Jobenomics National Grassroots Movement

focus is on mass-producing small businesses and jobs.





For Under-Resourced Urban & Rural Communities

Chuck Vollmer

Jobenomics Founder & President

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Controlled Environment Agriculture (CEA)



- A process of growing plants inside a grow room or greenhouse.
- CEA allows a grower to maintain light, carbon dioxide, temperature, humidity, water, pH levels, and nutrients to produce crops in ideal growing conditions with maximum yields.
- Jobenomics' CEA program is focused on mass-producing agribusinesses, micro-farms and agricultural-related jobs.

Ailing U.S. Small Farm & Food Manufacturing Industries

Source: U.S. Department of Agriculture, U.S. Bureau of Labor Statistics

Hired* Farm Workers
Food Manufacturing Jobs
Private Sector Nonfarm Jobs

Employment		New	Percent
Year 2000	Latest Data	Jobs	Growth
1,332,000	1,344,000	12,000	0.9%
1,562,500	1,628,200	65,700	4.2%
110,246,000	128,068,000	17,822,000	16.2%

Farm & Food Jobs % of Total 0.4%

CEA can create tens of thousands of micro-businesses and jobs in under-resourced rural and urban communities.

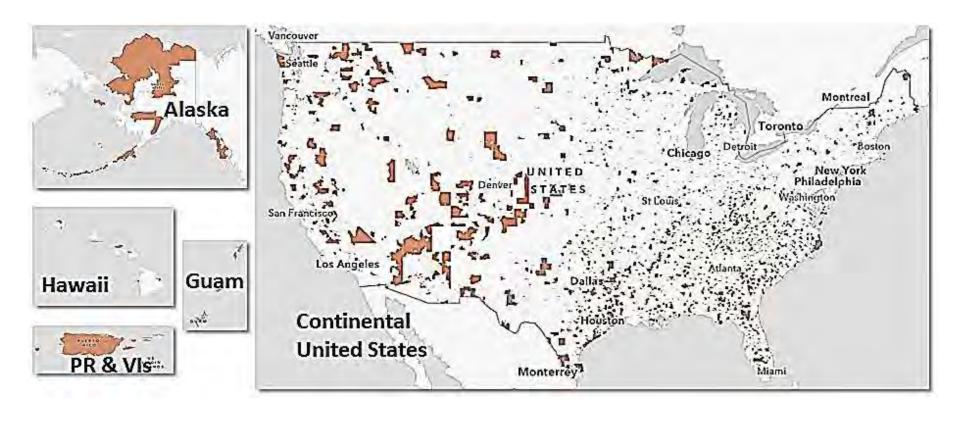
^{*}Not including family farmworkers that decreased by from 8 million in 1950 to 2 million in 2000. Today, small farms are in crisis with fewer people entering the industry and worsing economic conditions.

Under-Resourced Rural & Urban Areas



8,700 Designated Opportunity Zones

The poorest 12% of all U.S. census tracts

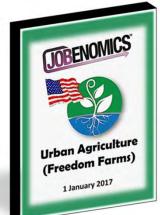


Part of the 2017 Tax Cuts and Jobs Act, Opportunity Zones promise positive social impact by driving billions of dollars in long-term investment into under-resourced urban and rural census tracts.

Jobenomics CEA Partnership

Freedom Farms of America.

- Team: Jobenomics is teamed with ACTS
- 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.







ACTSFFA has secured commitments from three Opportunity Funds that have \$150 million available for our CEA programs.

AG Core & Micro-Farms



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.

GAP, GHP, FSMA
Compliant Greenhouse

Demand (POD)

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

California 1200-Acre Freedom Farm



Designed by ACTSFFA/Oculus for veteran-owned businesses and homes.







