PLACING RESEARCH INTO LIGHT
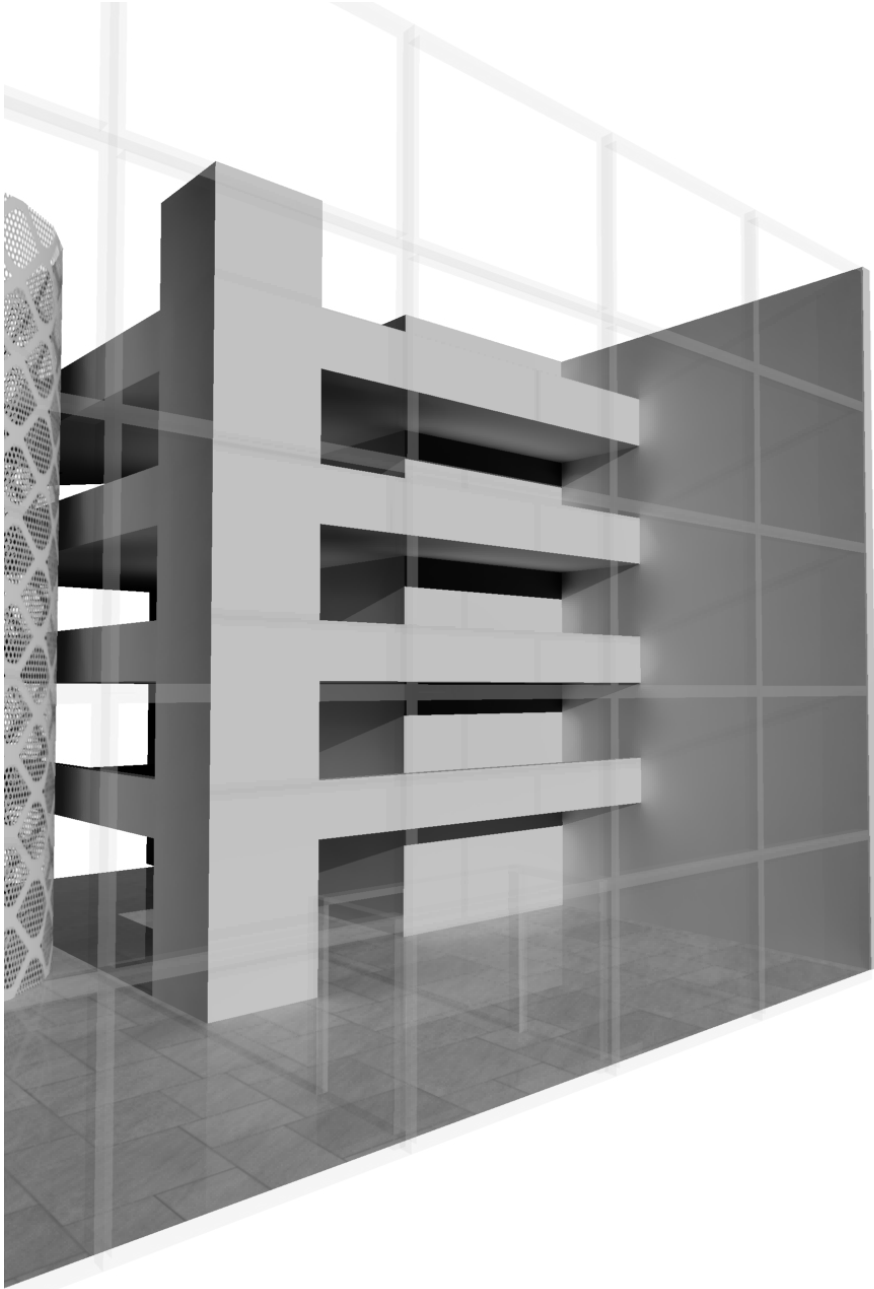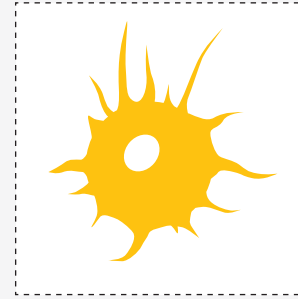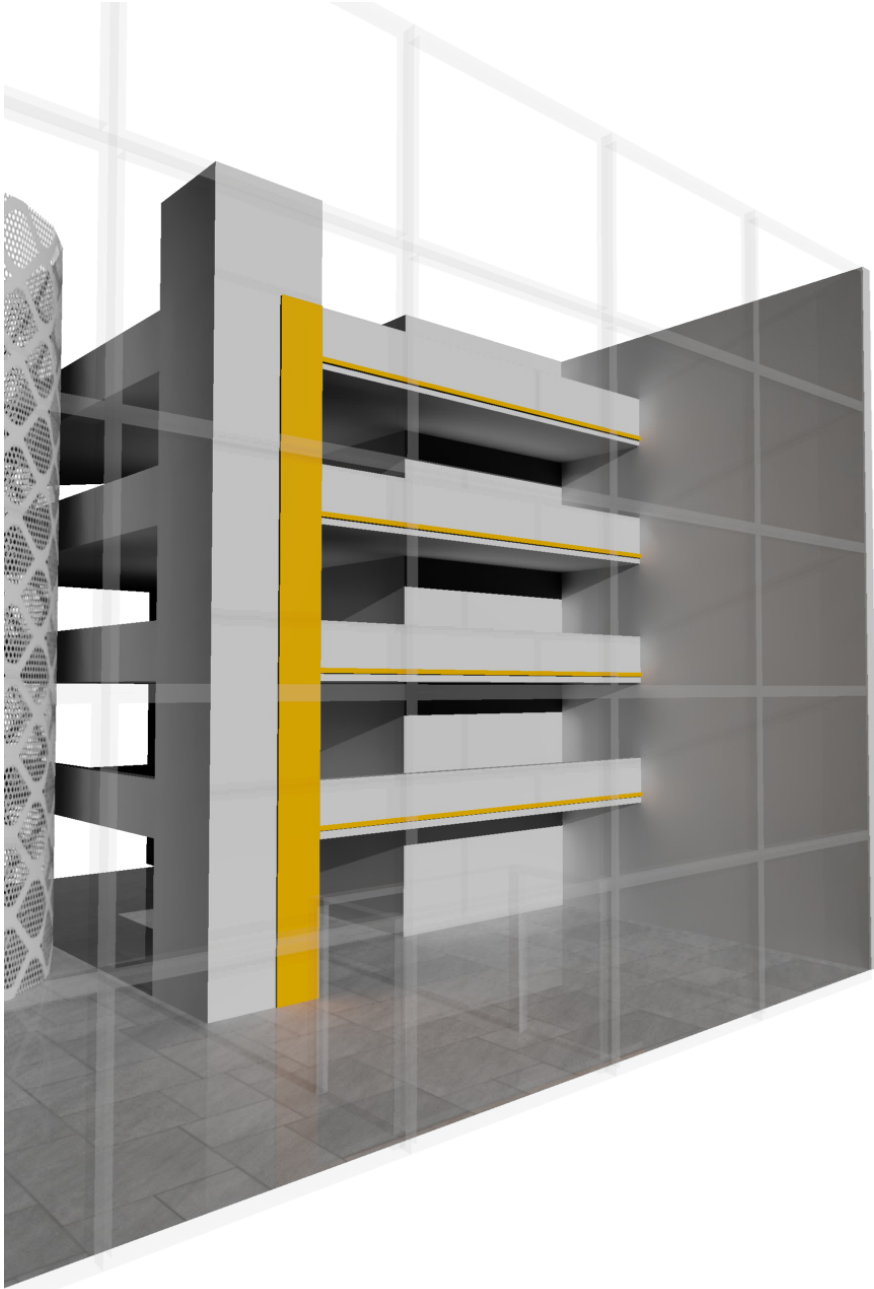
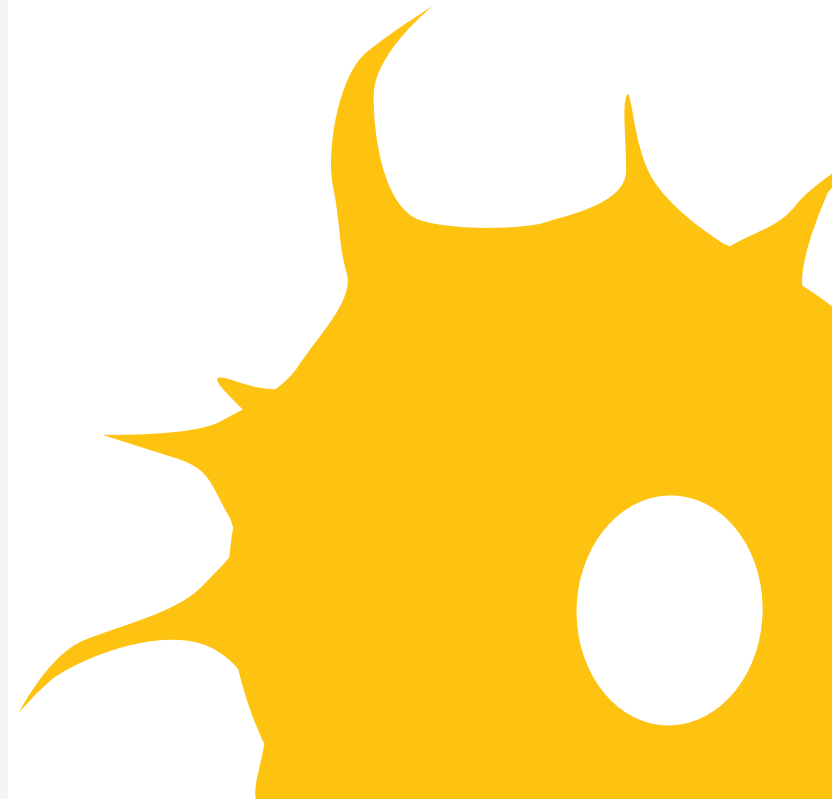# PLACING RESEARCH INTO LIGHT

