### Farming Opportunities

## Food Systems Strategies for Economic Development

A CEDAS Academy Webinar December 15 | 11:00 a.m. - 12:00 p.m. ET

Hosted by Laura Brown, UConn-Extension Program in Community & Economic Development, and Rebecca Nolan President, CEDAS. This webinar is free and offered as a cooperative program of CEDAS and the University of Connecticut-Extension Program in Community & Economic Development.







### Welcome to the

### CEDAS Academy Economic Development Strategy Tapas Webinar Series



ED Strategy Series is a web-based educational learning series developed by UConn Extension in collaboration with the Connecticut Economic Development Association and the Connecticut Economic Resource Center.



**EXTENSION** 







Thursday February 16, 2017 11:00 am - 12:00 pm Innovations in Workforce Development

Thursday April 13, 201711:00 am - 12:00 pm Activating Third Places: Maker and Co-working Spaces

Thursday June 1, 2017 11:00 am - 12:00 pm Community Driven Business Retention & Expansion Programs

Thursday August 10, 2017 - 11:00 am - 12:00 pm Entrepreneurship: Creating a culture of Innovation



Register at: www.cedas.org OR

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### Thursday February 16, 2017 11am - 12 pm Innovations in Workforce Development Speakers

- Patrick Flaherty, Assistant Director of Research and Information, Office of Research and Information Connecticut Department of Labor
- Mark Hill Chief Operating Officer, Eastern CT Workforce Investment Board, Inc.
- Adrienne Farrar Houel, President & CEO The Green Team; Park City Green; Next Chapter Books, Greater Bridgeport Community Enterprises, Inc Bridgeport

Advancing the Practice of Economic Development in Connecticut



Connecticut Economic
Development Association, is a notfor-profit organization committed to
advancing the practice of economic
development within the state of
Connecticut. CEDAS encourages
communication among its members
by providing a forum for discussion
and information exchange.

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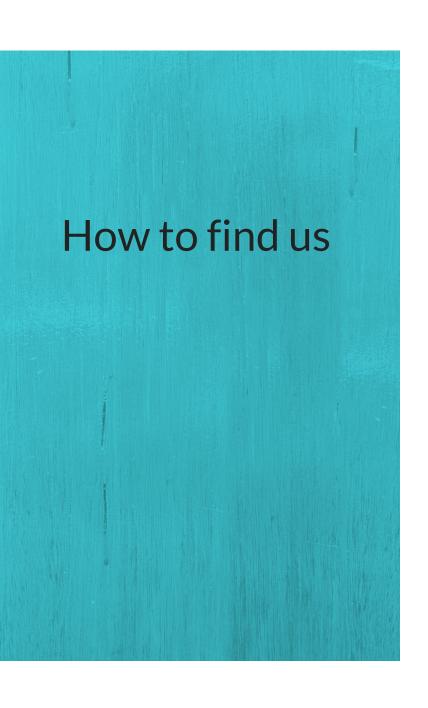
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### Our Presenters

Laura Brown, CEcD, is a Community & Economic Development Educator with the University of Connecticut-Extension. She has worked in urban and rural areas in New England and the midwest in non-profit management, food systems education and asset based community & economic development.



Jocelyn Ayer is the Community & Economic Development Director for the Northwest Hills Council of Governments which serves 21 town in CT's northwest corner. She is currently working with a team to help launch a Food Hub in NWCT in 2017 to support farmers and access to local food. She has a Master's degree in Regional Planning from the University of Massachusetts Amherst and one of her first jobs was pulling weeds on a farm in Vershire, Vermont.



Emily Stengel is the Deputy Director of GreenWave, where she leads and supports programming and operations, overseeing internal operations, implementation of programming, and fundraising strategy and execution. She brings to GreenWave a background in sustainable food systems, working for several years at a B-Corp catering company in NYC dedicated to supporting the regional farm and food economy, and more recently, working on a research team focused on workforce development in agricultural communities. Emily has an MS in Community Development and Applied Economics from the University of Vermont.

### The Local Food System



### Connecticut's Farm Economy

### • From 2007-2012

Number of farms in Connecticut increased by 22% from 4,916 to 5,977

Land in farms increased by 8%

Size of farm decreased from 83 to 73 acres

Most farms have sales < \$10,000

Percent of CT Farms with Sales <\$10,000: 2012





U.S Department of Agriculture, National Agricultural Statistics Service



### Local Food Systems & Economic Development

What we know...

