

**projektil
architekti**



4,5 mm

PROJEKTIL ARCHITEKTI s.r.o.

- studio was founded in 2002 by partners

Mgr. akad. arch. Roman Brychta

Ing. arch. Adam Halíř

Ing. Ondřej Hofmeistr

Ing. arch. Petr Lešek

- main characteristics of the studio

ECONOMICAL, HELPFUL AND INVENTIVE ARCHITECTURE

what should the library be able to

help to define the city

occupy the right place in the urban structure

not to create a barrier but enrich the surrounding space

be an open institution (not to create mental or physical barriers)

offer space for meetings, encounters, contacts, various moods for staying, studying

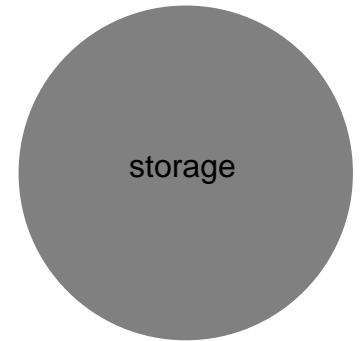
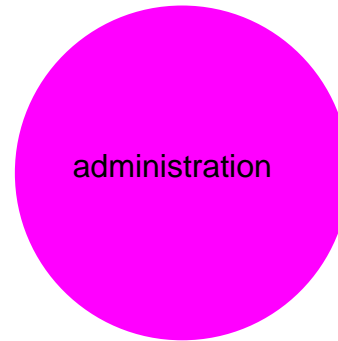
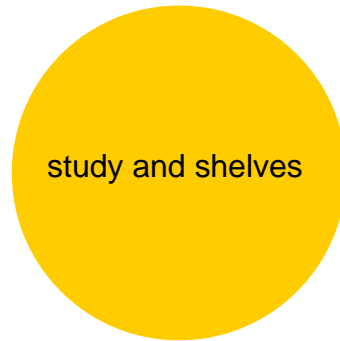
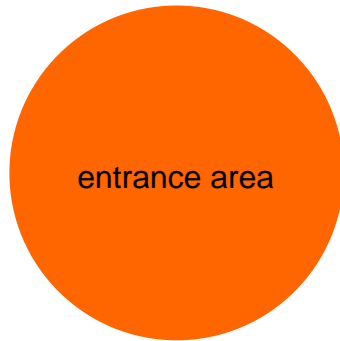
communicate with accidental visitors

facilitate art interventions in space, provoke thinking through art

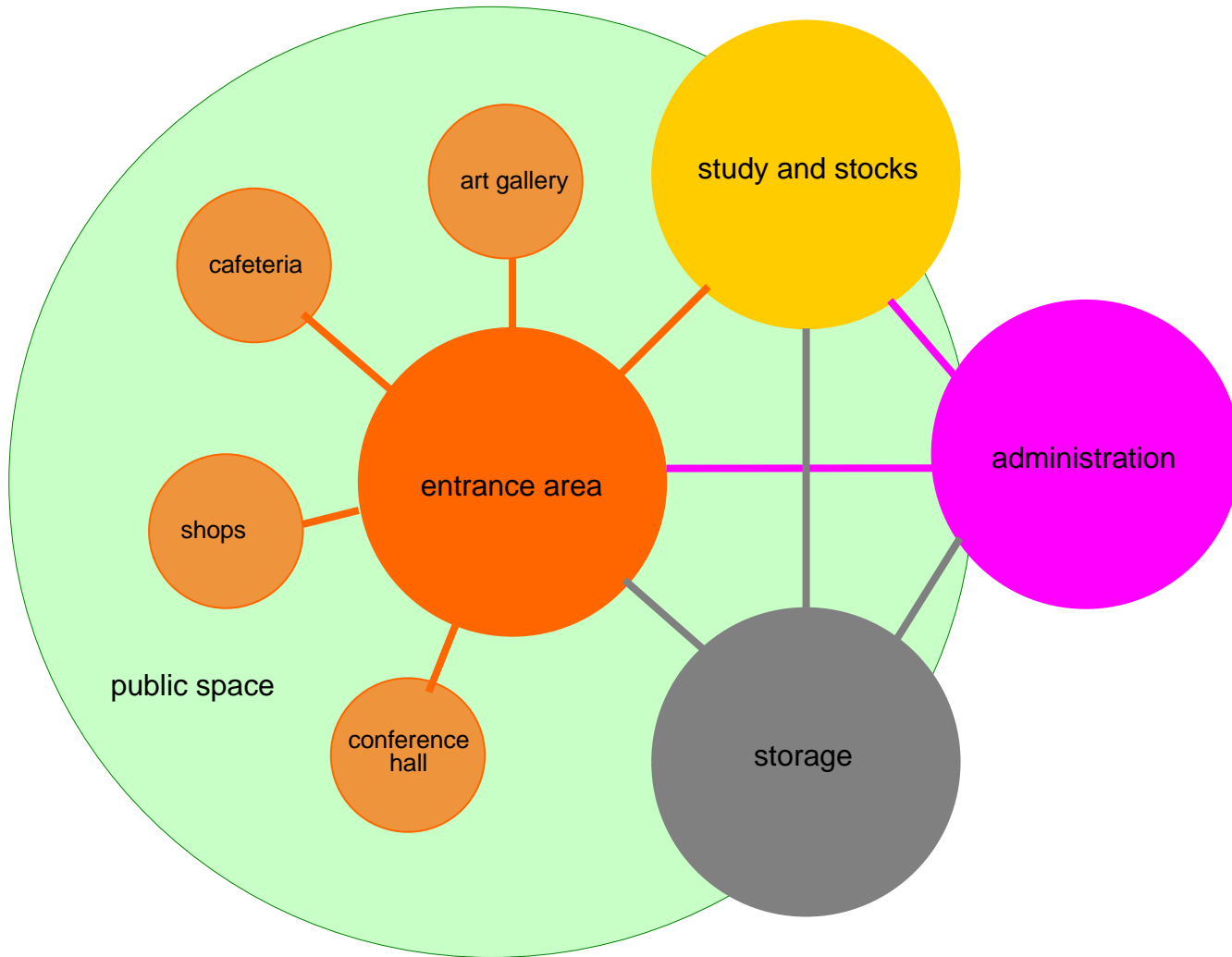
create a clear visual identity beyond its physical boundaries

