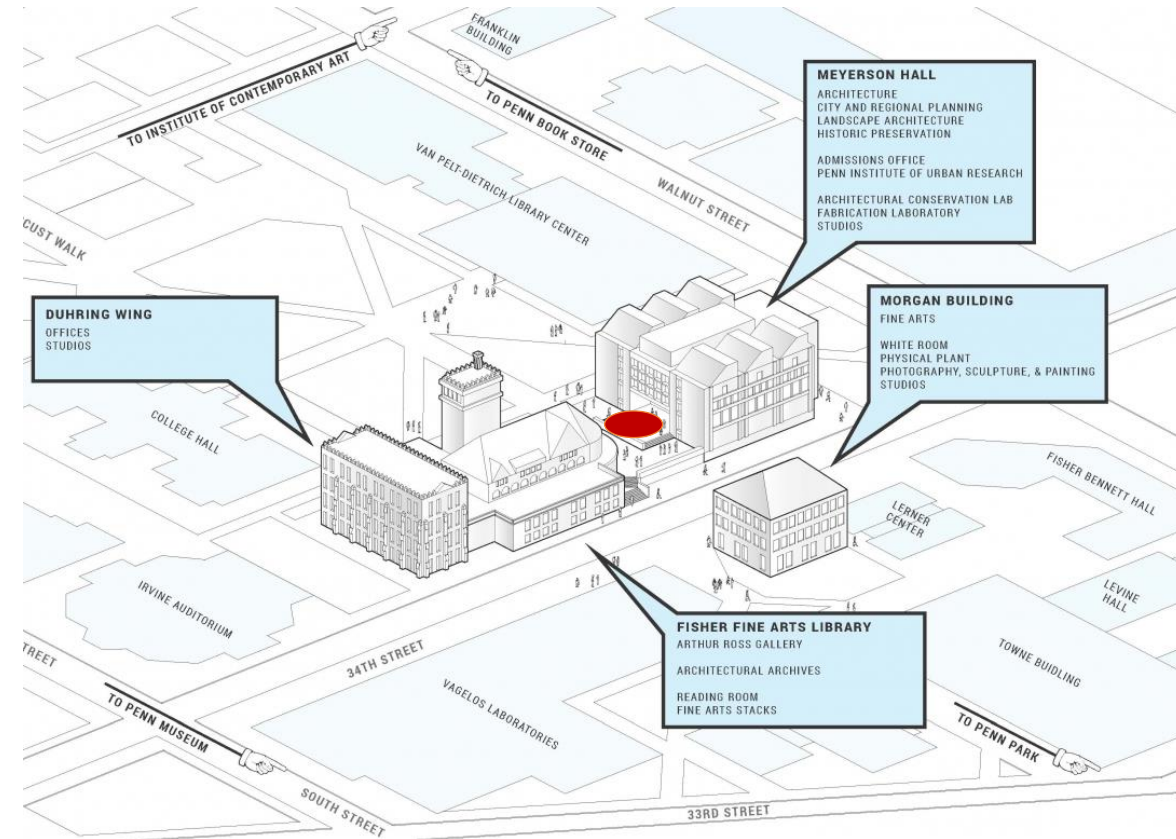


Shading Design

Ksenia Knyazkina

Building Performance Simulation

Site

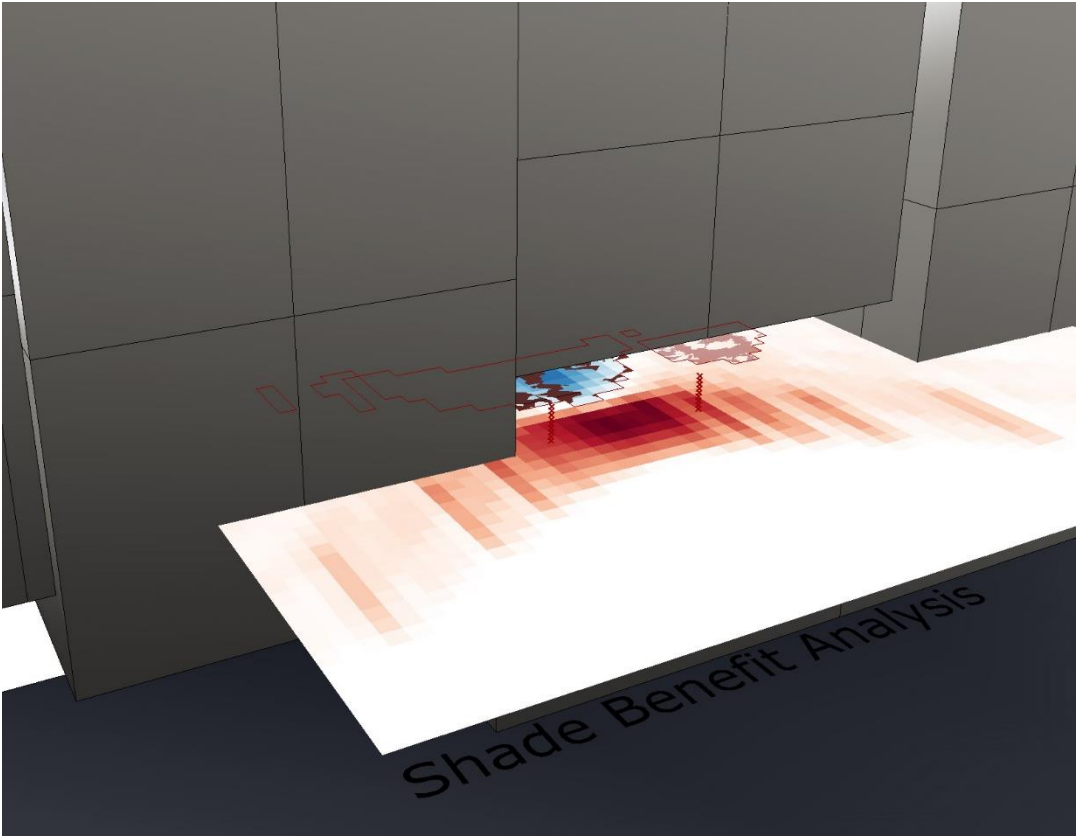


2 benches are located near the entrance to the Meyerson Hall. Façade is facing the South. Building itself provide the shading for benches.

Preliminary (without environment)

