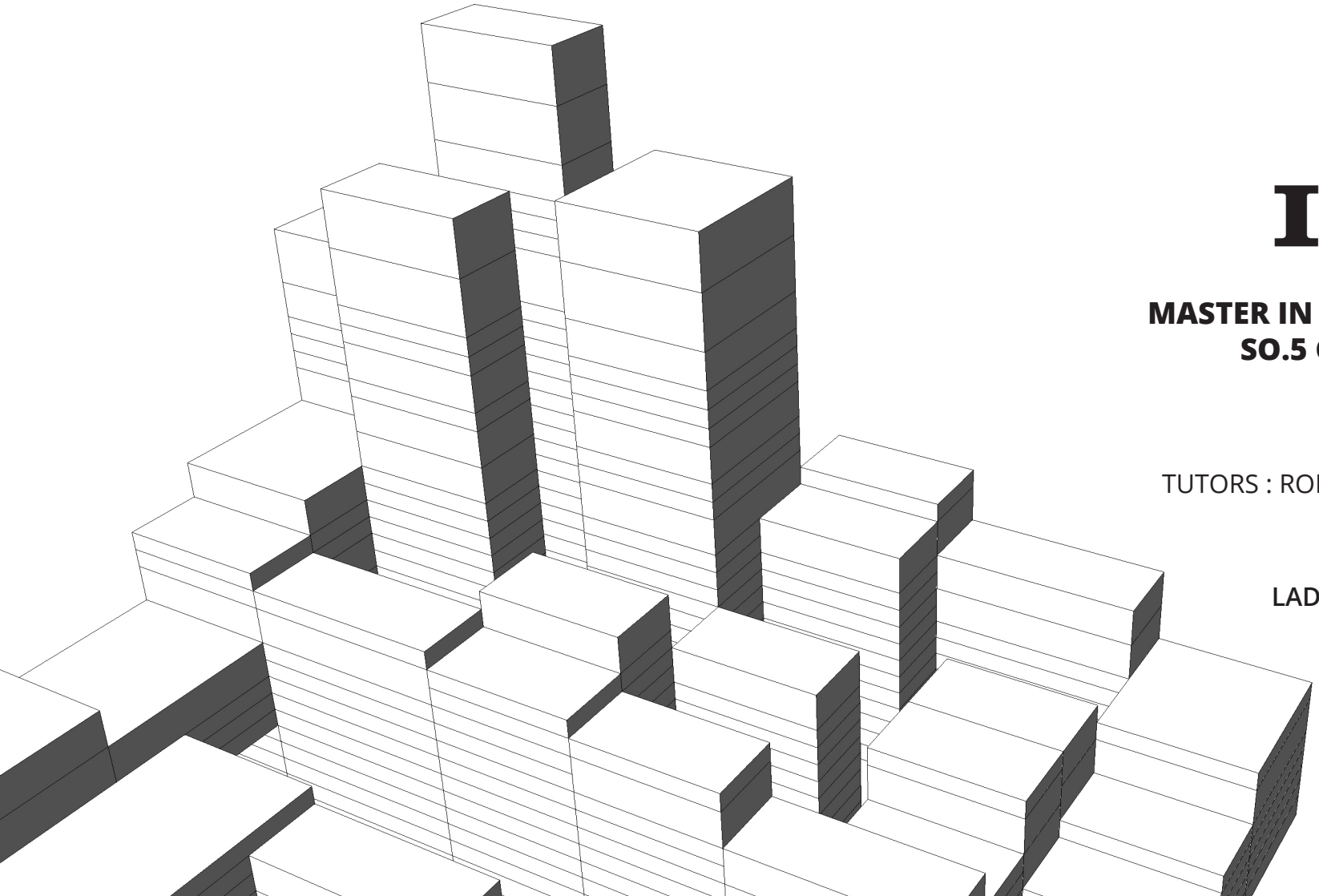


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# MASTER IN ADVANCED ARCHITECTURE
# SO.5 COMPUTATIONAL DESIGN - GENERATIVE ALGORITHMS
# 2016/17