be an operationally efficient building

main library parts



main library operations and their links



Operational diagrams of the libraries designed by Projektil



NTK Praha




MSK Ostrava



SVK Hradec Králové



MK Kutná Hora


study and shelves


entrance area


administration

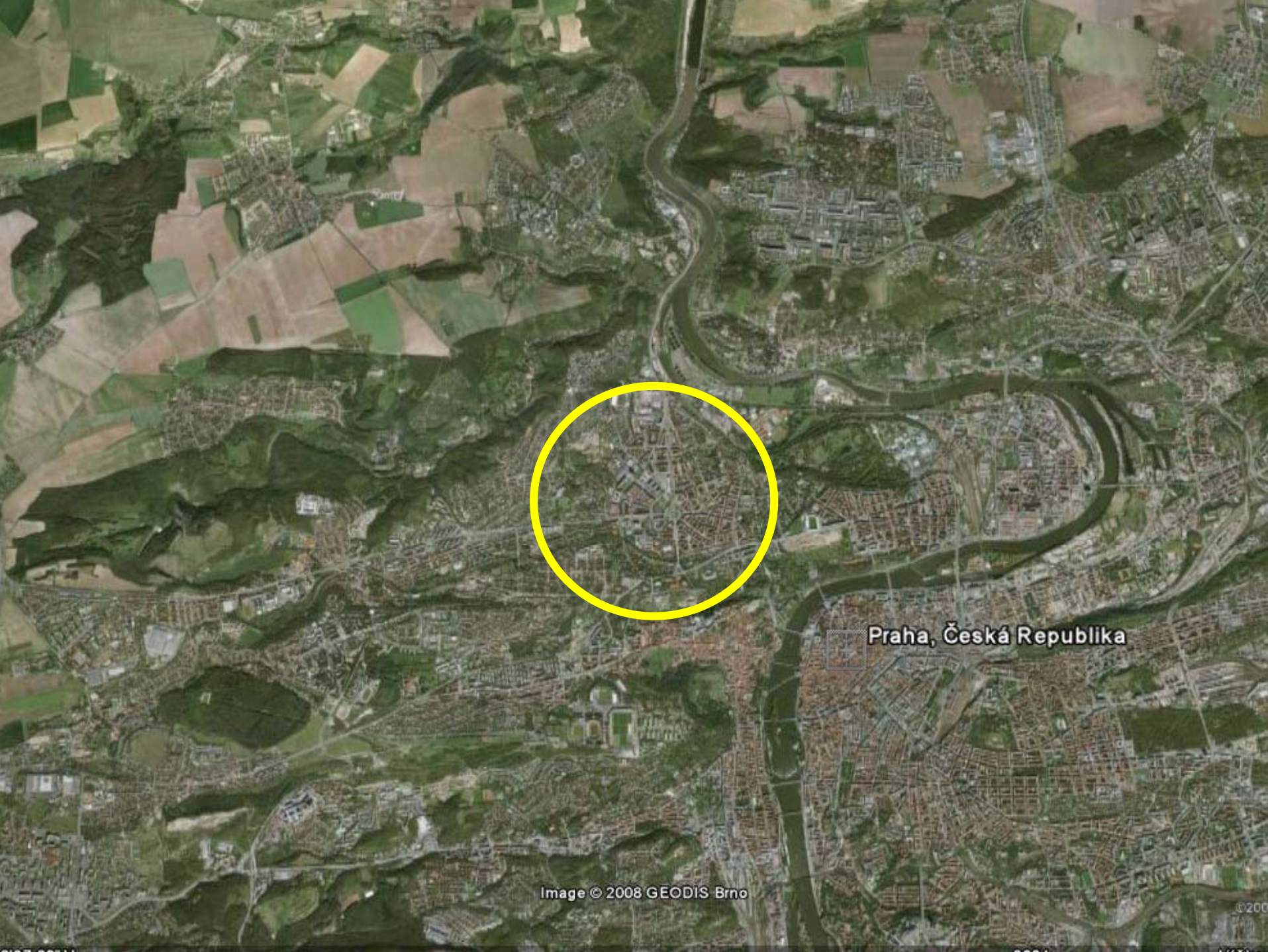

storage

190 mm

NTKO

50°6'14.083"N, 14°23'26.365"E

**Národní technická knihovna
National Technical Library**



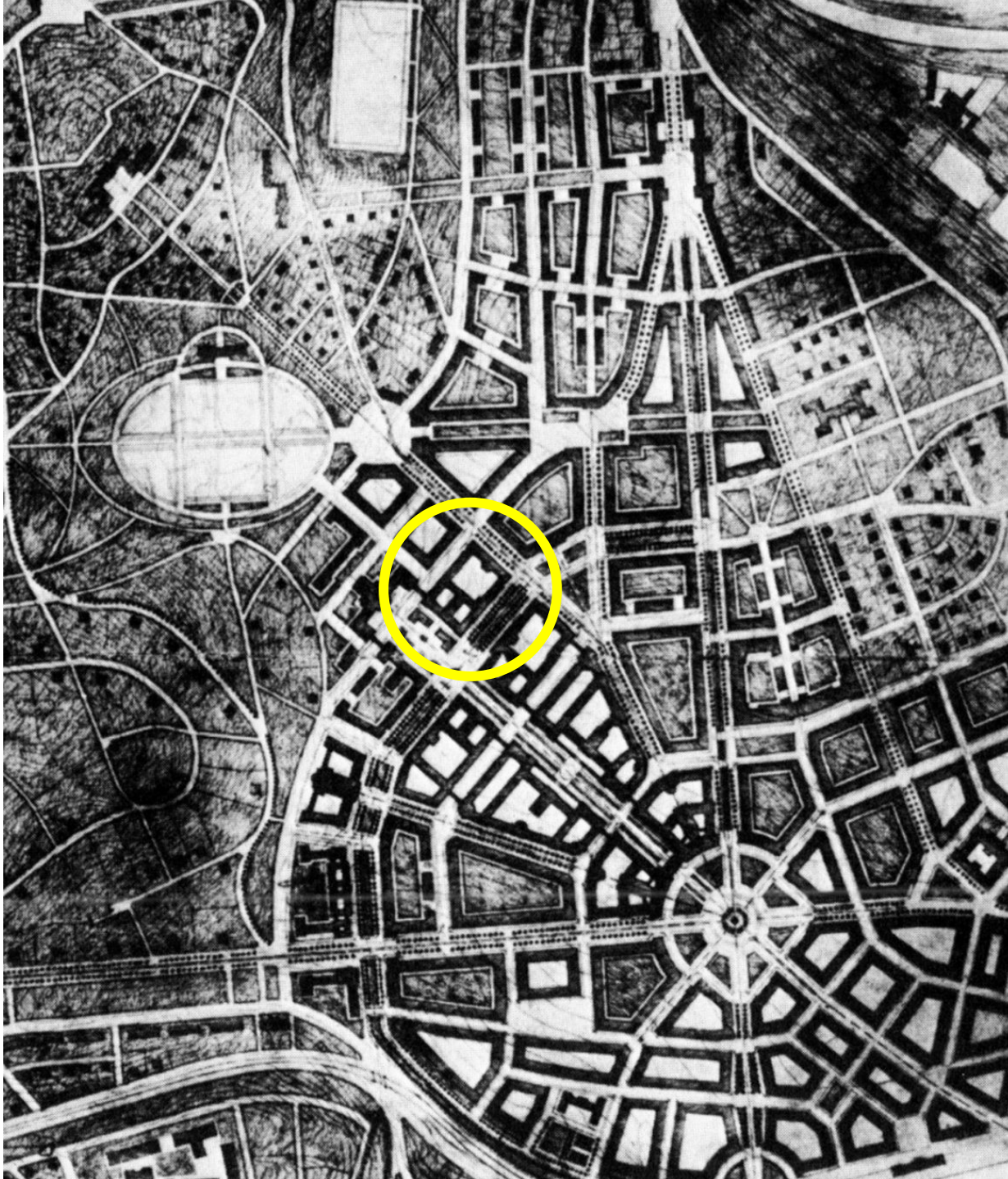
Praha, Česká Republika



Image © 2008 GEODIS Brno

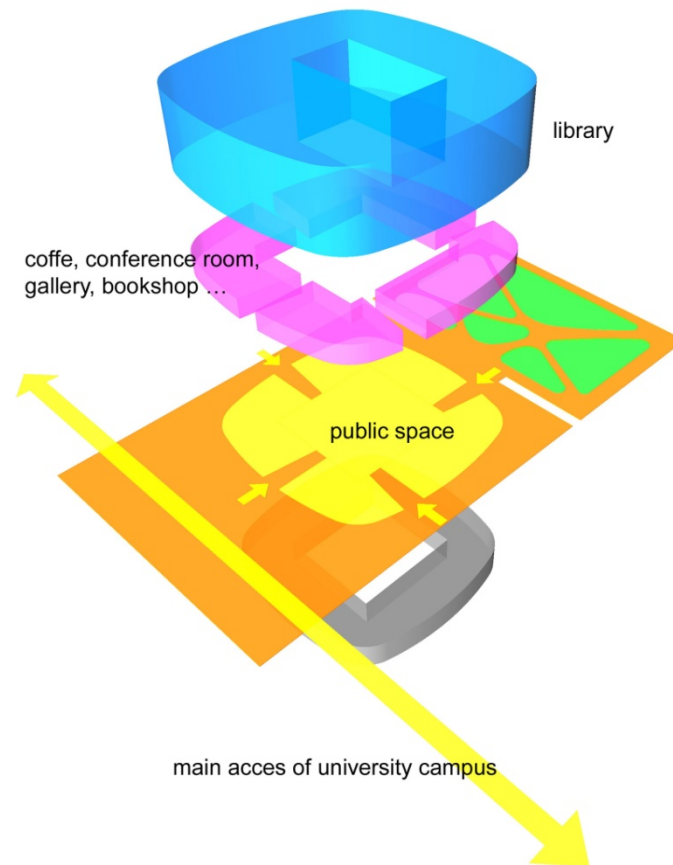
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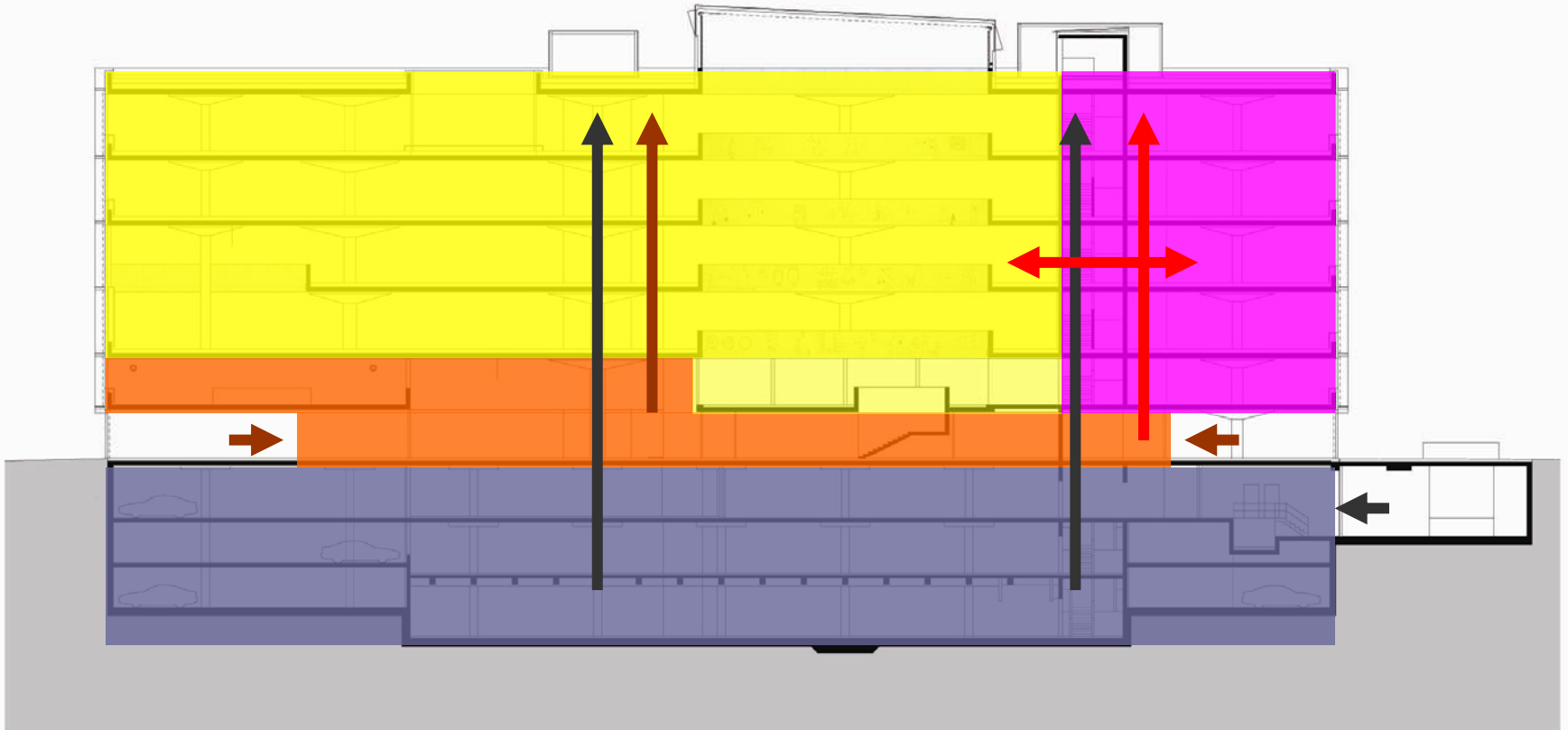
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1921 – 1924 A. Engel







