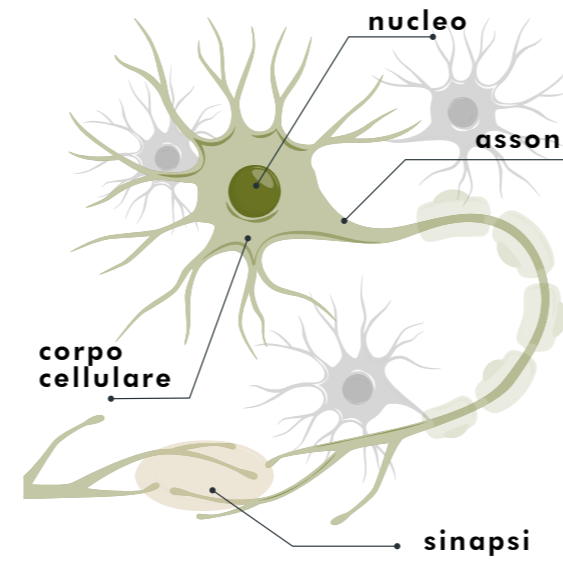
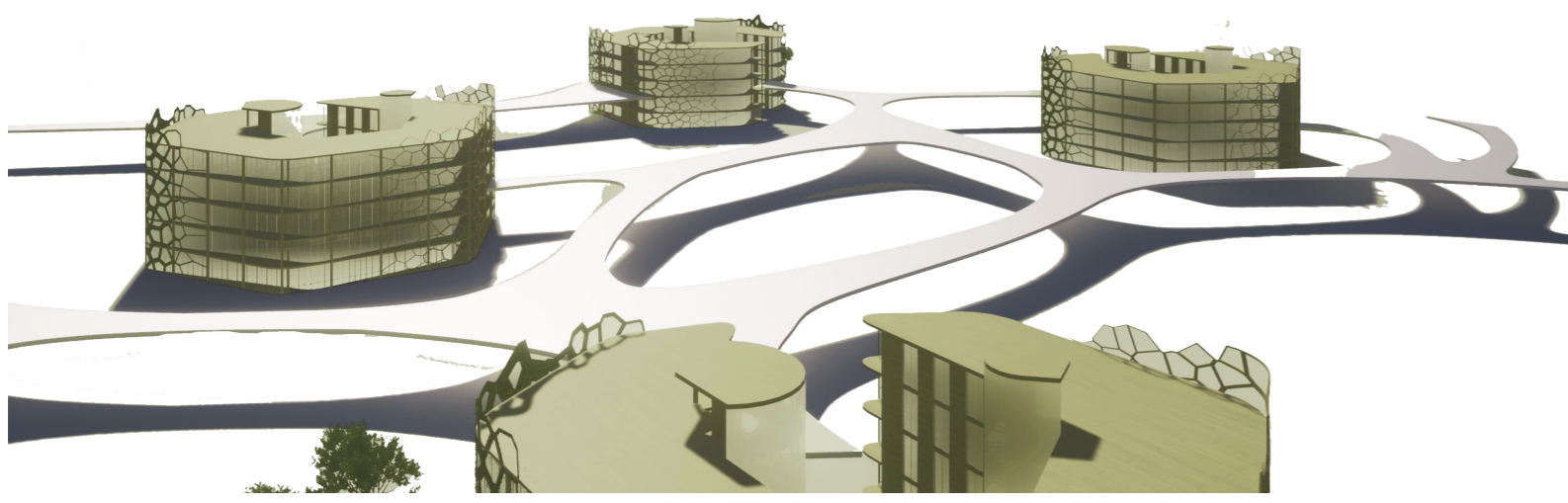
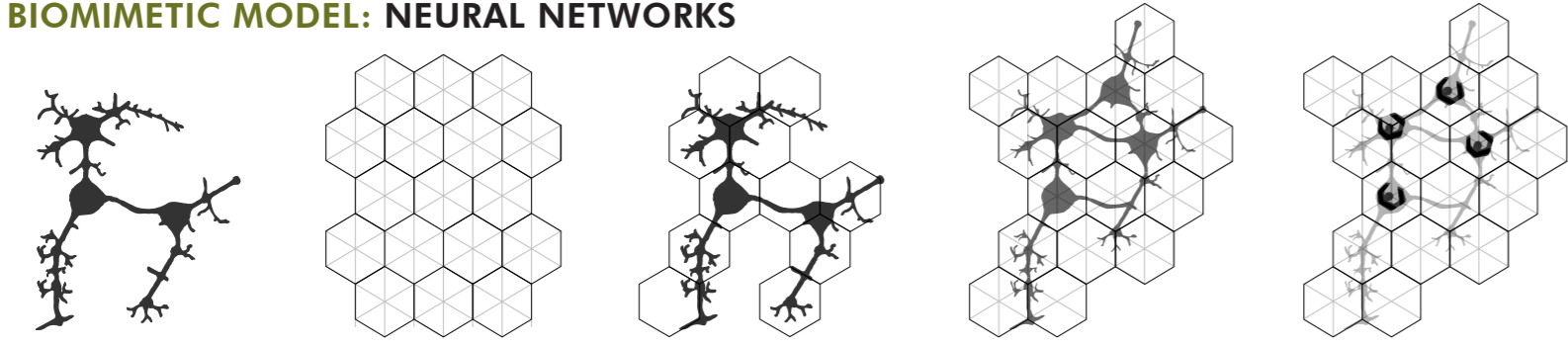