Actual Condition

The foyer is lacking representation of research being done inside the labs. Hence we want to install an interactive light installation, which brings the lobby to life.
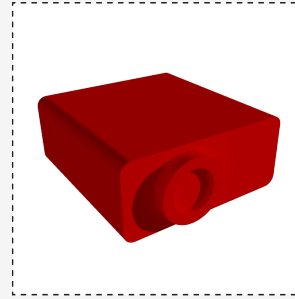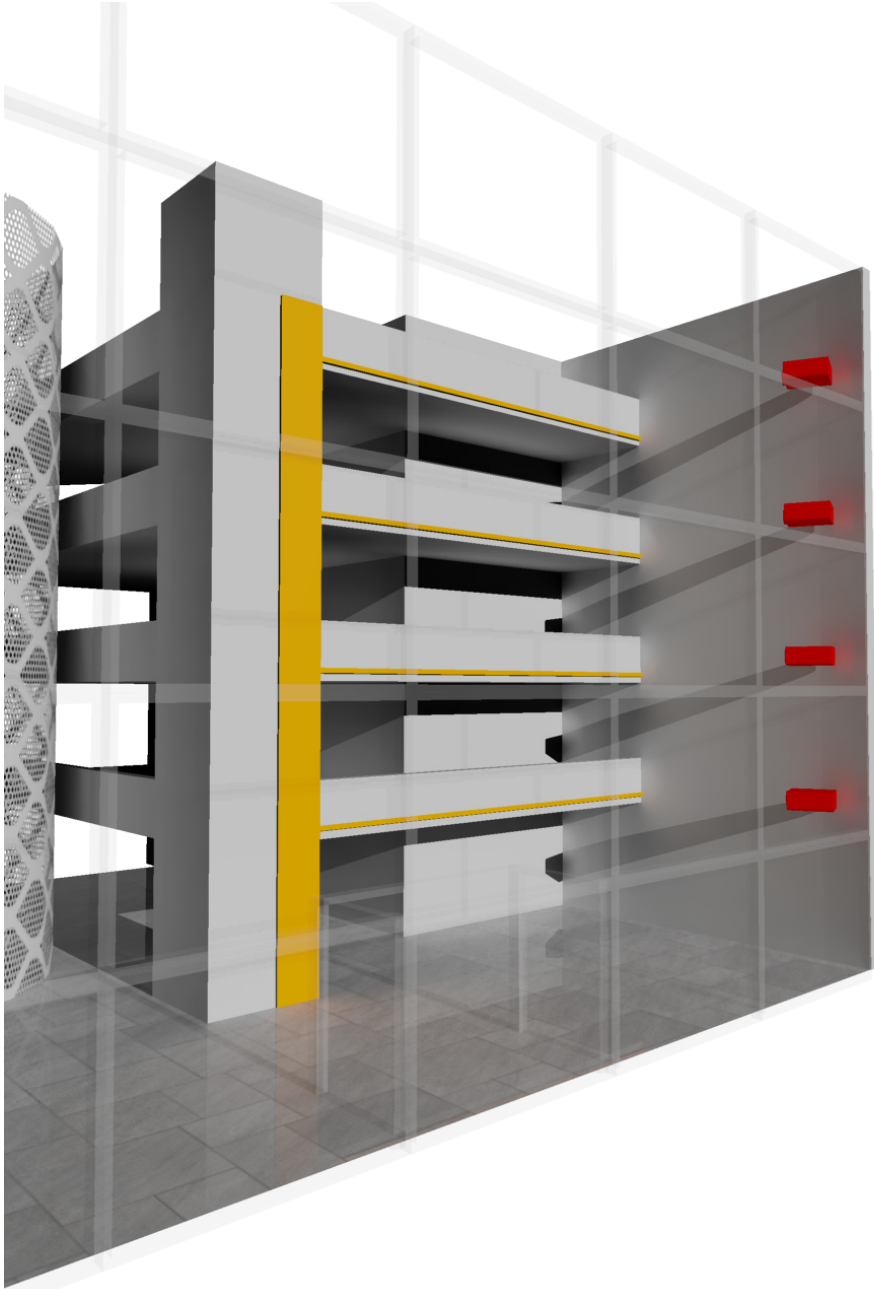
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Print