study and shelves



entrance area



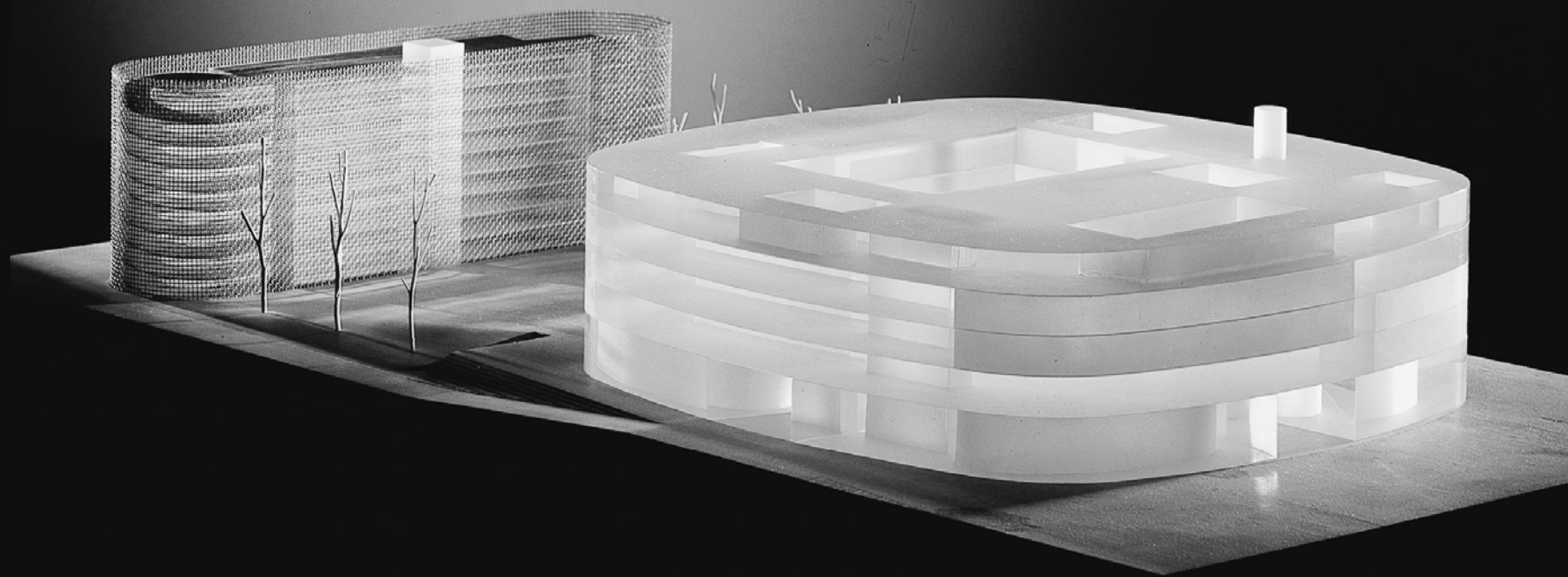
administration



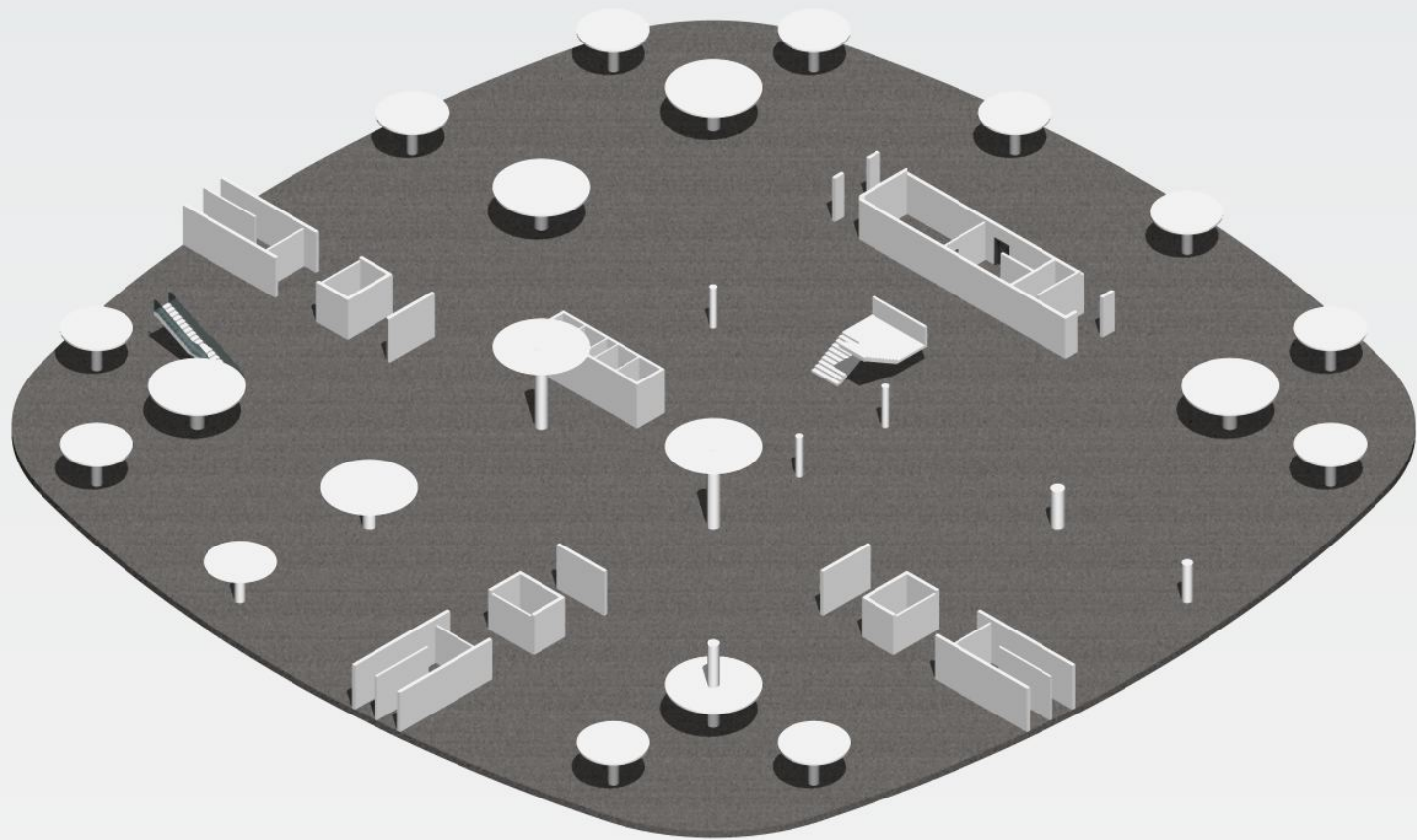
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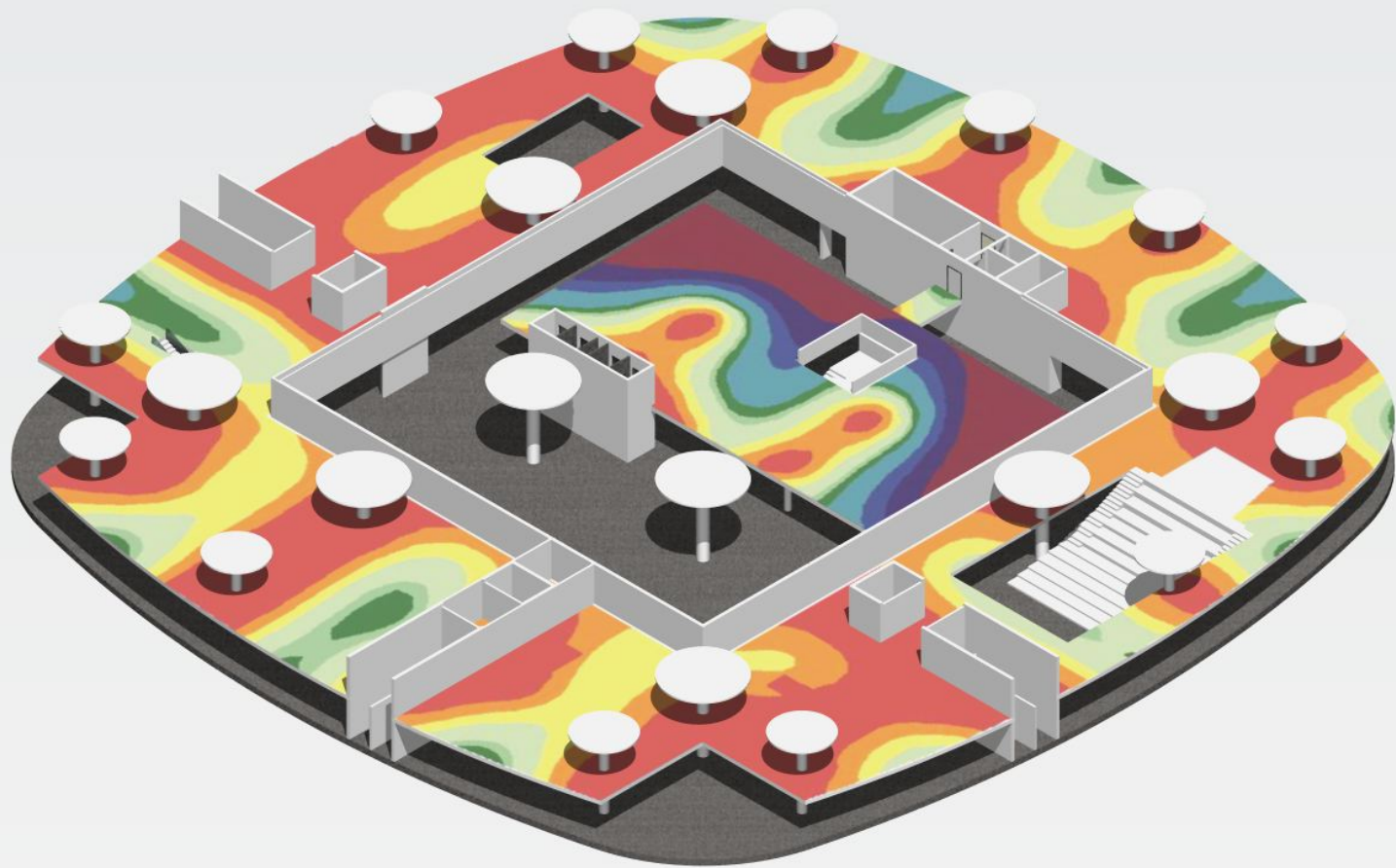
Section



