

# Jobenomics Urban Agriculture Program

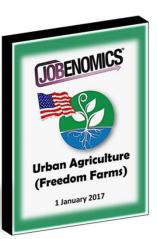


Chuck Vollmer 15 May 2019

## **Jobenomics Urban Agriculture**

- Team: Jobenomics is teamed with ACTS Freedom Farms of America.
- Mission: Provide a solution to food shortage through self-sustaining and supportive livework communities.
- Vision: Provide quality foods in harmony with the global environment, while empowering individuals to become an important partner in high-tech controlled environment agriculture.
  - Strategy: 1) home ownership combined with an agriculture career, 2) corporate owned indoor commercial growing operations and 3) train "high-tech controlled environmental agricultural farmers.









Goal: Establish 25,000 new jobs within grow centers, and another 25,000 ancillary jobs.

## **Jobenomics WDC Urban Farming**



Initial cadre will be mostly veterans (vetting and financing considerations) but will also include non-veterans.



Converted Warehouse With Controlled Environment & Vertical Farming Systems



- AG Core is the corporate team that manages and trains new recruits until they are capable of assuming the responsibility to run entire operation.
  Secure Produce On
- Each micro-farm will consist of the land and a leased greenhouse that will be equipped and supplied by AG Core.

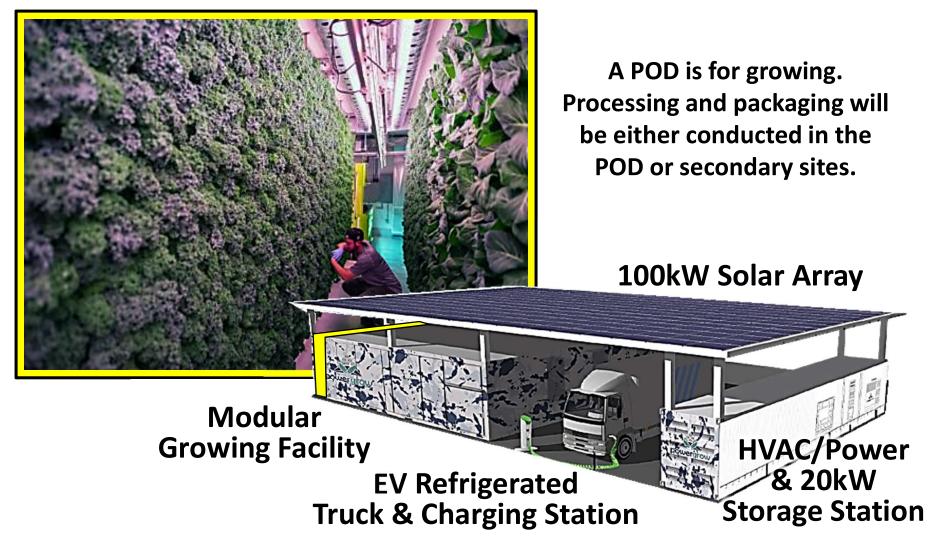


Base earnings will be \$35,000 to \$40,000 annually with bonuses and profit sharing upon completion of first year.

## **Produce On Demand (POD) System**



**Off-Grid Configuration** 



Produce will be harvested every 30-60-90 days depending on crops.

## Live/Work/Office Units

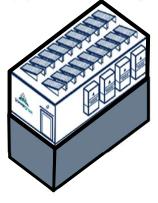
Affordable Multiuse Configurations: Home, Configuration farm, office.

# Vertical

(up to 3 stories)

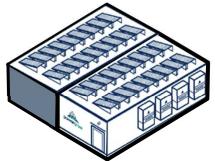
- Livable: from 1,000sf single family to 3,000sf multi-family.
- **Environmental:** LEED certified, insulated, mold resistant, solar
- Suitable for small lots (1/8 acre) & spaces:





### Horizontal Configuration

(Attached or Detached Units)





### **Modular/Portable**



Proven



(TV Star Rick Harrison's Pawn Plaza in Las Vegas was built with the same manufactured modules as a POD)

Micro Farmer will be part of a Local LLC with profit sharing amongst all team members.

### **Affordable Local Businesses**





**Year End Cash Balance**: Year 1 = \$350,000, Year 2 = \$650,000.

Indoors versus Outdoors: 5-acre comparison: Indoor is 18-times more productive, Indoor generates 50% more revenue, Indoor EBIT is 434% higher than outdoor agriculture. Earnings Before Interest & Taxes

Significantly more efficient and cost effective than outdoor farming. 5

## **High \$ Value CEA Products**



### **Common Crops**

- Culinary Herbs
- Lettuce
- Spinach
- Tomatoes
- Strawberries
- Peppers
- Cucumbers



### **Specialty Crops**

- Medicinal Herbs
- Flowers
- Mushrooms
- Ground Covers
- Ornamental Grasses
- Bamboo

Hemp

The highest value crop is hemp. Cultivating hemp for CBD oil can generate as high as \$75,000 per acre in controlled conditions.

