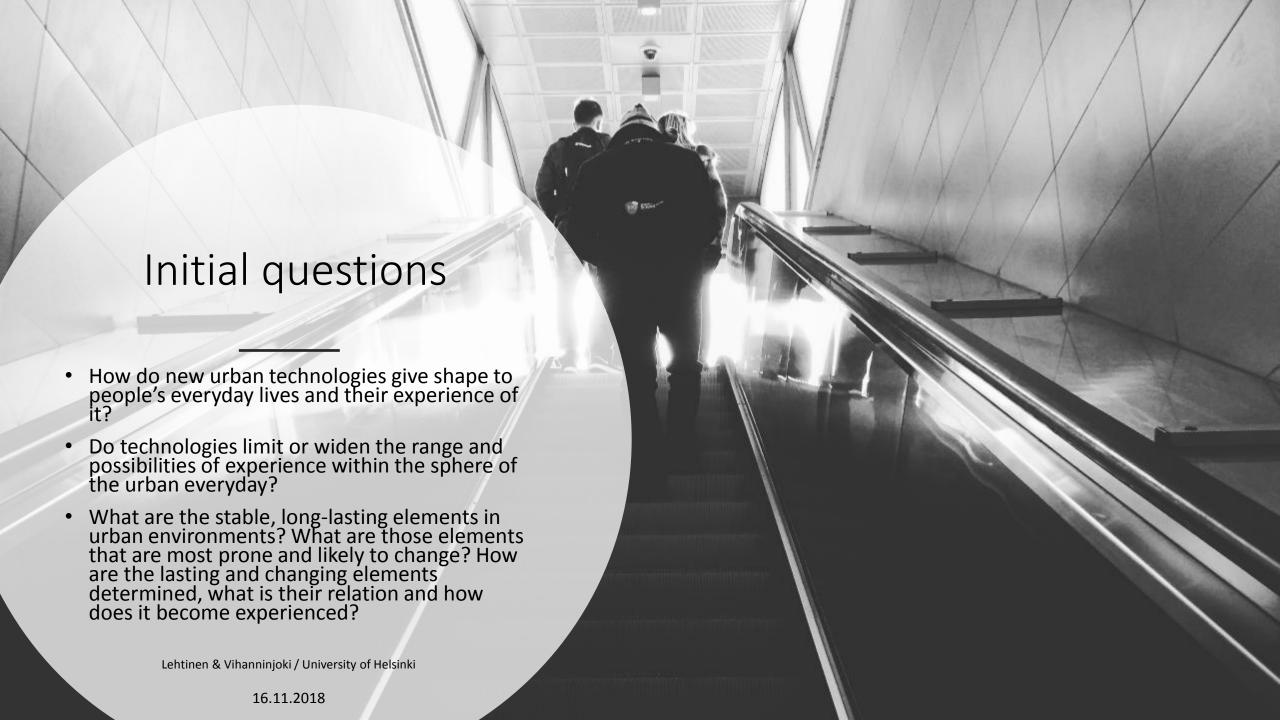


Urban Aesthetics

- 1. Attention to exquisite or outstanding experiential qualities of the environment; the "intentional attention to aesthetics" (Saito 2017, p. 9), the tourist's gaze (Urry & Larsen 2011)
- 2. Everyday engagement with the city, defined by familiarity (Haapala 2005), practices and routines; basal sensory-based experience of continuity that defines our relation to our own particular everyday environments

Implementing new urban technologies adds an element of strangeness also to the familiar urban lifeworld





Starting Points

- The experiential sphere of the urban everyday consists increasingly of objects and activities that combine advances in technology and design in complex ways
- Technology has already profoundly changed cities (objective, structural level) and the way they are perceived and experienced (subjective, experiential level)
- Contemporary cities cannot be understood without emphasis on human-technology relations
 - Contribution of philosophical traditions of thinking about the city?