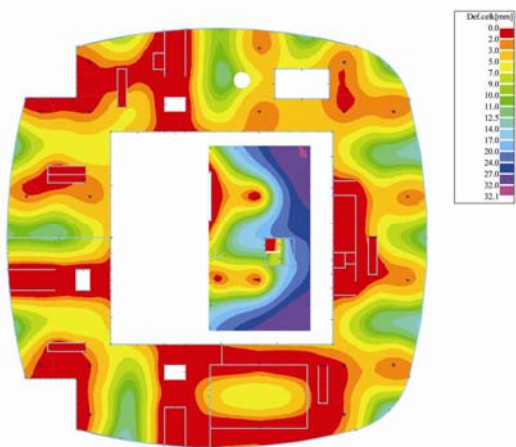




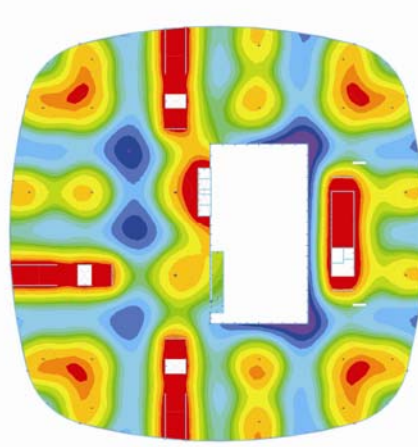




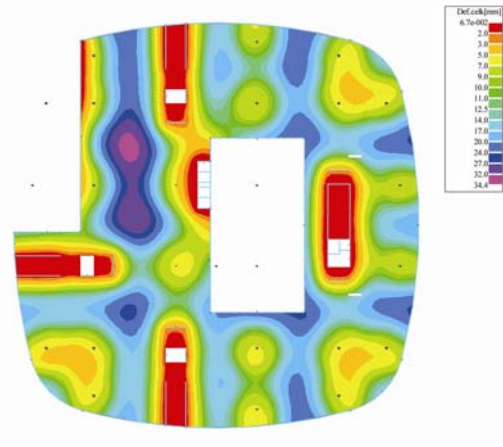
Nad 1np



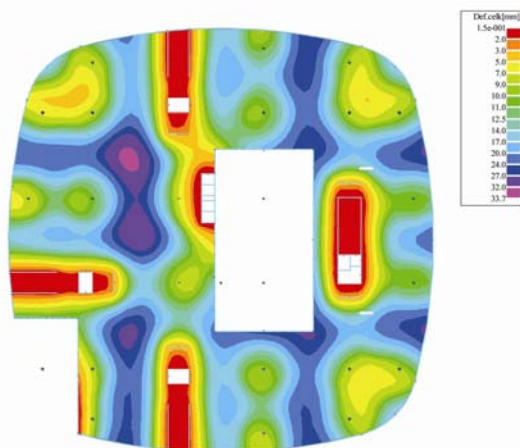
Nad 2np



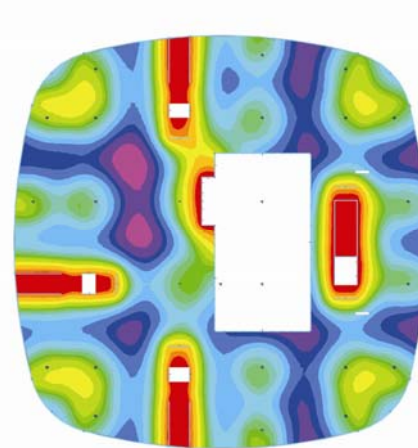
Nad 3np



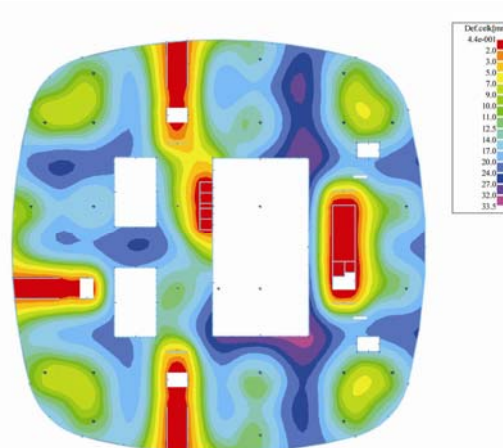
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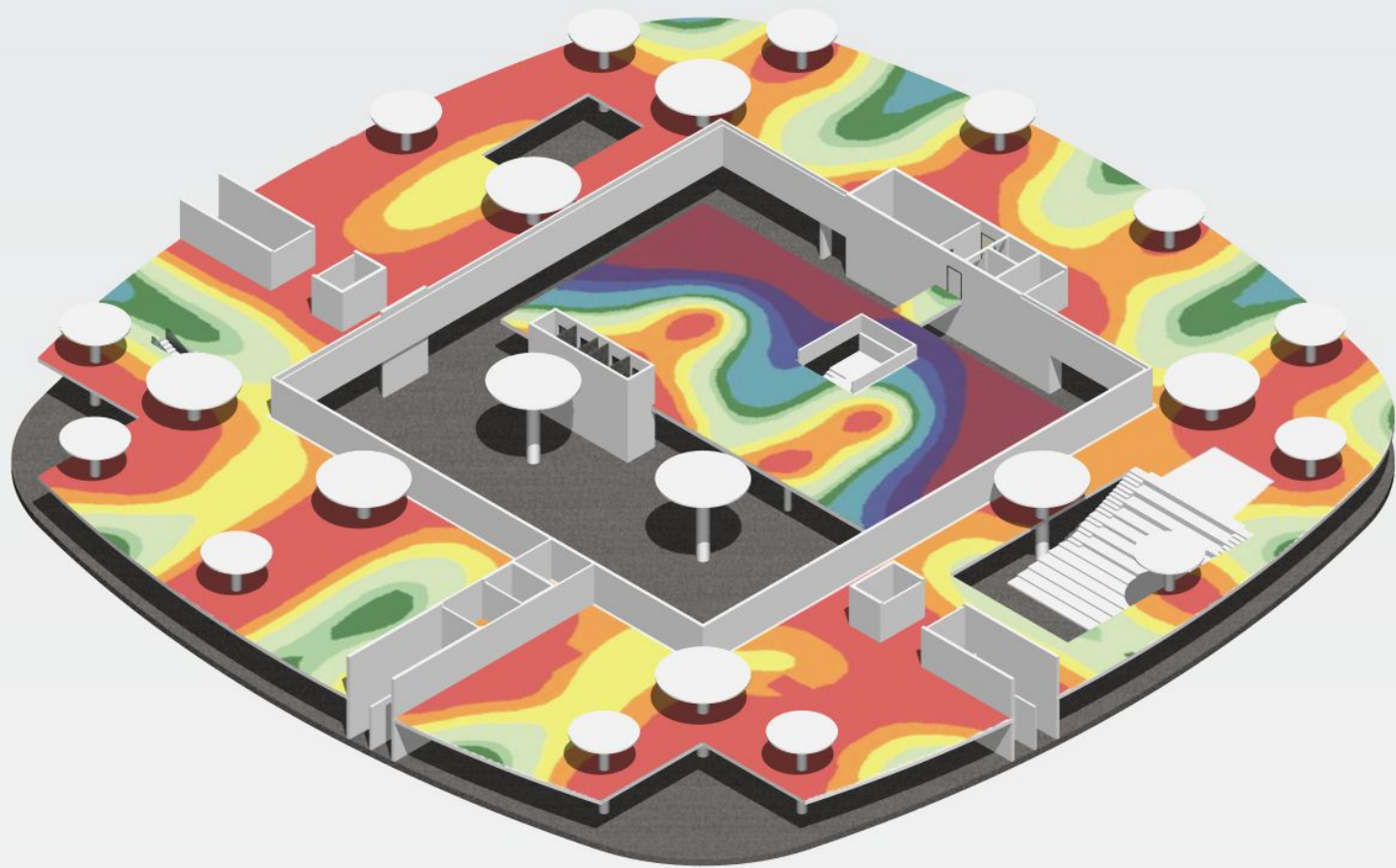


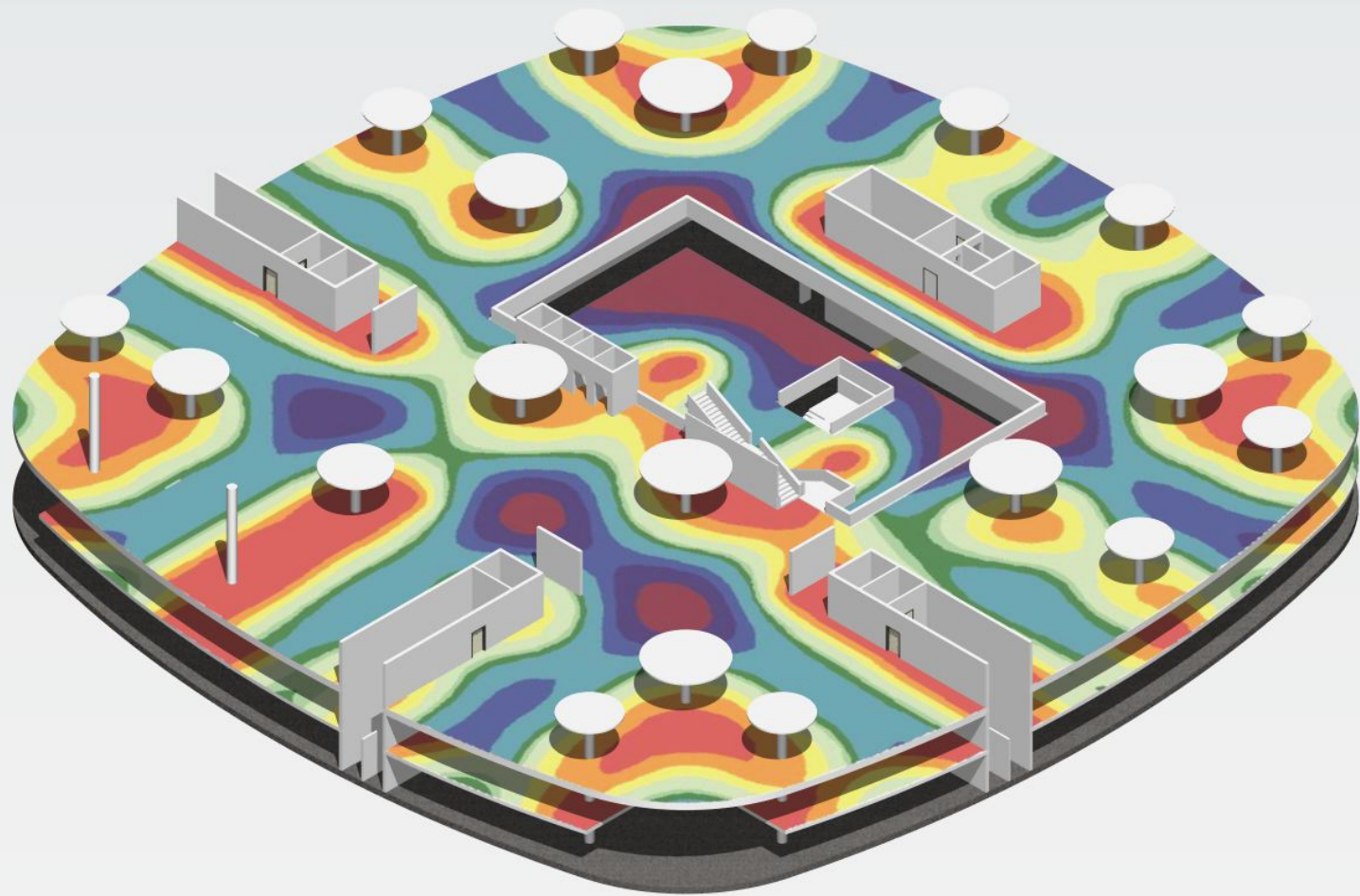
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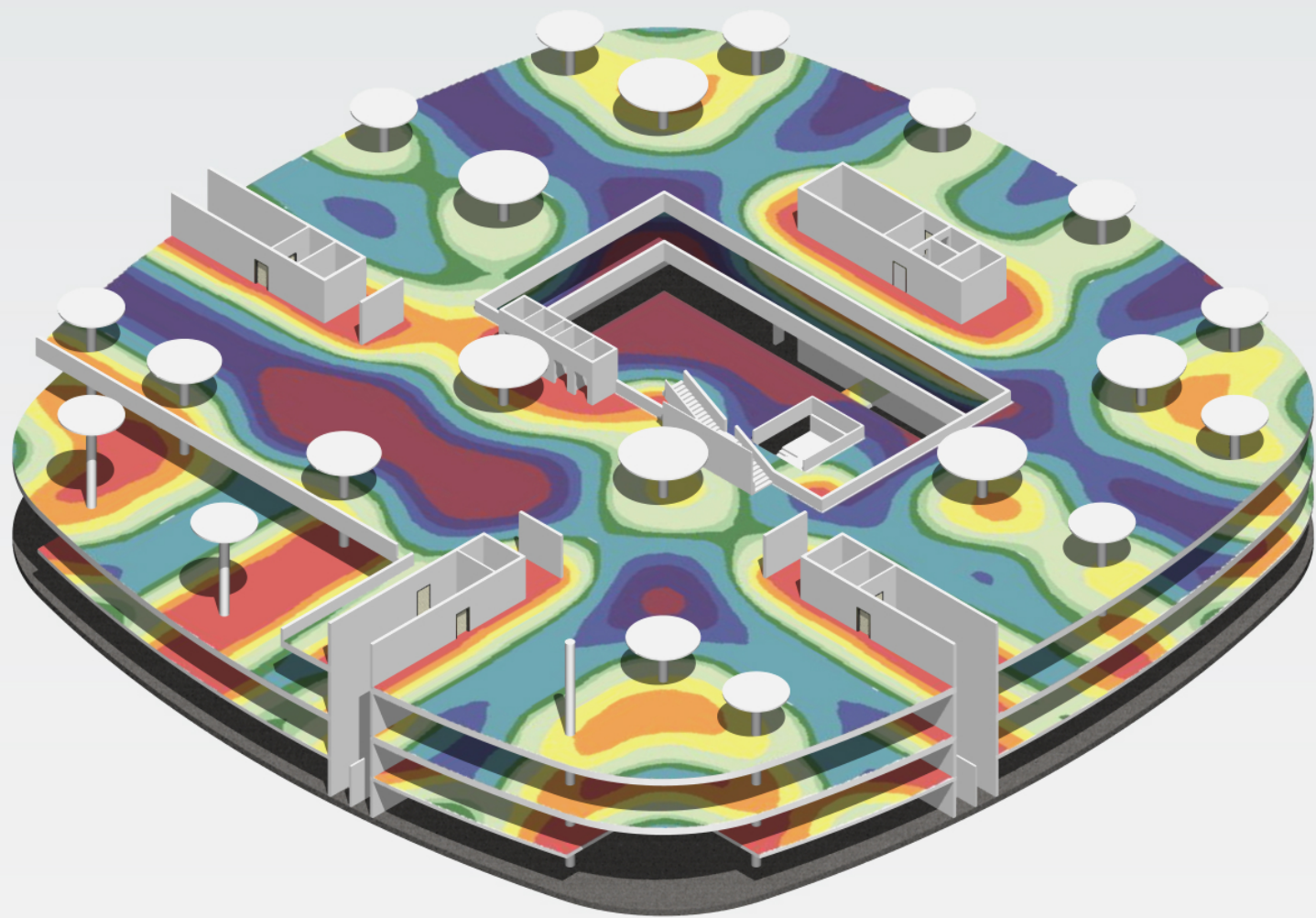


