

Beyond the Standard Curriculum: An Indoor Hydroponic Vertical Farm

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**PHILLIPS Programs
United States of America**

Health and Wellbeing Education



**Zero Project Conference
Wed. February 19, 2020
12:10 pm**

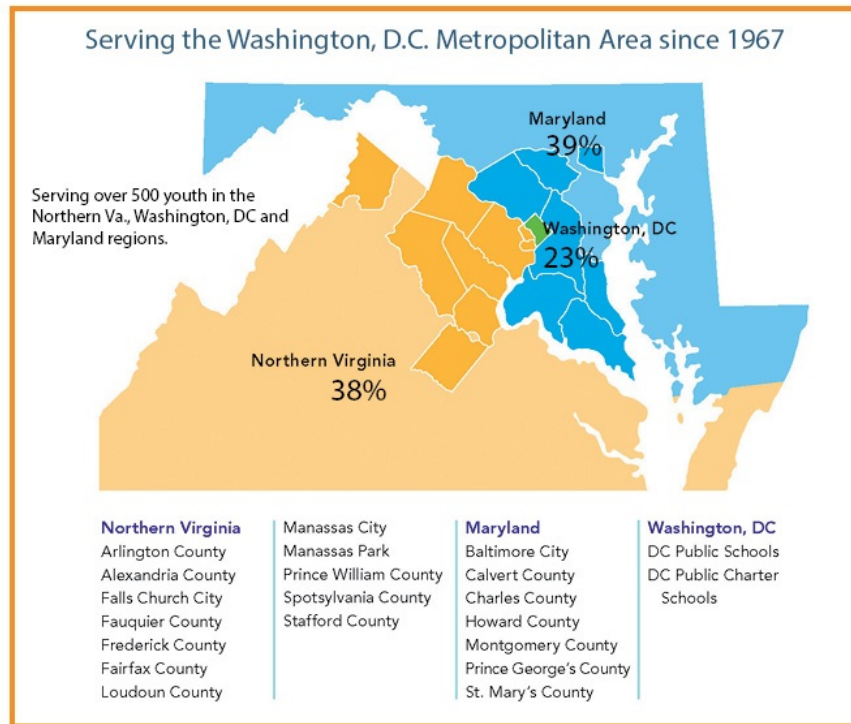


PHILLIPS

Programs for Children and Families

~ PHILLIPS Schools ~ PHILLIPS Career Partners ~ PHILLIPS Family Partners

***Serving Children, Youth, Young Adults with
Complex Social, Emotional and Behavioral Health Needs***



Youth referred to PHILLIPS have:

- experienced repeated school failure
- have complicated profiles and needs
- 82% live below the US Federal poverty line

***PHILLIPS builds programs around youth,
rather than having youth fit into a program***

What is An Indoor Hydroponic Vertical Farm?



**Students grow fresh produce
indoors
all year long**

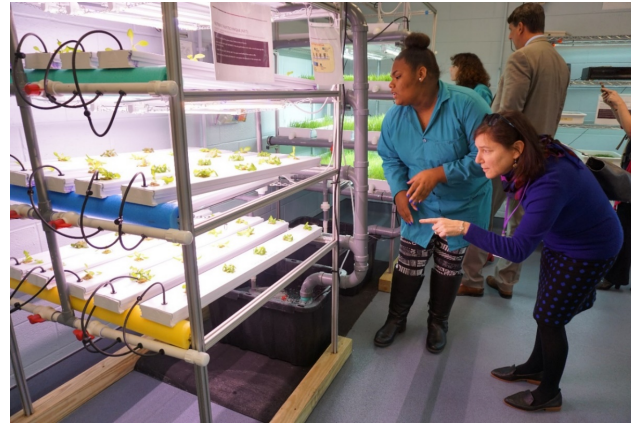
- Lettuce: 590 heads yearly
i.e. arugula, bib, romaine
- Microgreens: 16 varieties
i.e. carrots, wasabi
- Other specialty produce
i.e. basil, mint, edible flowers



Culinary Arts and Urban Agriculture: A Career and Technical Education Program



*Grow Produce &
Use in Culinary Class*



Open House and Tours



*Snip, Snap, Sauté
In House & Community Lunches*



*Sell Produce to
Local Restaurants*



Internships

Innovation:

Don't think outside the box, think as if there is no box.



Farm To Table
Food Sustainability



Health & Wellness:
Students



Health & Wellness:
Staff



Entrepreneurial
Skills



The Impact Created

YOUTH

Youth: Develop marketable career skills to include "soft skills" and technical skills

Youth: Are employed in a chosen career pathway after graduation from high school.

EMPLOYERS

Employers: Have an established pipeline of qualified, skilled entry level workers.

