QUANTIFYING LANDSCAPE SPACES: Measurement, evaluation and application of spatio-visual landscape indicators in landscape design

Keywords: visual landscape, spatio-visual landscape characteristics, design vocabulary, operational indicators, quantifiable methods

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Area of Research: Visual landscape | Quantifying landscape spaces

Research Summary: To develop visual landscape indicators that can be used for the measurement, evaluation and communication of spatio-visual landscape characteristics in the realm of landscape design, there is a need to connect design vocabulary and landscapes metrics, qualitative and quantitative approaches, as input for knowledge production and to inform location-specific interventions. This research aims to provide building blocks to fill this knowledge gap.

The central objective of this research is to explore and develop visual landscape indicators for the measurement of qualitative, spatio-visual landscape characteristics relevant to landscape design.

Research Methodology: To achieve the objective and to answer the research questions, a methodological framework is conceived that consists of five steps. According to the potential outcomes, step 1 and step 2 answer research question I and consists of a review how landscape designers describe space and review potential methods and indicators for measurement of qualitative aspects of space. Step 3, 4 and 5 focus on answering research questions II and III. Here ways or directions are explored to quantify qualitative features of landscape space. In this context, geographic information technology, spatial analysis methods and visual landscape assessment approaches etc. will be employed for measurement and evaluation of potential spatio-visual landscape indicators.

Deliverables: 1. A set of spatio-visual landscape indicators from the design perspective. 2. Framework for quantifying qualitative landscape aspects.

Main Question: How to explore and develop visual landscape indicators for the measurement of qualitative, spatio-visual landscape characteristics relevant to landscape design.

Link(s)
http://www.urbanism.nl/

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