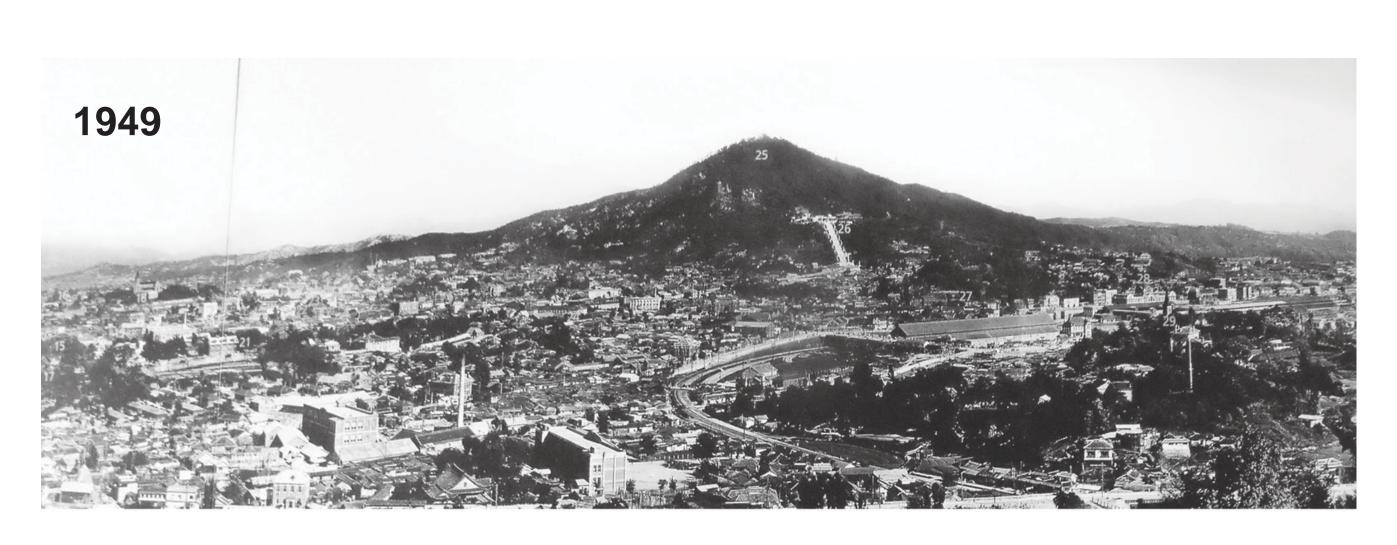
In 2009 South Korea was ranked #1 for mental health issues