A permanent print is applied to the elevator shaft, which is clearly visible at daylight.
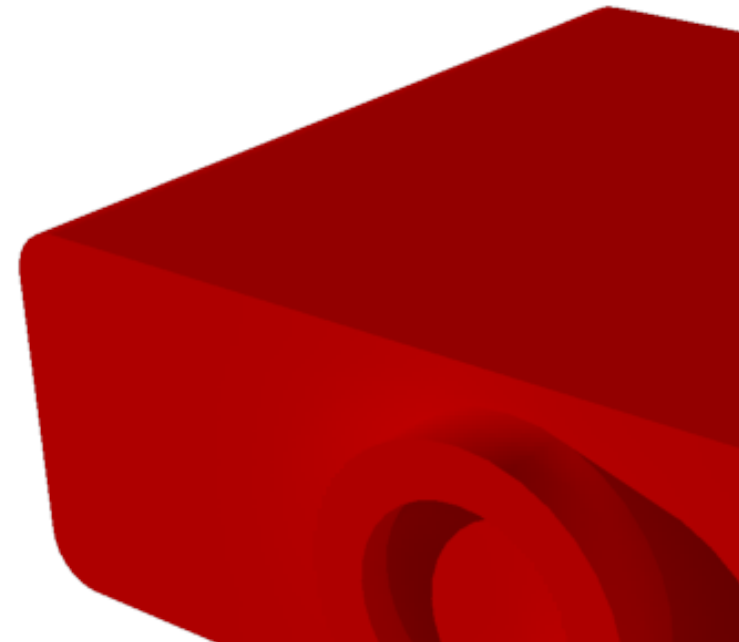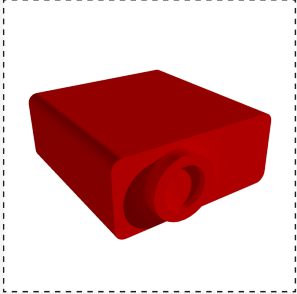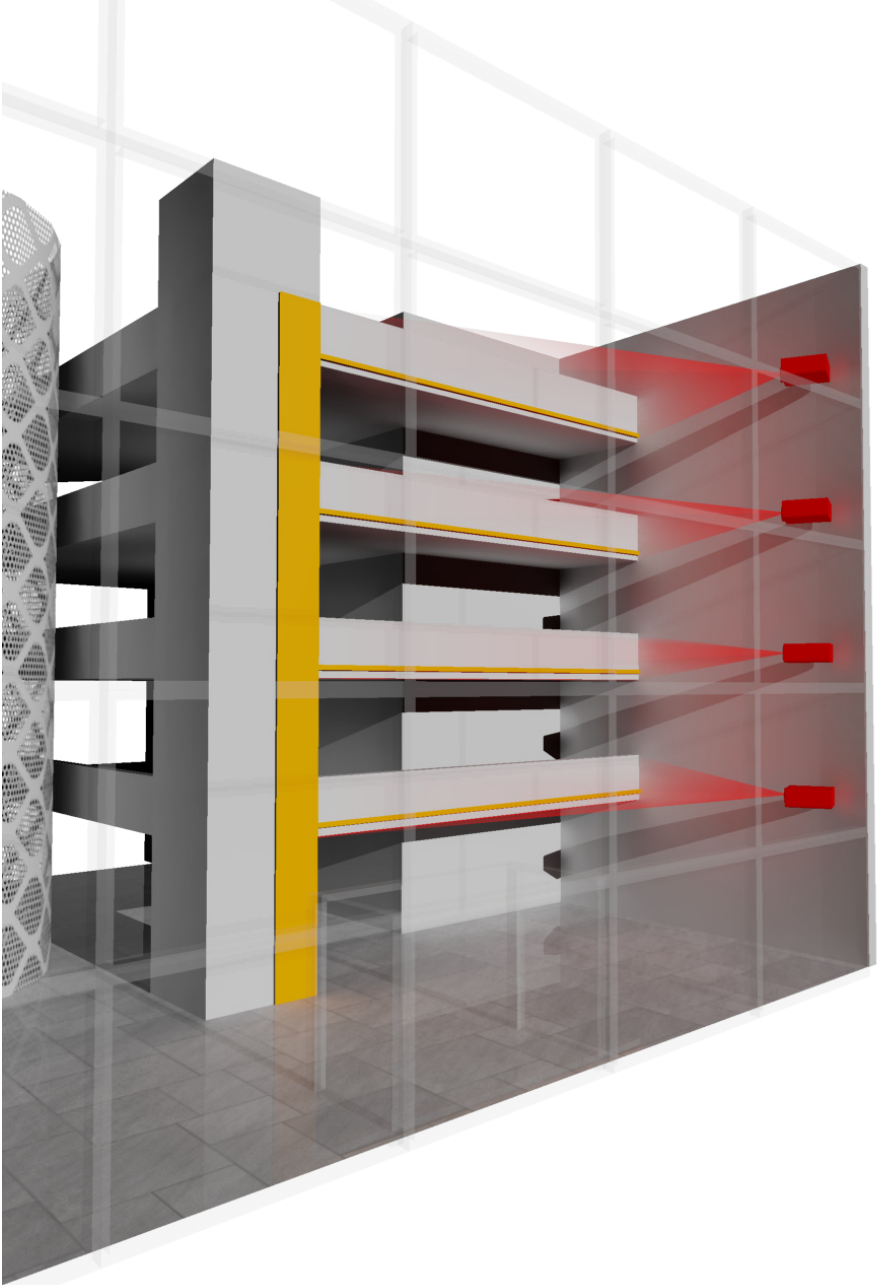
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Illumination