### Live/Work Eco-Communities





### Live/Work/Play/Retire Complex





Meets District's desire for affordable homes, safe communities, green eco-friendly facilities, and business/employment initiatives.

# Ideal For DPR Community Gardens

- Ward 5
  - Harry Thomas Gardens | 1743 Lincoln Road, NE
  - Langdon Youth & Community Garden | Franklin & Mills Avenue, NE
  - Arboretum Youth Garden | 2412 Rand Place, NE
  - Edgewood Gardens | 300 Evarts Street, NE
  - Ledroit Gardens | 3rd & V Streets, NW | 56 plots
  - Noyes Gardens | 10th & Franklin Streets, NE | 7 plots
- Ward 7
  - Benning Garden | Fable Street & Southern Avenue, SE
  - Hillcrest Garden | 3100 Denver Street, SE
  - Lederer Garden | 4801 Nannie H. Burroughs Avenue, NE
  - Soilful City Garden | 53rd & Dix Street, NE
- Ward 8
  - **Douglass Garden** | 1898 Stanton Terrace, SE
  - Ferebee Hope Community Garden | 3999 8th Street, SE
  - Fort Greble Garden | Martin Luther King Jr. & Elmira Street, SW
  - Fort Stanton Community Garden | 1812 Erie Street, SE
  - Mothers Peace Garden | Mississippi Avenue & 13th Street, SE

### **Ideal Public-Private Partnerships**









## **Upgrades For Private Agra Businesses**



### An Urban Agriculture Enterprise Run by D.C. Returning Citizens Fights to Grow

Hustlerz 2 Harvesters is based in Ward 7's Dix Street Garden. By Laura Hayes, and rew giambrone — Nov 10, 2017 4 PM



hustlaz2harvesters.com





#### **Certified Urban Community Gardeners**

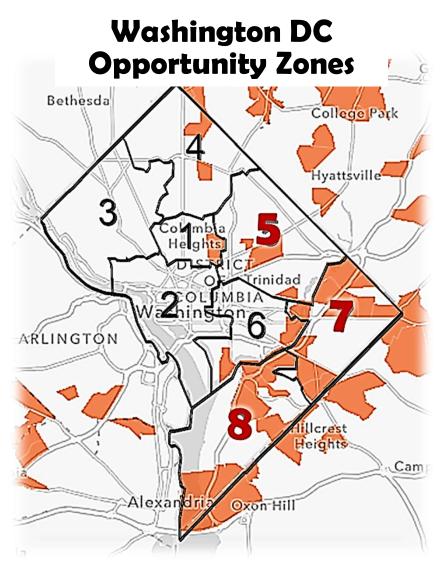
- Garden Carpentry Certification Course
- Hoop Houses
- Sustainable Permaculture Design Certificate Course
- Aquaponics & Hydroponics Technician Certification
- Certified Professional Food Manager, Handling and Food Systems

### Hustlaz 2 Harvesters interested in partnering with JWDC.

### **Funding Sources**



- Opportunity Funds
- HUD, SBA, VA and CDFI startup business loans
- Equity investments
- Corporate partnerships
- Government and foundation grants
- Profit sharing
- Investment partners



Ultimate goal is start our own JWDC Opportunity Fund.



### Produce On Demand Launch Model







**Structured Program Launch Built To Scale** 

- Start growing in a Produce On Demand facility that can be expanded into larger grow facilities and areas:
  - 3-5 employees in Year 1 with a POD 48'W x 48'L x 11'H
  - 20 30 employees in Year 2 with addition of greenhouses or POD expansion
  - 150 employees by Years 4/5 with full master plan
- Up to 100% equipment financing with appropriate credit rating
- Start with specialty crops and expand to greenhouses
- Create permanent career paths and business ownership