CONCEPT: SYNAPSE

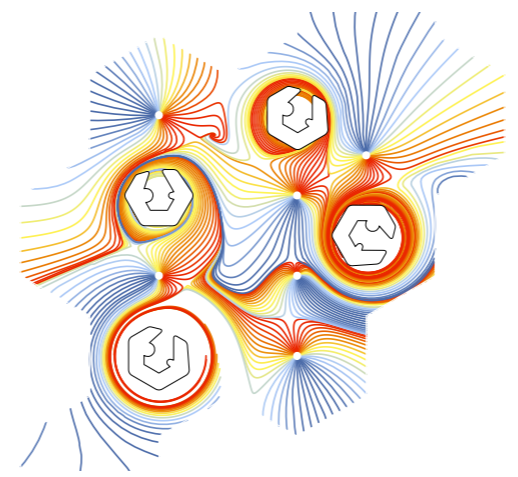
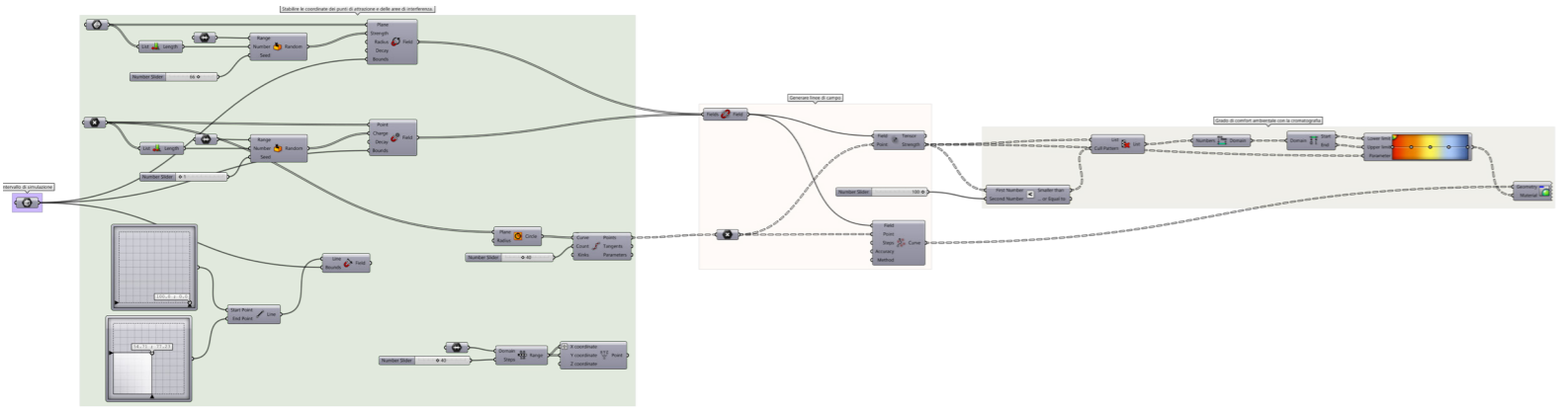


