



城市天空农场

Urban Skyfarm

设计公司：Aprilli Design Studio

设计师：Steve Lee

地点：South Korea (韩国)

面积：157 800 m²

(Sky farm 144 450 m², Hydroponic Farm 13 350 m²)

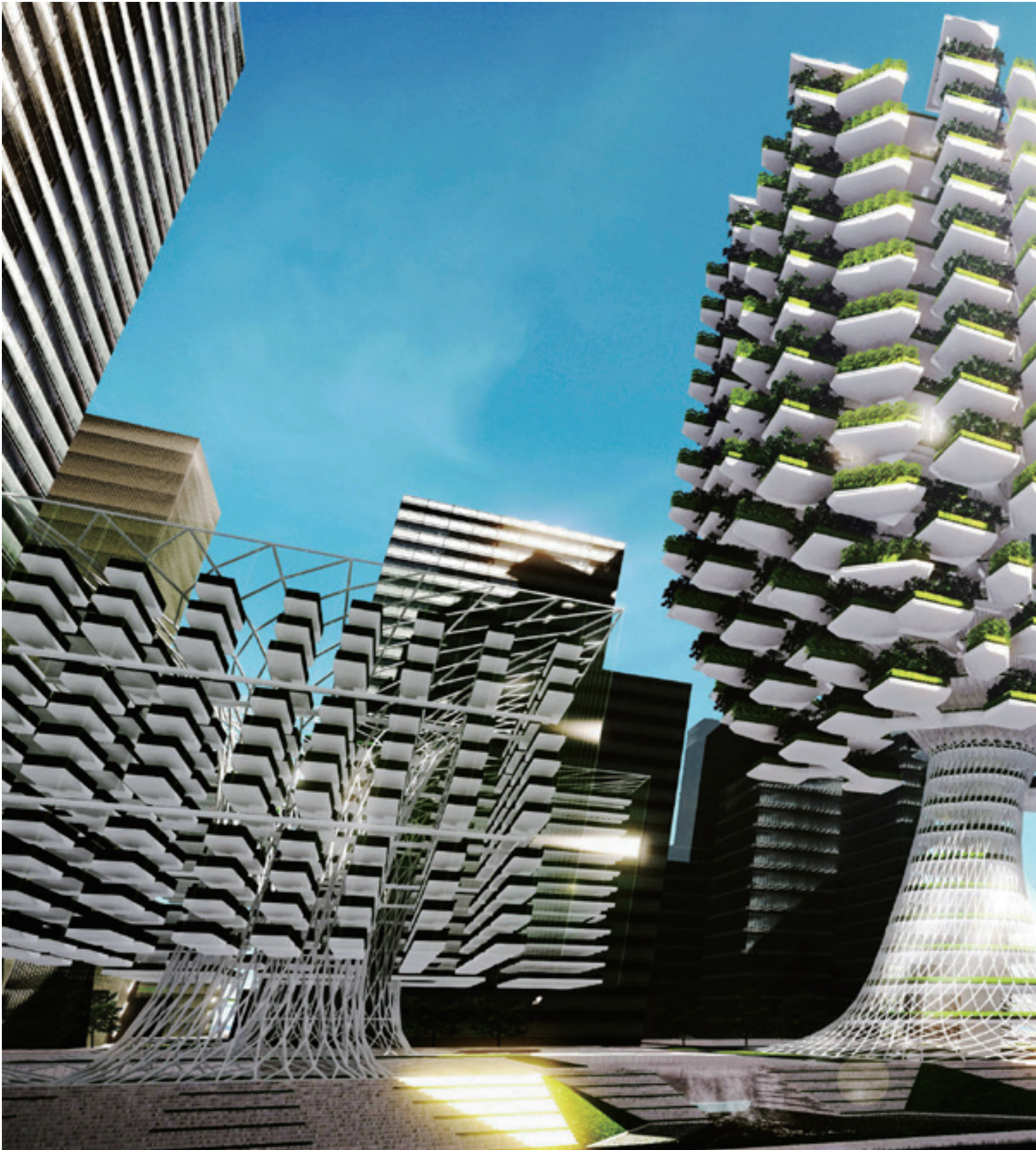
The Urban Skyfarm is a vertical farm design proposal for a site located in downtown Seoul, right adjacent to the Cheonggyecheon stream which is a heavily populated dense urban area within the central business district. Inspired by the ecological system of giant trees.

Through lifting the main food production field high up in the air, the vegetations gain more exposure toward the natural sunlight and fresh air while the ground level becomes more freed up with nicely shaded open spaces which could be enjoyed by the public. The bio mimicry of the tree form gives many structural and environmental advantages to form a light weight efficient space frame which could host diverse farming activities. The four major components which are the root, trunk, branch and leaf each have their own spatial characteristics which are suitable for various farming conditions.