An array of projectors can cast moving illumination to the elevator shaft and the galleries leading to the northern home bases.
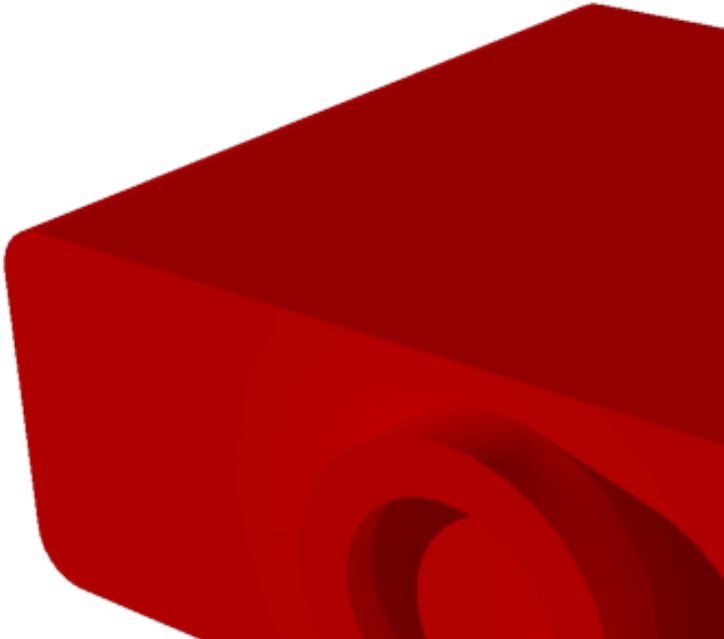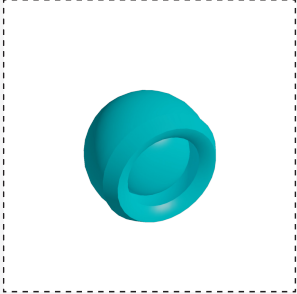
PLACING RESEARCH INTO LIGHT
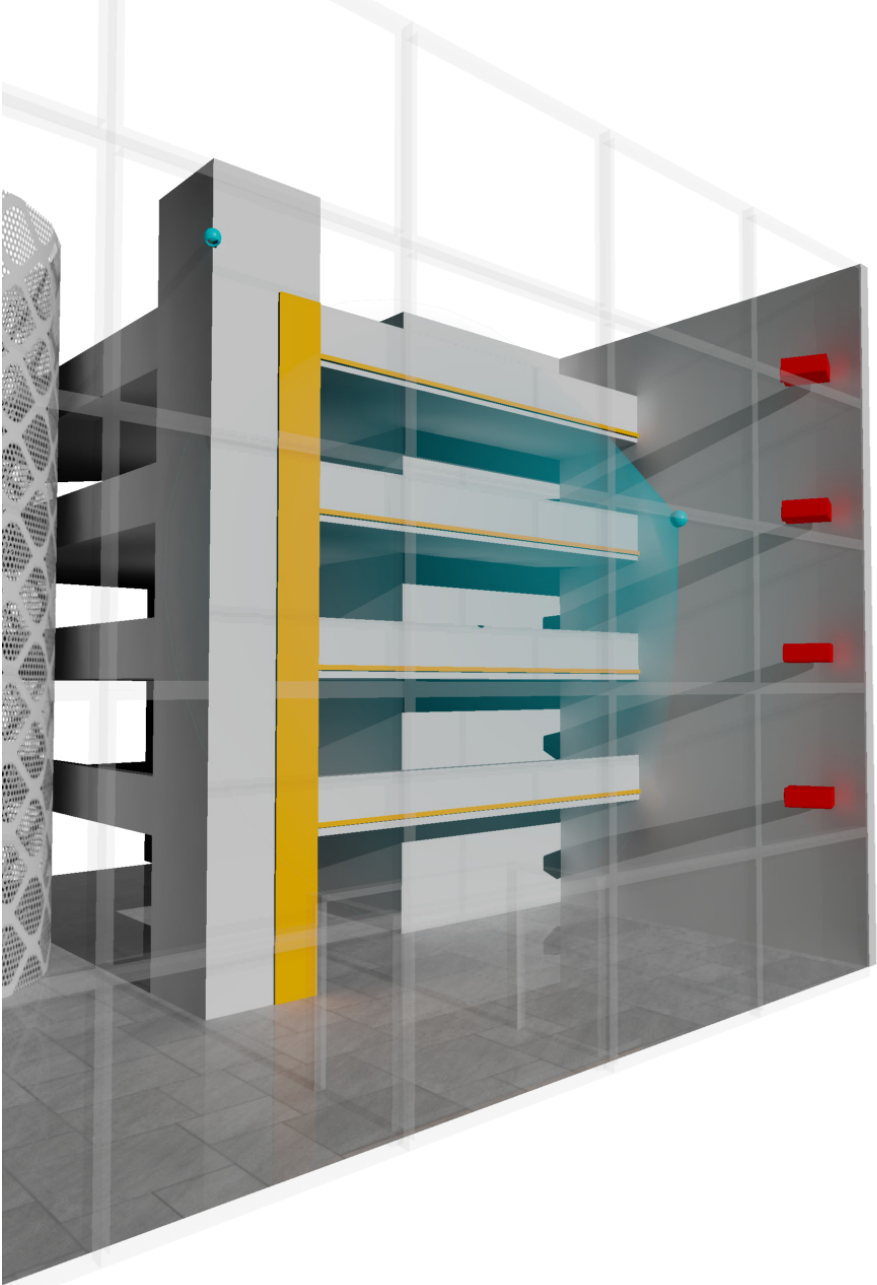