BIOMIMETIC MODEL: NEURAL NETWORKS

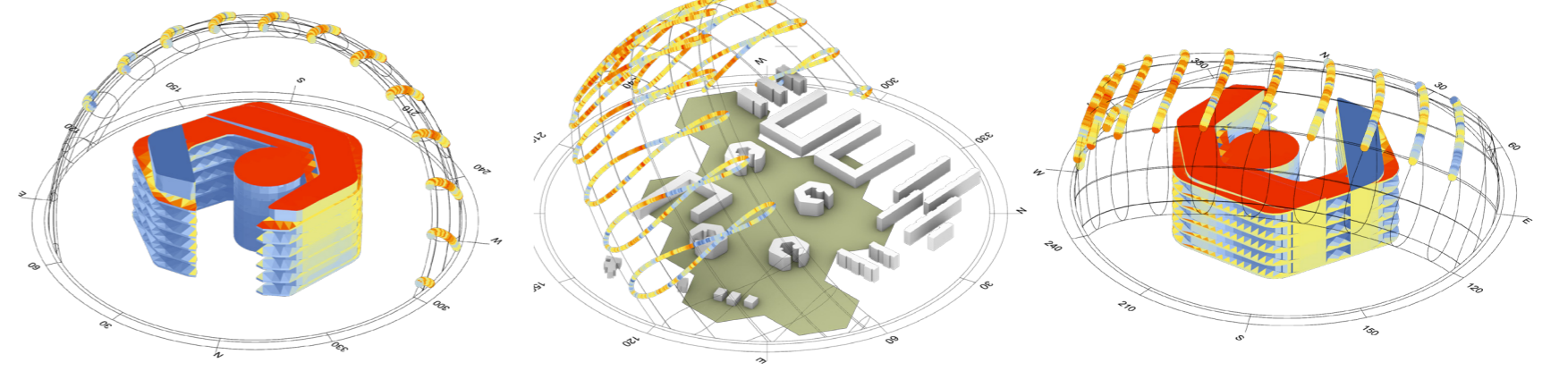


**NEURAL NETWORK
FRACTAL GRID**
DISTRIBUTION OF NEURONS AND SY-
NAPSES
DYNAMIC MULTIPLICATION ON VA-
RIABLE SCALES
THE BUILDINGS ARE LOCATED AT THE
NODES AND THE SYNAPSES MANAGE
PEDESTRIAN FLOWS