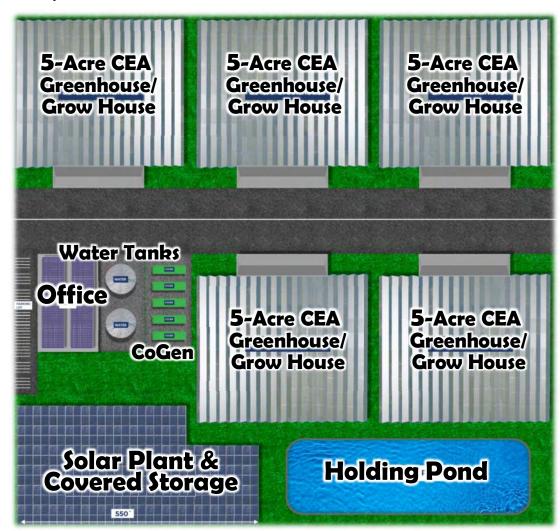


2.6 million sq. ft. of indoor controlled environment agriculture, greenhouse village, hotel, farmers market, winery, production and distribution facilities, commercial/community/education/worship centers, and 300 single-family homes on 2-acre lots.

50-Acre Controlled Environment Agricultural (CEA) Rendering





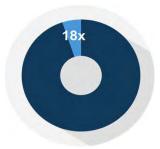


The Jobenomics/ACTSFFA/PowerGrow team is working with leading greenhouse, grow-house and CEA vertical and hydroponic suppliers.

5-Acre Greenhouse



Large Scale Jobs Engine



Acre Comparison

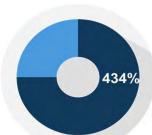
Indoor: 5 Outdoor: 93



Revenue Comparison

Indoor: \$3,389,829

Outdoor: \$2,259,886



EBIT Comparison

Indoor: \$874,822

Outdoors: \$201,322

Performance Categories	5 Acre High-Tech Greenhouse Grape Tomatoes
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
Number of Plantings per year	10
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
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
EBIT	\$ 874,822

Significantly more efficient and cost effective than outdoor farming.

1-Acre Controlled Environment Agricultural Project





Jobenomics/ACTSFFA are currently pursuing 1-acre CEA pilot projects in Iowa, West Virginia, Las Vegas, Washington DC, Baltimore, Chicago, Erie PA, Montgomery County MD, Puerto Rico, and Alberta Canada.

Produce On Demand (POD) System





- **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. $_{\it o}$

Produce On Demand (POD)



Features

- Easily Scalable Modular Facility
 - Expandable modular construction for increased production
 - POD can be sited on any flat surface with limited site preparation
- Food Safety Compliant
 - Good Agriculture Practices (GAP)
 - Good Handling Practices (GHP)
 - Food Safety Modernization Act (FSMA)

Smart Technology

- Remote & Cloud-based Systems
- Facility Management
- Food Production Knowledge-Base
- Security Access
- Labor Management
- Climate Controlled Growing
 - LED Lighting
 - HVAC Systems
 - Fertigation Systems
 - CO2 Generation
 - De-Humidification Systems

Our POD systems are ideal proof-of-concept programs.

Modular Construction

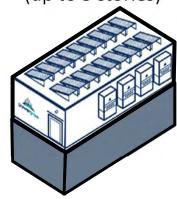


- Affordable multiuse configurations: micro farms, homes, offices.
- Livable: from 1,000sf to 3,000sf units.
- Environmental: LEED certified, insulated, mold resistant, solar.
- Suitable for small lots (1/8 acre) & spaces:



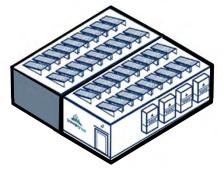
Vertical Configuration

(up to 3 stories)



Horizontal Configuration

(Attached or Detached Units)