- A lot about direct markets (farmer markets, CSA's, direct sales for human consumption.)
- Little about inter-mediated markets (restaurants, hospitals, schools) "which may account for significantly more local food sales than direct to consumer sales alone." (Low and Vogel, 2011)

Low, Sarah A. and Vogel, Stephen J., Direct and Intermediated Marketing of Local Foods in the United States (November 1, 2011). USDA-ERS Economic Research Report No. 128. Available at SSRN: https://ssrn.com/abstract=2114361 or http://dx.doi.org/10.2139/ssrn.2114361

### **Economic Development Opportunities**

### Entrepreneurship and cooperative aggregation, distribution, or processing

The number of small farms in Connecticut is growing but "little food system infrastructure exists between the roadside-stand direct-marketing option and the large-scale global supply chain option."



The number of small farms in Connecticut is growing.

Significant market opportunities exist for these smaller producers...because consumers and institutions are increasingly asking for healthy, green, fair, and affordable food."

### Investment in quality places

Businesses are increasingly located where people want to live. Quality places include green spaces, and stores and restaurants that provide healthful, quality food options.

Middle image courtesy Red Tomato http://www.redtomato.org/logistics/
Iowa State University. (2011). Bulletin Engaging Community Planners and Local Elected Officials
with Local Food Systems Producers to Integrate Local Food Systems into Community Plans and
Policies Local Food Systems and Economic Development







### **Economic Development Opportunities**

### Entrepreneurship and cooperative aggregation, distribution, or processing

- Incubators for value added product development and testing
- Co-packing facilities
- Food incubators
- Aggregation or distribution hubs
- Small batch processors

#### Niche for small producers

- Farmer and food business training
- Cluster networks
- Farm to school, restaurant, or institution
- Buy local campaigns that tell the story of the farm

#### Investment in quality places

- Improving food access
- Food atlases
- Farm to table
- Food based agritourism and culinary tourism





### NORTHWEST CONNECTICUT FOOD HUB

Jocelyn Ayer
Community & Economic Development Director



- How can food hubs create jobs and grow the agricultural economy?
- How did we assess local food supply and demand for a food hub in NWCT?
- Links and resources

"A regional food hub is a business or organization that actively manages the aggregation, distribution, processing, and/or marketing of source-identified food products primarily from local and regional producers to strengthen their ability to satisfy wholesale, retail, and institutional demand."

#### There are 350 Food Hubs nationwide (2013 Study)







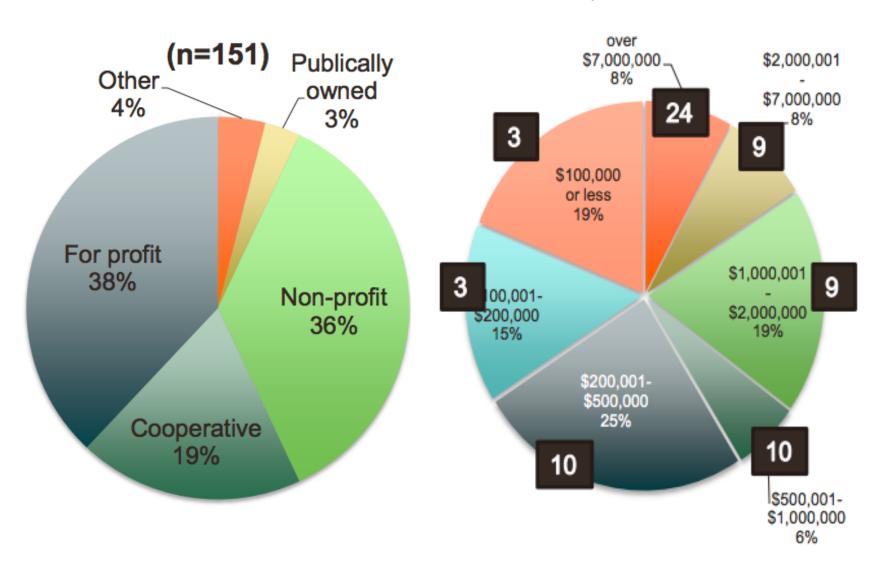


FOOD HUB



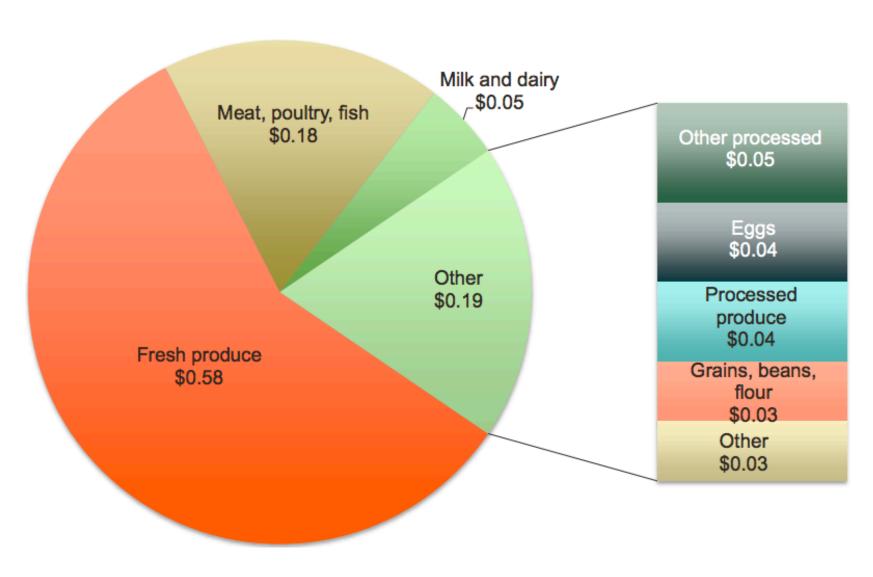
### Food Hub Legal Structure & Gross Revenue