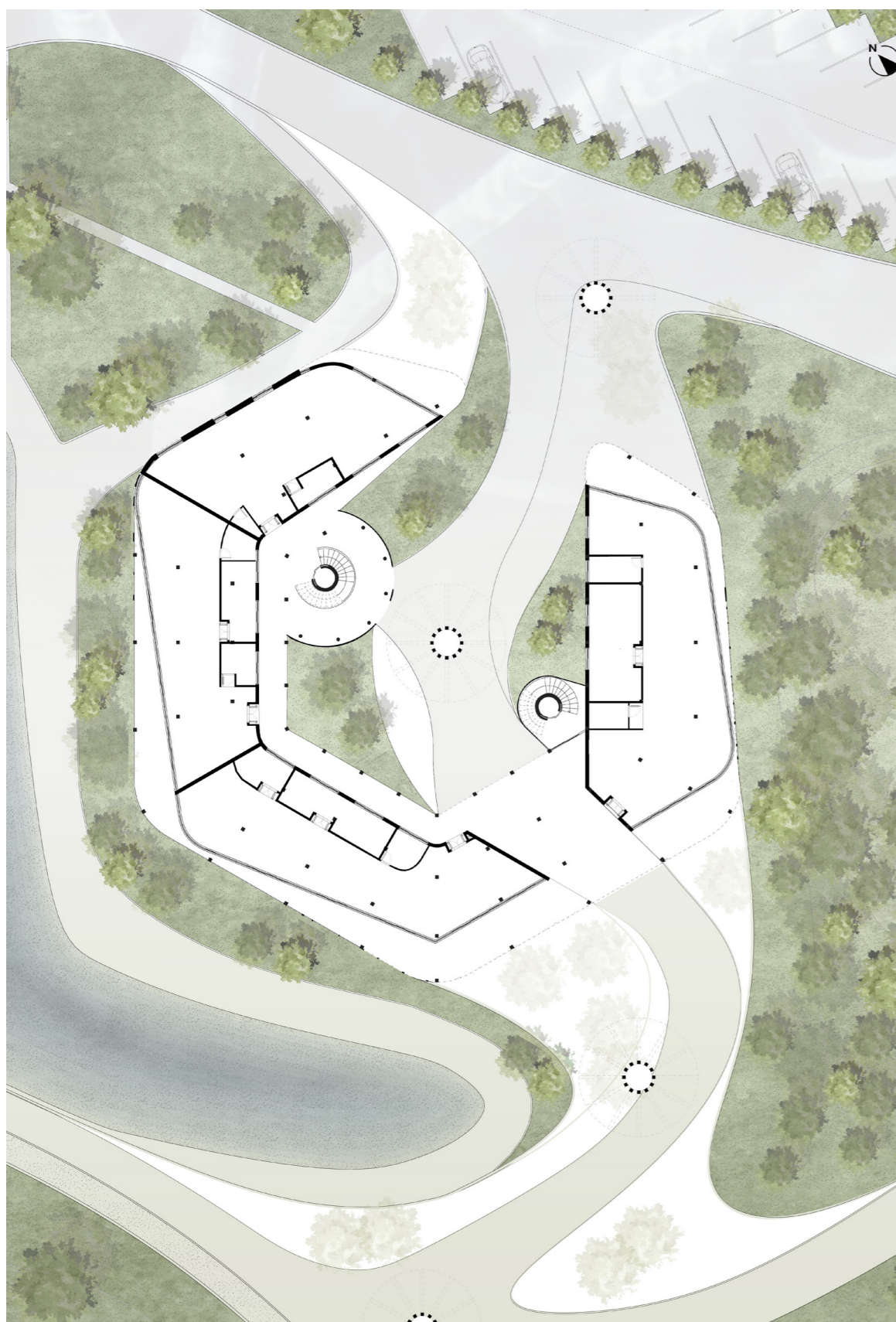
URBAN OPTIMIZATION: SIMULATION AND COMPUTATIONAL ADVANCED DESIGN



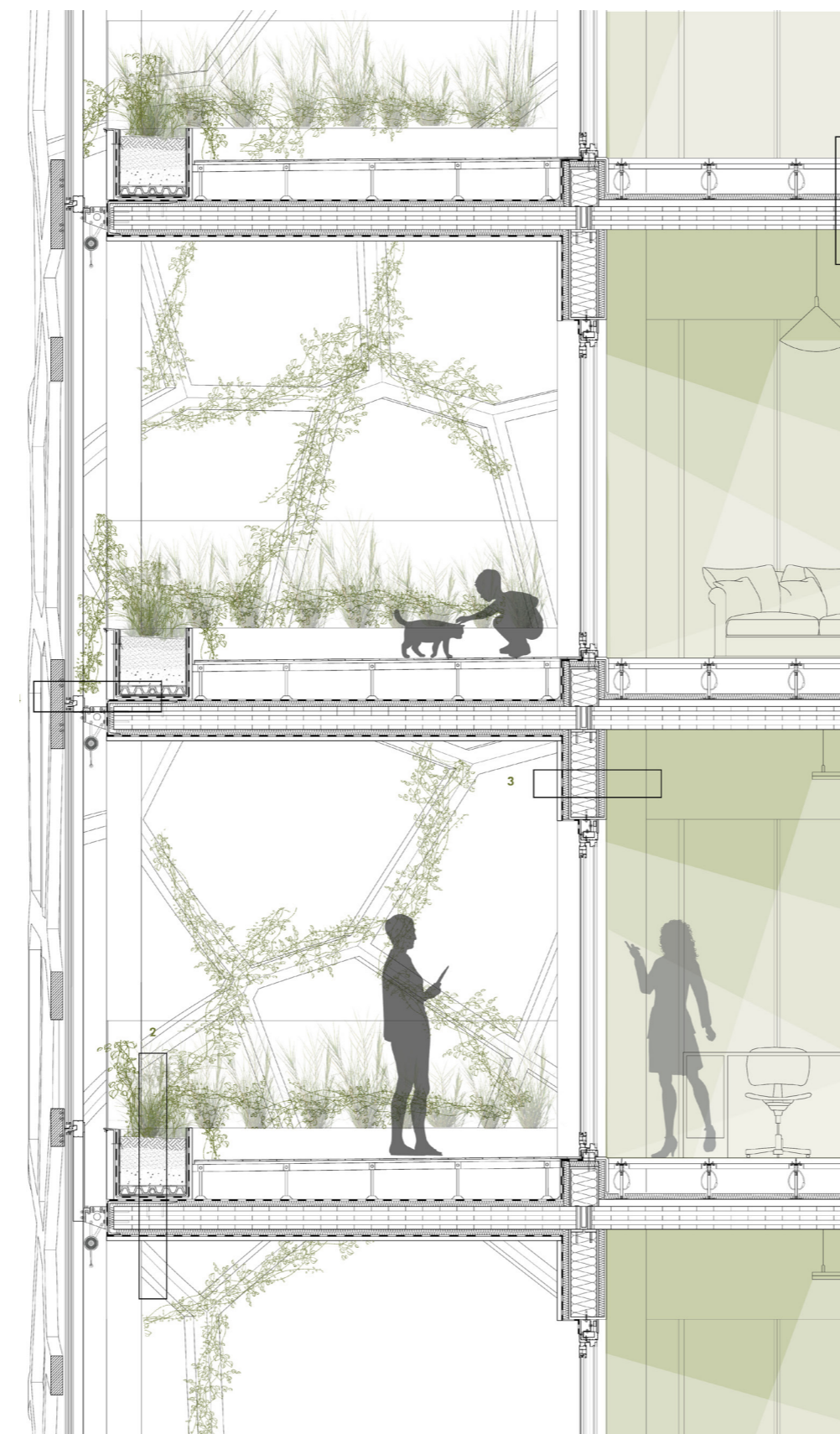