By 2040 there will be less than 1% arable farmland in South Korea





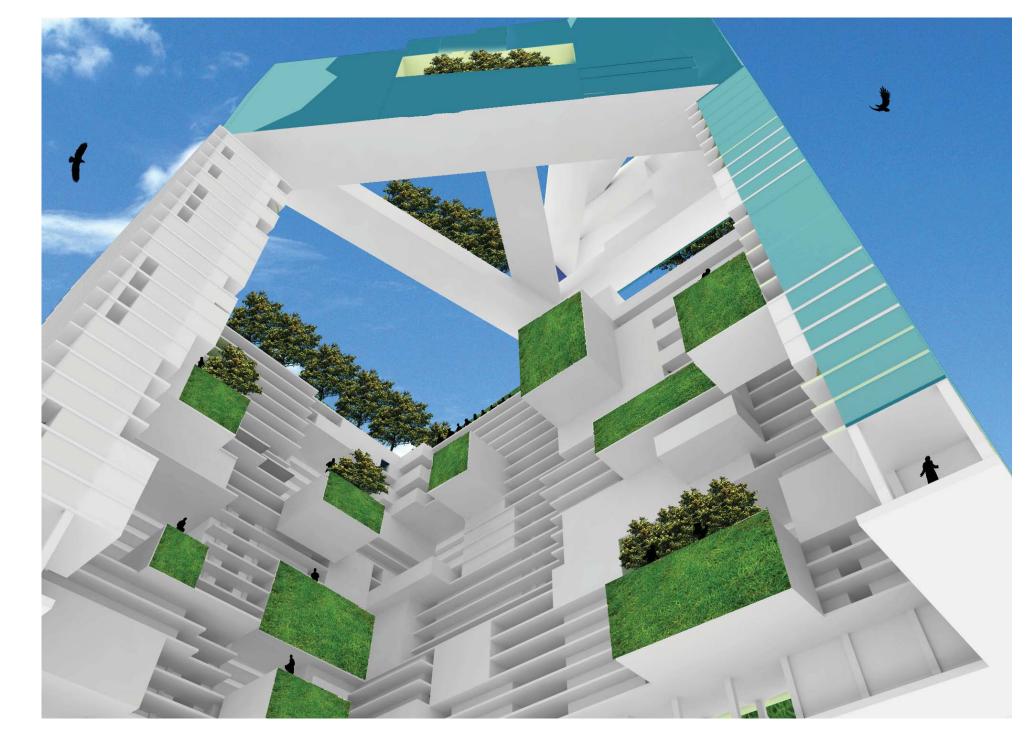


Agenda

- to create a vertical community bound together by two key issues/requirements in Korean society: urban agriculture and mental health care
- to create a 'vertical façade farm' capable of producing 3,909 tons of vegetables (predominantly lettuce, tomatoes, peppers, and strawberries) and 200 tons of fish per year
- to create a mental health sanctuary (or sanatorium) that provides short term (days), midterm (months) and long term (years) residence and care for people with mental health issues that may require physical operations and/or psychological care
- to actively engage the mental health residents in aspects of the agricultural production to draw on research showing that engagement with plants/nature assists in mental healing
- to create a large multi-purpose space at the ground floor of the building which will largely serve as a farmer's market for sale of the agricultural produce and engagement between the community residents and the public
- to create a series of gardens/green spaces at height within the complex, as well as vertical green walls, for healing (residents and urban issues)
- to use the double-skin 'façade farm' for assisting in passive natural ventilation of internal spaces