TUTORS : RODRIGO AGUIRRE, ALDO SOLLAZZO

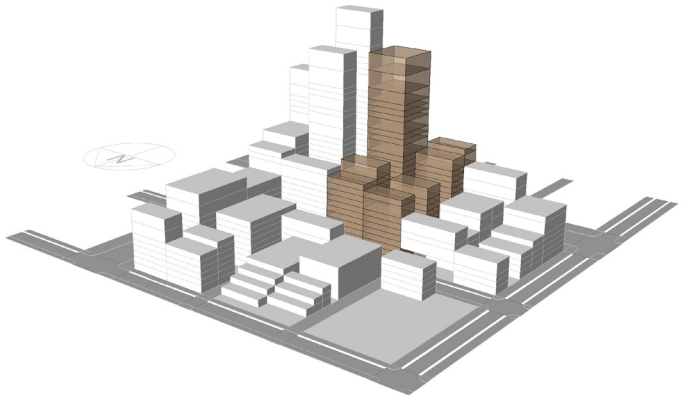
## GENETIC OPTIMIZATION

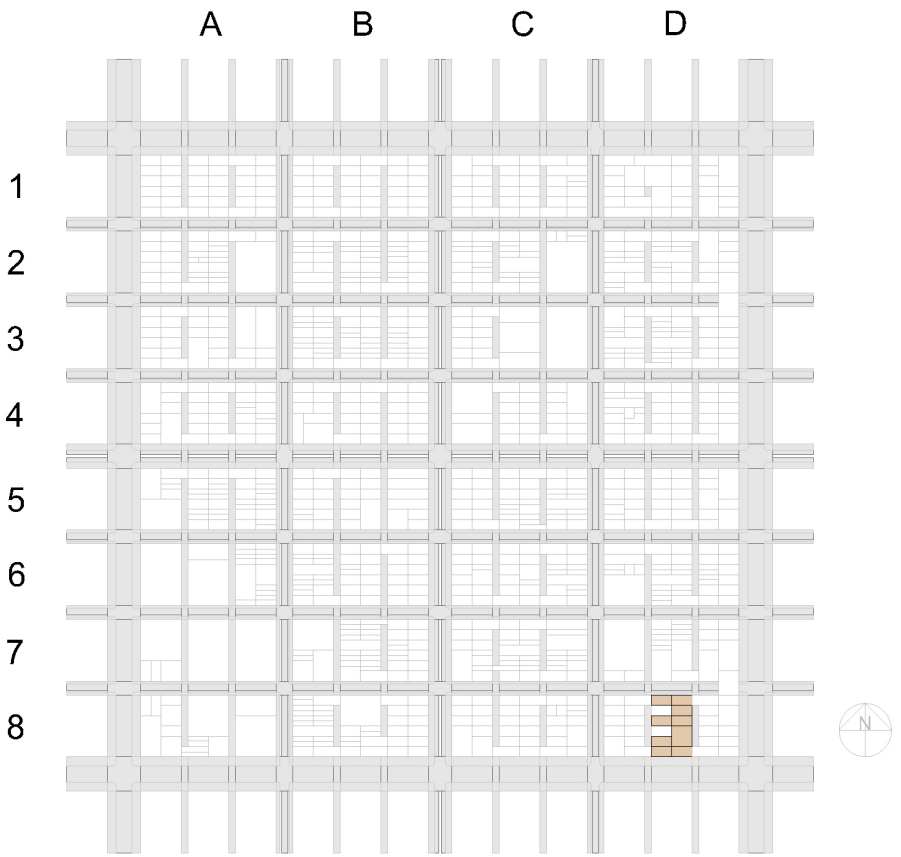
### LADYBUG + GALAPAGOS FOR SOLAR RADIATION ANALYSIS

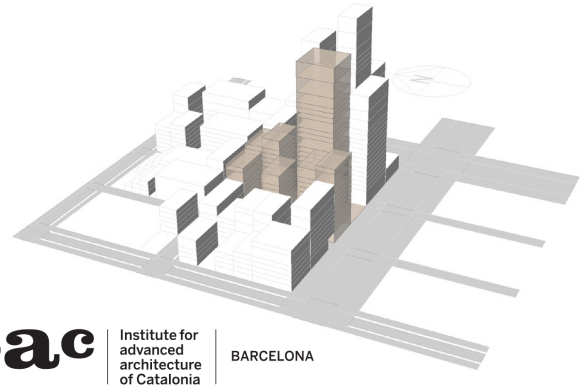
STUDENT: SAYALI AVHAD