CLIMATE ANALYSIS ON BUILDINGS: RADIATION ANALYSIS AND SOLAR PATH



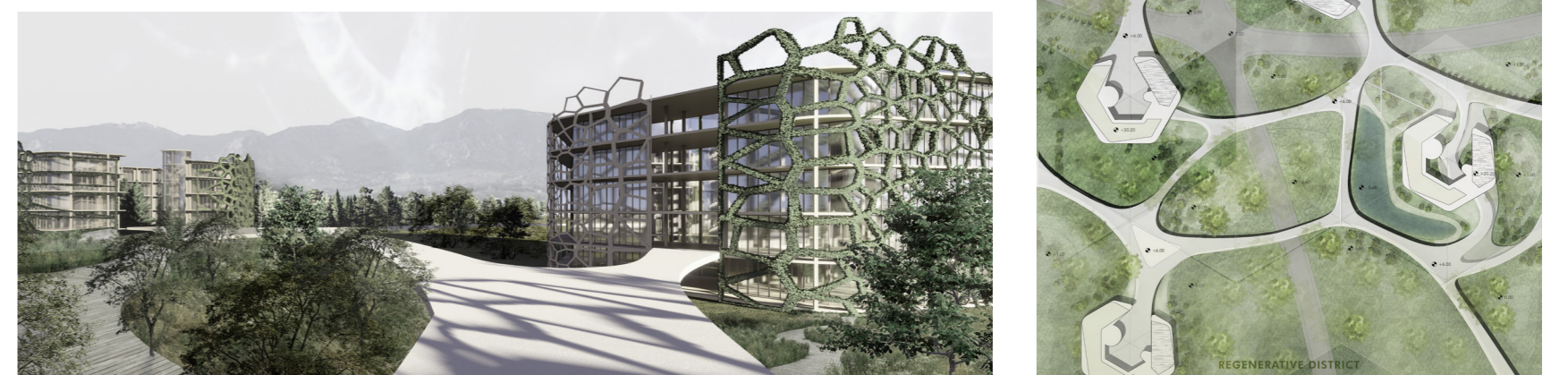
