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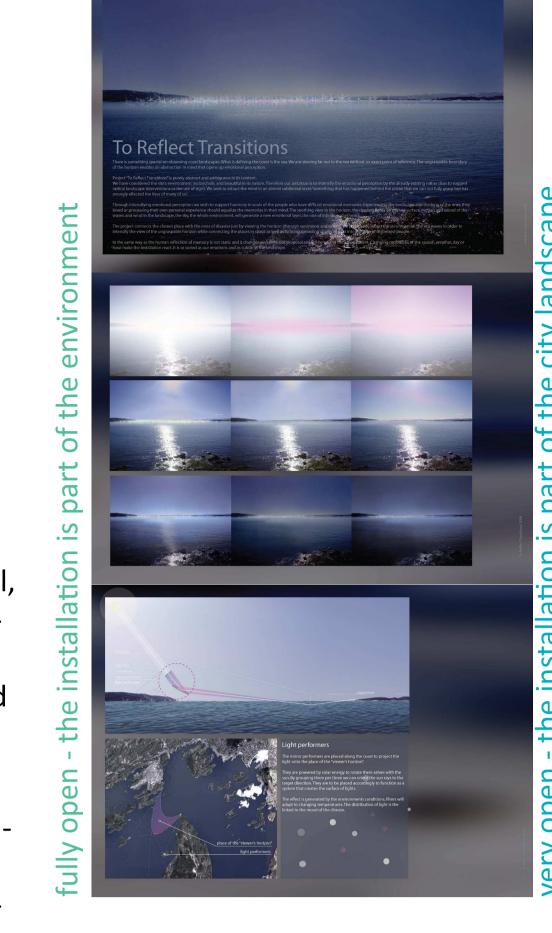
## **Design's Boundary Conditions** in Relation to Environmental Interactions GIGA-map

Systemic Approach to Architectural Performance and Wood as a Primary **Medium to Architectural Performance** project

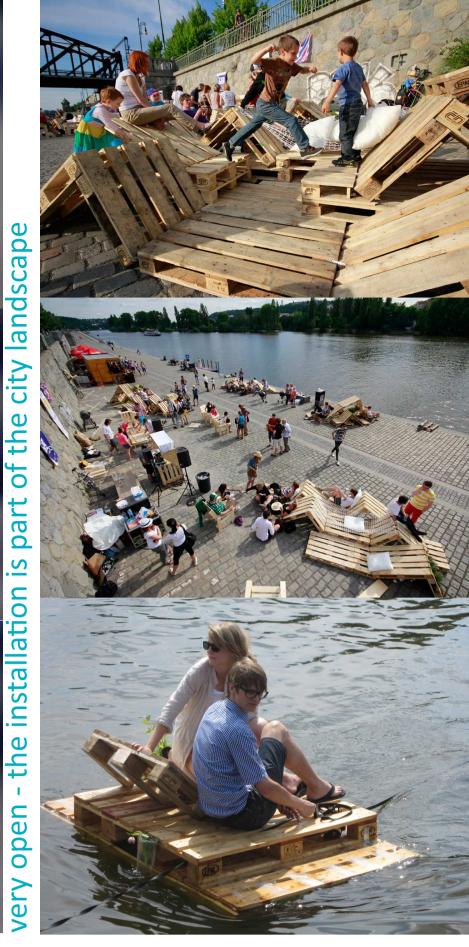
## Marie Davidová

This GIGA-map developed as a ZIP-analysis of GIGA-mapping Workshop lead by Birger Sevaldson that was mapping pavilions from the project Wood as a Primary Medium to Architectural Performance. It is mapping a problem of different types of environmental, biological as well as physical, interactions through a range of boundary conditions of different designs. The case designs were either authored or co-authored by the GIAGA-map's author and were selected due to their suitability to the not fully strict 'gradient'.

The map lays out a matrix of parameters and relating their interactions that often generate more or less complex feedback loops, some of them cycling even in hierarchical constellations. The stroke thickness doesn't fully reflect the hierarchy in the system but the importance of related interactions. The gradient of the splines represents the boundary crossings, while the colour gradient of lines and texts for each project represent a range from design's openness to closeness of the boundary.



with the place of the disaster through horizon.



The Energy Exhibition is a computer game in physical environment, relating to extreme wind conditions of the location. The landscapes for opportunistic use and difer-

interaction in its scenarios.