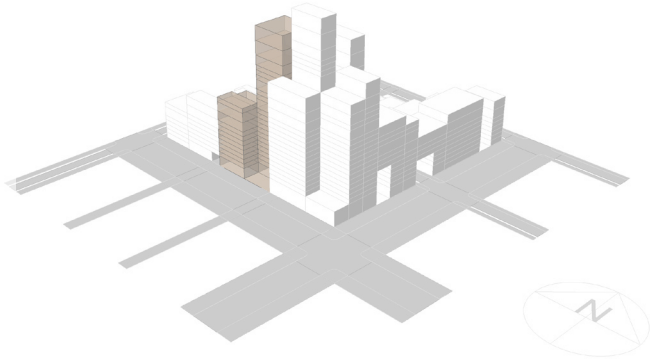
# 8 D 2
## Introduction

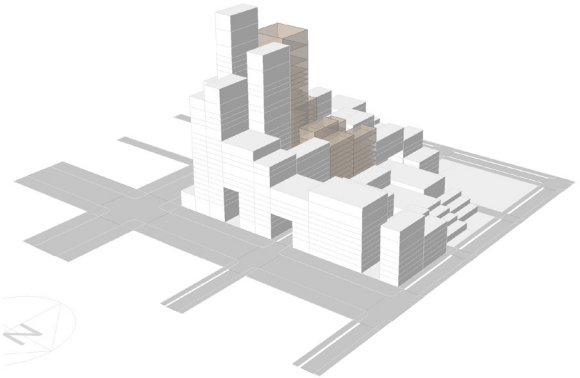
**Location:** Barcelona, Spain
**Maximum height of tower:** 125m
**Type of Usage:** Residential
**Task:** Genetic Optimization of Block positions
**Plugins:** Ladybug + Galapagos