MULTIFUNCTIONAL BUILDING: PLAN 1:200



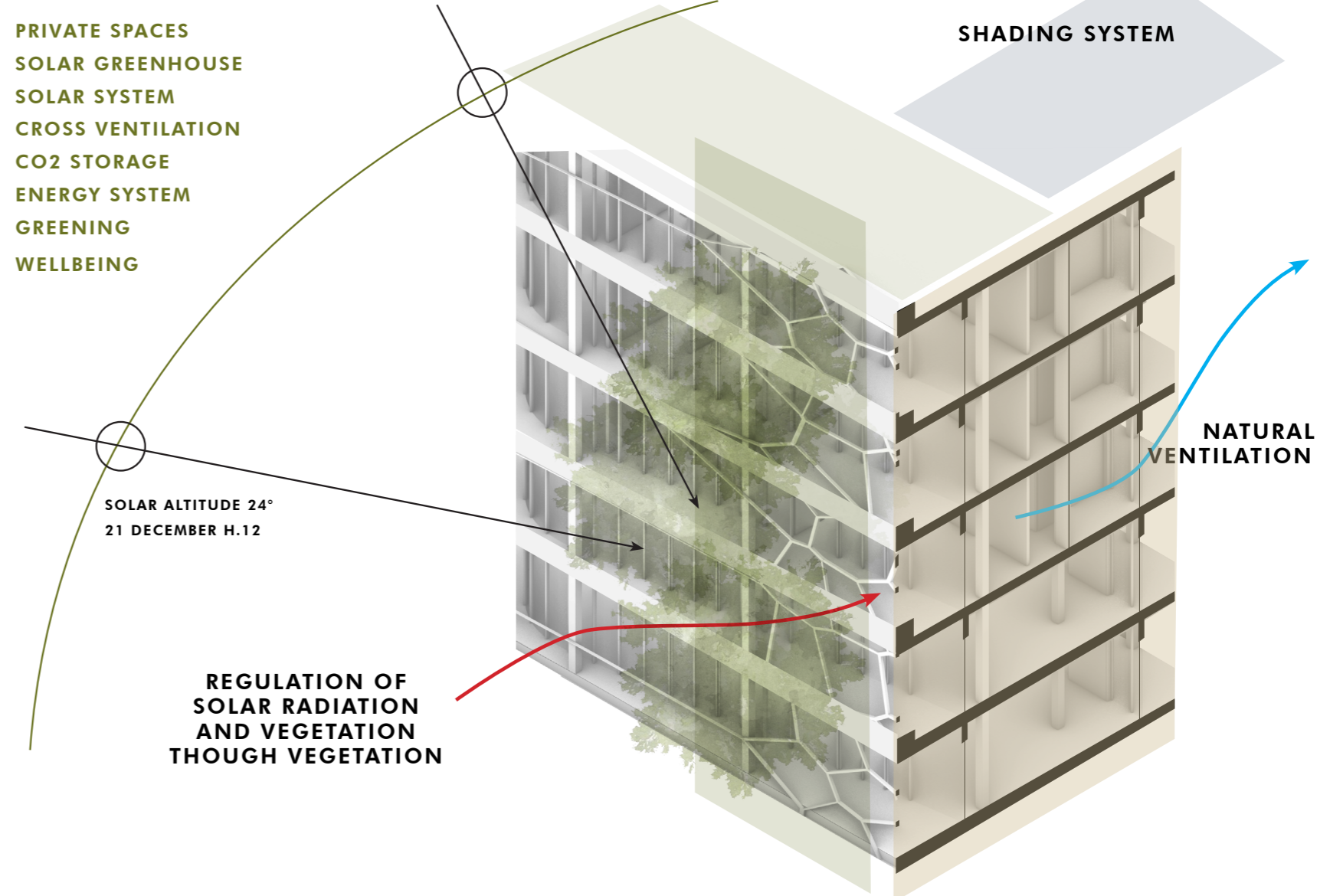
CONSTRUCTION DETAIL SOUTH FACADE SECTION 1:200



