



Country / City Canada
University / School University of Guelph
Academic year 2019 - 2020
Title of the project The BioPod
Authors Minerva Cancilla - Styles

TECHNICAL DOSSIER

Title of the project	The BioPod
Authors	Minerva Cancilla-Styles
Title of the course	LARC 4710 - Capstone Design Studio
Academic year	2019 - 2020
Teaching Staff	Nadia Amoroso and Sean Kelly
Department/Section/Program of belonging	Bachelor of Landscape Architecture
University/School	University of Guelph

Written statement, short description of the project in English, no more than 250 words

The 'BioPod' is a design concept that aims to connect people with nature through a 360 degree immersive experience that allows the user to fully engage with the surrounding environment. Adapted from the Stress Reduction Theory conceived by Roger Ulrich, the Bio-Pod allows people who live in highly dense urban areas to access natural space that greatly benefits psychological well-being. It is well known that people who live in highly populated urban settings are more likely to suffer from stress related mental health conditions such as anxiety, panic and depression. The main function of the Bio-Pod is to improve the psychological well-being and mental health of populations who do not have direct access to natural environments. Not only does the pod allow users to fully immerse themselves in natural space, but its scale promotes rapid stress reduction and recovery. The idea is that the circular pod can be installed in a variety of existing sites around the city. The Grange BioPod is an example of how the BioPod retrofit can be designed to fit into an existing park space.

For further information
Máster d'Arquitectura del Paisatge -DUOT - UPC

T: + 34 93 401 64 11 / +34 93 552 0842
Contact via email at: biennal.paisatge@upc.edu

Máster d'Arquitectura del Paisatge -DUOT - UPC
ETSAB- Escola Tècnica Superior
d'Arquitectura de Barcelona
Avenida Diagonal, 649 piso 5
08028 Barcelona-Spain



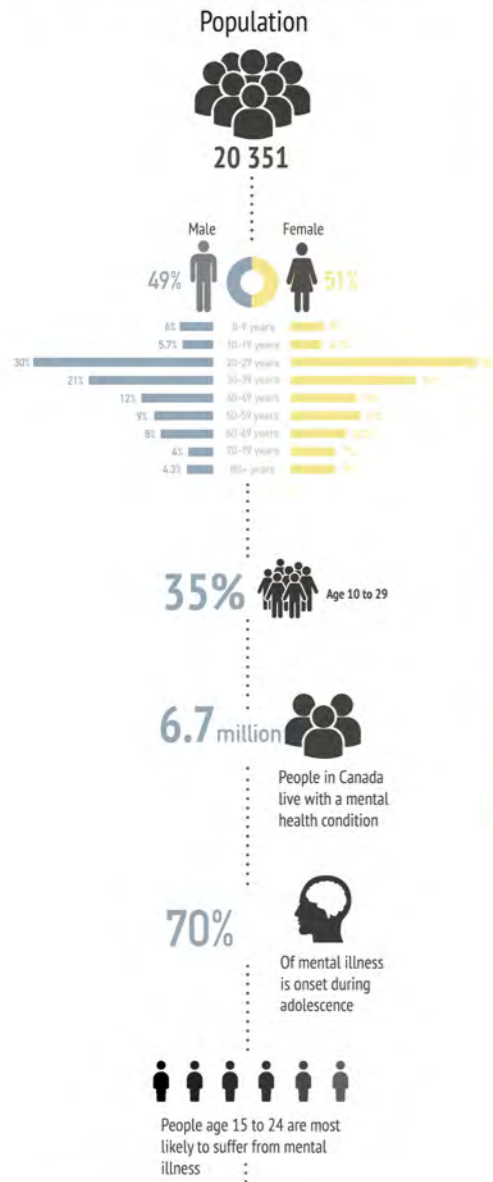
CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020
SCHOOL PRIZE



Kensington-Chinatown Neighbourhood Demographics



Site Selection and Concept Development



Toronto

Grange Park

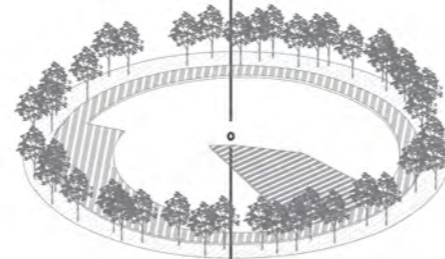
Grange Park serves as a "sample site" that will demonstrate how the BioPod may be implemented into an existing park within the city.