Illumination

The projectors are only activated when light conditions allow. They turn the very architecture of the lobby into one huge screen.
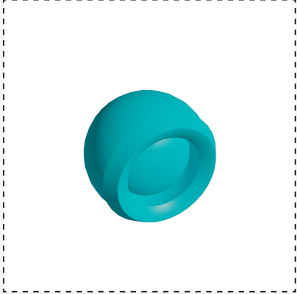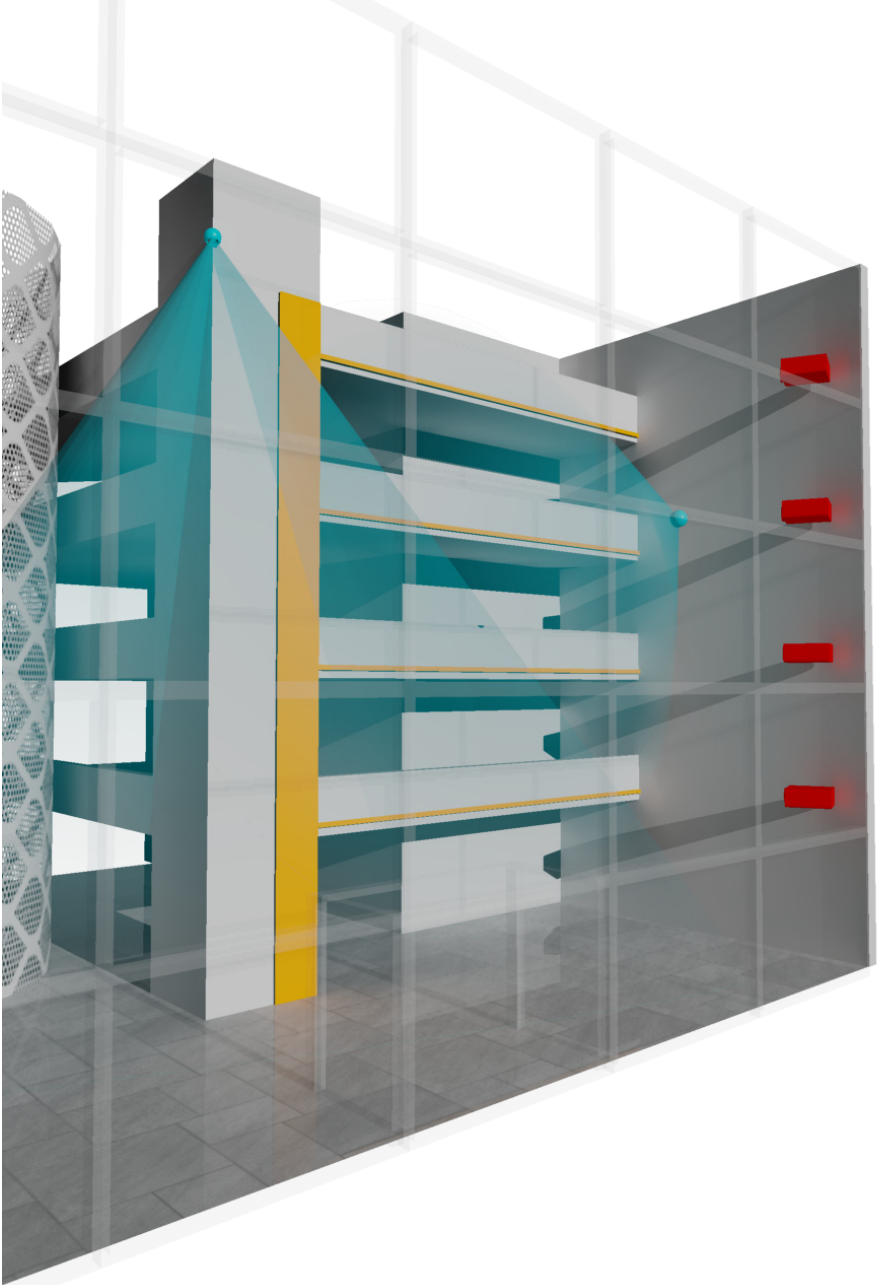
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Motion Detection

Motion trackers will observe movements and gatherings of people.
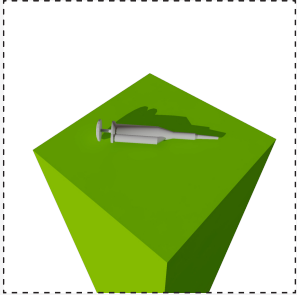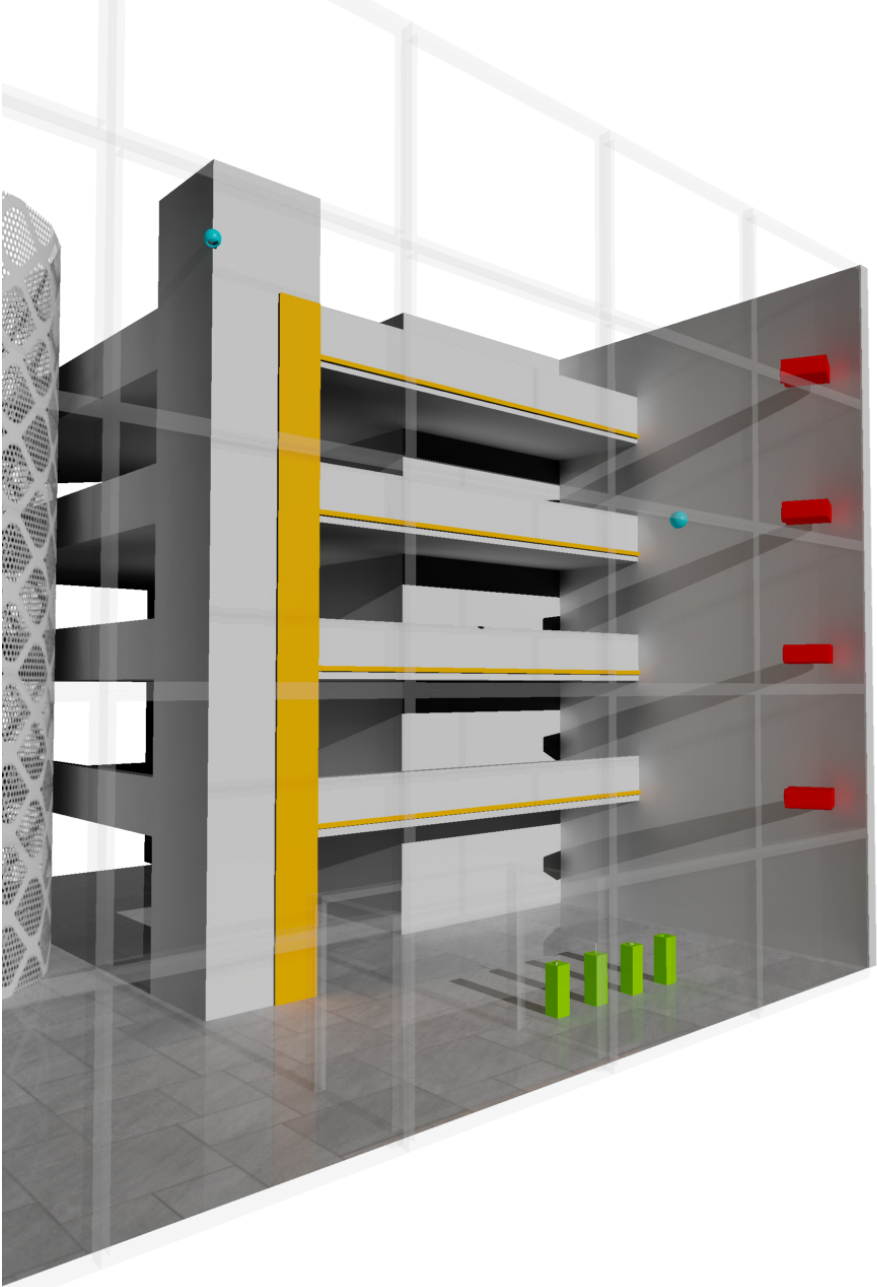
PLACING RESEARCH INTO LIGHT