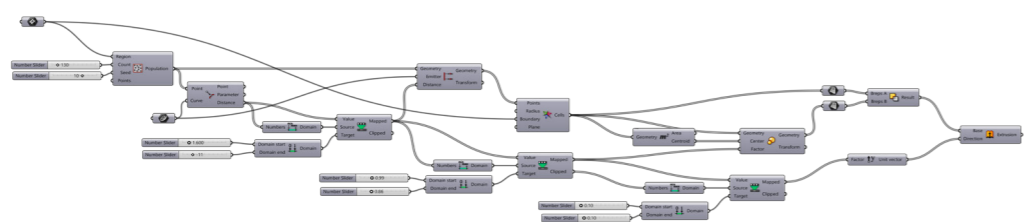
VISION & MASTERPLAN OF REGENERATIVE DISTRICT



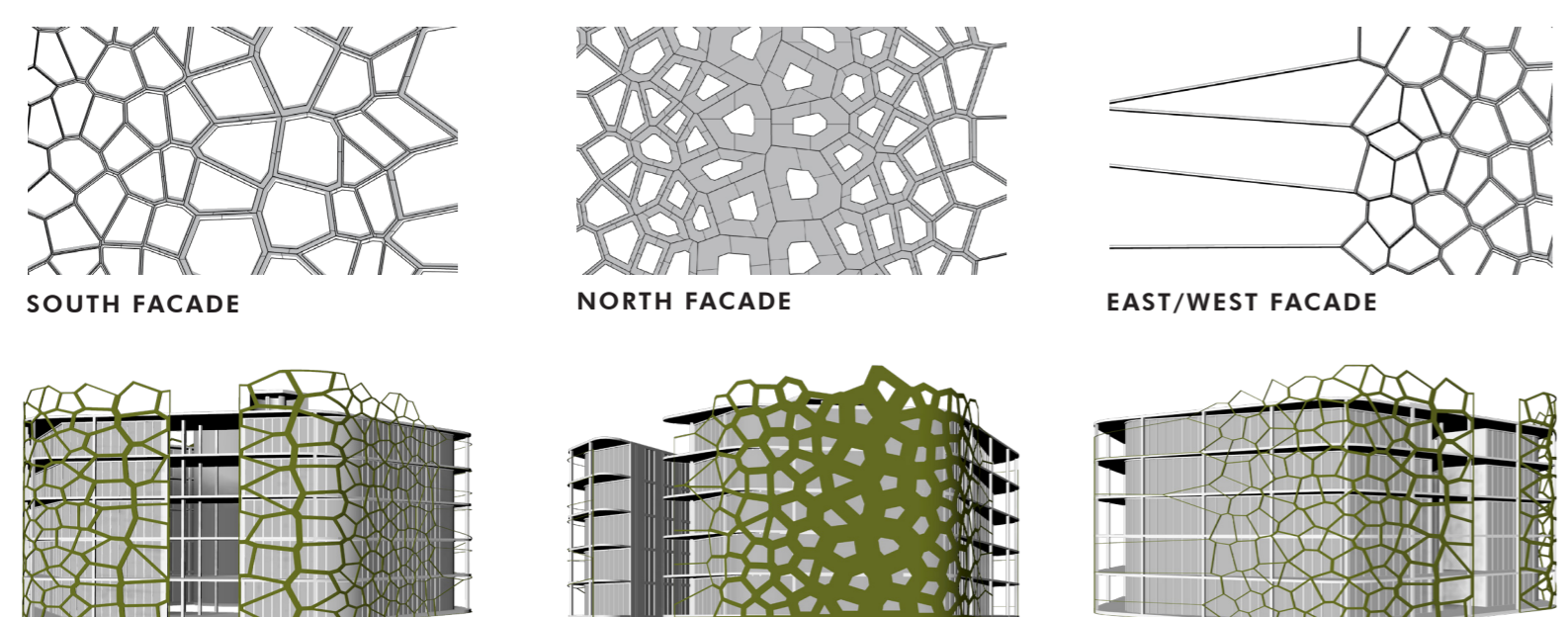
REGENERATIVE DESIGN



PARAMETRIC SIMULATION AND WITH DYNAMIC CONTROL OF THE DOUBLE SKIN FAÇADE



BIOMIMETIC PATTERN: VORONOI DIAGRAM



DOUBLE SKIN
greenhouse with natural
ventilation

