

Meta-Garden

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Project Challenge

This project aims at examining community connectivity in the context of Community Gardens (C.G.s). C.G.s are vital for enhancing community engagement, learning, and well-being. However, the problem relating to limited accessibility, insufficient gardening knowledge, absence of platforms have constrained the promotion of C.G.s (C.G.s).

Intellectual Merit

A combination of virtual and physical gardens that promotes community connectivity by extending in-situ learning into a virtual space for deeper bonding.

- On the technical side, by conceiving, implementing

and pilot testing a mixed-reality C.G., we'll explore key technical features and approaches that can be leveraged to augment the C.G., and identify technical gaps, challenges and a potential strategy to address these.

- As for the social aspect, we'll be able to understand the benefits and drawbacks of physical and virtual gardens and identify how such a mixed-reality garden can promote and augment community learning, engagement and well-being.

Major Outcomes / Progress

- Interviews with community garden owners and volunteers for understanding social benefits and technology adoption state-of-the-arts of C.G.s.

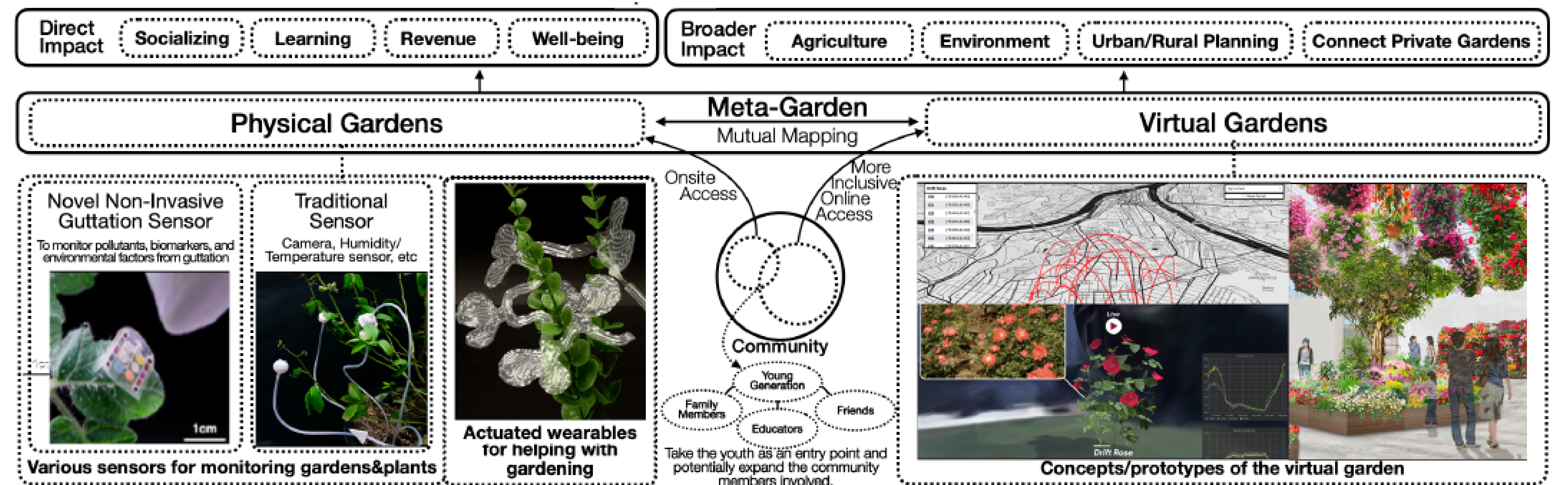
- Developing guttation sensing and actuating technology.
- A hybrid game that bridges digital and physical gardening practice to promote user involvement and connection.

Broader Impact

The research seeks for a broader connectivity beyond gardening and human communities, a one that cares for bio-diversity and human-nature relationship.

Future Goals

Our future goal is to study the transferability of our solutions to support connectivity diver group that care for human-nature symbiosis.



Proposed meta-garden concept