

SPROUTSIDE



DMGT 740 Sustainable Practice in Design
Spring 2021 Prof. Scott Boylston

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The COVID pandemic has resulted in social isolation, which has impacted personal lives and forced people to work from home. As a result, emotional well-being suffered, making it difficult to maintain a work-life balance. We can eliminate the negative impact of social isolation while increasing positive personal well-being by building a richer connection with nature through biophilic design.

"Sprouts" is a work pod that assesses your mood and health status to form an optimized workspace that integrates natural elements to maximize productivity. We hope that by bringing people "Sproutside," we will expand their ability to develop themselves professionally while also providing them with chances to engage with nature. We choose Northern Central Park as the first pilot Sproutside community, which will provide unique access to the diverse residents of Northern Manhattan and will be replicated in other locations in the future.



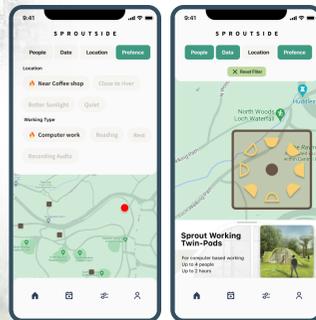
Front View showing Pod configuration



Location

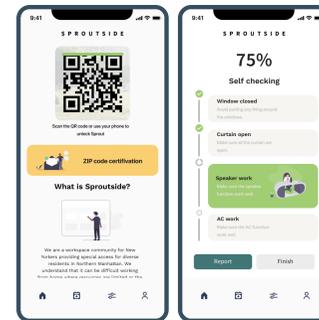
Currently, there is great movement in renovating North Central Park for lower-income families and residents and we plan to be a part of that renovation project. Inclusivity and accessibility are core values of Sprout, and we aim to provide opportunities to elevated work experiences to residents local to the northern Manhattan area.

Sproutside App
The Sproutside app will help users enhance their experience. Sproutside will help users easily make a reservation and interact with the community to improve well-being. In a community system, user can share their knowledge or get rewards for challenges. The user can also look up their environmental impact and manage their working time. The Sproutside app will become the connection between physical Sproutside and virtual information.