## Model



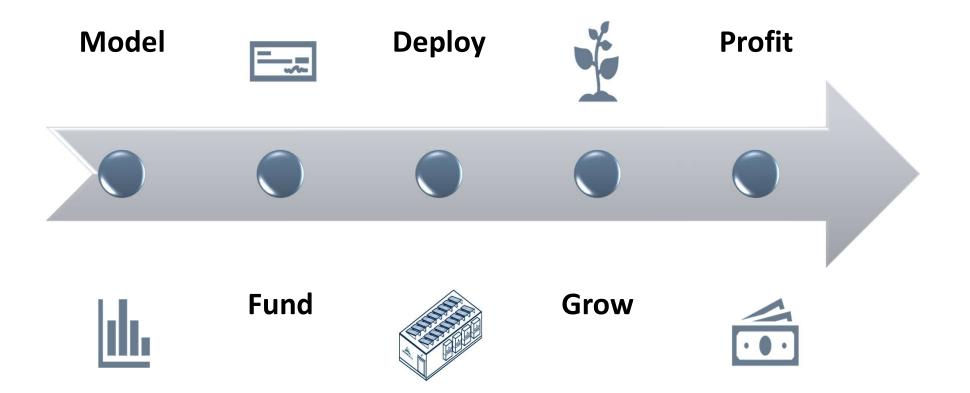
Local Ownership With National Support

- Local ACTS FFA LLC manages POD growing operations with support from Corporate, partners and suppliers
- Local ACTS FFA LLC secures \$300,000 in operating capital
- Structured support managed by ACTS FFA Corporate and PowerGrow
  - Funding: 100% equipment financing for POD Grower Training Food Quality: GAP, GHP & FSMA and Organic Certification from FSA Farm Service Administration
  - Marketing & Sales support: revenue stream for ACTS Corporate
  - Veteran Support (USDA & VA)
- Sell direct to retail grocers, farmers markets, food service restaurants, hotels, etc, universities and other buyers



### Process

Fast Track To Launch And Profitability



120 days for delivery and setup under Fast Track.

## **Scaling Into Local Markets**



Launch – Expand – Scale



In DC-MD-VA Metro

## **Modular Fast Launch Strategy**



Produce first crops 30-60 days following set up of POD



Growing operations begin 120 days after lease approval and ordering of the capital improvements.

## **5-Acre Greenhouse**



Large Scale Jobs Engine

Acre Comparison	Performance Categories	5 Acre High-Tech Greenhouse Grape Tomatoes
Indoor: 5 Outdoor: 93	Acreage Under Glass	5
	Growing Area (% actually planted)	95%
	Growing Area in Square Footage	206,910
	Yield per Square Foot	0.71
	Total Yield per planting	146,906
Revenue	Number of Plantings per year	10
<b>Comparison</b> Indoor: \$3,389,829 Outdoor: \$2,259,886	Waste factor for transport and processing	94%
	Estimated Yield to Market:	1,377,979
	Estimated Market Price Per Pound	\$2.46
	Estimated Gross Revenue	\$ 3,389,829
	Cost of Labor, Seed, Water, Chemicals/Fertilizer	\$ 1,394,573
<b>EBIT Comparison</b> Indoor: \$874,822 Outdoors: \$201,322	Cost of Lease and Power	\$ 1,046,980
	Total Cost to Grow	\$ 2,441,553
	Net income before shipping:	\$ 948,275
	Cost of Shipping	\$ 73,453
Outdoors. \$201,522	EBIT	\$ 874,822

Significantly more efficient and cost effective than outdoor farming.

## **Support Programs**



Federal, State, Local & National Team

### Financial

- Land Acquisition, POD & Equipment Funding, Operating Capital
- Operational
  - Food Safety: GAP, GHP, FSMA
  - Organic Certification
  - Staff Augmentation with Subject Matter Experts

### Sales & Marketing

National Retail Produce Off-Taker Programs

### Growing Expertise

- Upstart University, U of A CEAC, Master Grower Services
- ACTS FFA extensive training ongoing.
- Local Universities and colleges will utilize PODs as remote training centers for students.

## **ACTS FFA Management Team**



**Business Innovation, Analytics, Fulfillment And Business Economics Experts** 



**Michael Buehler** 

CEO & President Business Innovation



**Bill O'Connor** 

Chief Analytics Officer Project Financing Expert





**Robert Flegal** 

Chief Operating Officer Fulfillment Expert

```
Chuck Vollmer
```

Chief Development Officer Business & Economics Expert









ACTS Freedom Farms Advisory Board Members include controlled environment agriculture and fertigation experts.

## **PowerGrow Management Team**



Agricultural Technology, Construction, Energy and Finance Experts



Sean Lyle

CEO & President 25 Years IT & Energy



**Gerald Williams** 

Chief Development Officer Project Financing Expert



Andy Lloyd

Chief Operating

Officer

25 Years High-Tech

Construction



John Wellman

Chief Innovation Officer Energy Systems Expert

in







PowerGrow Advisory Board Members include two of the leading greenhouse plant scientists in the country



### **Contact Information**

**R. Michael Buehler**, CEO ACTS Freedom Farms of America, 949-295-1337, RMB@ACTS.ws

Chuck Vollmer, Jobenomics Founder and President, 703-319-2090, cvollmer@jobenomics.com

Harry Thomas Jr., Jobenomics Washington DC Coordinator, 202-439-5103, hltjr05@gmail.com

www.Jobenomics.com