[2015 National Food Hub Survey]



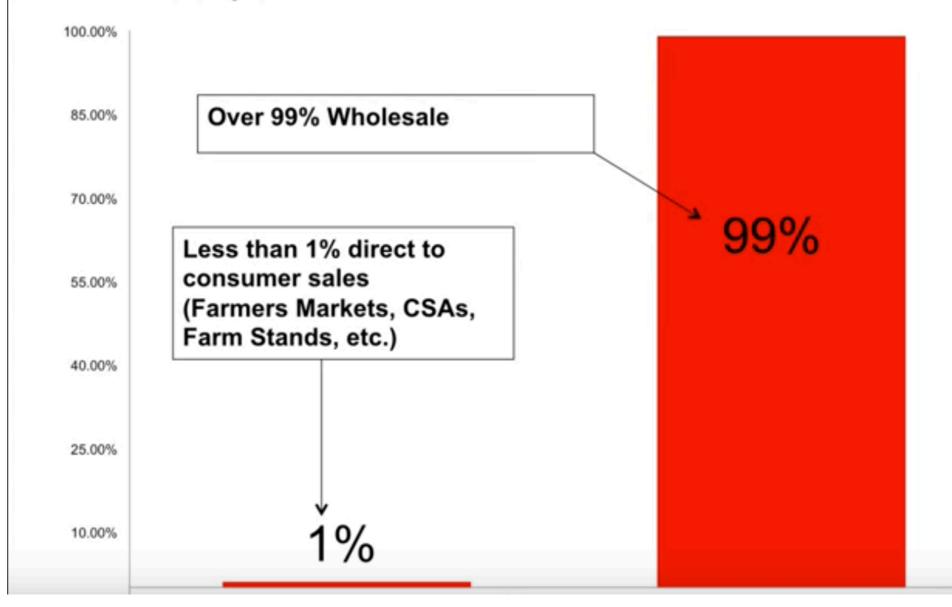
### Food Hub Sales Revenue by Category

[2015 National Food Hub Survey]



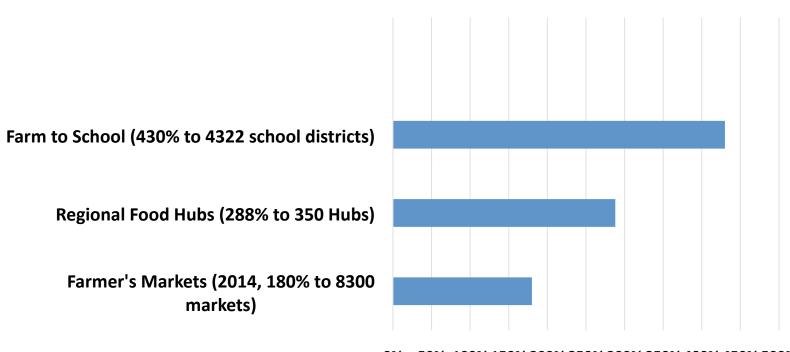
### Percent of farm products sold: Direct to Consumer v. Wholesale.

USDA 2012 Census of Agriculture



### **Growth in Outlets for Local Food 2006-2014**





0% 50% 100% 150% 200% 250% 300% 350% 400% 450% 500%

Series 1

### Food Hub benchmarking study Financial Models - Operational Period Comparison

[USDA Rural Development & Matson Consulting 2015]

### **Breakeven** (3-5 years) Covering Operating Expenses

#### Wholesale \$1,210,000 Revenues (\$950,252)**Total Variable Operating Costs** \$259,748 Variable Margin (Loss) (\$34,377)**Total Equipment Costs Total Facilities Costs** (\$43,280)Total Selling and Marketing Costs (\$5,000)General and Administrative Expenses (\$128,263)Unforeseen and Contingency Expenses (\$48,400)Baseline Earnings EBITDA (Loss) \$429