Modular/Portable



Proven



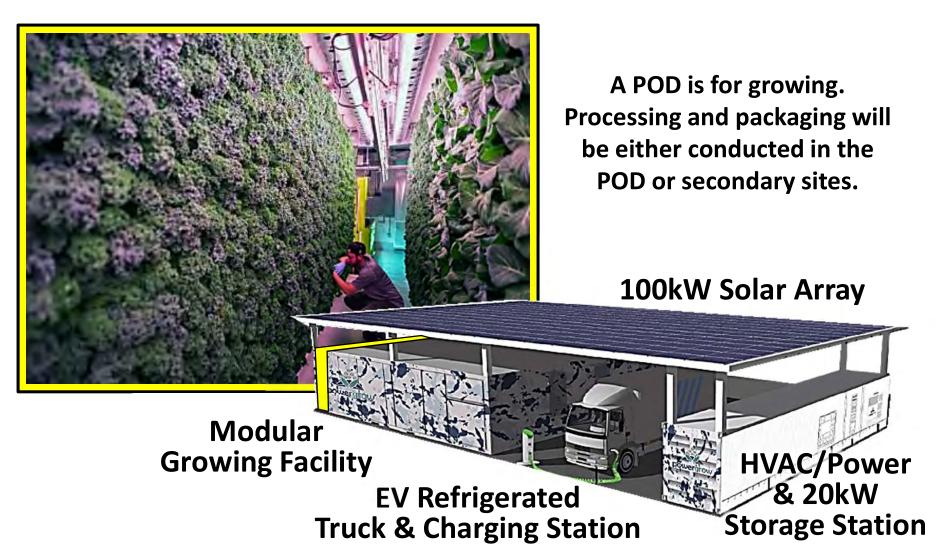
(TV Star Rick Harrison's Pawn Plaza in Las Vegas was built with the same manufactured modules as a POD)

Our modular units have even been utilized for shopping centers.

Produce On Demand (POD)



Off-Grid Configuration



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

Live/Work Eco-Communities





Opportunity Zone Fund financing now available.

Sustainable & Affordable Ecosystems



- Highly-scalable designs based on integrated solutions
 - Design-build project delivery with advanced building, materials, energy and environmental technologies
 - Increased use of modular systems and pre-fabricated units
- Sustainable single-family, multi-family & community programs
 - Increase usage of single-family accessory dwelling units
 - Implement new multi-generational, multi-family concepts
 - Create dedicated workforce business/housing communities
- Revitalize under-resourced communities and neighborhoods
 - Mass-produce micro businesses and jobs with livable wages
 - Mobilize community-leaders and officials to streamline permitting, zoning and land use regulations
 - Maximize Opportunity Zone and private sector funding

Efficiently produce high quality, lower cost homes and businesses.

Live/Work/Play/Retire Complex





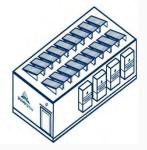
Meets community needs for affordable homes, safety, green ecofriendly facilities, and business/job creation.

Scaling Into Local Markets



Launch – Expand – Scale





Growing Crops and Generating Revenue in 60 to 90 Days

3-5 Direct Jobs

YEAR 1

1 ACRE POD EXPANSION or 1 TO 5 ACRE GREENHOUSE



Expandable Footprint for Market Expansion and Multiple Crops

20-30 Direct Jobs

YEAR 2

5 TO 15 ACRE GREENHOUSES



Maximizes Economies of Sale, Revenue and Profits

150 Direct Jobs

YEARS 3 - 5

10-50 PODs located throughout major metropolitan areas.

1-3 complexes in counties and regions.

Typical Income Statement



Washington DC POD, February 2019

Revenue*
Cost of Goods Sold
Gross Profit
Expenses
EBITDA
Depreciation
Operating Income

2019	2020
\$746,567	\$846,613
\$142,016	\$144,066
\$604,551	\$702,548
\$298,573	\$238,573
\$305,978	\$463,975
\$209,588	\$378,834
\$96,390	\$85,141

*Crop Revenue		
Spinach	25%	
Arugula	25%	
Kale	25%	
Basil	25%	

Starting Capital Ending Cash Balance

\$300,000	\$322,571
\$322,571	\$567,963

ACTSFFA team will meet with local buyers and conduct a detailed financial assessment before contract award.