Left bench
Area: 13.594
Benefit: 2.578

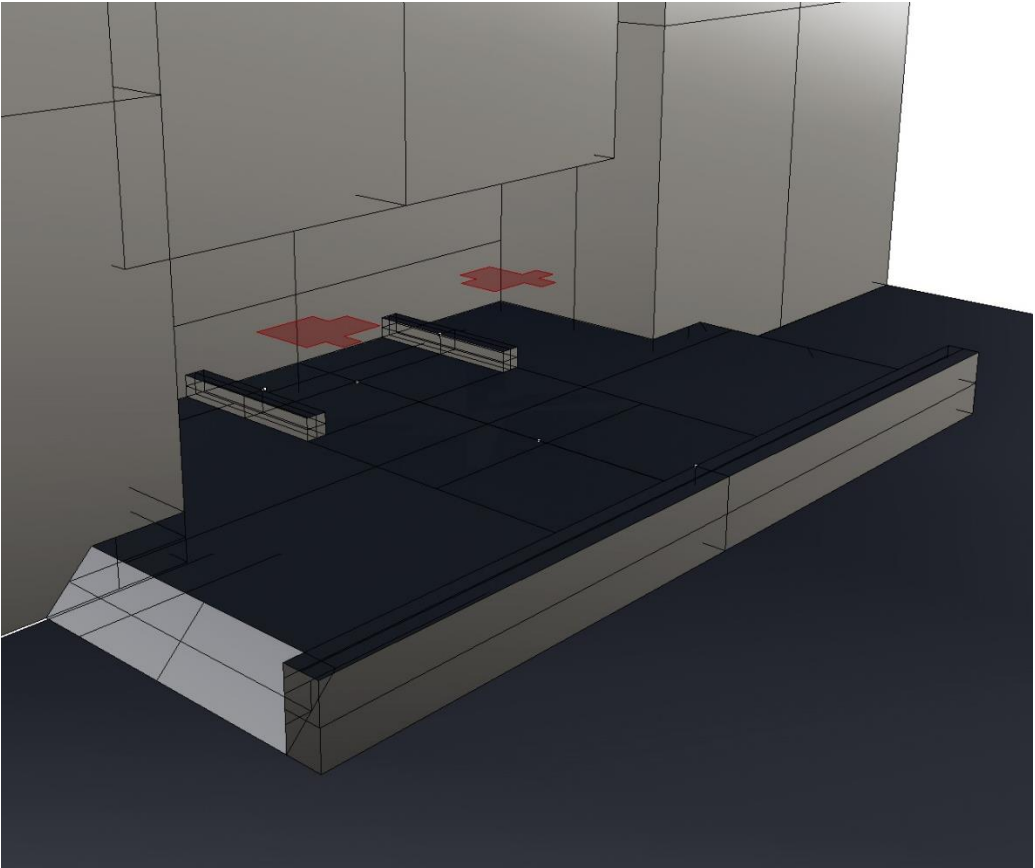
Right bench
Area: 11.18
Benefit: 3.09



In context

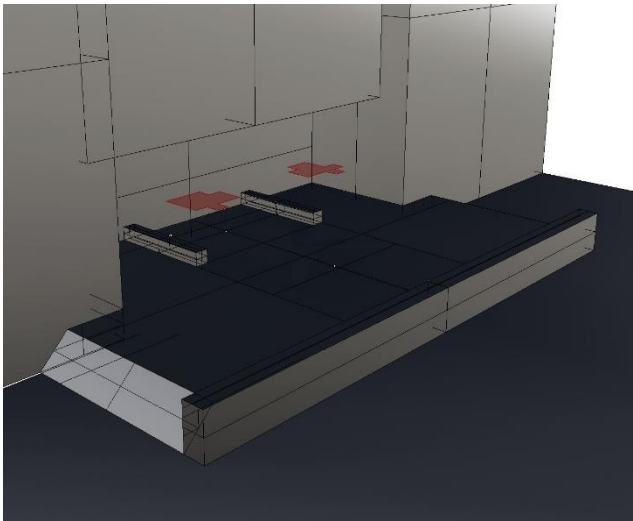
Left bench
Area: 13.594