Aim

- To understand how new urban technologies give shape to people's everyday lives and their experience of it
- To describe how this development and process of change within the experiential sphere is affecting people and their relationship with their everyday urban environments
- To increase the means of evaluating the experiential effects of particular technologies
- To show that urban aesthetics offers useful perspectives to discerning and assessing the experiential repercussions



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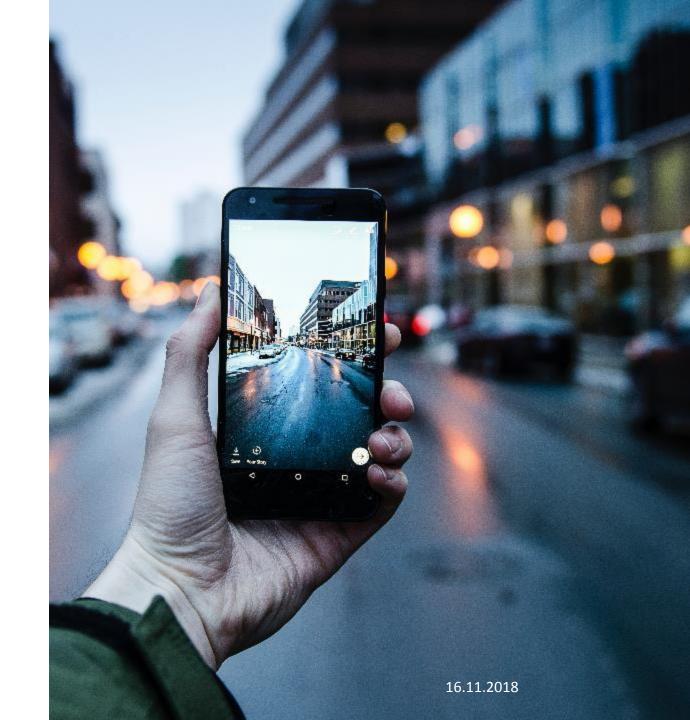
Hypotheses

- Implementation of new technologies initiates a process of deeper adaptation which transforms everyday experience of urban dwellers through changing their habits, expectations, preference, behaviour and, ultimately, values
- Change as such becomes naturalized through implementation of new technologies
- Technology acts as an agent of change in the urban environment changing also that which is seemingly beyond its immediate sphere



New urban technologies?

- Case: location-based mobile technologies, that affect and are used to assist in navigation and *urban wayfinding practices*
- Applicable to a wider range of (emerging?) technologies or even smart city ideology in general?



Case: Wayfinding

- Moving around in the city and the related wayfinding practises have undergone major changes due to the rise of portable technological navigation aids
- Previously out-of-reach places are now effortlessly and safely accessible to more people: numerous new environmental affordances
- Major change in which environmental affordances are de facto utilized and how
- "Skilled agent": the way people make use of affordances in their everyday life essentially affects their skills that eventually define the agent's relation to her environment – that is, "the way the meaningful world appears to her in perception" (Rietveld & Kiverstein 2014, p. 341)
- Applications are transforming the way we experience our environment: the way we distribute our attention and construct "mental maps" in order to orientate ourselves
- Such changes in environmental experience have also notable aesthetic consequences



Case: Wayfinding

- The transformation of the experience has already been empirically proven, and the results are not too encouraging: "the users of navigation tools have poorer memory of surrounding scenes and less accurate configurational knowledge of travelled routes, compared with people who use maps or directly experience the routes" (Ishikawa 2016, p. 124)
- By bringing new places and regions within the reach of average citizens the applications quite literally open up new worlds
- By altering and possibly impoverishing our environmental experience they simultaneously "function like blinders [and] narrow the world" (Grabar 2014)
- Should we *check the balance*: what are the pros and cons? But *how*, exactly, should one evaluate and compare such short-term and long-term implications?