View From Farmer's Market

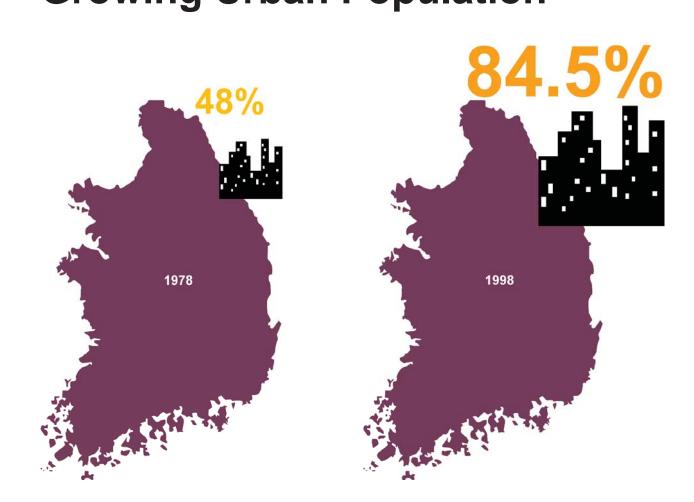
Level of Stress



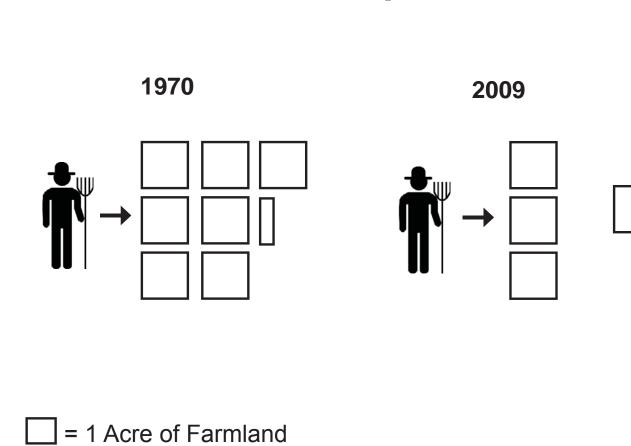
View From Long Term Stay Roof Garden

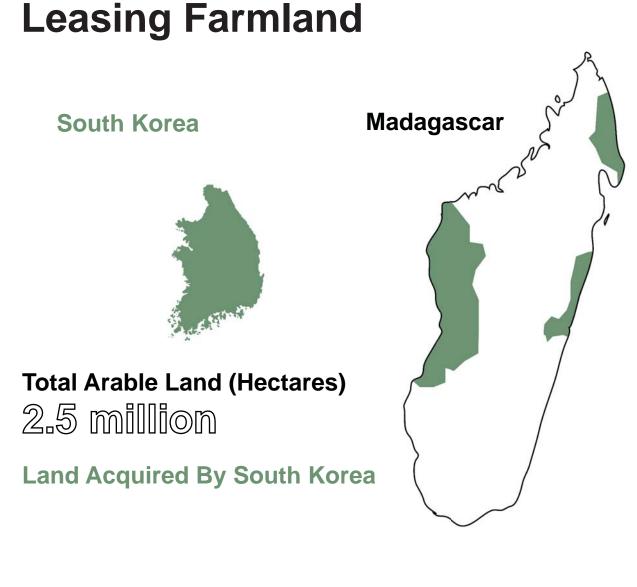


Growing Urban Population