Motion Detection

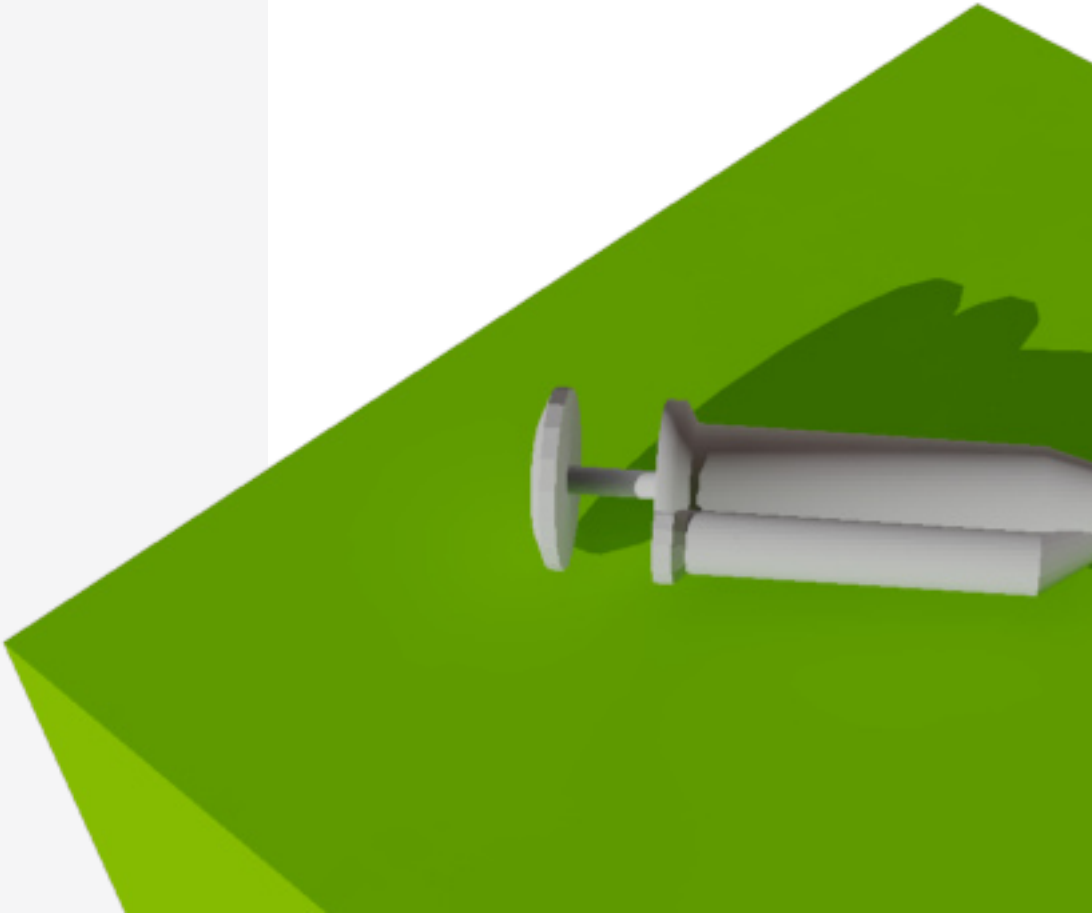So the illumination can be depended on current general activity in the lobby.
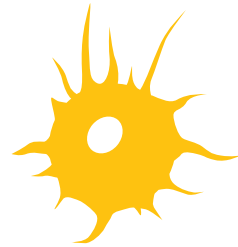
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Direct Interaction

Four hands-on terminals allow easy and direct interaction with the the projected illumination. All terminals can be themed to lab instruments that are used in everyday research.

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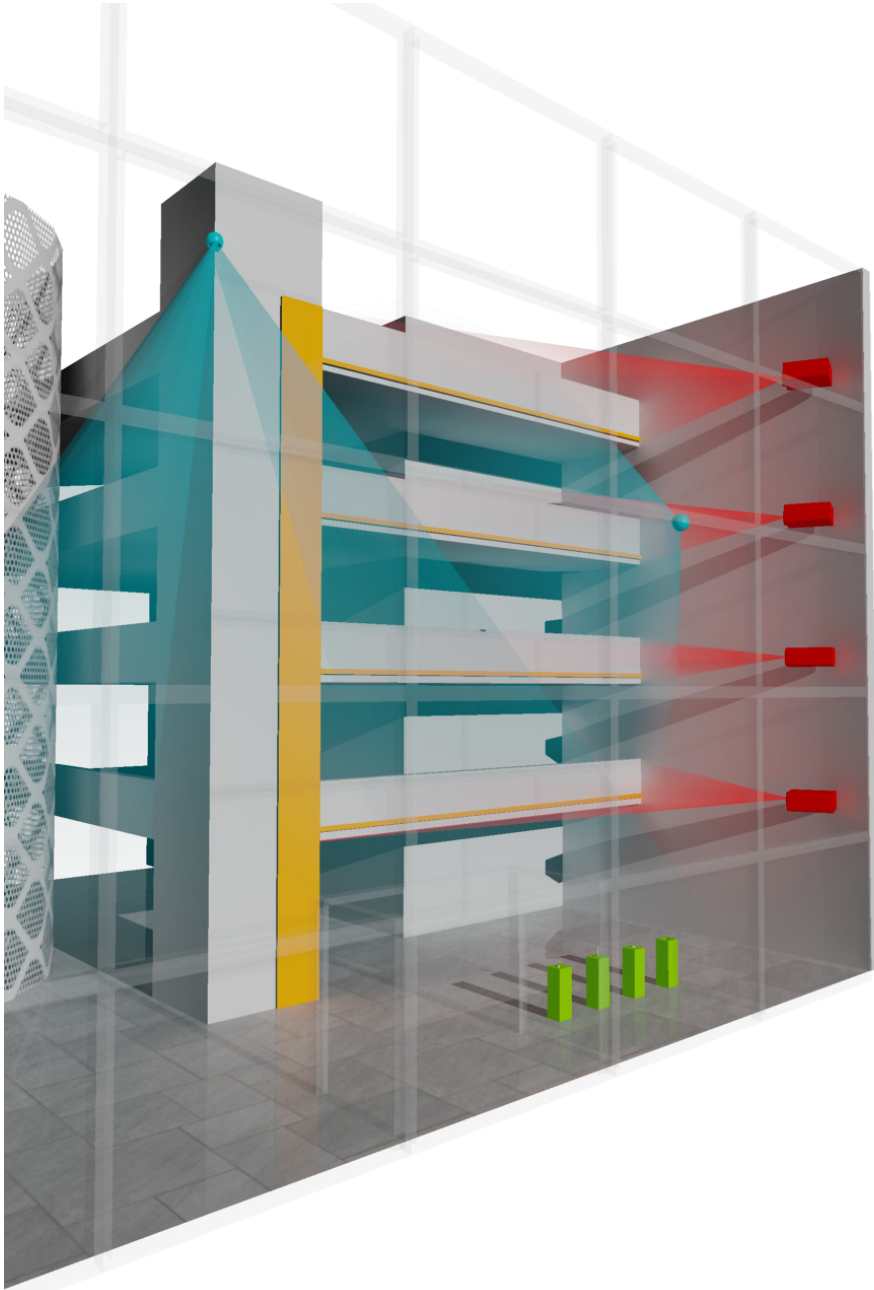
Connecting the Pieces