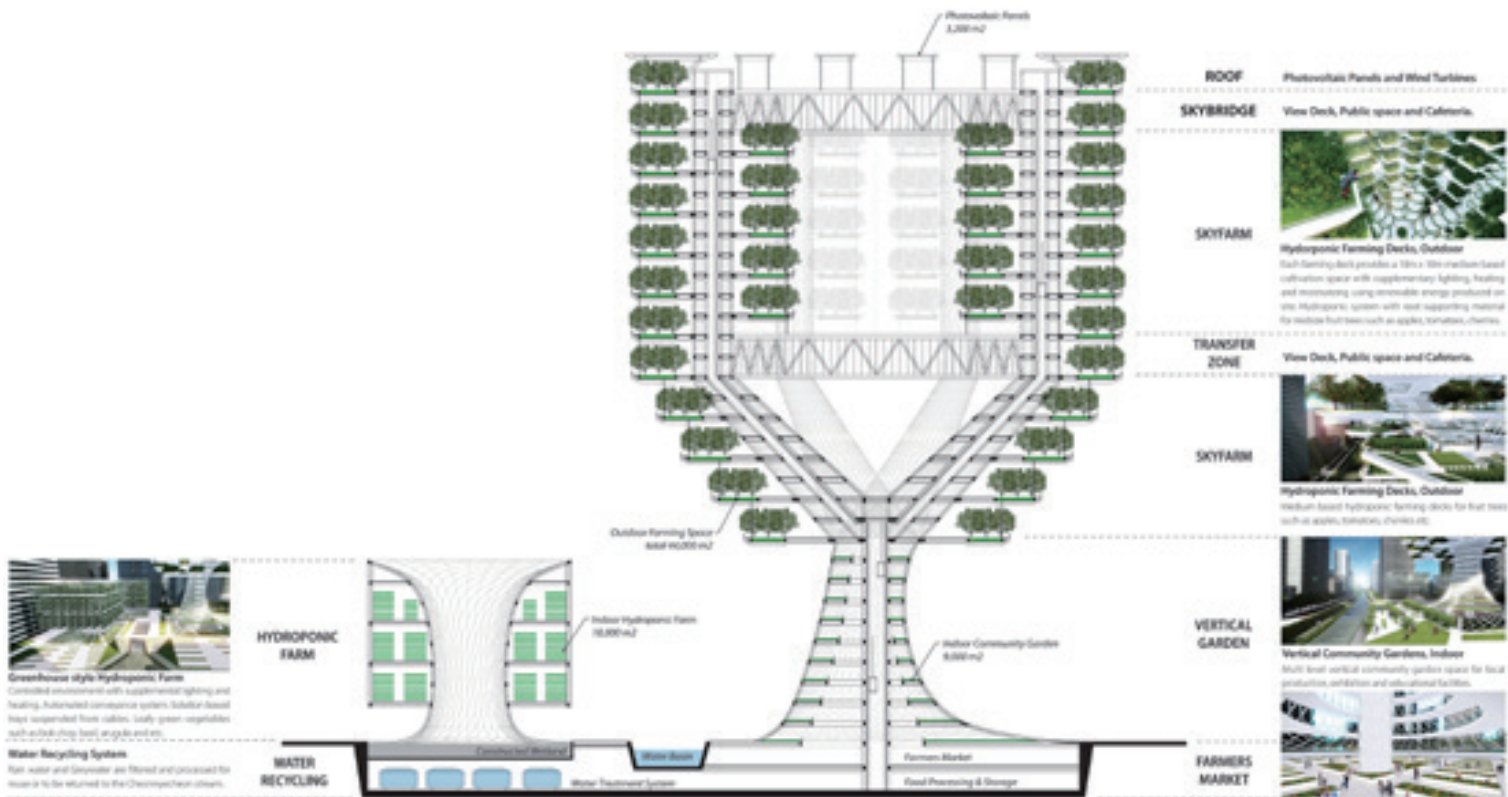
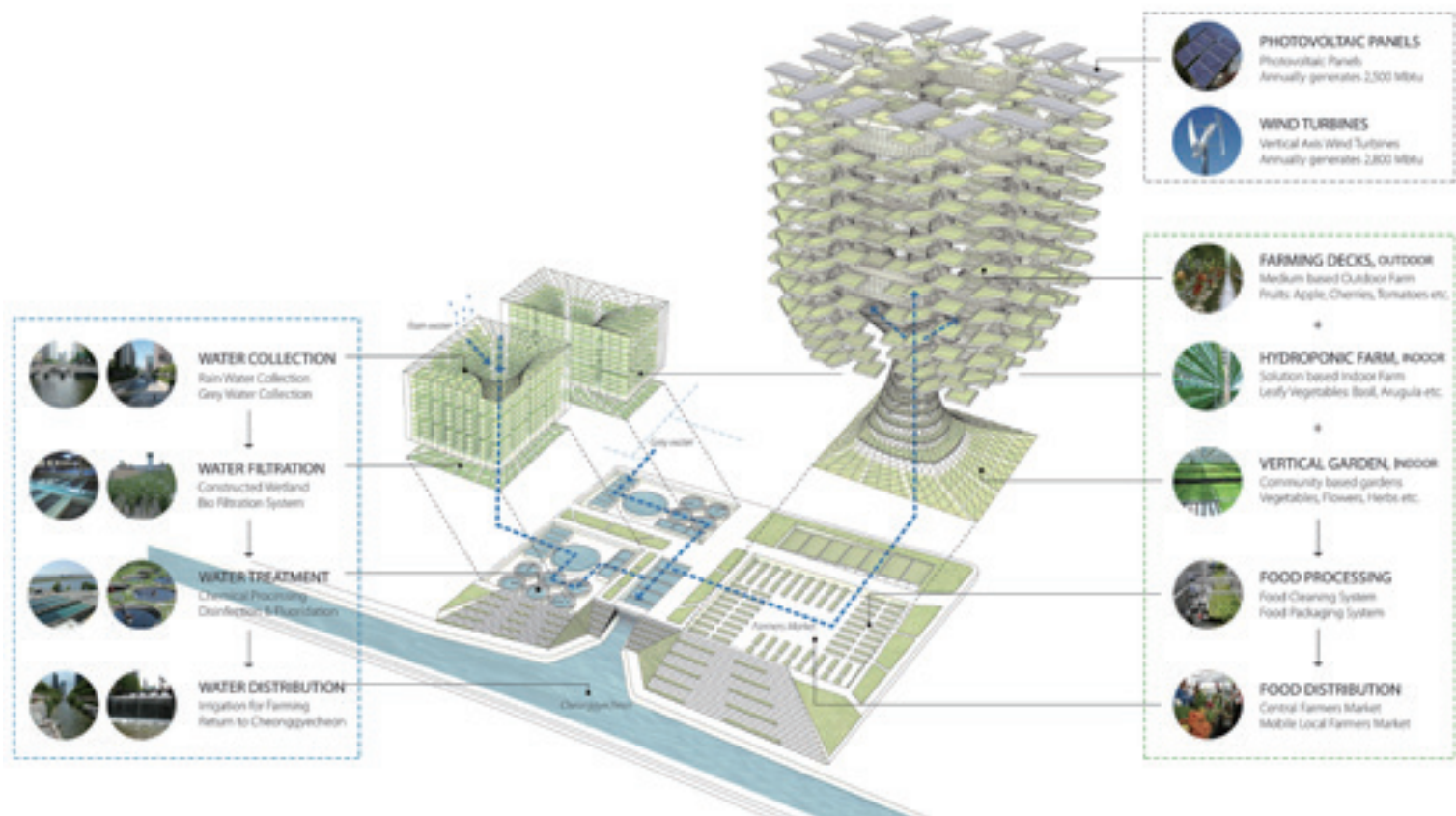
The lower portions enclosed by the structural skin provide more controlled environments for solution based leafy productions. During daytime the photovoltaic panels generate electricity to be used for night time lighting and heating to support farming. The Urban Skyfarm creates a mini ecosystem which brings balance back to the urban community.