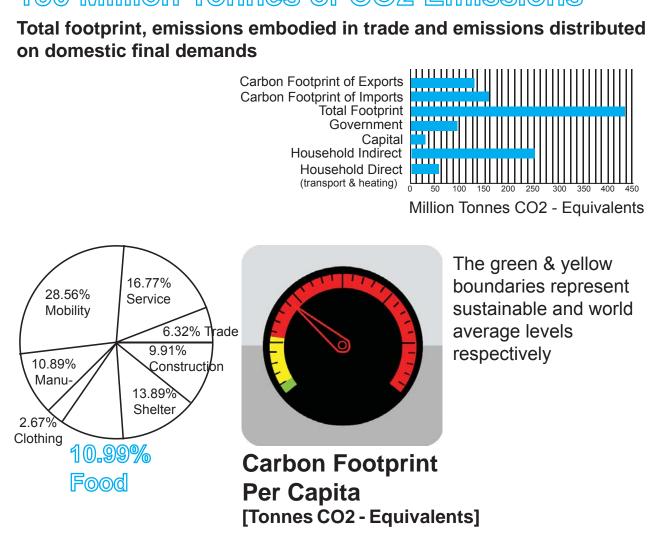


Results of Urban Sprawl

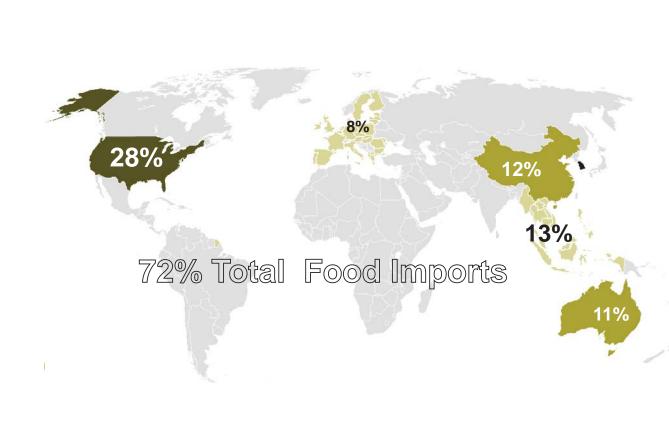




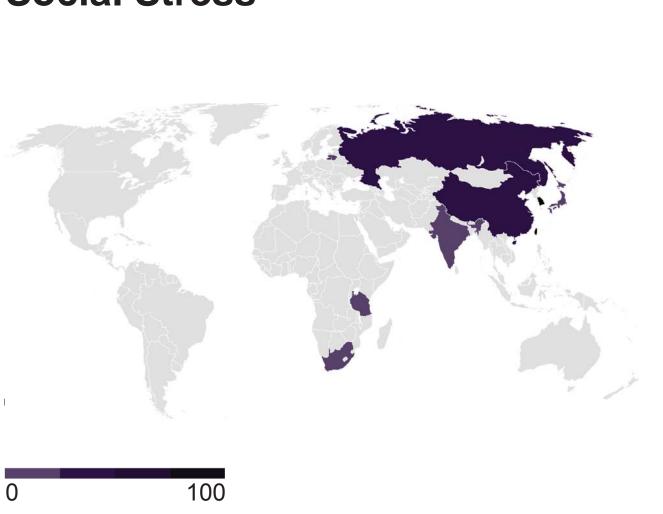
National Carbon Footprint



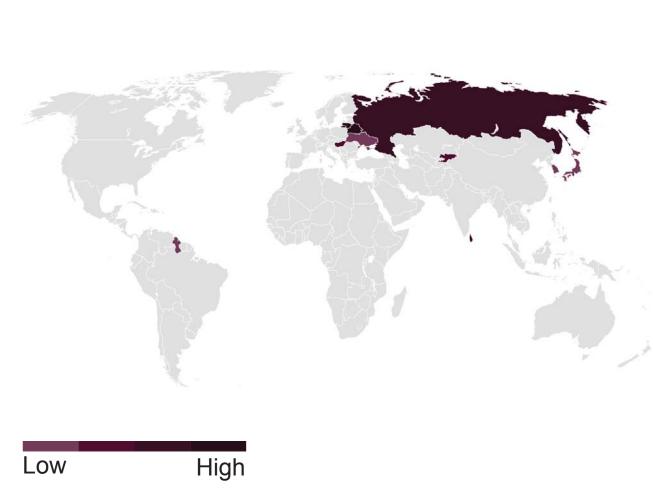
Foreign Food Imports



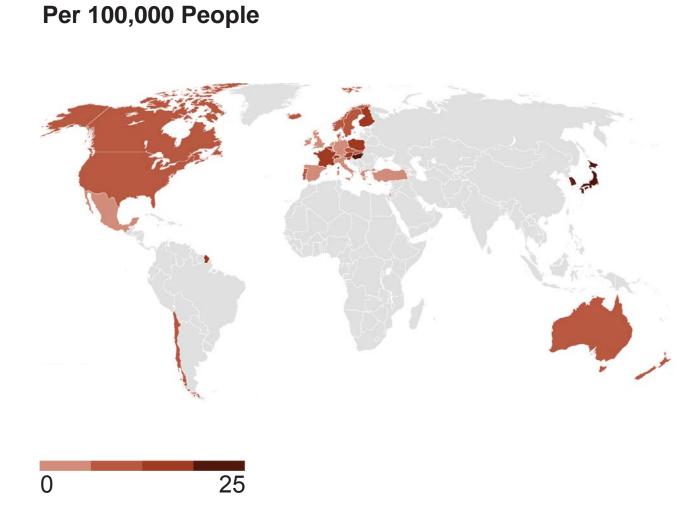
