

Urban Modular Farms — Coupling and Coordinating Urban Ecological Fragmentation Space with flexible Units in Poblenou and Eixample

Escola Tècnica Superior d'Arquitectura de Barcelona (ETSAB)
Universitat Politècnica de Catalunya (UPC)
Universitat de Barcelona (UB)
Author: Keying Zhou
Supervisor: Salvador Gilabert Sanz

SUMMARY

This research aims to identify strategies to maintain the well-being of city dwellers in the face of urban expansion and reduced agricultural acreage. The primary goals are to study the prospects of enhancing social and environmental fortitude through a comprehensive evaluation and investigation of the adaptability of modular urban farming and to identify possibilities for augmenting urban green spaces within a restricted area and forming novel approaches to green agronomy for the present day.

The main research questions include: Can fragmentation of urban green spaces facilitate the development of urban agriculture by implementing agricultural models? What advancements in construction can be utilized to facilitate the integration of urban agriculture into urban areas? A holistic view is necessary to draw on knowledge and techniques from various disciplines, such as Landscape Architecture, Agricultural Technology, Ecosystem Administration, and Social Policy.

Conducting research by synthesizing perspectives on these issues, this study seeks to investigate the ability of modern modular agriculture to link together disjointed urban areas. Its potential is to be utilized as an ecological mechanism to blend into urban design and improve the amount of green space, the ecological environment, and food availability for city inhabitants, thus contributing to green and sustainable city growth.

Keywords:

Landscape Architecture; Urban Agriculture; Modularity; Ecosystem and Bioeconomy.