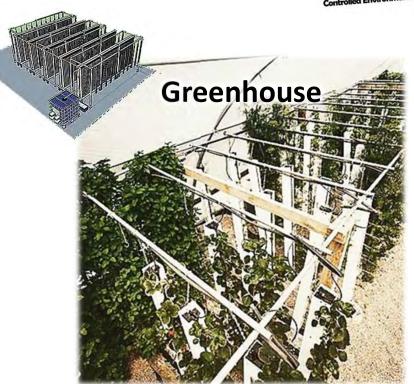
CEA Growing System

JOBENOMICS

Controlled Environment Agriculture

AgroTech's ZipGrow System







ZipGrow is the world's most installed vertical farming technology.

High \$ Value CEA Products



Common Crops

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



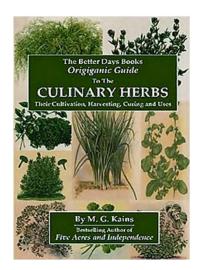
Specialty Crops

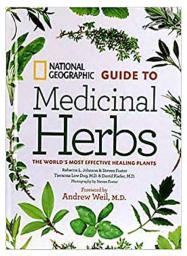
- Medicinal Herbs
- Flowers
- Mushrooms
- Ground Covers
- Ornamental Grasses
- Bamboo
- Hemp

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

Culinary & Medicinal Herbs







Culinary Herbs

- Basil
- Chives
- Caraway
- Dill
- Oregano
- Parsley
- Tarragon
- Mint
- Thyme
- Rosemary
- Sage

Medicinal Herbs

- Chamomile (pain, inflammation, cramps)
- Cinquefoil (inflammation, ulcers, jaundice)
- Feverfew (migraine, fevers, arthritis)
- Foxglove (cardiac contractility, heart rhythm)
- **Golden Rod** (menstruation, arthritis, eczema)
- Wintergreen (cooling properties: gum, mints, etc.)
- Many Others

The global dried herbs market is around \$4 billion per year.

Industrial Hemp Products





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

Cannabis



Same Species With Different Chemical Compounds And Applications

Hemp

Cannabis Stativa



Cannabis Indica & Stativa

- Legal (2018 U.S. Farm Bill)
- Usage: agricultural, industrial, medical & pharmaceutical
- Primary compound: CBD (Cannabidiol) grown for its non psychoactive properties
- Main markets: medical, bodycare, nutritional, construction materials, fibers, animal food

- Federally illegal (10-States legal)
- Usage: mainly recreational with a few medical applications
- Primary compound: THC (Tetrahydrocannabinol) grown for its psychoactive properties
- Main markets: mood-enhancing (smoking, edible, vaping & infused beverages) products

The U.S. hemp-CBD market is growing faster than marijuana and will be a \$22 billion industry by 2020 (up from \$600m in 2018).

Hemp CBD Oil Extraction



Industrial hemp extracts include pharmaceutical grade CBD oil used for illnesses and pain relief.

Apex Commercial CO2 Extraction System Model 5000-20Lx20L2ST, Revenue/Day \$25,424-\$76,463

CBD market will grow 700% to \$2.1 billion market in 2020.

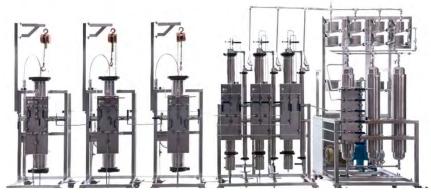
USDA 2018 Farm Bill includes cultivation and production.

language that legalizes hemp

Eden Labs Industrial CO2 Extraction System

CBD oil extraction systems fit Model 2x20L FX2, Revenue/Day \$163,440-\$217,920 in our highly-sanitized cube.





CBD oil extraction services are as profitable as cultivating hemp.

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

Advisory Board Vice Chairman









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

ACTS FFA 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.

ACTSFFA will manage CEA joint ventures from cradle-to-grave.



Contact Information

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