Social Stress



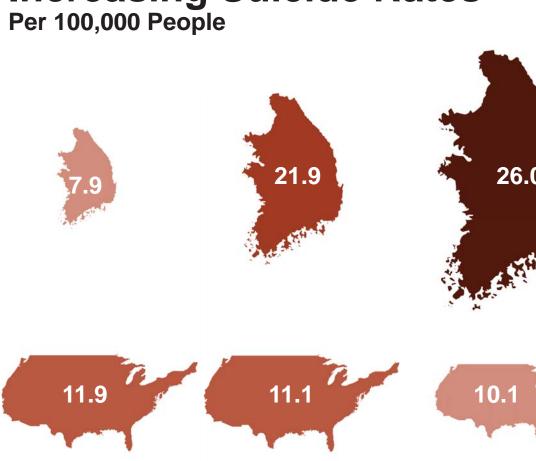
Depression



Suicides

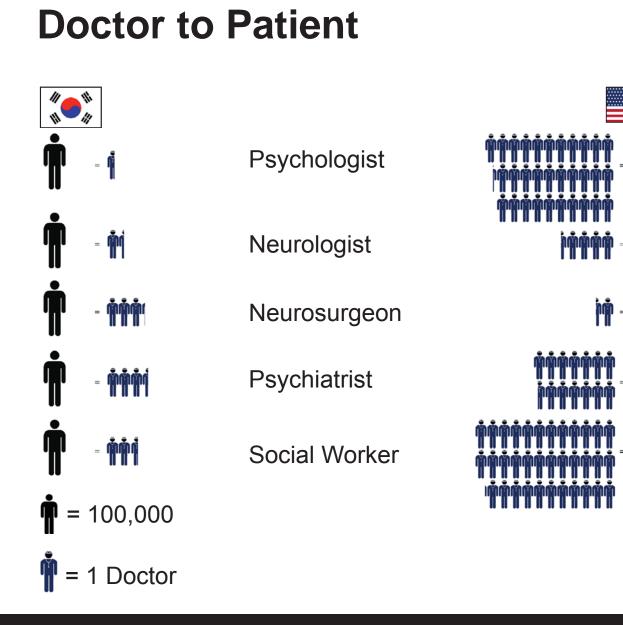


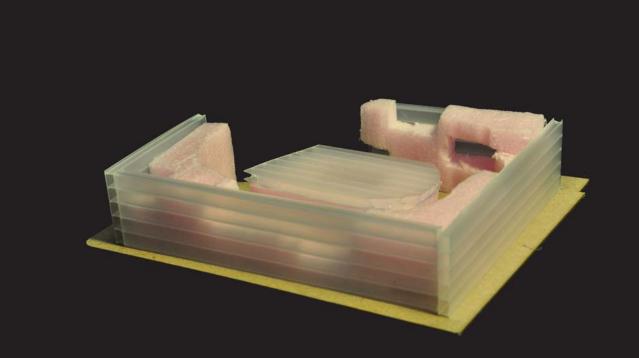
Increasing Suicide Rates

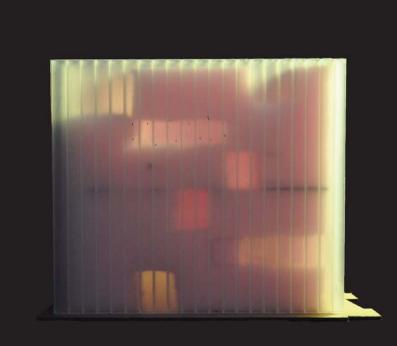


