GIGA-Mapping in Systemic Approach to Architectural Performance

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Author(s) Name:
Marie Davidová and Birger Sevaldson.

University or Company Affiliation:
Collaborative Collective and Oslo School of Architecture and Design

Abstract (300 words):
GIGA-Maps are extensive systems maps that combine and relate large amounts of different kinds of data and data representations, to be used in a design process (Sevaldson, 2011, 2013, 2015). The GIGA-Map series will exhibit, present and discuss the whole collection of this process-based, visual complexity diagramming that has been developed in the framework of Systemic Approach to Architectural Performance. SAAP seeks to investigate the relation between Systems Oriented Design (Sevaldson, 2013), and performance oriented design approaches (Hensel, 2012) and processes in architecture. The particularity of SAAP is to demonstrate and develop theories and methods through experimental practice. SAAP involves Time-Based Eco-Systemic Co-Design that is performed by both biotic and abiotic agents, including humans. SAAP seeks to develop its own versions of SOD and other systemic methodologies and has generated a particular variation of GIGA-Mapping. GIGA-Mapping is central to SAAP because it is a tool that visually manages, organizes and relates the complexity within the design-research process. This version of GIGA-Mapping is focusing on eco-systemic processes.
and their co-/re-design processes and their relations, meaning environmental, societal and cultural aspects across the habitats of the different species involved and the biotic and abiotic agents sharing their habitat and playing a part in their complex food-webs. SAAP’s ambition is to understand and design for these complexities when they are overlapped and integrated with the built environment. A successful co-existence across species and within the human built environment depends on the development of new design approaches. Thus, SAAP is based on full-scale prototyping in combination with analytical and generative GIGA-Mapping. The direct full-scale prototypical engagement with the life-performing eco-system is interrelated with its diagraming, one updating the other by data and relations found through that process. This approach is based on research by (through) design (REFS?). SAAP is strongly driven by physical full scale prototyping in public space as ‘prototypical urban interventions’ that can drive extensive agencies across the communities (Davidová, 2004; Doherty, 2005) and while doing that, across much larger systems.

• Author(s) Biography (200 words each):

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