As research meets art and cutting edge multimedia technology several benefits are offered:

* Tight integration with the architecture and its people (yes, you)
* Ambient illumination of the lobby at night and twilight
* Visual explanation of the field of CBG-research
* Playful introduction to the experiments carried out in the labs

PLACING RESEARCH INTO LIGHT

MOLEKÜL / MOLECULE

ZELLE / CELL

GEWEBE / TISSUE

ORGANISMUS / ORGANISM
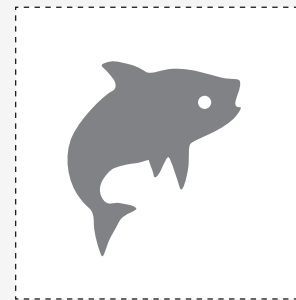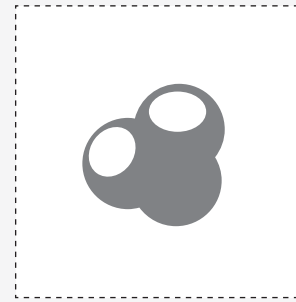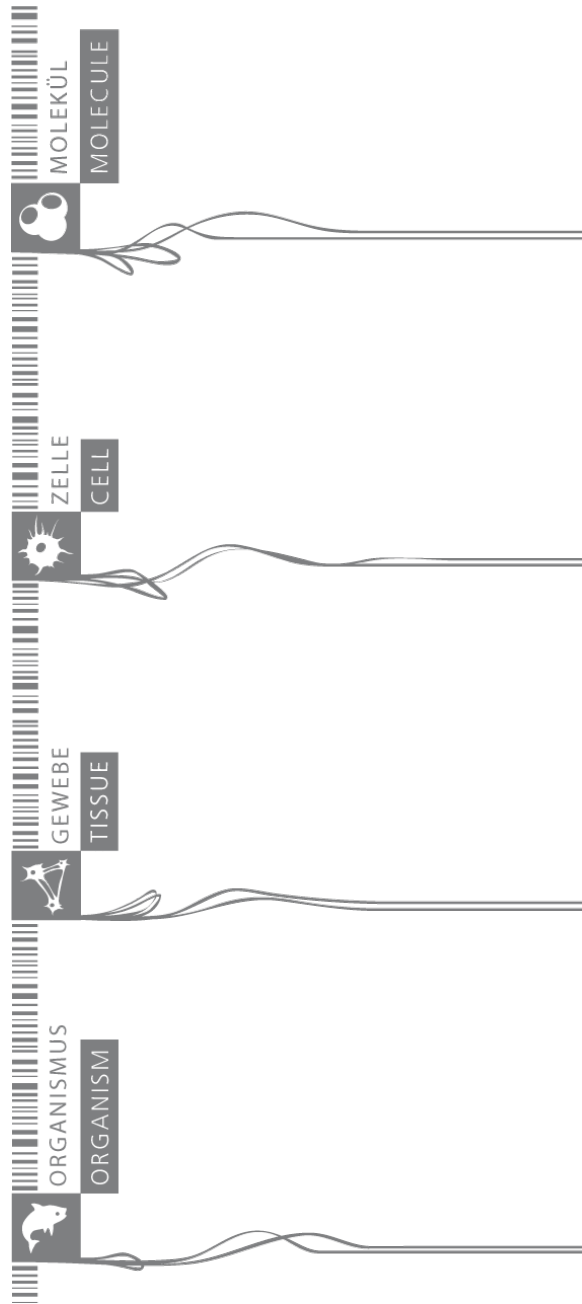
Levels of Detail

It is size that makes the research of molecular cell biology both hard and interesting. Scaling from entire organisms down to nanostructures, and still making the connections in between is what makes the CBG special.

Hence we theme each gallery with one out of four size levels:

* Molecule - 1nm
* Cell - 1μm
* Tissue - 1mm
* Organism - 1m

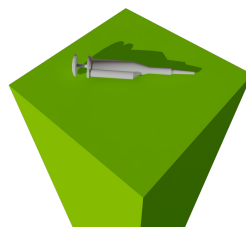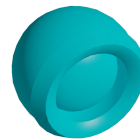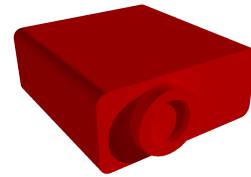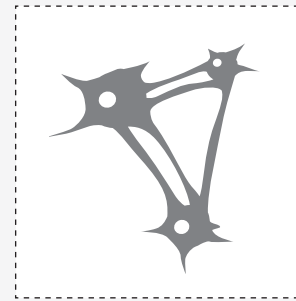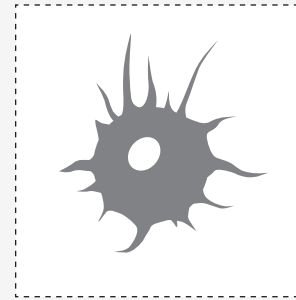The size levels are ordered from bottom to top, decreasing exponentially in size and growing in abstraction.