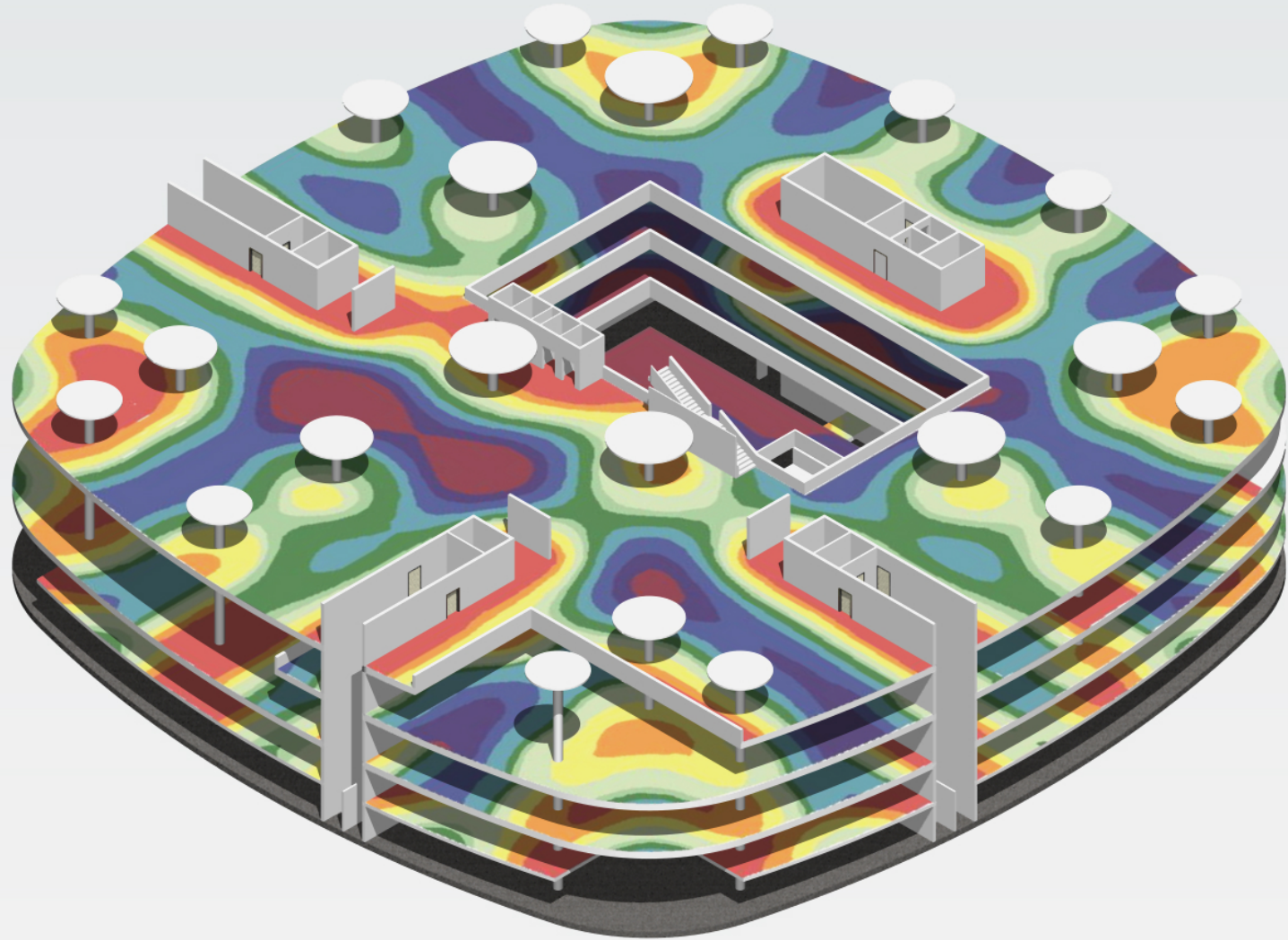
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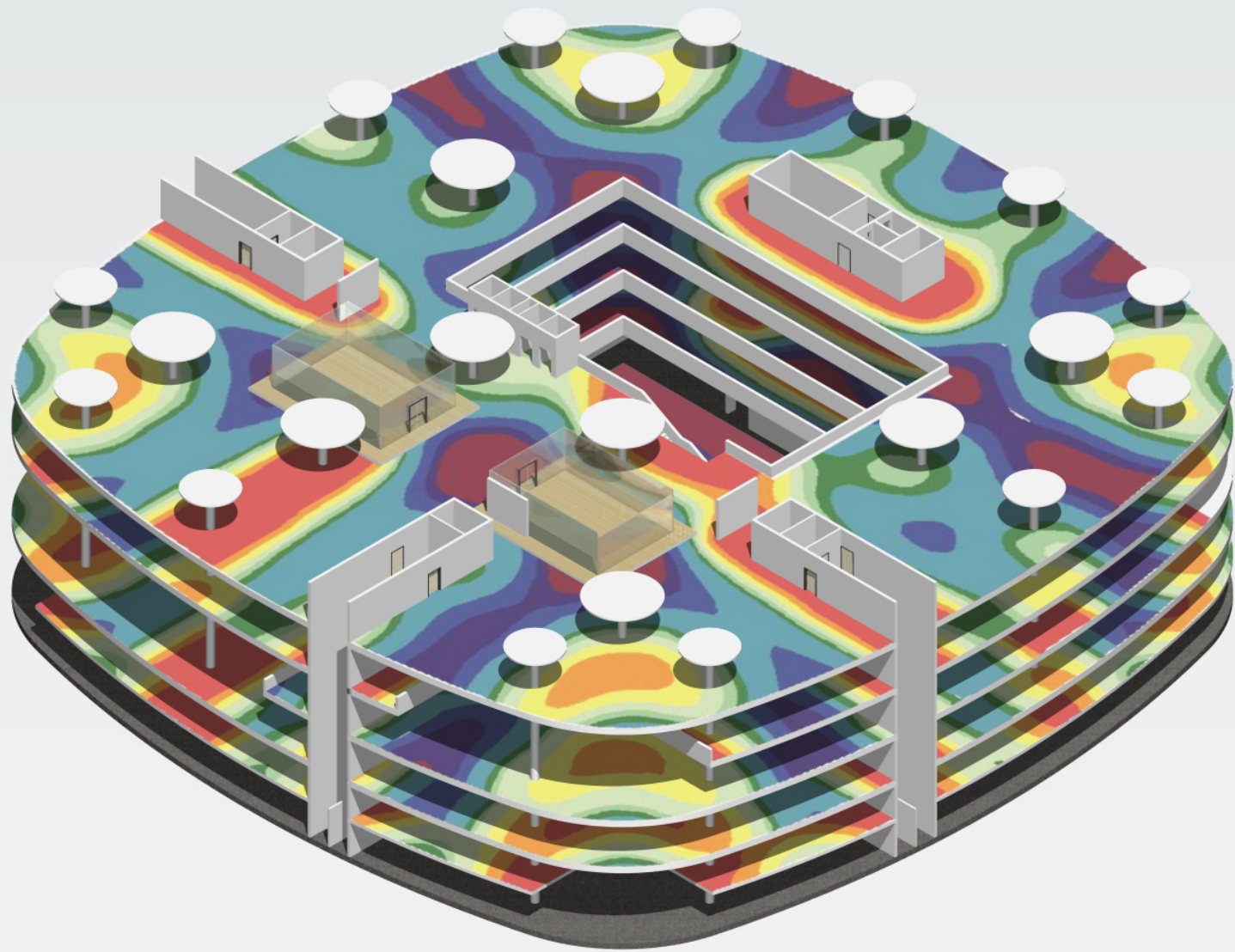