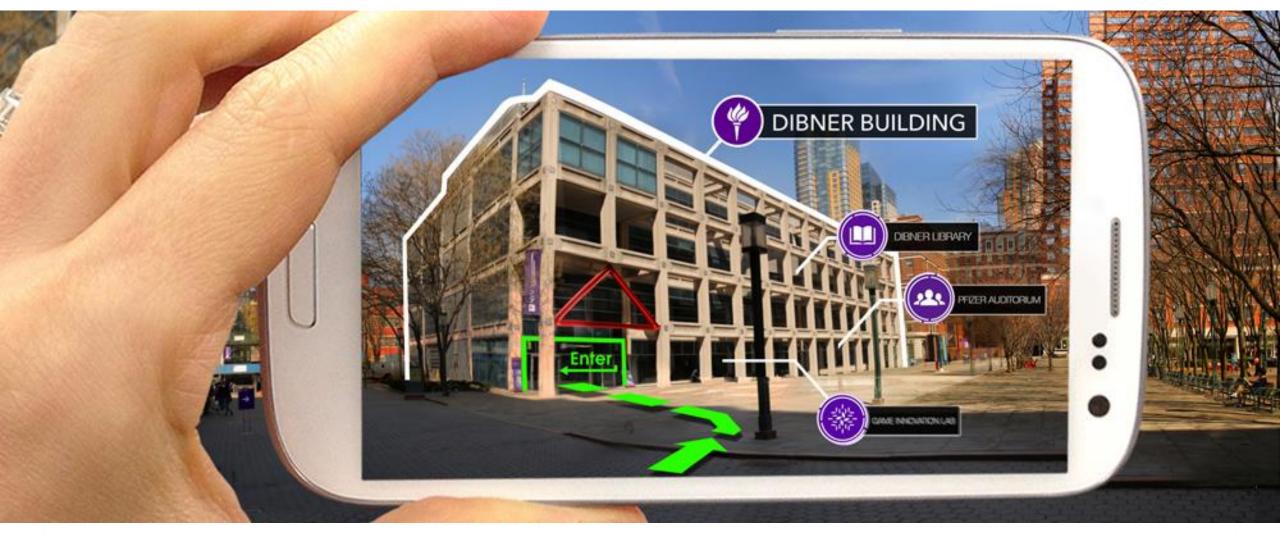


Figure 7. An augmented view of the NYU college campus. (Courtesy: NYU Media Lab)

Aesthetic consequences?

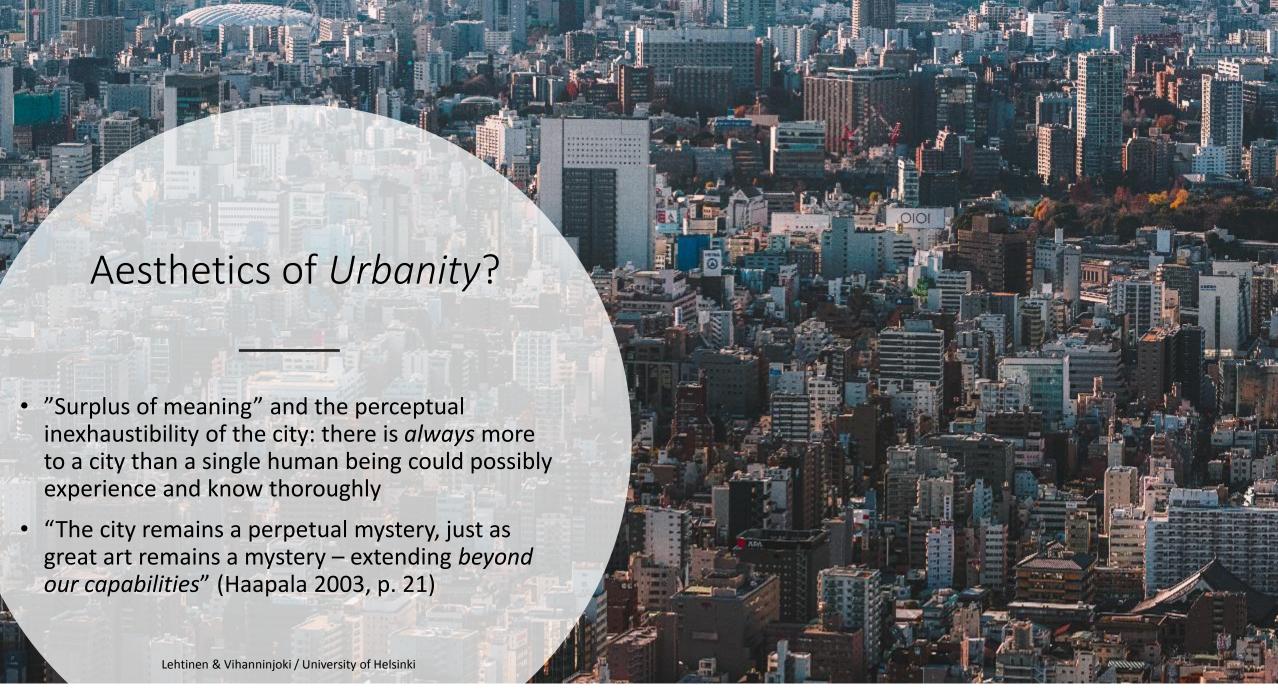
- If we become increasingly "blind" to our environments in general, we are more likely to become "blind" also to such environmental qualities and properties that make the surroundings distinguishable and identifiable
- If the *character* and the idiosyncratic *experiential quality* of the local environment remains more and more "invisible" to us, the related urban aesthetic values are also increasingly ignored
- The material environment remains unaltered, but there is no point discussing "potential values" without an experiencer actually capable of experiencing them
- In the short run, this is a contingent question of paying or not paying attention; in the long run, this is a question of *skills and capability*!
- Direct experience and the meaning of (human-scale) urban design: the questions of *legibility*, *continuity*, and *understandability*