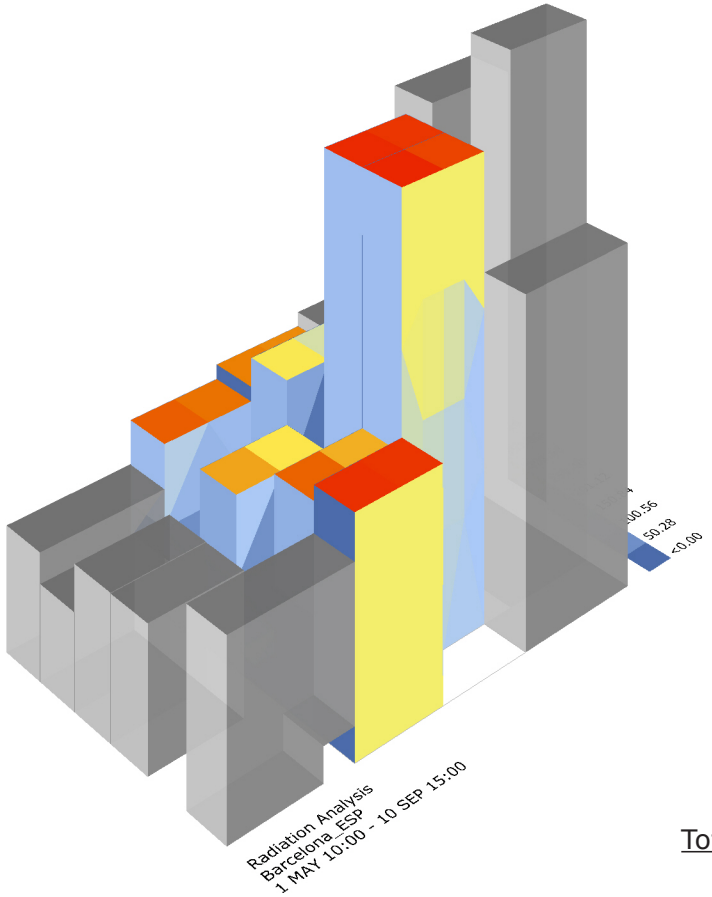







# 8 D 2

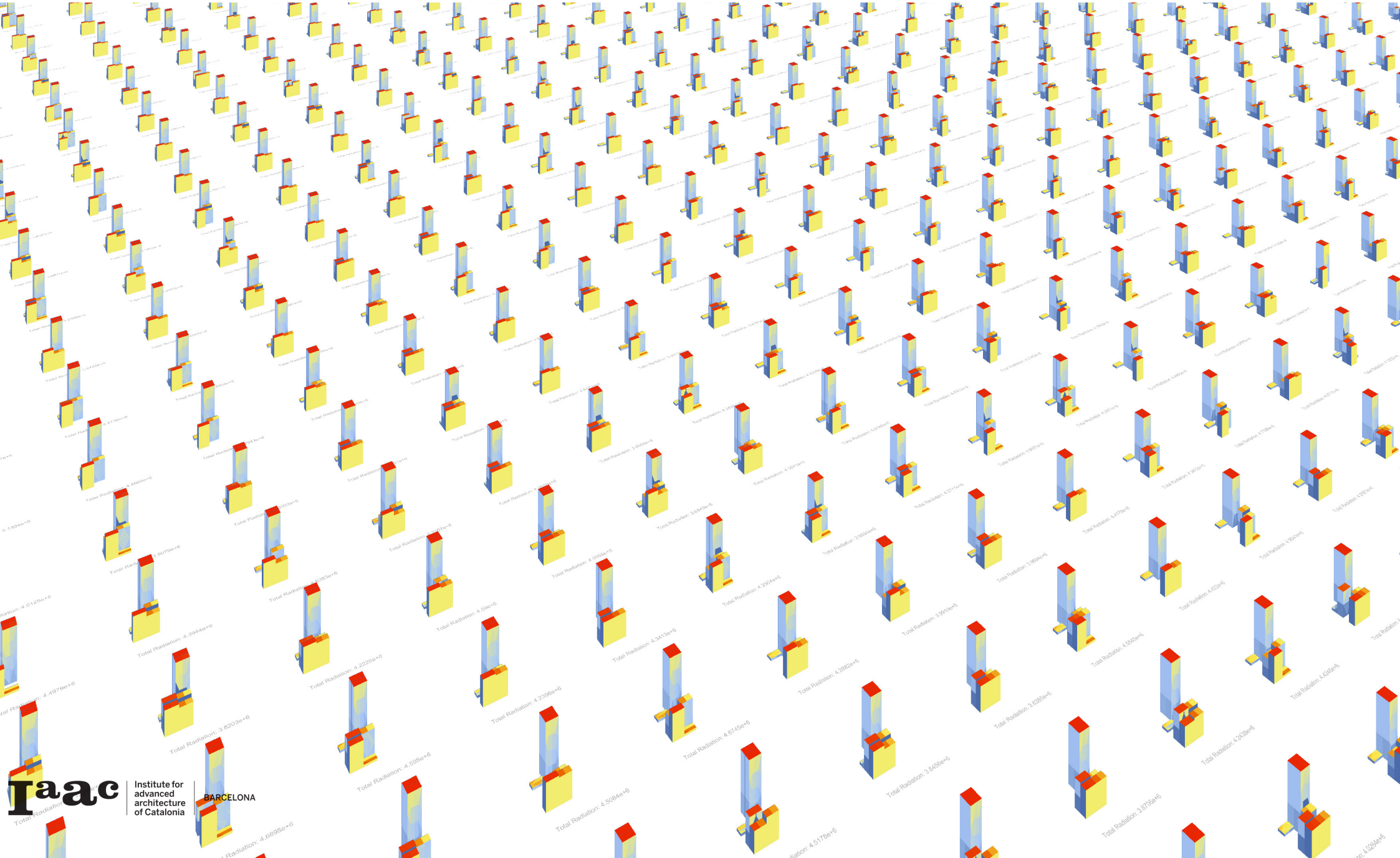
## Basic Block Analysis with original positions