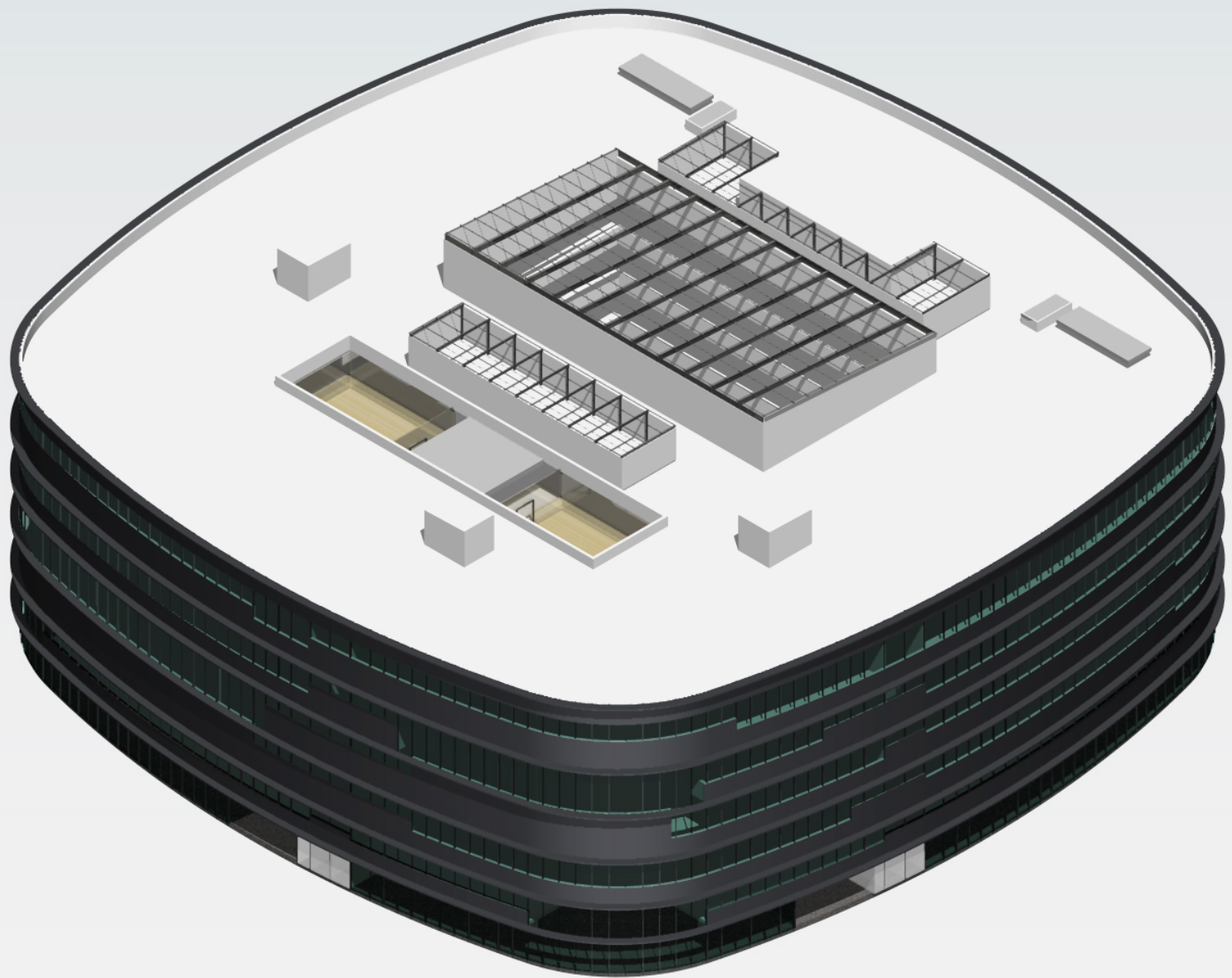


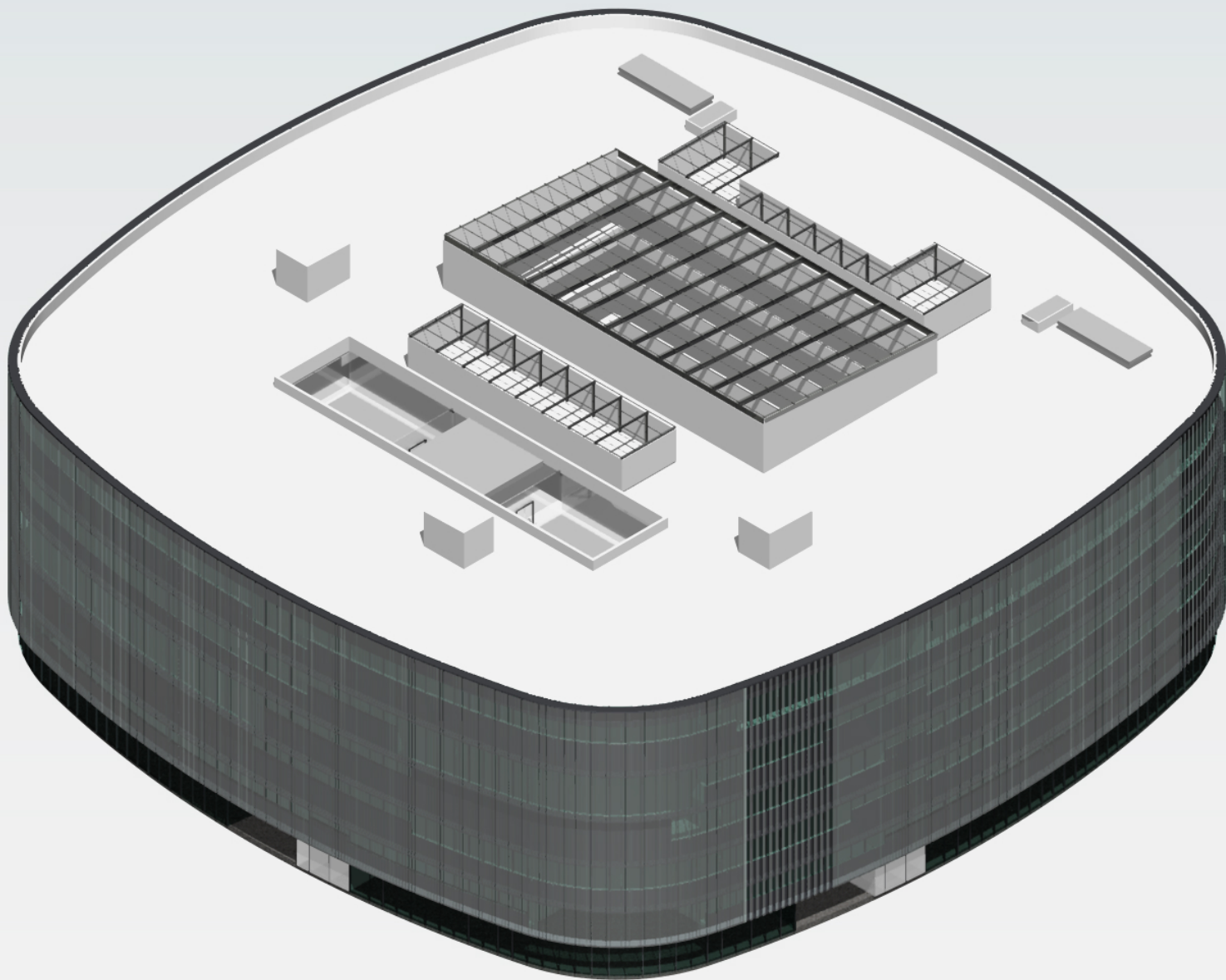


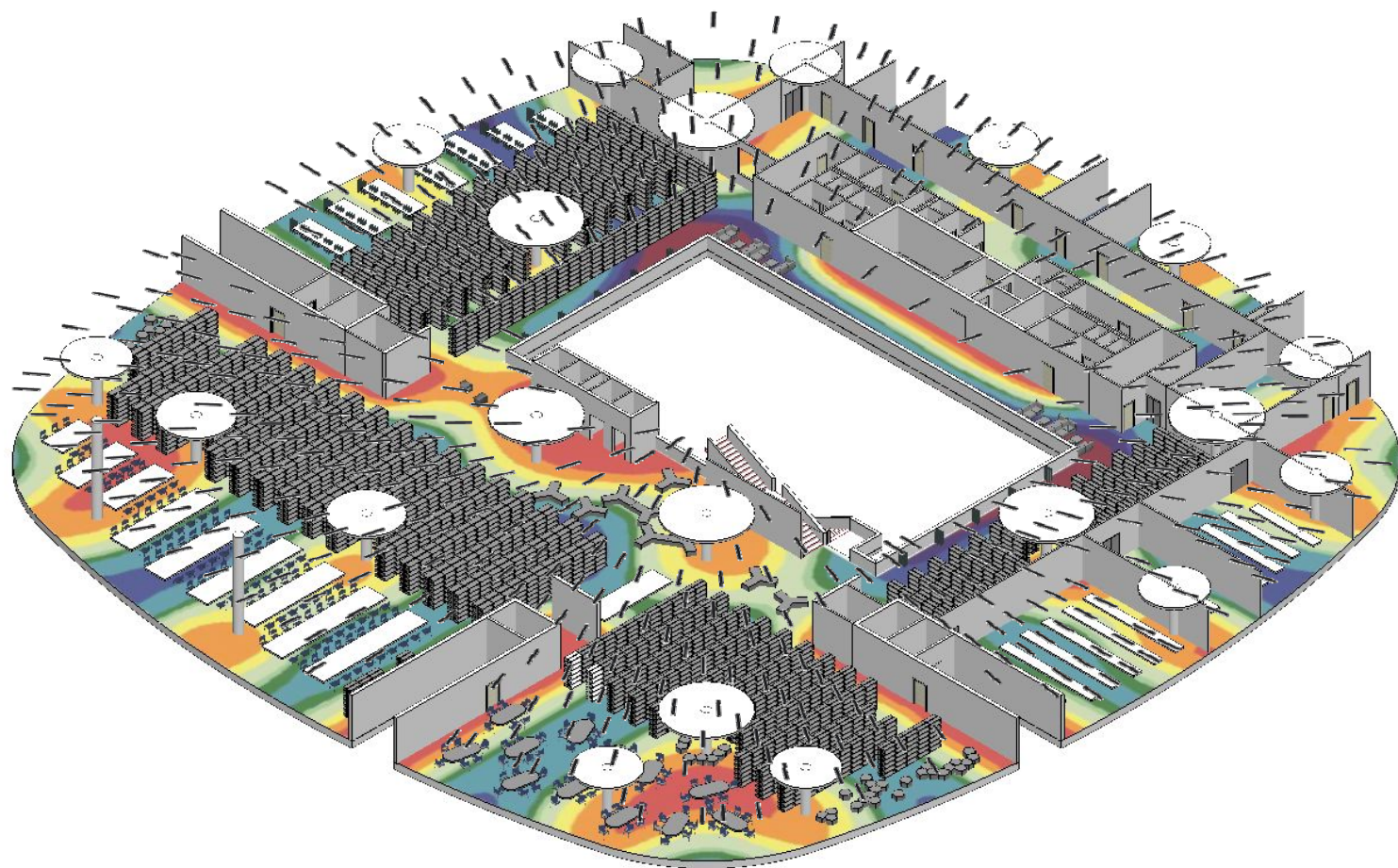










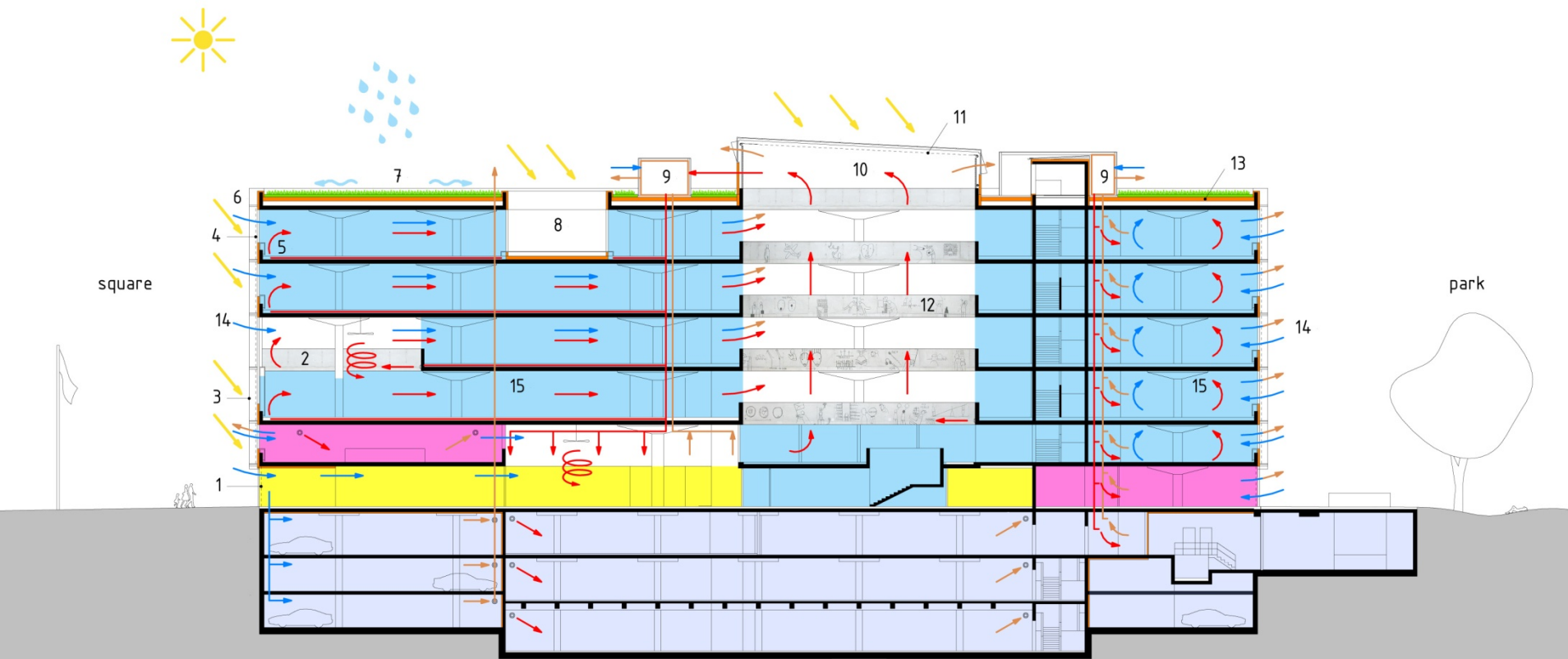




heating and cooling via concrete core activation



prestressed reinforcement



1 - internal adjustable shades reduce heat gain on 1st floor, while avoiding contact with pedestrians; 2 - materials used in their natural state; 3 - external glazing made of profiled glass protects adjustable shades against wind and provides light dispersion; 4 - a solar gain control - in summer, external adjustable shades reduce heat gain (sections divided according to cardinal points); during the transmission period and winter solar transmission heats the building; 5 - heating register; 6 - external air intake; 7 - extensive planting on a roof for drainage delay, protects thermal insulation and makes a nice view of roof from surrounding buildings; 8 - outdoor atrium for reading under the open sky; 9 - a ventilation unit with heat recuperation from exhaust air; 10 - elevated atrium with a space for accumulation and ventilation of warm air in summer; 11 - internal adjustable shades; 12 - excellent orientation system and art piece; 13 - effective thermal insulation; 14 - self-ventilation also used in summer for automatic nighttime pre-cooling of concrete structure; 15 - heating and cooling via concrete core activation

