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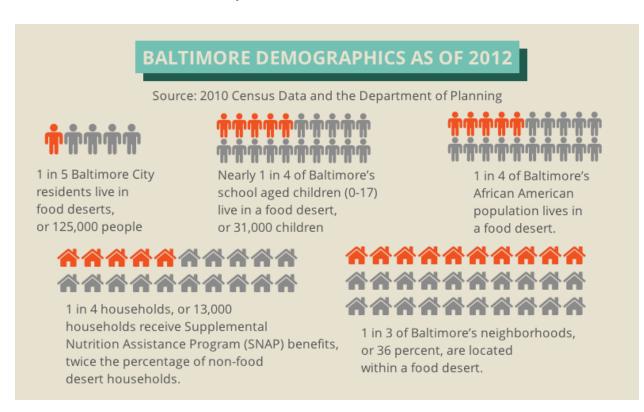
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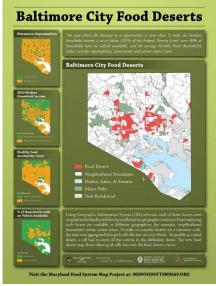




Food deserts in the city of Baltimore, MD are well documented.







Computer Science students at Coppin State University, which is located in West Baltimore, worked towards a solution to combat food deserts.



JUXTOPIA

After surveying the landscape of the city, students realized the anatomy of Baltimore features many more flat rooftops than it does flat green farm land.







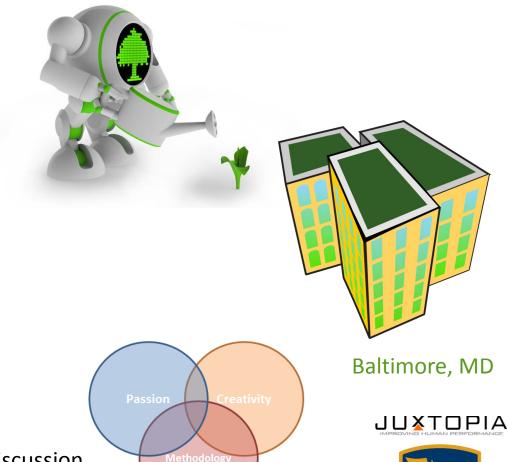
Once this was realized, students asked the following questions:

- 1. Can fresh fruits and vegetables grow on these rooftops if they are configured correctly?
- 2. If so, how can these crops be maintained and harvested?
- 3. What mechanisms/tools can be used to get the harvested crops from the rooftops to the ground in residents hands (e.g. sidewalks, farmers markets, corner stores)?



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After more thought, brainstorming, and discussion, "Robo Rooftop Gardens" were obvious!



Robo Rooftop Gardens are designed to be food gardens located on the tops of rowhouses throughout out Baltimore, MD where robots and other smart technologies are used to plant, maintain, and harvest fruits and vegetables. These robots collect and store grown crops in crates and signal Rooftop Garden Drones to pick up the crates and deliver them to humans on the ground.



Robo Rooftop Gardens integrate the artificial intelligence, robotics, and drone research and development work done by students in L.A.I.A. at Coppin State University. The project is funded by Juxtopia, LLC.