Total Radiation: 3687900 kwh

# 8 D 2

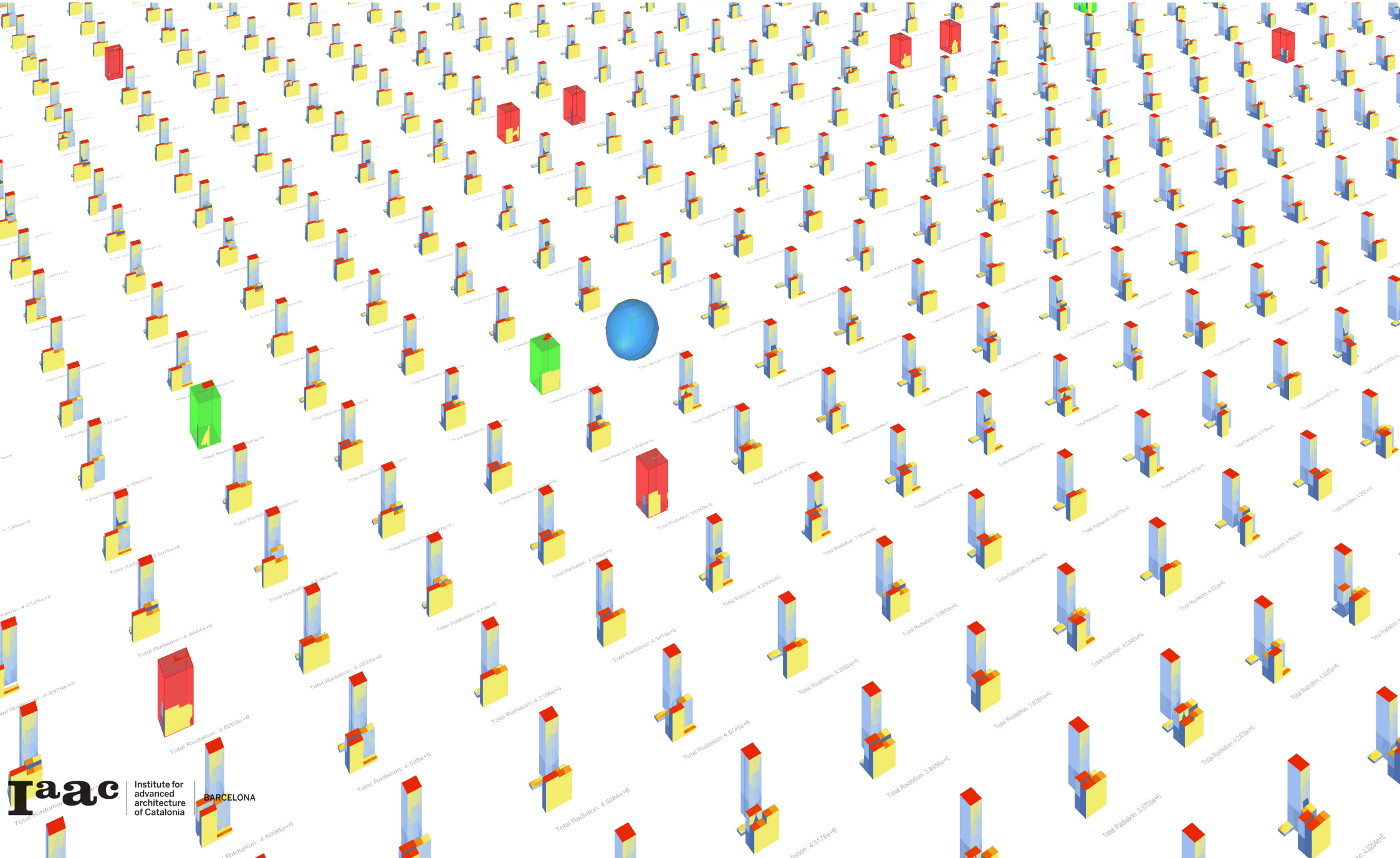
Galapagos Analysis for Optimizing the Max. Total Radiation