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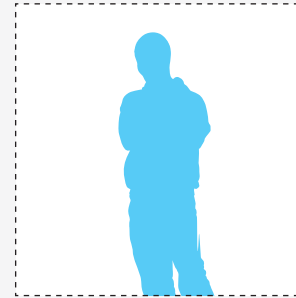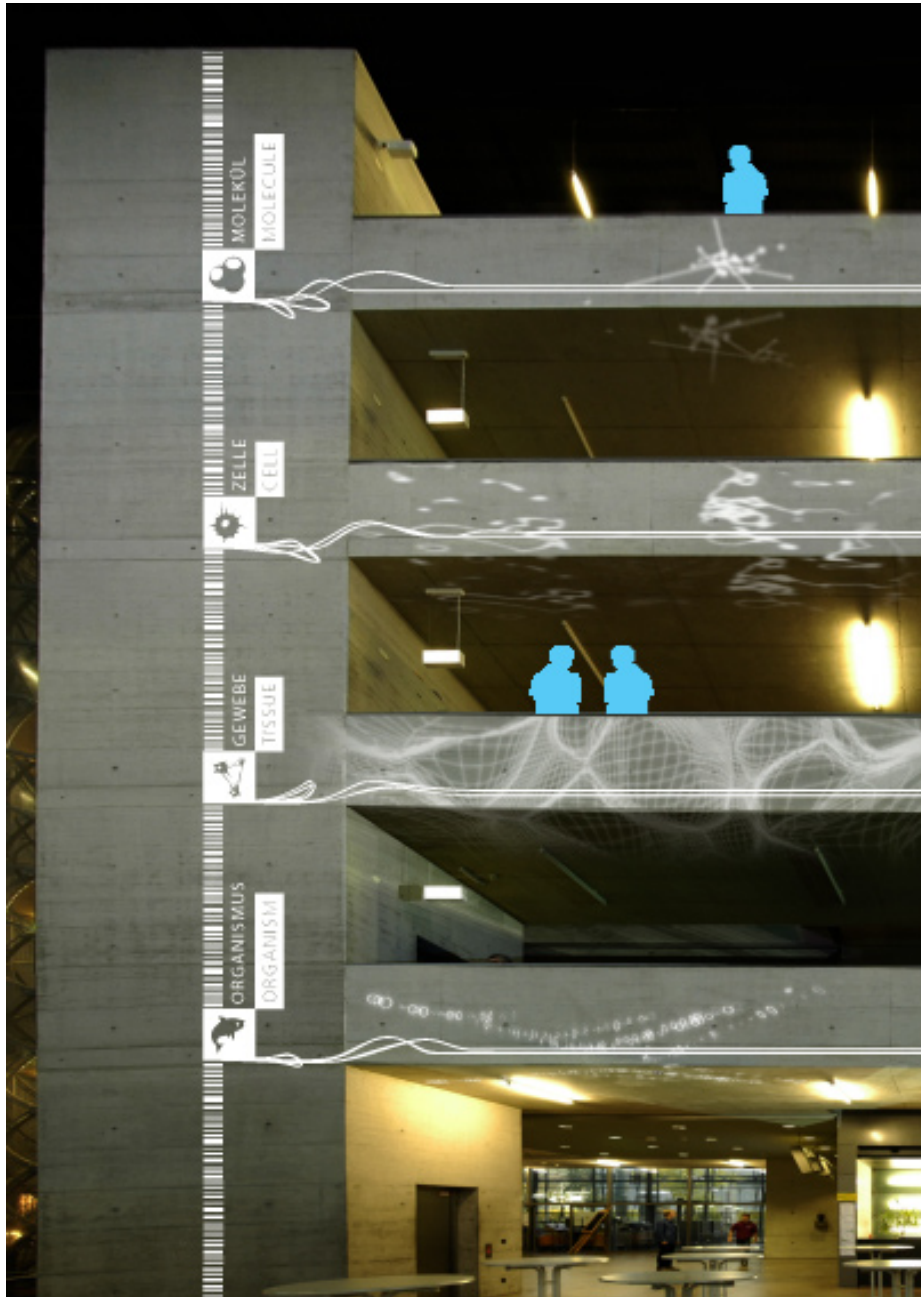
Motion Detection

Everytime somebody walks down the galleries his movements are detected and the projected life will react in various ways.

PLACING RESEARCH INTO LIGHT

Technology   which can be reused without the installation

Projector with 4000-5000 Ansi Lumen	4	2400	9600
PC with Multicore and good GFX	3	600	1800
VGA Cable, very long	4	30	120
Ambient Lights	8	20	160
Total			11480

Materials   dedicated to building

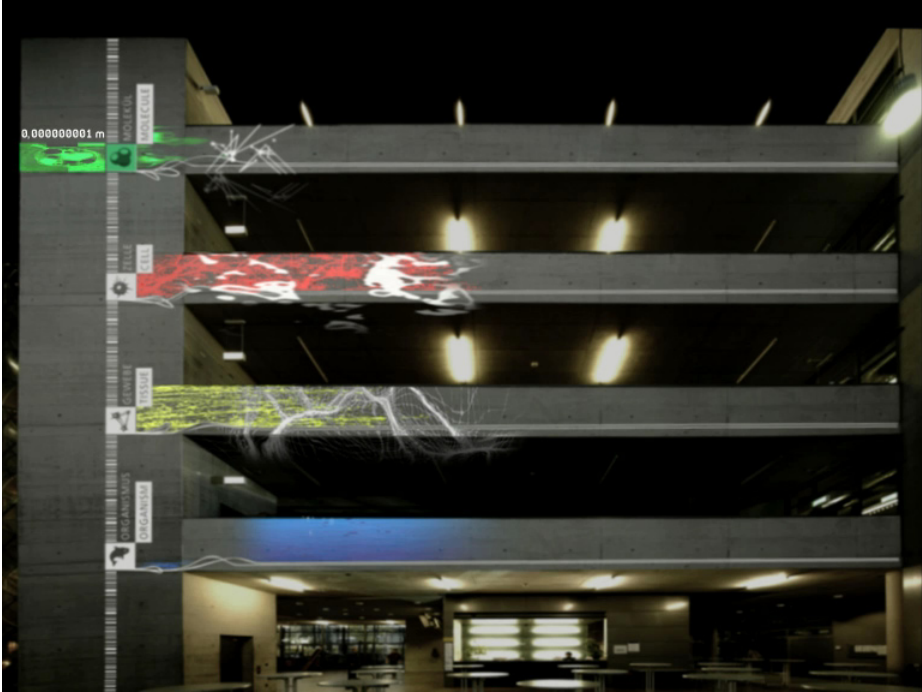|			
Plot and Application onto concrete	1	500	500
Webcam	3	100	300
Microphone	1	50	50
Midi Keyboard	1	70	70
Construction Supply for Terminals (wood, paint, plastics)	1	150	150
Technical Supply for Terminals (cables, controllers, interfaces)	1	250	250
Total			1320

Estimated Total	13000

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Movie

Click on the image to start the movie.

PLACING RESEARCH INTO LIGHT

Team

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