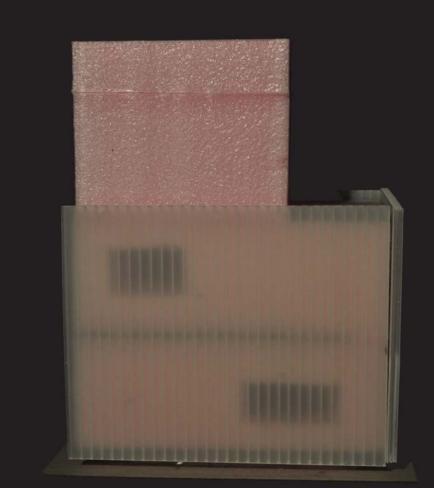
2006

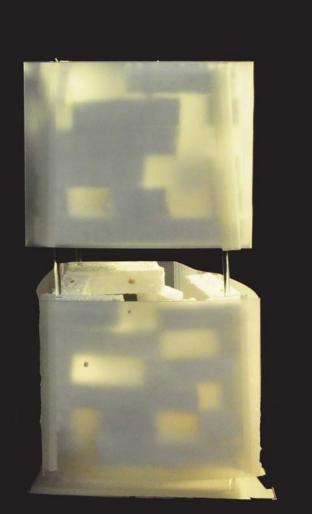
1990



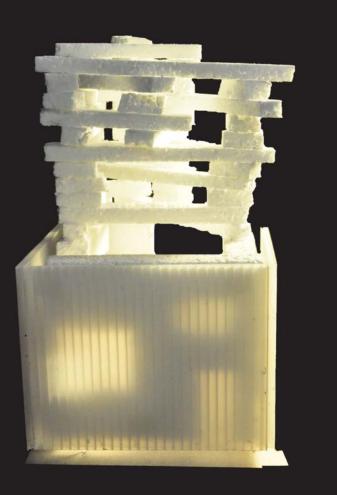


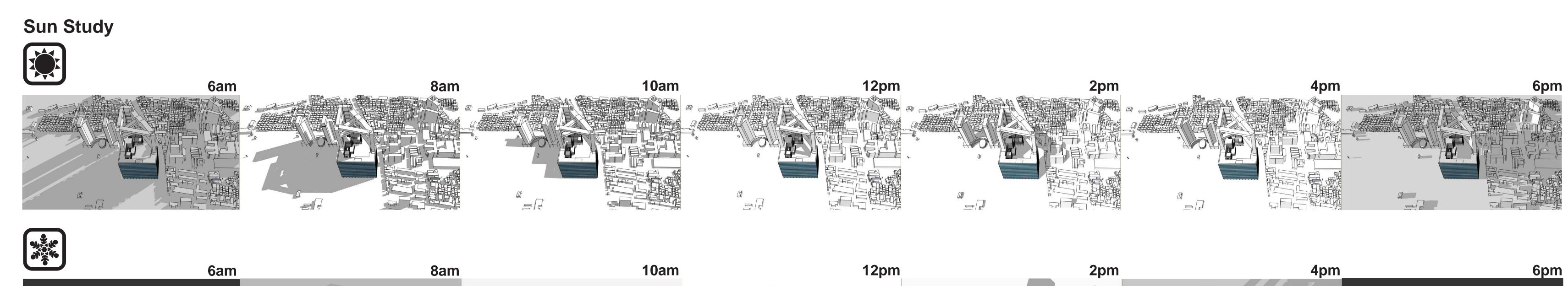


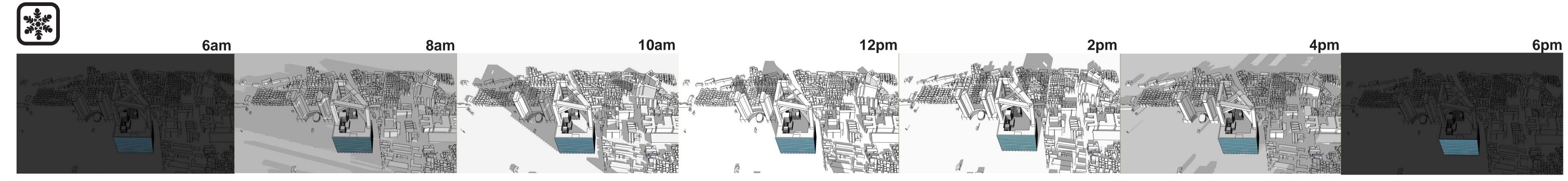




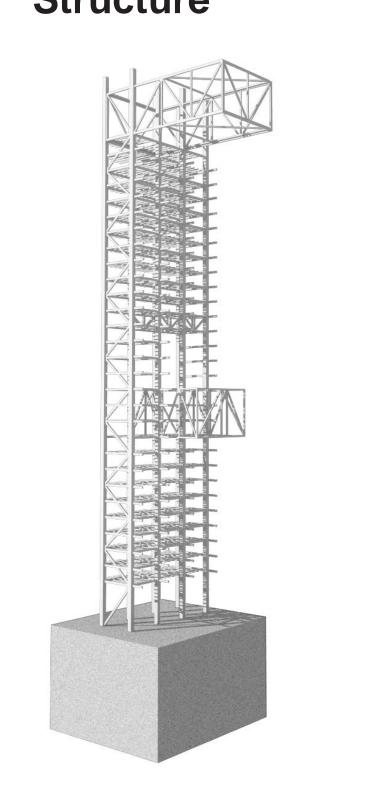