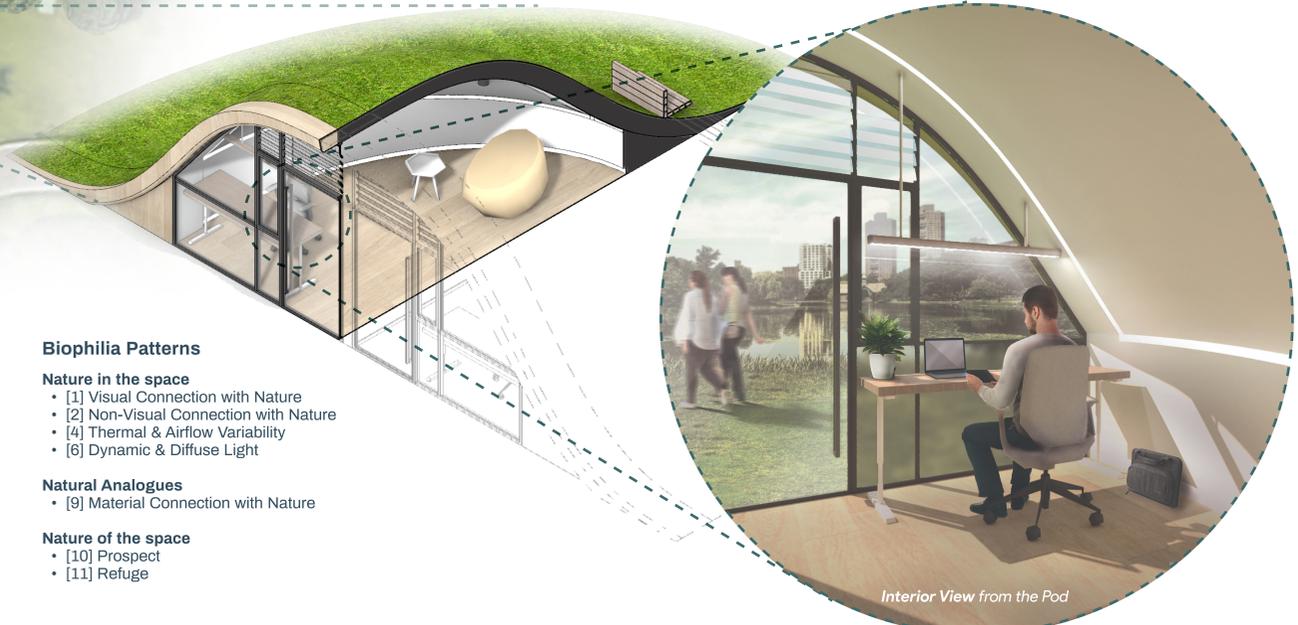
Make a reservation

The user can set up their time, location and preference while making a reservation. The zip code certification will make sure the residents have equal chances to use Sproutside Pods. And through invitation, users can invite their friends to book more Sproutside Pods or share.



Use app to control Sprout

It will be easy to unlock and control your Sproutside Pod. After using a QR code or phone to open the app will welcome you to the control panel, which helps you manage temperature and lighting. The self-check system helps you examine the Sproutside equipment you've used and ensure the best quality for the following user.



Interior View from the Pod

Sprout "Pod"

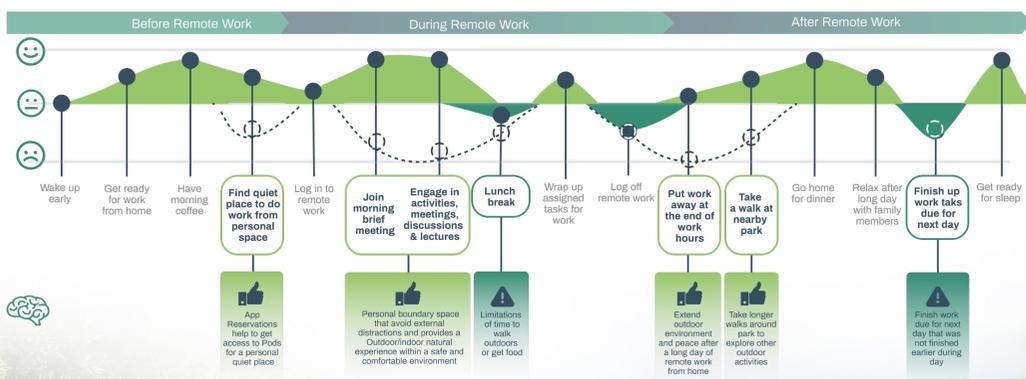
The design of the Pod is inspired by the idea of "being wrapped around in nature." The Sprout Pod has two separate workspaces enclosed under a single undulating surface. The design strategies are based on Biophilic Patterns, which provide several opportunities to interact with nature. Each Pod contains adjustable furniture, mood lighting, and temperature control to assist users in increasing their productivity.

The Sproutside module is composed of five pods in a semicircular layout. The unit's rhythmic undulating surface emerges from the earth, creates a visual spectacle for park visitors. Sproutside attempts to reduce its environmental impacts by generating electricity through a solar tree located in the middle of each unit and by passive cooling.

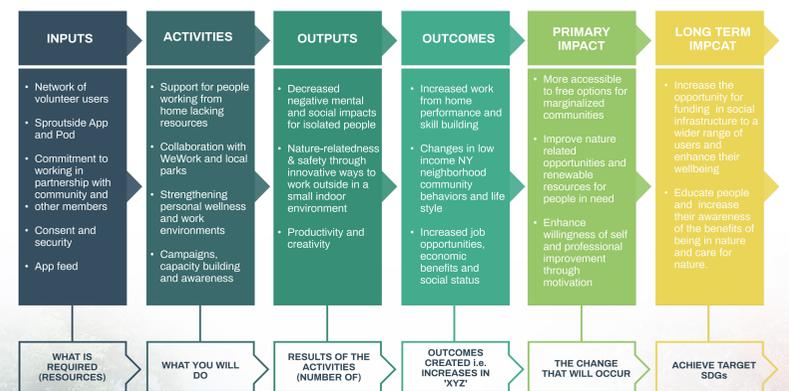
Biophilia Patterns

- Nature in the space**
- [1] Visual Connection with Nature
 - [2] Non-Visual Connection with Nature
 - [4] Thermal & Airflow Variability
 - [6] Dynamic & Diffuse Light
- Natural Analogues**
- [9] Material Connection with Nature
- Nature of the space**
- [10] Prospect
 - [11] Refuge

User Journey



Theory of Change



Sproutside View showing Pod layout