COMMUNITY

Community: Has access to locally, produced, fresh food

YOUTH, FAMILIES, & STAFF

Youth, Families, Staff: Increase awareness and access to healthy eating

Utilizing a Logic Model: Expected and Unexpected Outcomes:



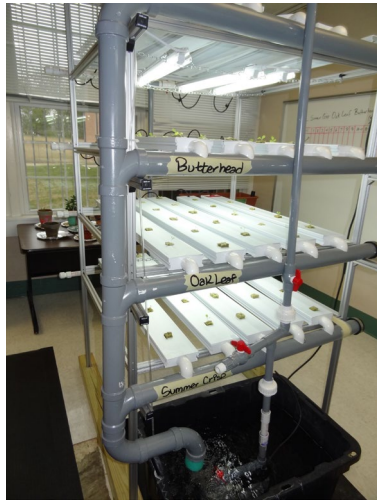
YOUTH VOICE and OUTCOMES

- *Increased* competencies in both culinary arts & vertical farming
- *Increased* awareness in healthy foods
- *Increased* willingness to help others with limited resources
- *Increased* workplace soft skills
- *Increased* social emotional skills

IMPACT ON THE SCHOOL COMMUNITY

- *Increased* knowledge of hydroponics
- *Increased* knowledge of microgreens
- *Increased* pride in students
- *Increased* pride of school program
- *Increased* willingness to grow food

Financing, Challenges and Sustainability



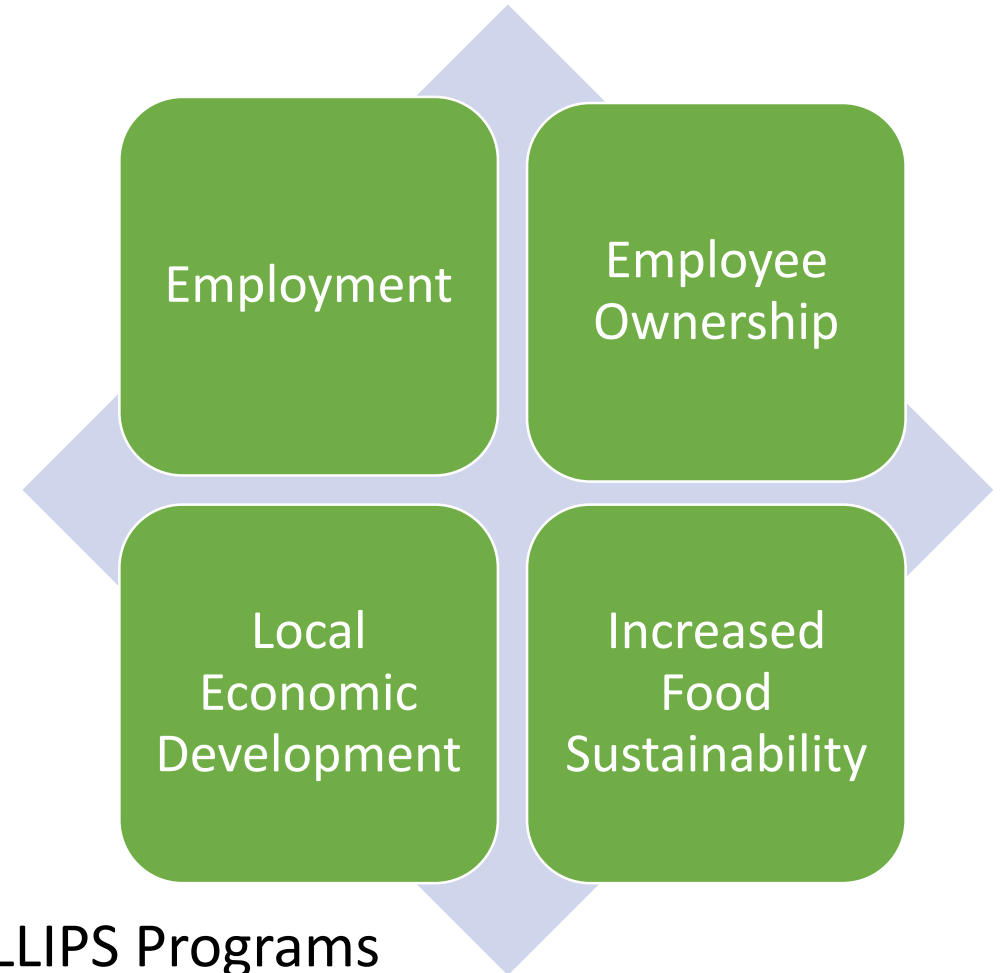


Reflection and Lessons Learned

- Jump In
- Utilize a Logic Model to Guide Program Design, Implementation and Evaluation
- Incorporate Youth Voice
- Embrace “Failure is not final”



Next Steps: An Employee Owned Social Enterprise



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