

Increasing Food Security in Urban Areas



Hannah Whitney, Kelly Perfetto, Griffin O'Neil, Jonathan Stern, Aidan Melgar, Russell DeSousa Advisors: Dr. Geoff Pfeifer, Dr. Marja Bakermans, PLA: Alyssa Konsko

Goal: Planning for Increased Access to Healthy Food

Problem:

- · 1 in 8 Americans live with food insecurity as of 2017.
 - 40 million Americans lack access to healthy, affordable food.

Solution:

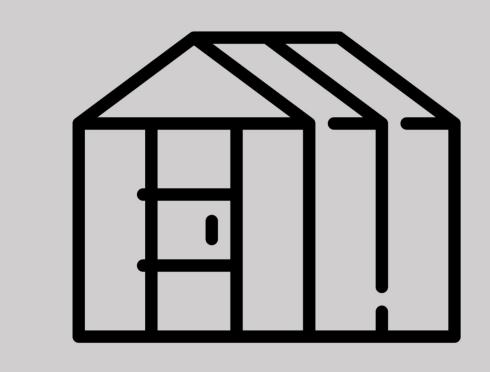
Community
Accessible Space

Mixed Volunteers
and Employees

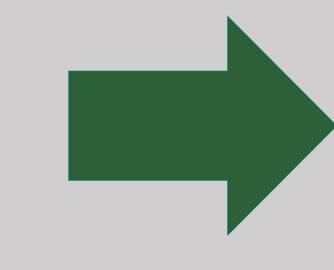
Simplified
Hydroponics
Farming

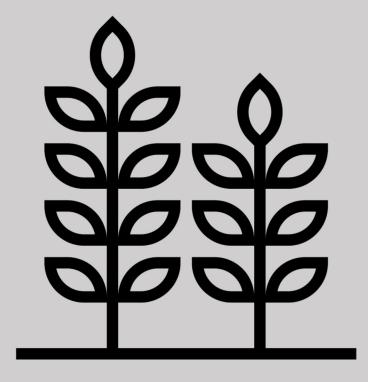
Distribution
Through Farm
Markets

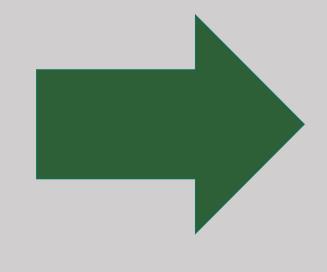
Our Ideas:

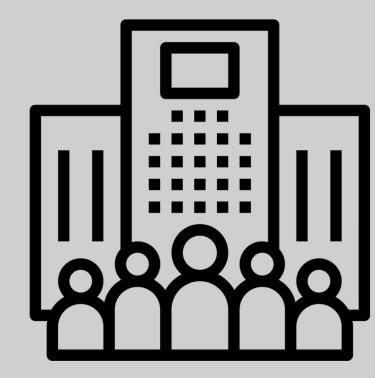


Bioshelter

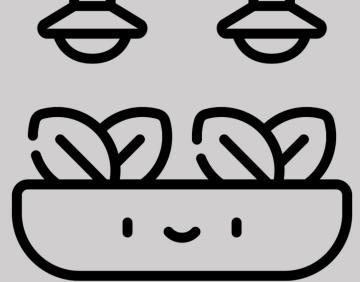










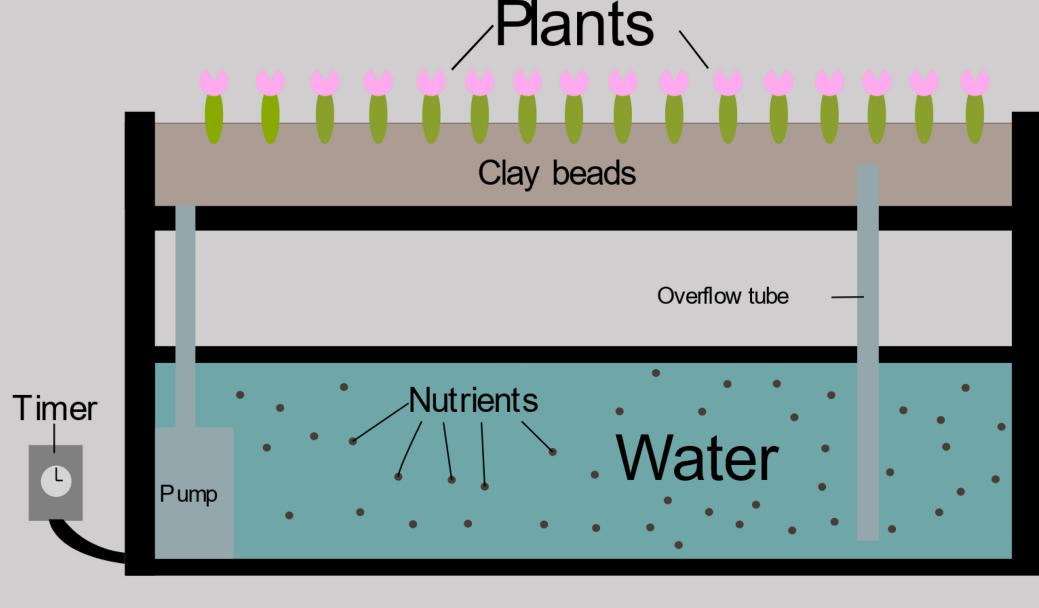


Urban Farm











Financing:

- Grants
- Fundraisers
- Sponsorships
- Revenue

Outcomes:

- •Improved sense of community
- Access to healthy food
- •Education + experience
- •Healthier diet

Community:

- Partnerships
- · Leaders
- Education
- · Job creation

Acknowledgements:

We would like to thank Stacie Brimmage, Coordinator for the YouthGROW Program, Susie Reutling, Master Gardener of Key West, FL., Professors Pfeifer and Bakermans, and Peer Learning Assistant Alyssa Konsko.

References:

lcons made by Freepick, mynamepong, and geotatah from Flaticon
lves, K. (Nov, 2014). The role of social values in the management of ecological systems. *Journal of Environmental Management*, 144, 67-72. doi: 10.1016/j.jenvman.2014.05.013
Beckwith, Gilster, (1997). The paradise garden: A model garden design for those with Alzheimer's disease. *Activities, Adaptation & Aging, 22*(1-2). Retrieved from https://www.tandfonline.com/doi/abs/10.1300/J016v22n01_
Kingsley, Townsend. (2006). 'Dig in' to social capital: community gardens as mechanisms for growing urban social connectedness. *Urban Research and Policy, 24*(4). Retrieved from https://rsa.tandfonline.com/doi/full/10.1080/08111140601035200?scroll=top&needAccess=true#.W-9DKuhKg2w

Kazemia, F. Mohorkob, R. (Feb, 2017). Review on the roles and effects of growing media on plant performance in green roofs in world climates. *Urban Forestry & Urban Greening 23*(13-26). Retrieved from https://ac.els-cdn.com/S1618866716300607/1-s2.0-S1618866716300607-main.pdf?_tid=26dd7a24-9b88-43e5-9063-e233873378ac&acdnat=1540569106_d7716a199ff2c17f48f208856fbb2102
Feeding America (2018). *What is food insecurity?* Retrieved from https://hungerandhealth.feedingamerica.org/understand-food-insecurity/
Bailkey, M., & Kaufman, J., (2000). Farming inside cities: Entrepreneurial urban agriculture in the United States. *Lincoln Institute of Land Policy working paper*. Retrieved from http://www.urbantilth.org/wp-content/uploads/2008/10/farminginsidecities.pdf
Ritz, S., (2018). *GreenBronxMachine*. Retrieved from https://greenbronxmachine.org/

content/uploads/2008/10/farminginsidecities.pdf Ritz, S., (2018). *GreenBronxMachine*. Retrieved from https://greenbronxmachine.org/ Breen, J., Fay, T., Luxsuwong, P., Overdevest, M., & Sohn, Y. (2015). Designing a Bioshelter in Worcester (Rep.). Worcester, MA: WPI. Regional Environmental Council, (2018). *YouthGROW: Youth growing organics in Worcester*. Retrieved from https://www.recworcester.org/youthgrow