Bołdak, Dorottya Bujdosó, Monika Głowacka, Arif Gönül, Bianka Hajdú, Wojtek Kozłowski, Lencsés Albert, Martyna Rajewska, Simona

The project covers transformable furniture for perifery comunity garnistic use in various combinations, from shelter to conference tables



dents: Alena Novotná, Anna Hrušová, Antonín Hůla, Barbora Slavíčková, Jakub Kopecký, Jiří Fáber, Jiří Pokorný, Petr Tůma, Tereza Jílková, Rad-Baloon Dome was designed as a meeting and chill point for comu- im Sýkora, Eliška Antonyová, Tereza Lišková, Filip Janata, Tomáš Kytka,

nity Living City festival. Fully permeably envelopping the space,

the pavilion was dancing in wind, responding by its height to

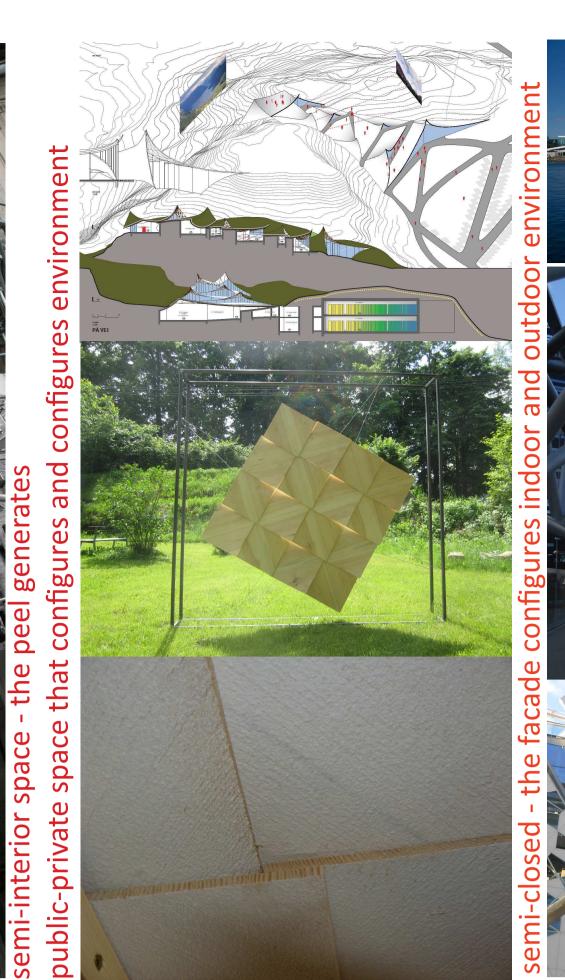
LOOP is a research and public pavilion in one. While being weather responsive, it is creating pleasant environments for opportunistic use.



proposed to generate pleasant urban environment.

HOLOSLO - The penetrating of latent is a city environmental installation

AEROPORT, a club for International Film Festival in Karlovy Vary aranged in that generates complex, non-repetitive output from environmental input abandoned art-noveau hotel, was involving a parasite generating a transi-"waterfall sound from motorway". It's main topic is variosity of sound and visual information condition in Oslo as well as radio signal intensity. tion between public and private, indoor-outdoor space. Specially designed for the summer event, the parasite offered comfortable outdoor environ-The installation moves by interaction of material and temperature (shape memory alloys) while the two layers of acrylic surfaces interact (reflect, ment for work, relaxation, social interaction and parties. distort, refract, etc.) with the sound and light input. The installation was The courtyard space was occupied by balloons for people to chill out, play



operation with Matěj Hošek, Jan Žemlička, Jaroslav Felix & Carl Fagernes 2007) Nilssen-Love 2011)

The museum complex project with onion princile for its climate, supported by environment responsive envelope Ray 3. The semi-interior space of such system generate both, pleasant cli-

On the BARCODE B10.1 fasade concept development we were testing different types and scales of pattern and perforations of materials. The diversity of the material properties as well as irregularity of the pattern should lower canyon effect given by the urban settings and support light and gen-

SpiralTreeHouse is built from the rest trees in the forest as a place for meditation. It consists of stone base, pine trees' spiin the time of habitation. The moss platform serves as bed. It is a due to its own and ivy's growth over time.