SOUTH: INDIRECT
EXPERIENCE OF NATURE

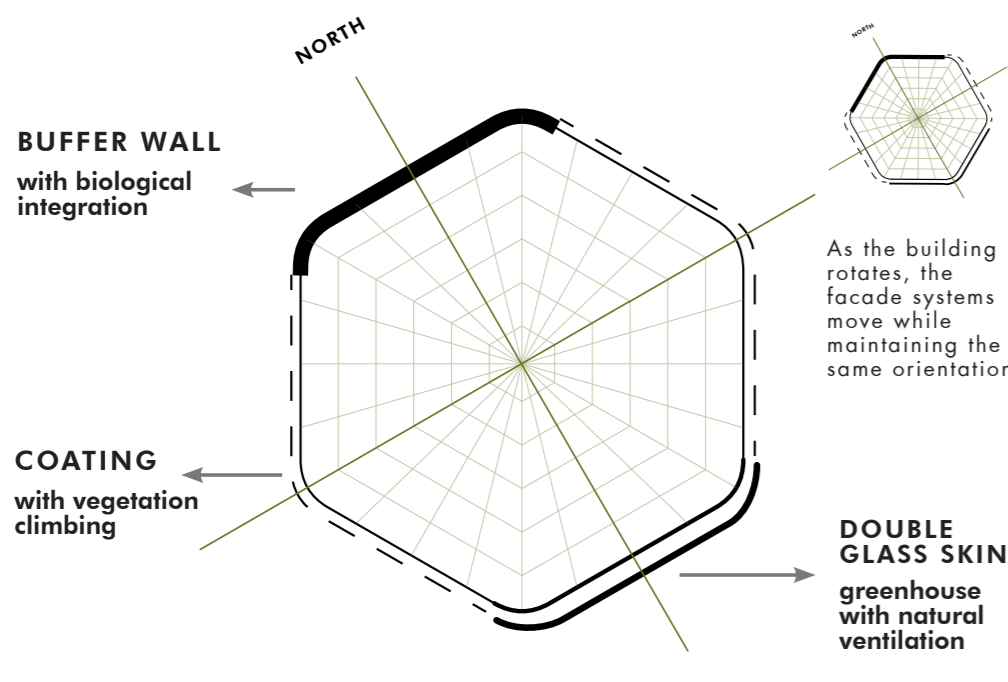
BUFFER WALL
with biological integration

NORTH: EXPERIENCE
OF SPACE AND PLACE

COATING
with vegetation climbing
EAST WEST: DIRECT
EXPERIENCE OF NATURE



REGENERATIVE COMPUTATIONAL DESIGN: DOUBLE SKIN



BIOPHILIC DESIGN: FUTURE SCENARIO CONFIGURATION