The Tree-like form creates a strong iconic figure in the prominent location and becomes a symbol of well being and sustainable development. Together with the Cheonggyecheon stream, the Urban Skyfarm will become a nice destination place for people seeking for fresh food, air and relaxation within their busy urban life.









城市天空农场是一个垂直的农场设计方案，项目位于韩国首尔，毗邻清溪川，是韩国人口最密集的商业区之一。城市天空农场的设计灵感源自巨大树木的生态系统。

通过抬高农作物的用地，蔬菜得到了更多的自然阳光、新鲜空气，此外，地面土地就空置出来了，精心打造的高空空间是一种全新的建筑结构模



式。仿生学的树形结构在结构上和环境中创造了重量轻、效率高的空间架构，可以满足承载多样农作物的需求。建筑的四个主要结构是根部、树干、树枝、叶子，每个都有自己的空间特色，适用于多种农产品生长。建筑的矮部分外围覆盖有一层建筑表皮，提供了可调节的环境，有助于农作物的生长。白天，太阳能光伏板聚集的热能在夜间可用于农场的

照明和加热。城市天空农场创造了一个迷人的生态系统。树状的外形及建筑的生态功能，使建筑成为特色、健康、可持续发展的代表。在清溪川的映衬下，城市天空农场成为人们在忙碌的都市生活中寻找新鲜食物、新鲜空气和休闲的最佳选择。