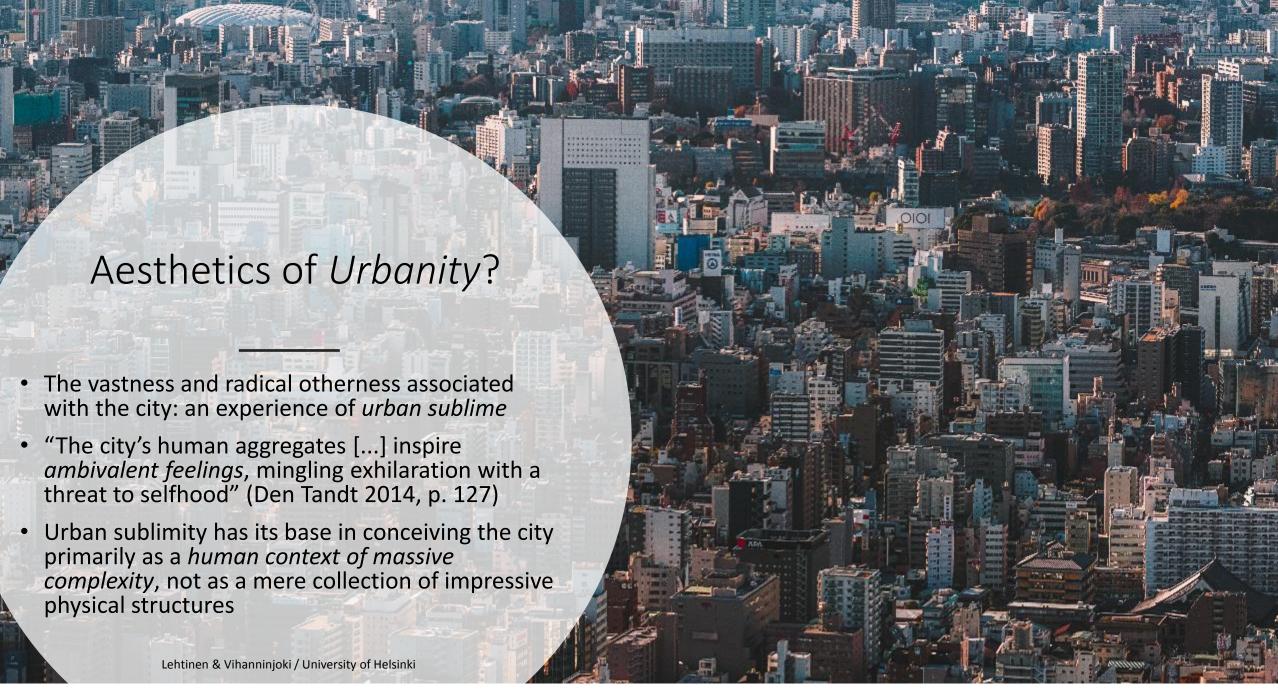


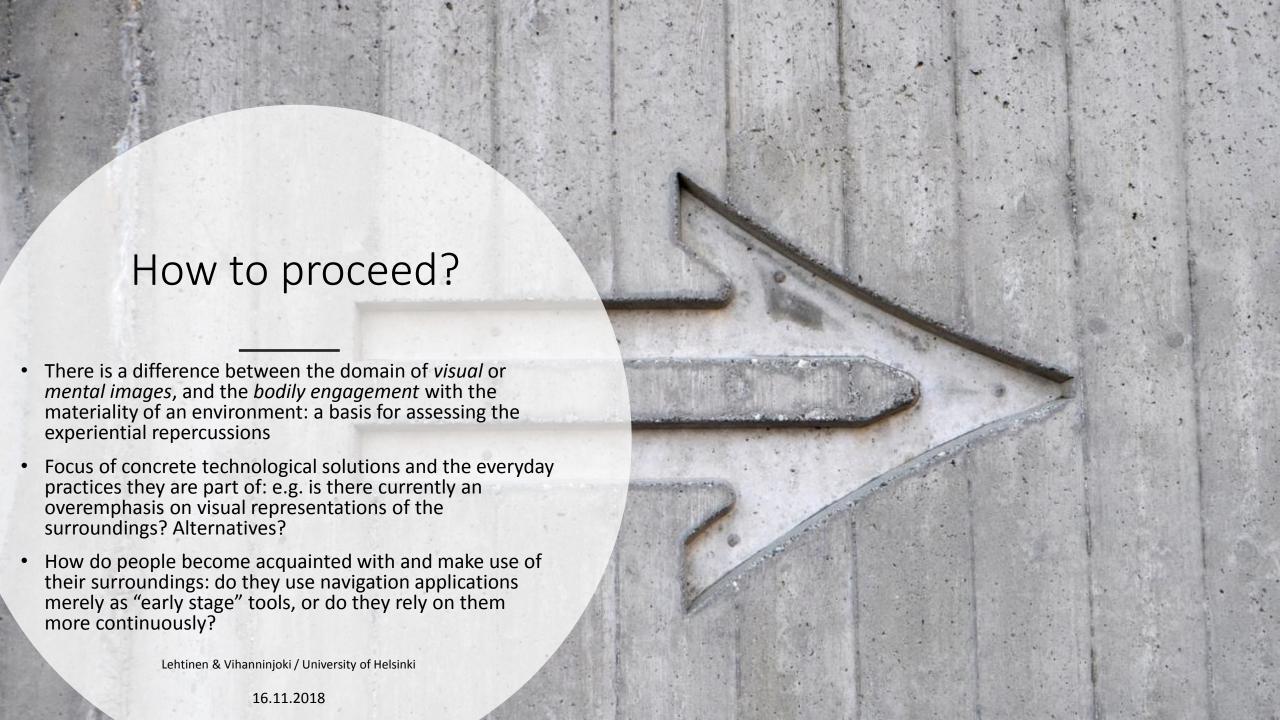
Aesthetic consequences?

- Aided navigation also opens up various new possibilities of using and experiencing our everyday surroundings
- Unforeseen environmental affordances can certainly have notable aesthetic relevance
- E.g. the increased freedom of movement may give rise to a new kind of *aesthetic sensitivity* or *openness to aesthetic potentialities*
- When one does not depend anymore solely on the information provided by roads, buildings and other structures to tell where one is in a city, urban landscape and its perceivable components cease to function as mere guiding features
- Cities can be approached with increased enthusiasm and curiosity, providing an enhanced possibility of experiencing urban aesthetics anew, both on the level of *details* and on the level of conceiving the city as a systemic whole









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