library
 spaces to let
 public space
 parking, technology and storage

schematic of energy-saving measures





21 m

263 m

NTK 3



21 m

263 m

NTK 3



263 m

NTK 4



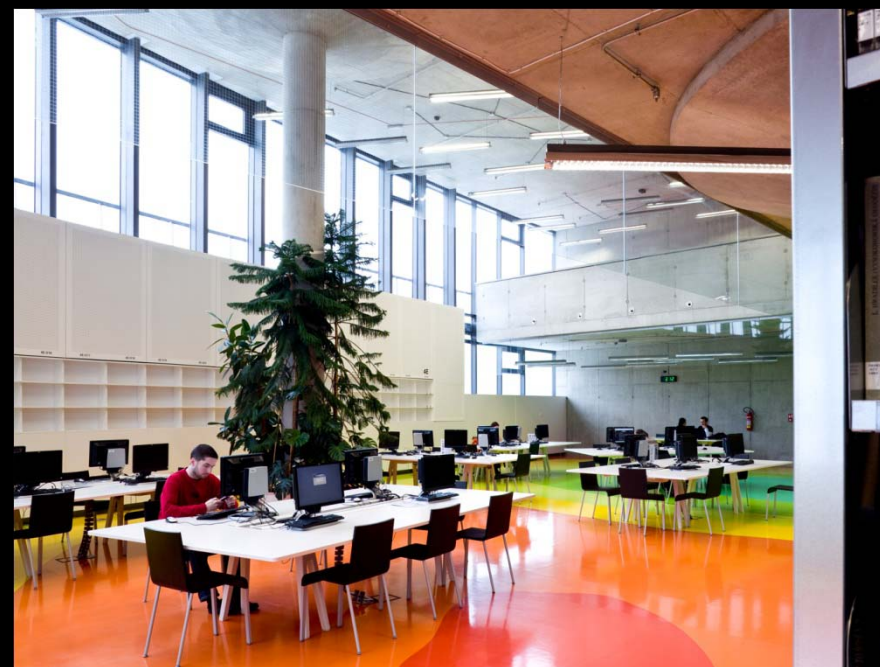






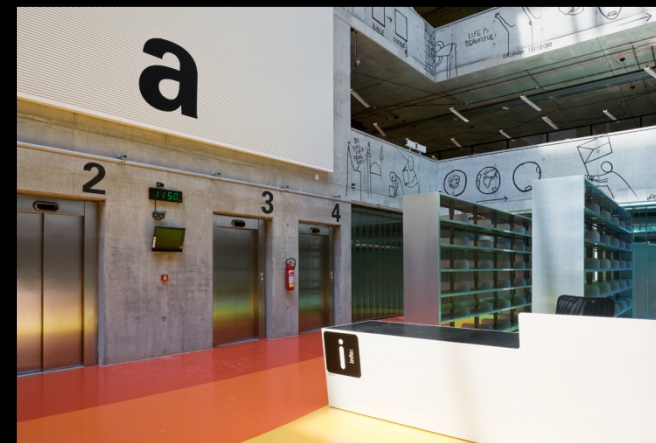












NTK

50°6'14.083"N, 14°23'26.365"E
Národní technická knihovna
National Technical Library

NTK

90° 140°
30°

Národní technická knihovna
National Technical Library

NTK

building size: 263x21m
Národní technická knihovna
National Technical Library

NTK

2,5x 4,5x
4x x

Národní technická knihovna
National Technical Library

NTK

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10

Národní technická knihovna
National Technical Library
49

<http://www.techlib.cz>

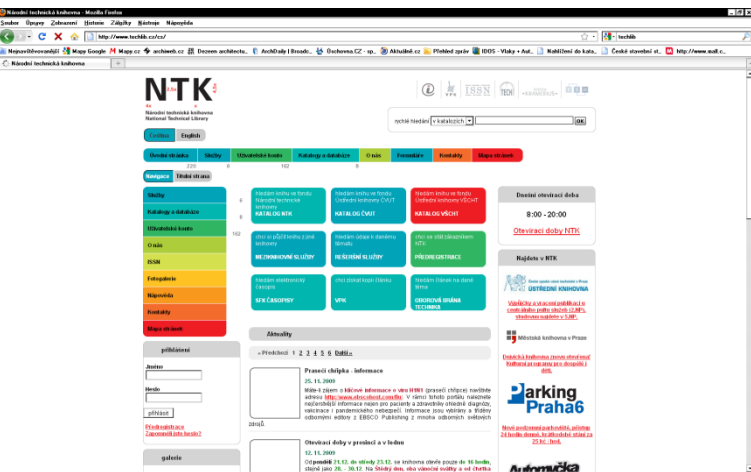
NTK


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National Technical Library

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National Technical Library





pas

Five art interventions in NTL

1. Central art piece

2. Web art piece

3. Art Monitor

4. Newsroom

5. Saga

Central art piece - Competition

Carsten Holler

Carsten Nicolai

Dan Perjovschi

Design

CARSTEN HÖLLER
National Technical Library, Prague
August 2008

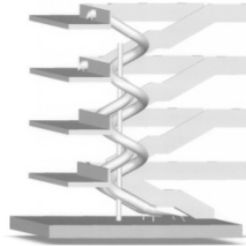


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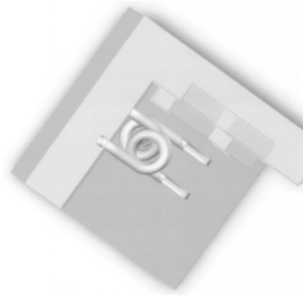
1/4

Visualization

CARSTEN HÖLLER
National Technical Library, Prague
August 2008



Elevation



Plan view

© Carsten Höller

3/4

Visualization

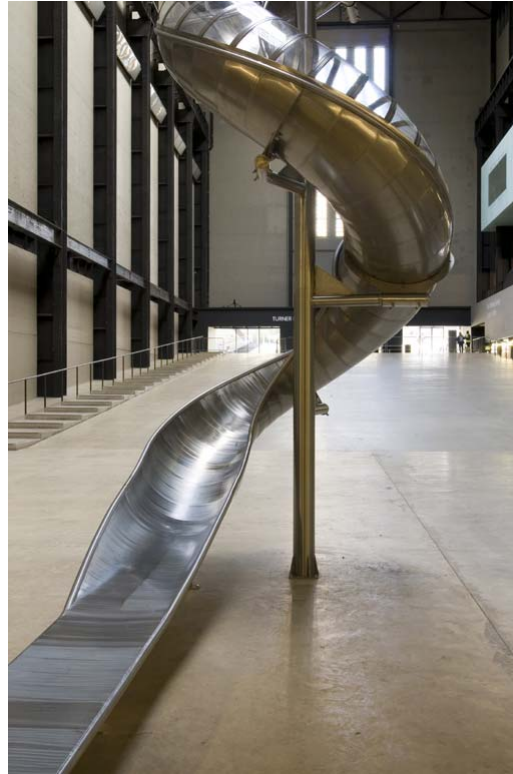
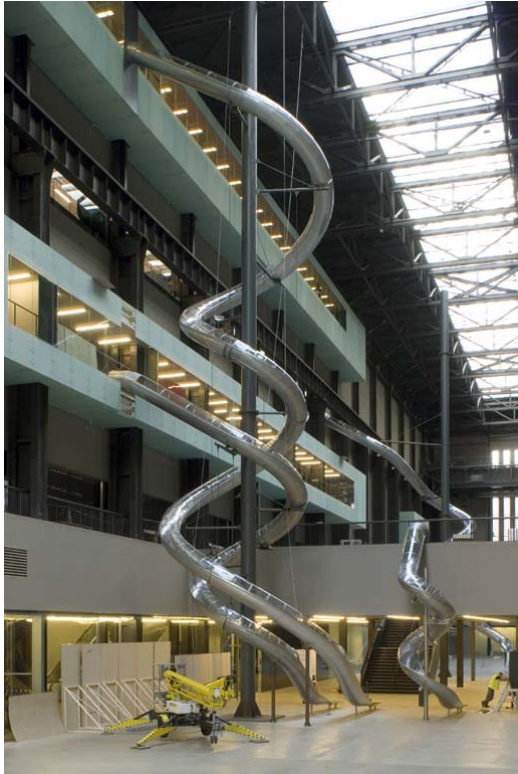
CARSTEN HÖLLER
National Technical Library, Prague
August 2008



Elevations

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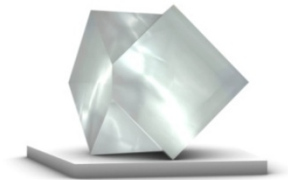
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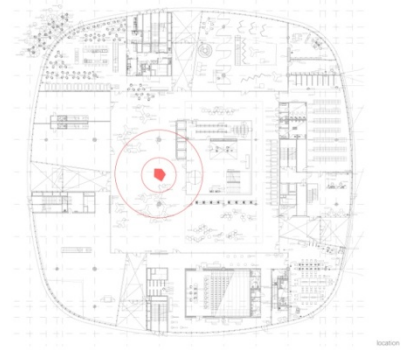
<http://www.youtube.com/watch?v=Ydqa-gYMSLs>

Carsten Nicolai

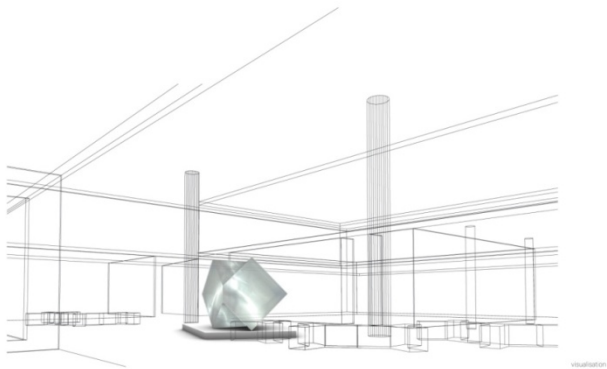
carsten nicolai - prager zwilling
2008 | proposal - sculpture for the technical library praha



carsten nicolai - prager zwilling
2008 | proposal - sculpture for the technical library praha



carsten nicolai - prager zwilling
2008 | proposal - sculpture for the technical library praha



carsten nicolai - prager zwilling
2008 | proposal - sculpture for the technical library praha

model 1:50



Carsten Nicolai

carsten nicolai . prager zwillling

2008 proposal . sculpture for the technical library praha

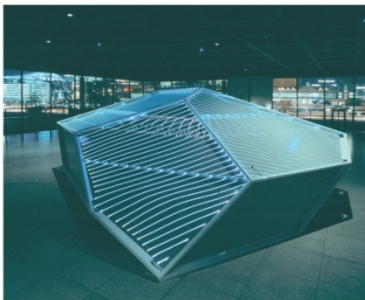
syn chron . 2004

lightweight structure, steel, aluminum,
laser projection, sound system, rubber
1250 x 800 x 460cm