Benefit: 2.578

Right bench
Area: 11.18
Benefit: 3.09

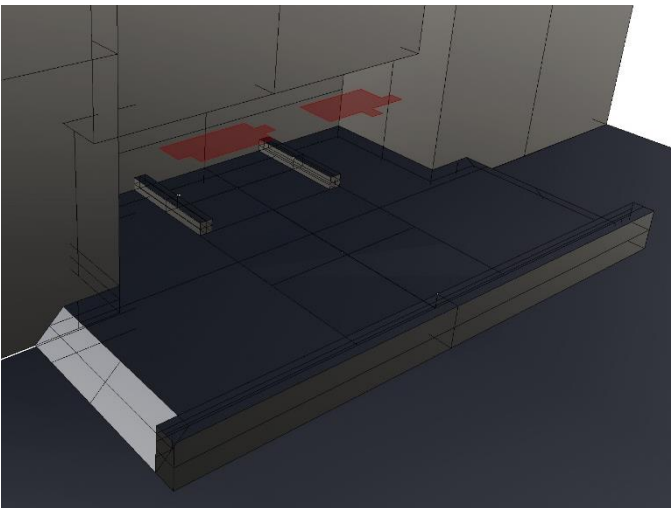


Impact of the height

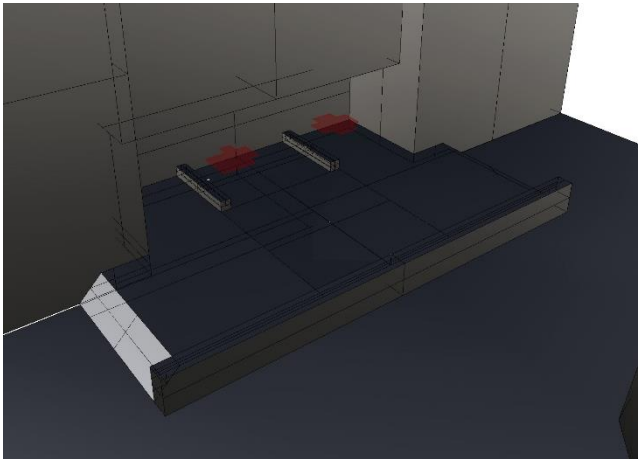
2.0 m



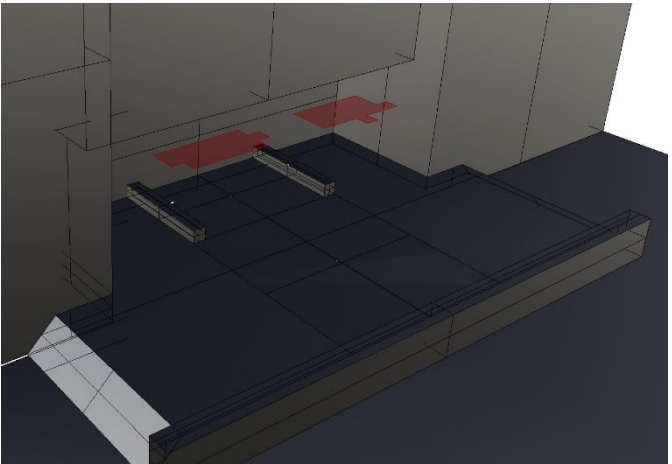