Surrounding Greenspace Analysis



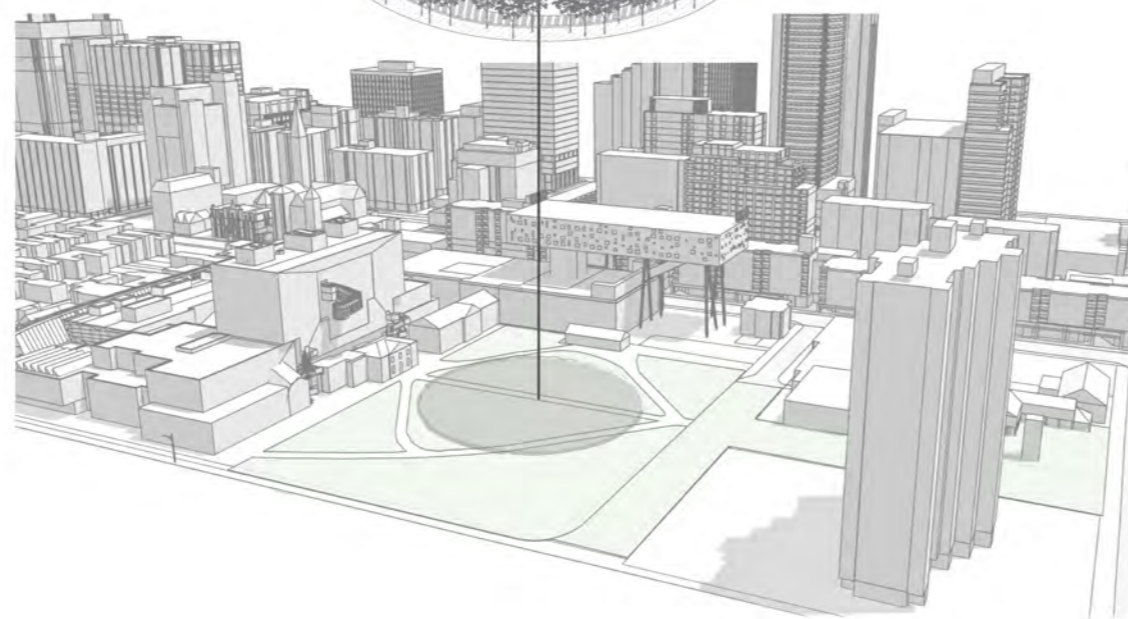
A limited amount of greenspace within the central portion of downtown Toronto leaves opportunity for park implementation.

- 1 ALEXANDRA PARK
- 2 NATHAN PHILLIPS SQUARE
- 3 QUEENS PARK

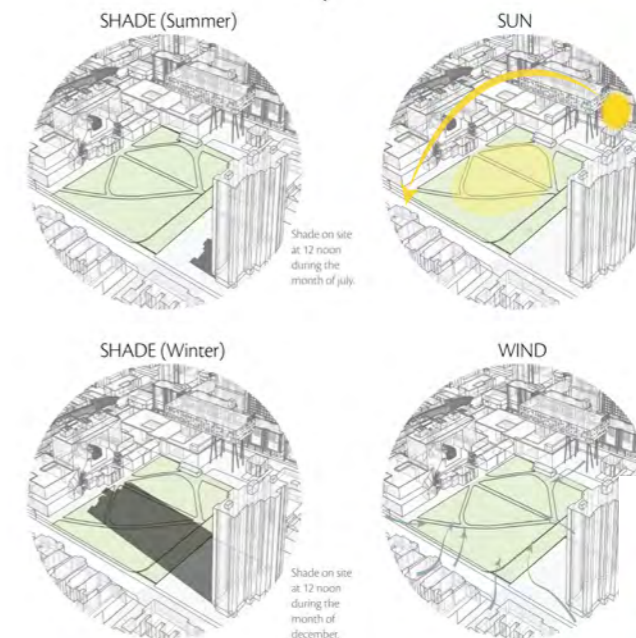


Concept Background

People living in urban centres suffer from a disconnection with nature leading to psychological and physiological problems.