2010

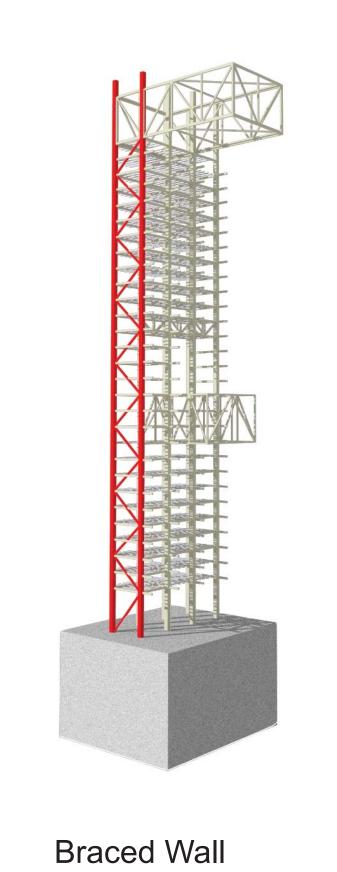


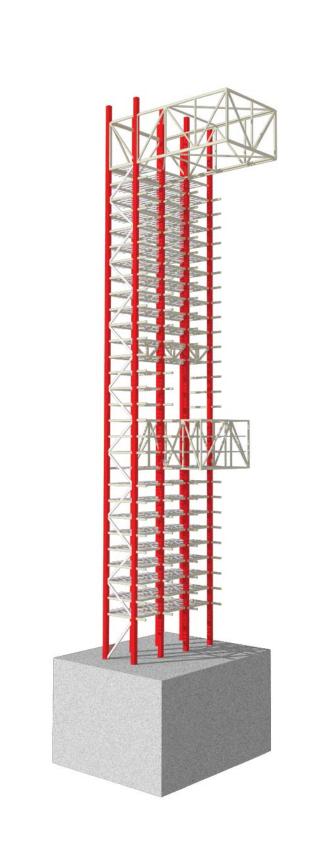








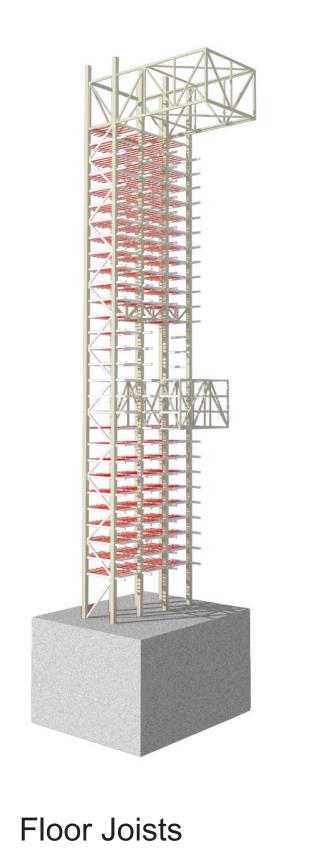


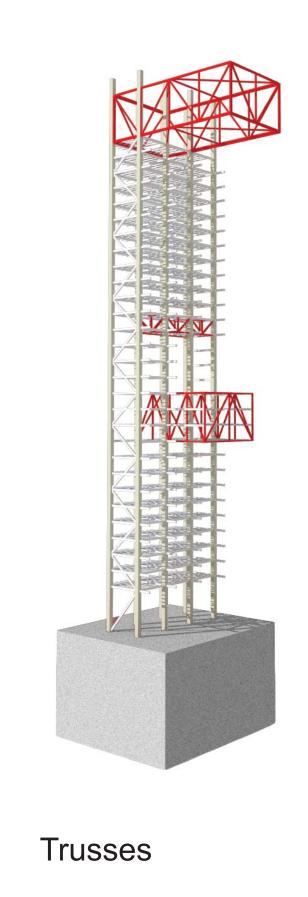


Columns

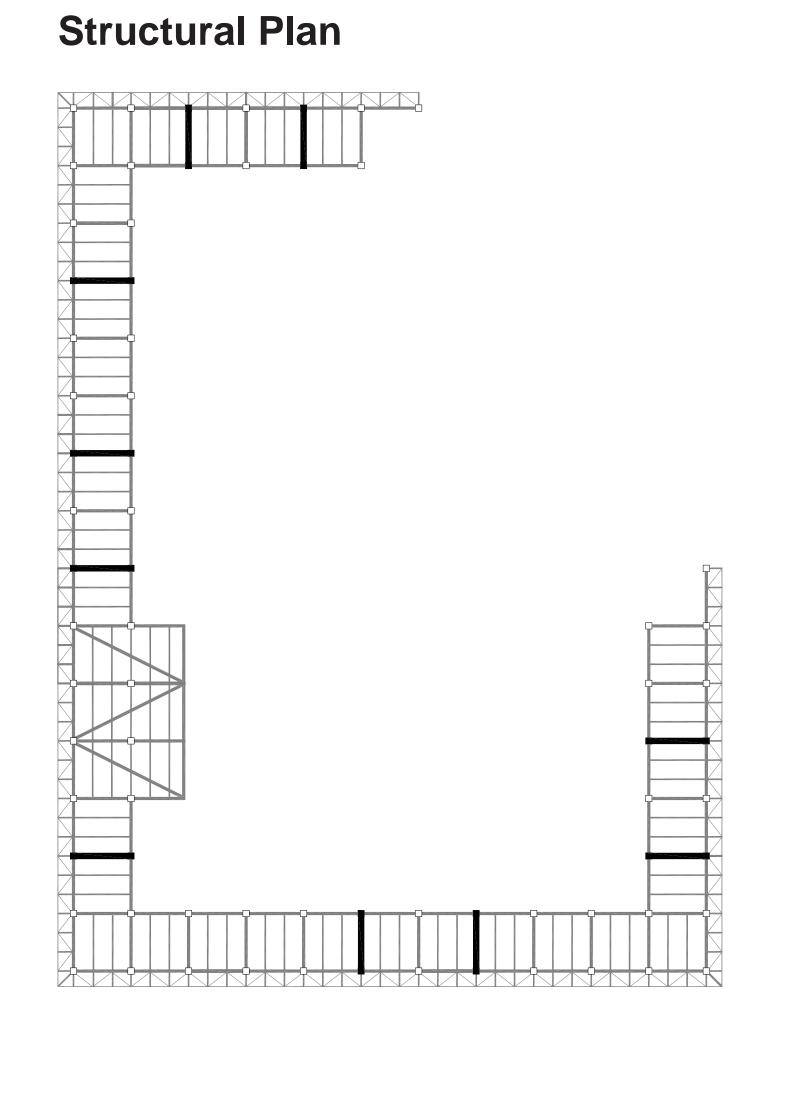


Beams