3.4 m



2.2 m



3.6m



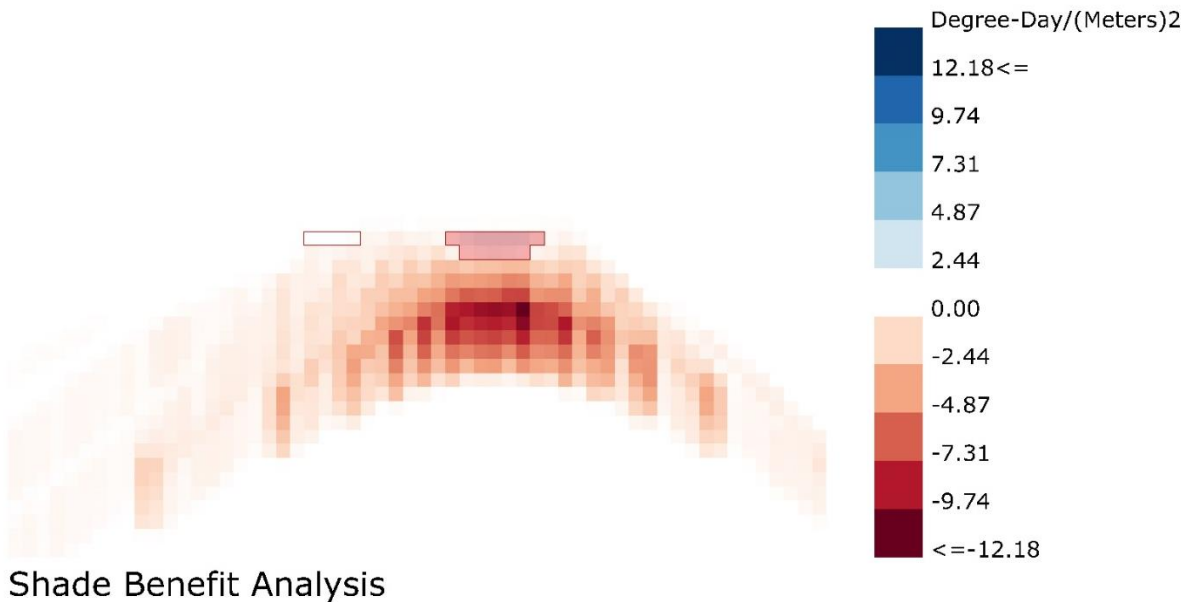
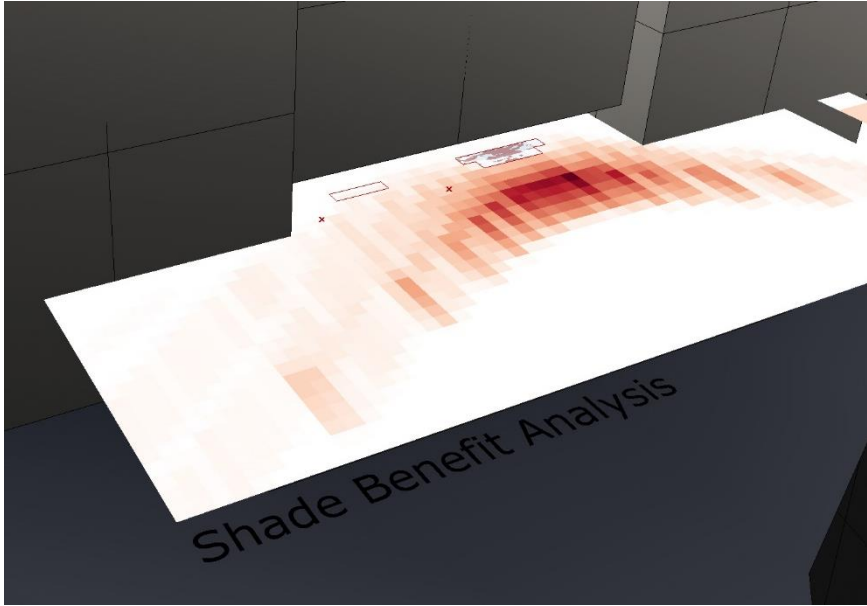
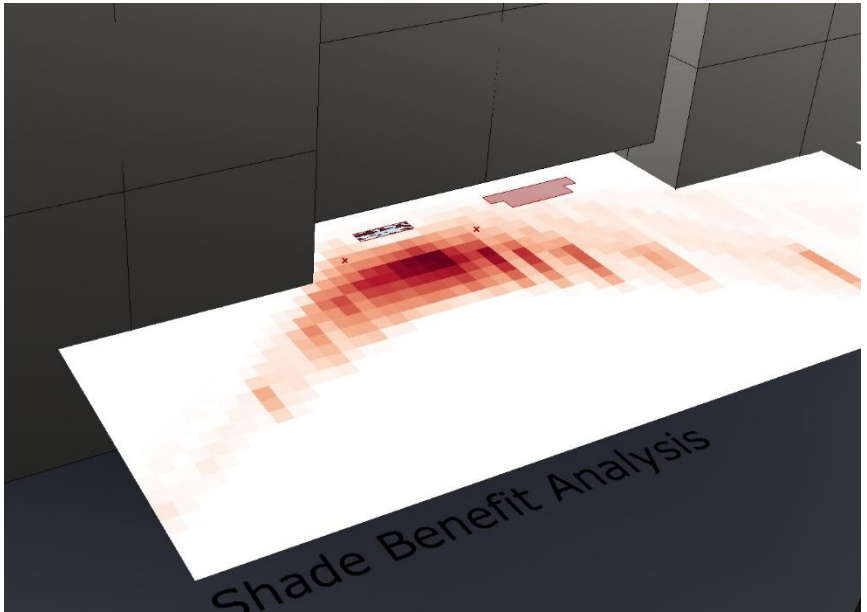
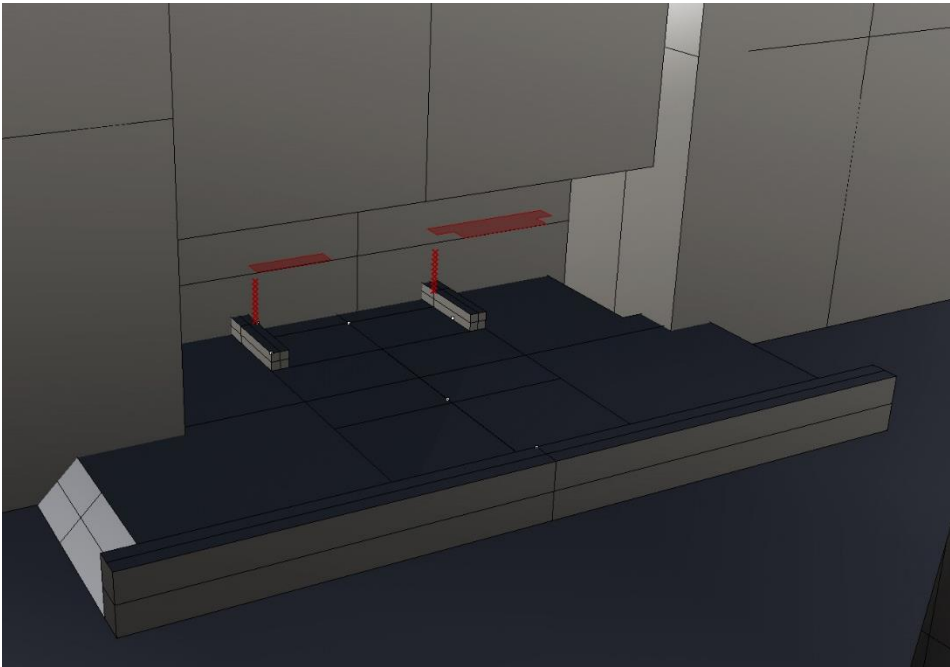
Final Design

3.0 m

Left bench
Benefit: 2.51 degree days
Area: 1.031 m2

3.2 m

Right bench
Benefit: 3.05 degree days
Area: 3.09 m2



Designed shading do not overlap harmful areas