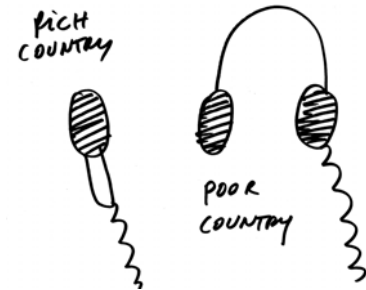
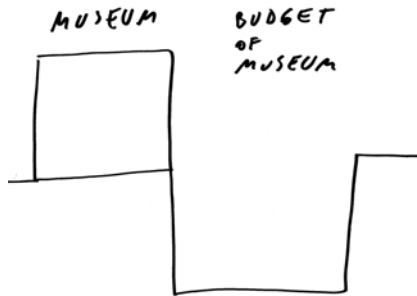
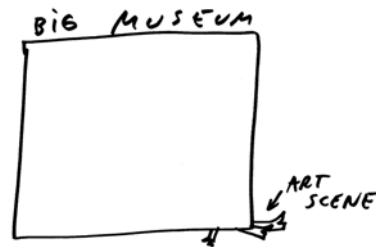
The intention of syn chron is to create an integral sculpture of light, sound and architecture. Additional to its function to define the spatial structure of the object the translucent skin of the accessible crystal-shaped body serves as an interface for a synchronized play of light and sound, both on the interior and exterior of the object.

The object at the same is a room for spatial experience, an acoustic resonance body, and a projection surface. The visitor is witness to an interplay of electronic sound – transmitted onto the surface of the crystal – and programmed laser beams that are visible both on the out- and the inside.

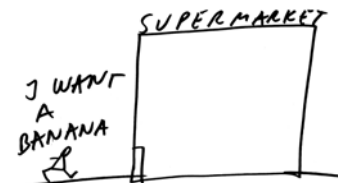
syn chron thereby creates an synaesthetic experience: in the inner, organic space of the human body the external signals of light and sound blend into each other to form a whole.



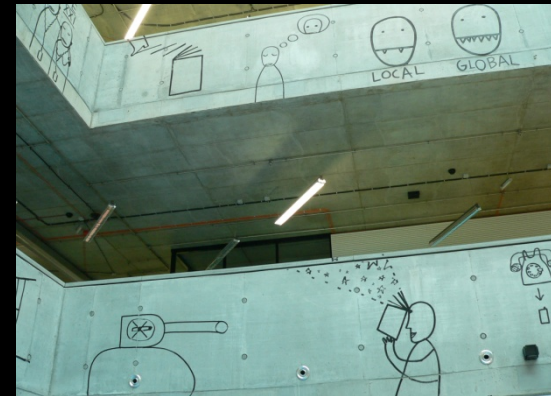
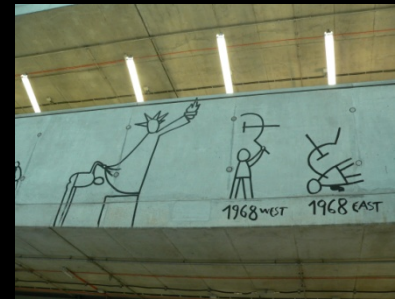
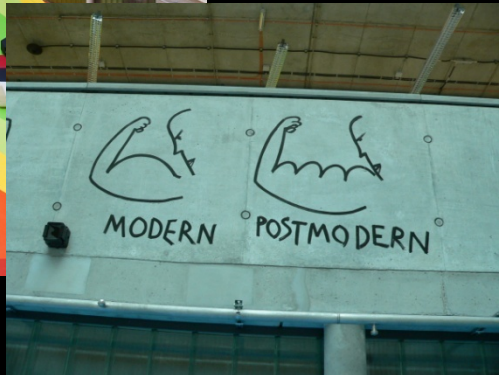
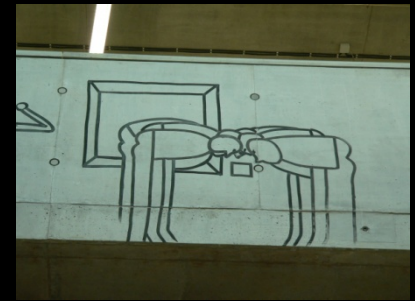
Dan Perjovschi




I AM A
POSTMODERN
EXCOMMUNIST



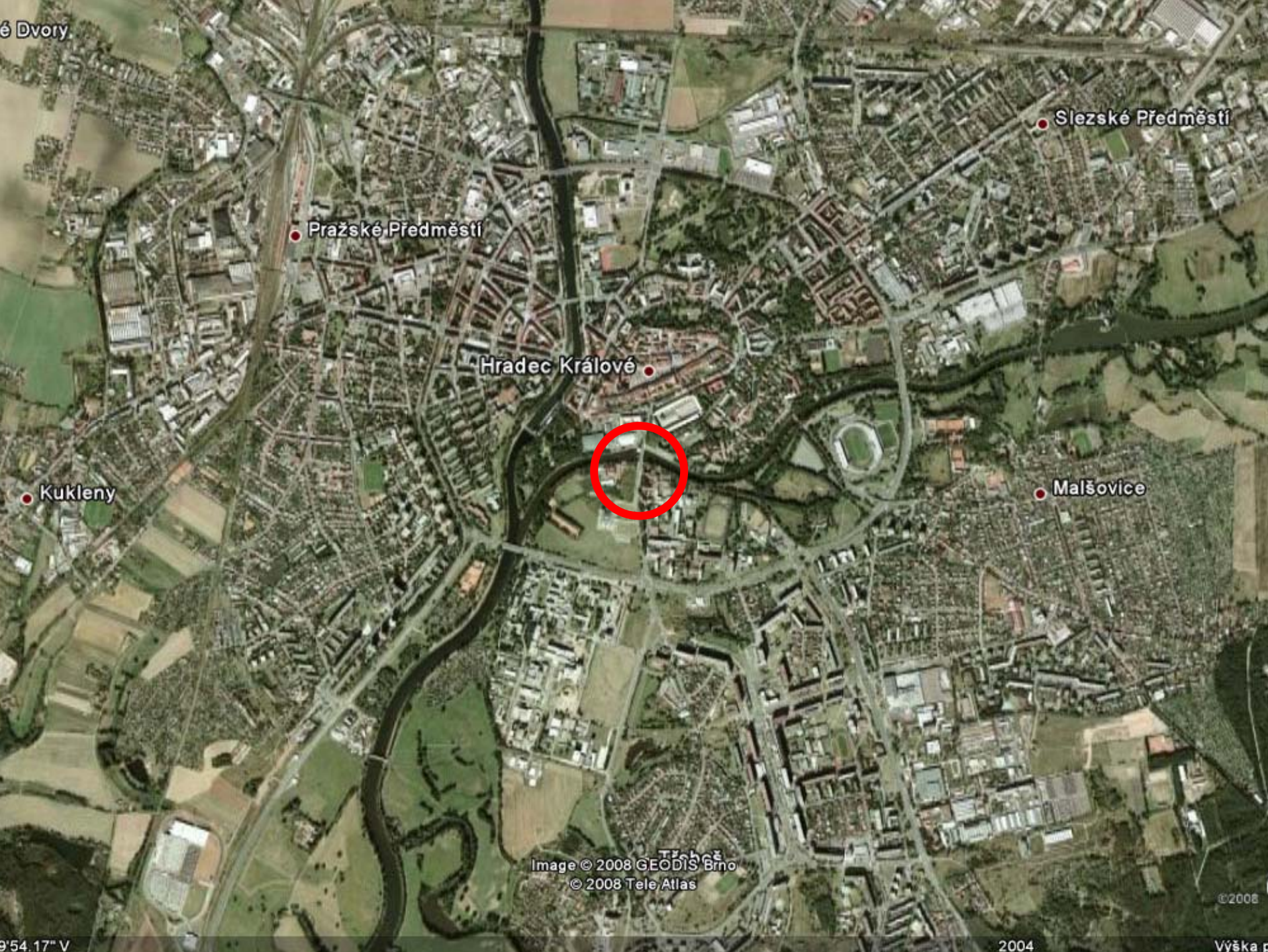
Dan Perjovski







study and science library in hradci králové



é Dvory

Pražské Předměstí

Slezské Předměstí

Hradec Králové

Kukleny

Malšovice

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9°54.17" V

2004

Výška



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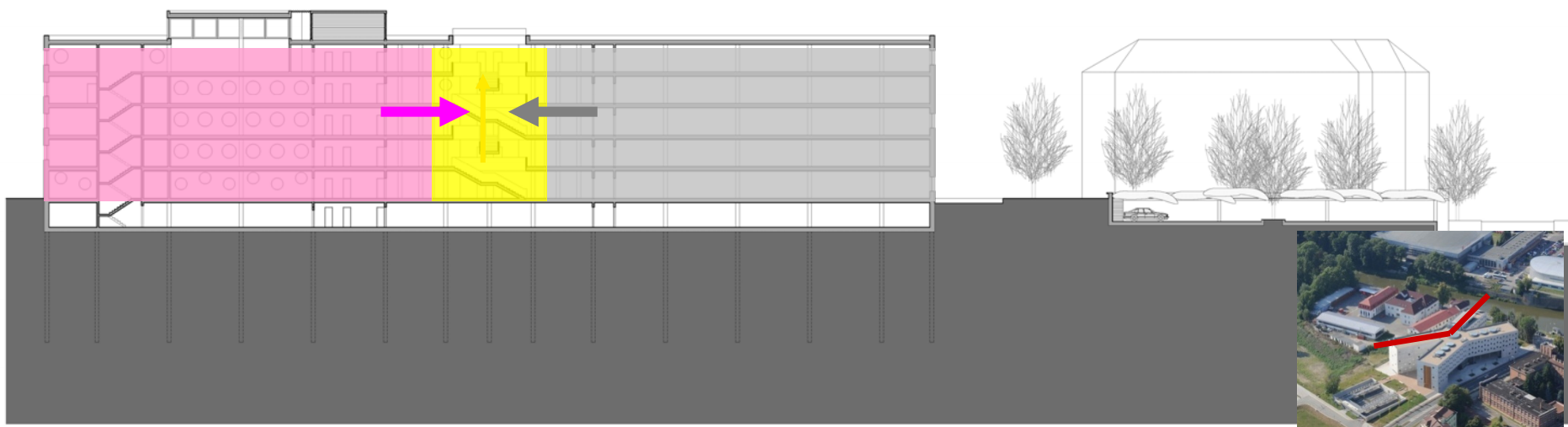
©200





50m

10m



study and shelves



entrance area



administration



storage

50m

10m

