

*Growing urban ecosystems: **A food market in Menlyn***

by Fransa van Zyl

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Abstract

This study responds to the effect that current food production has on the natural environment, by researching urban systems and ecosystems. In reaction to the findings, a new food production system and the urban buying and retail culture are investigated. A food market and hydroponic production building is designed to serve as an alternative to the supermarket and conventional food production.

Hierdie studie reageer op die uitwerking wat huidige voedsel produksie op die natuurlike omgewing het, deur stedelike stelsels en ekostelsels te bestudeer. In reaksie op die bevindings word 'n nuwe voedsel produksie stelsel en die stedelike koop-en-verkoop-kultuur ondersoek. 'n Varsprodukte mark en hidropo-niese produksie-gebou word ontwerp om 'n alternatief te bied vir die supermark en konvensionele voedselproduksie.

Vir my Skepper en Kompas, Jesus Christus, dankie vir talent en krag.

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Project summary
Programme: Food market and production
Site description: Precinct within the boundaries formed by Garsfontein Road, Atterbury Road, Genl. Louis Botha Avenue and Lois Avenue

Client: The City of Tshwane
Users: Commuters of the new proposed Gautrain station, businesspeople of the area and the general public

Site location: Erf 68, Menlyn
Address: c/o Mercy, Frikkie de Beer and Amarand Roads, Pretoria, South Africa
GPS Coordinates: S 25 47'09.7 E 28 17'00.0

Architectural theoretical premise: Researching a new food production system and the buying and retail culture
Architectural approach: Primarily the development of a food market, secondarily the creation of productive landscapes in the area and hydroponic food growth
Research field: Environmental potential

In accordance with Regulation 4(e) of the General Regulations (G.57) for dissertations and theses, I declare that this thesis, which I hereby submit for the degree Master of Architecture (Professional) at the University of Pretoria, is my own work and has not previously been submitted by me for a degree at this or any other tertiary institution.

I further state that no part of my dissertation has already been, or is currently being, submitted for any such degree, diploma or other qualification.

I further declare that this dissertation is substantially my own work. Where reference is made to the works of others, the extent to which that work has been used is indicated and fully acknowledged in the text and list of references.

The dissertation is 14 155 words long (excluding the scanned items).

Fransa van Zyl

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This chapter introduces the author's theoretical argument, followed by real-world problems that led to the proposed programme. Urban systems and its shortcomings inspire this dissertation. A short introduction to food systems and retail casts light on the project aims and objectives.