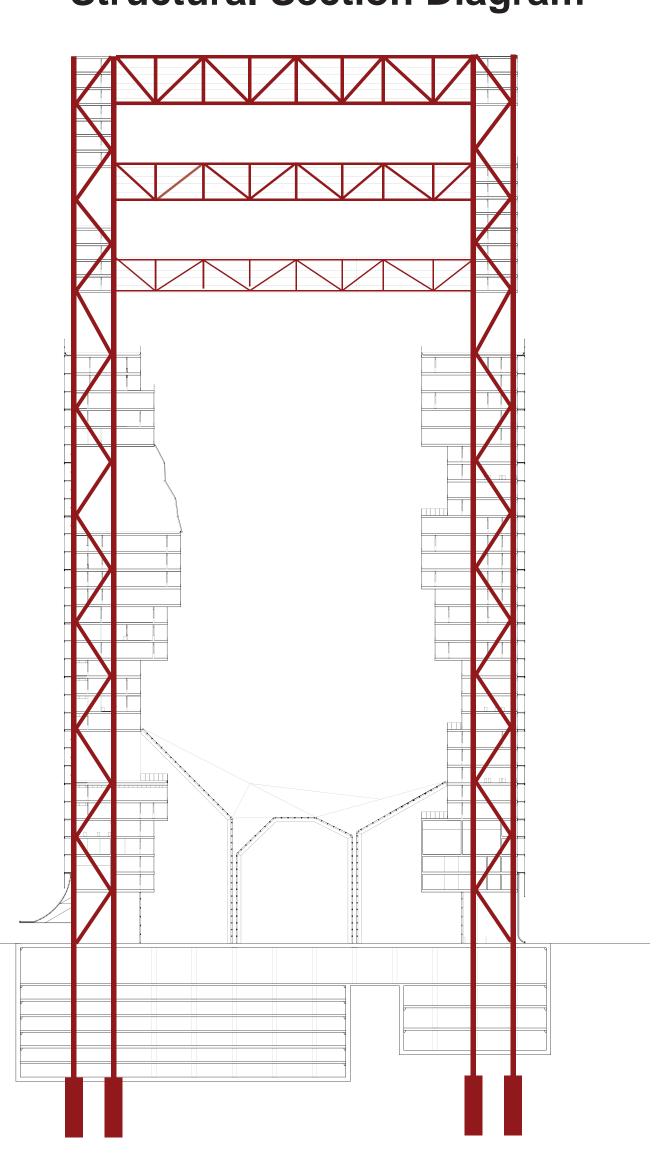




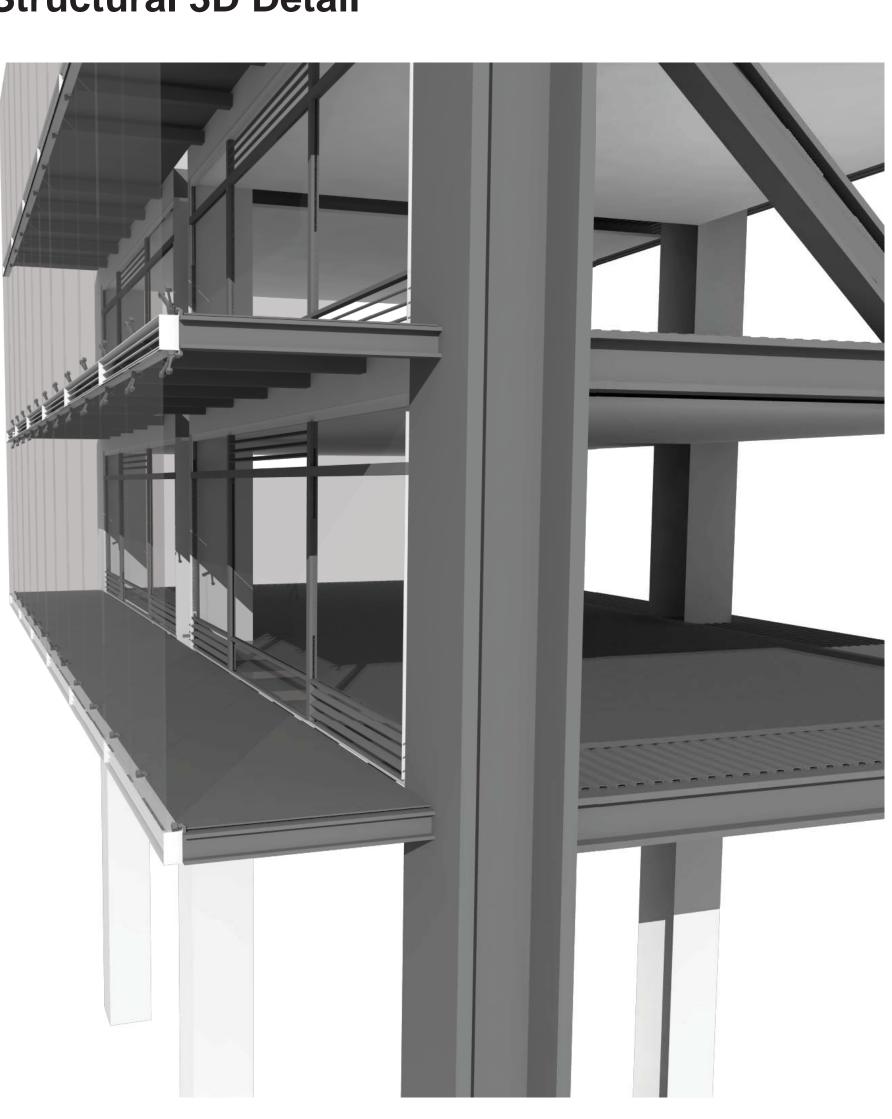
Structural System





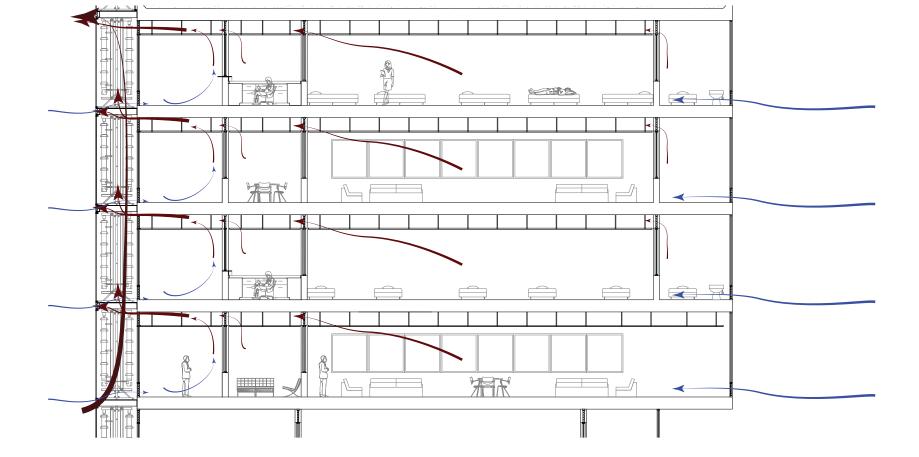


Structural 3D Detail



Detailed Ventilation Diagram

Natural Ventilation



Water Catchment & Circulation System