Microclimate Analysis

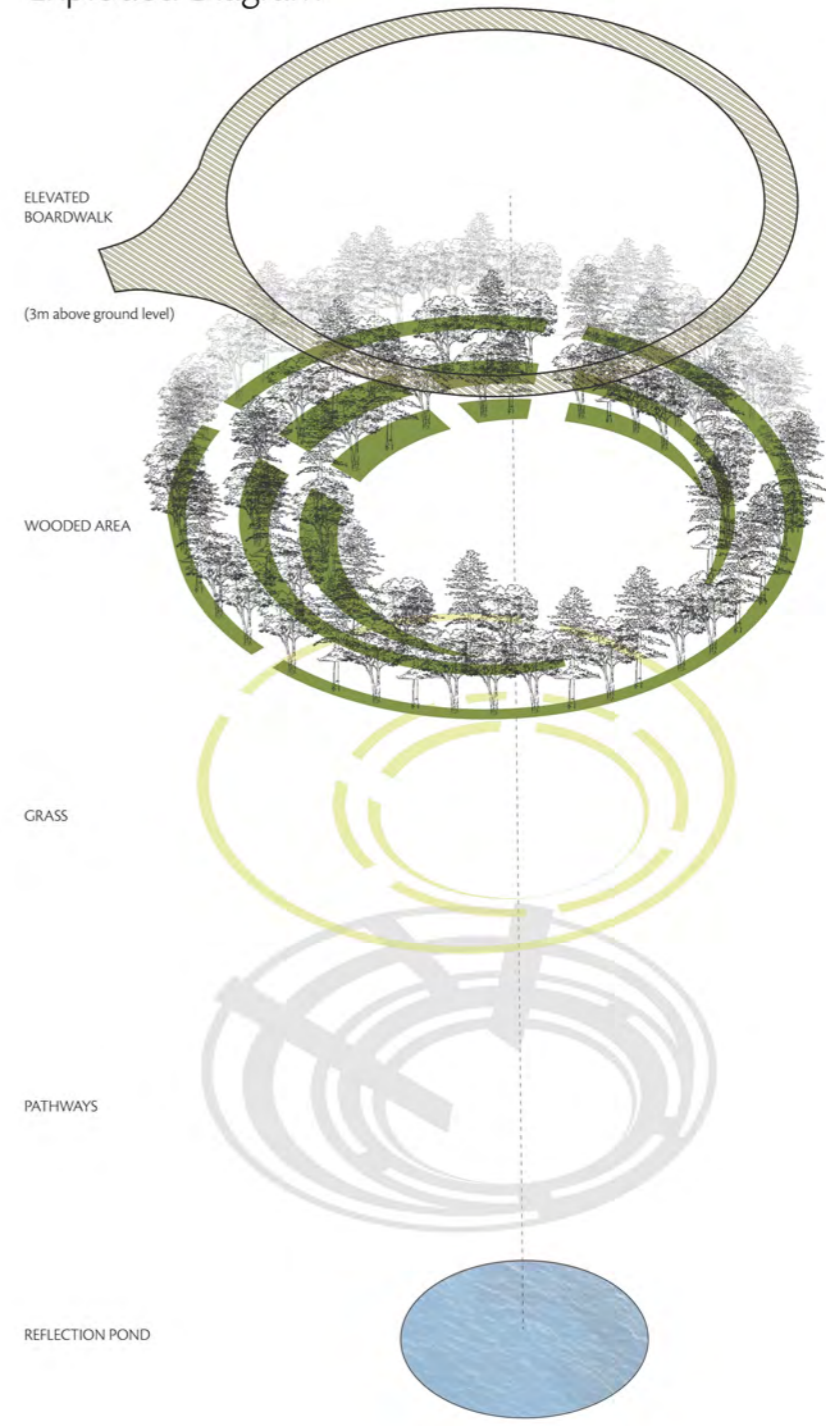


The 'BioPod' Site Plan



"The Biopod" is a design retrofit that can be implemented into an urban setting to increase the amount of nature within the city. The idea behind the biopod is that the circular pod not only allows users to experience nature in a 360 degree immersive state, but it can be installed into varying types of sites from existing parks to void spaces around the city. The Grange Biopod is an example of how the biopod retrofit can be designed to fit any type of space regardless of site scale.

Exploded Diagram





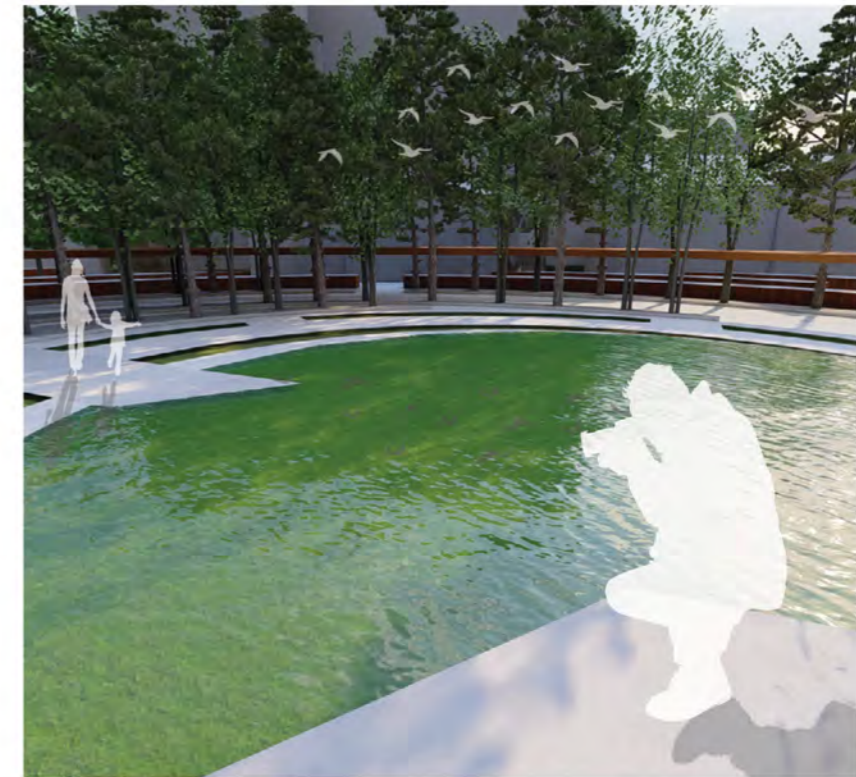
Design Visualization



View into the Biopod from the entrance plaza



View along the path of the forest trial



View of reflection pool from the pier