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# 8 D 2

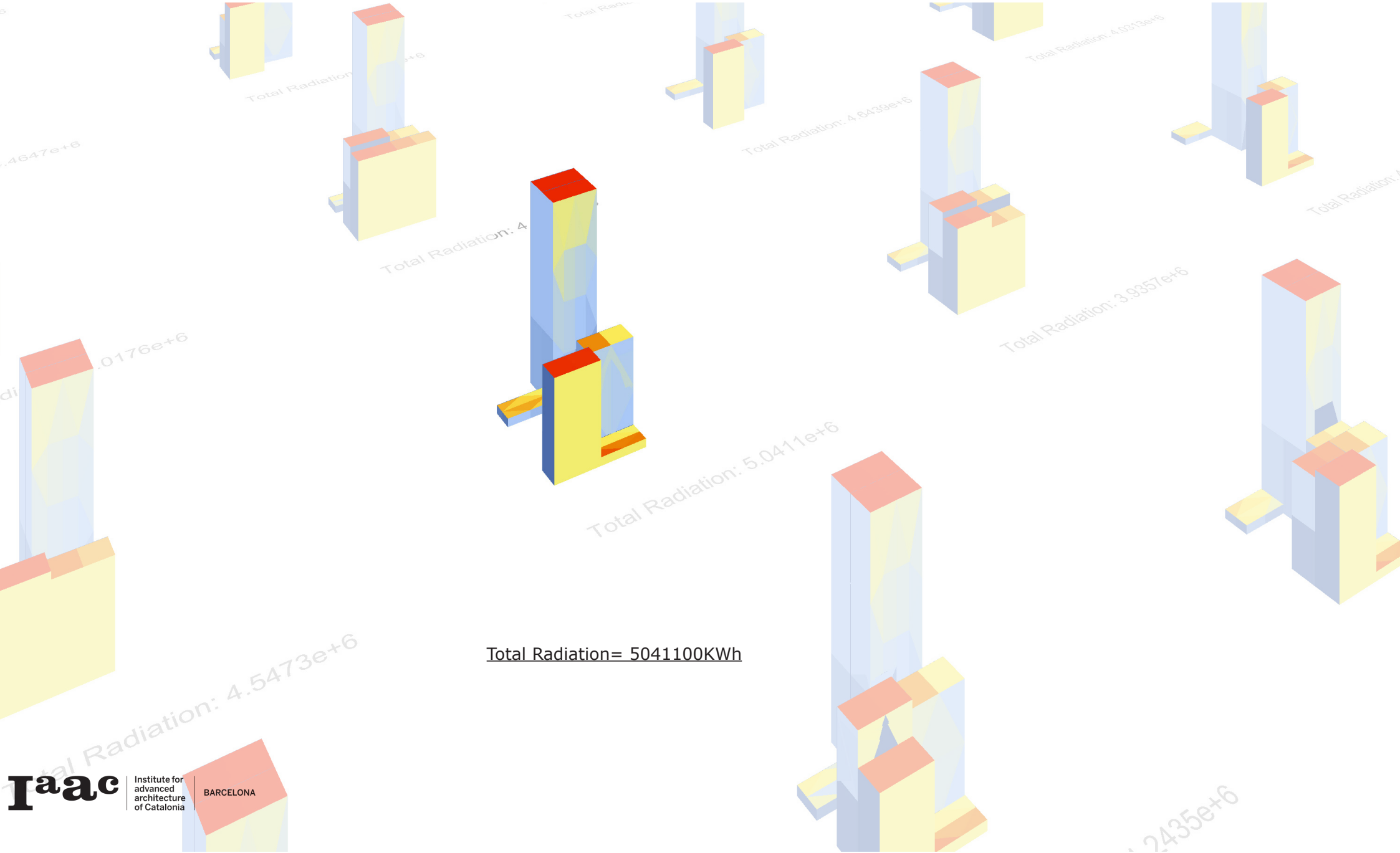
Galapagos Analysis for Optimizing the Max. Total Radiation



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# 8 D 2

The maximum total radiation block




Total Radiation= 5041100KWh