### Vitality From cash flow neutral to future growth

	Wholesale
Revenues	\$2,400,000
Total Variable Operating Costs	(\$1,857,308)
Variable Margin (Loss)	\$542,692
Total Equipment Costs	(\$44,693)
Total Facilities Costs	(\$45,916)
Total Selling and Marketing Costs	(\$5,305)
General and Administrative Expenses	(\$218,175)
Unforeseen and Contingency Expenses	(\$96,000)
Baseline Earnings EBITDA (Loss)	\$132,604
Interest Expense	(\$8,433)
Depreciation Expense	(\$16,071)
Net Income (Loss)	\$108,099

### Job & Income Creation Potential

For every \$100,000 of *new* sales of local food



2.2 jobs are created



\$77,000 of income is brought in \$7,000 in state & local taxes generated

**Source:** Dr. Steven Deller, Department of Agricultural and Applied Economics, University of Wisconsin-Madison

### **FEASIBILITY STUDY OVERVIEW**

### COLLABORATORS: Partners for Sustainable Healthy Communities and Northwest Hills COG

- Upper Housatonic Valley National Heritage Area
- Farmers

<u>FUNDING</u>: **CT Department of Agriculture** through the Community Investment Act.

#### **GOALS**:

- 1. Support local farms by helping to connect them to new & expanded sales channels.
- 2. Grow the agricultural economy of NW CT



Determine whether & what type of food hub could do this.









### FOOD HUB FEASIBILTY STEPS

The NWCT Food Hub Feasibility Study has successfully identified supply, demand and interest to warrant the development of a food hub.

Market Assessment

Understand supply, demand, infrastructure and competitive landscape. Determine optimal food hub business model. *Completed January 2016.* 

**Business Analysis** 

Forecast steady state pro forma, to determine financial viability. Make go/no-go decision. *Completed March 2016*.

Operator dentification

Search for and select operator (individual or existing business or nonprofit). *Completed October 2016.* 

**Business** Planning

Full plan detailing sales, operations, staffing, 5 year financials, fundraising requirements. *In process*.

**Fundraising** 

Develop uses and sources of funds strategy (grants, debt, equity). Secure funds. *In process*.

Launch

Launch food hub to prove concept and generate initial revenue. *Target Spring 2017.* 

### NWCT FOOD HUB MARKET ASSESSMENT INPUT PROCESS

- Kickoff meeting engaged 14 Steering Team and Advisory Council Members from the NWCT region
- Online survey, via Survey Monkey, received 66 producers and 23 buyers respondents
- Interviews with 9 producers, 7 buyers, and 5 food systems leaders
- Planning Forum had 18 producers, 5 buyers and 8 food systems stakeholders in attendance
- Reviewed input and conclusions with NHCOG and NWCTEDC

### **NWCT Food Hub Study Findings**

#### **Production Trends**

- 28 growers interested in selling into a NWCT food hub
- Interested producers generate 60-65% of sales through direct-to-consumer channels
- Food safety is limited: 14
   interested producers have an
   on farm food safety plan; none
   are GAP certified.

#### **Demand Trends**

- 21 NWCT buyers (grocery stores, distributors, institutions, and restaurants) interested in purchasing from a food hub
- Annual spend among these buyers: \$9.7M fresh produce and \$7.1M protein/dairy
- Buyers purchase 10-50% of their products locally already, often directly from farmers who completed the survey.

### 10 Keys to Success for Food Hubs

- 1. Clearly defined goals, vision and mission statement
- 2. Getting stakeholders engaged early in the process
- 3. Understanding market segments and how to access them
- 4. Having an education program and strategy
- 5. Learning and understanding customer requirements
- 6. Acknowledging the level and types of infrastructure investment
- 7. Determining the correct business structure/operating model
- 8. Determining the scale needed to operate efficiently
- 9. Identifying all sources of technical and financial support
- 10. Managing information efficiently for accurate information flow and transparent working relationships

Source: Matson Consulting & Colorado State University

#### Resources & Links

- USDA AMS (<u>www.ams.usda.gov</u>)
  - Research, publications, technical assistance resources, and grant program info
  - "The Economics of Local Food Systems: A toolkit to guide community discussions, assessments, and choices." (March2016)
- Ventures in Good Food Blog
  - www.newventureadvisors.net/blog/
- CT Dept. of Agriculture publications (<u>www.ct.gov/doag</u>)
  - A Guide for Municipalities: Department of Agriculture Programs and Services
  - Planning for Agriculture: A Guide for Connecticut Municipalities American Farmland
     Trust and the Connecticut Conference of Municipalities
  - Economic Impacts of Connecticut's Agricultural Industry (UConn 2010)
  - Grow Connecticut Farms First Annual Report, by the Governor's Council for Agricultural Development (2012)

### RHODE ISLAND FOOD SYSTEM 2015 SNAPSHOT

#### LITTLE COMPTON

POPULATION 3,492





# Massachusetts EOD SYSTEM PLAN

The plan will identify goals and strategies to:

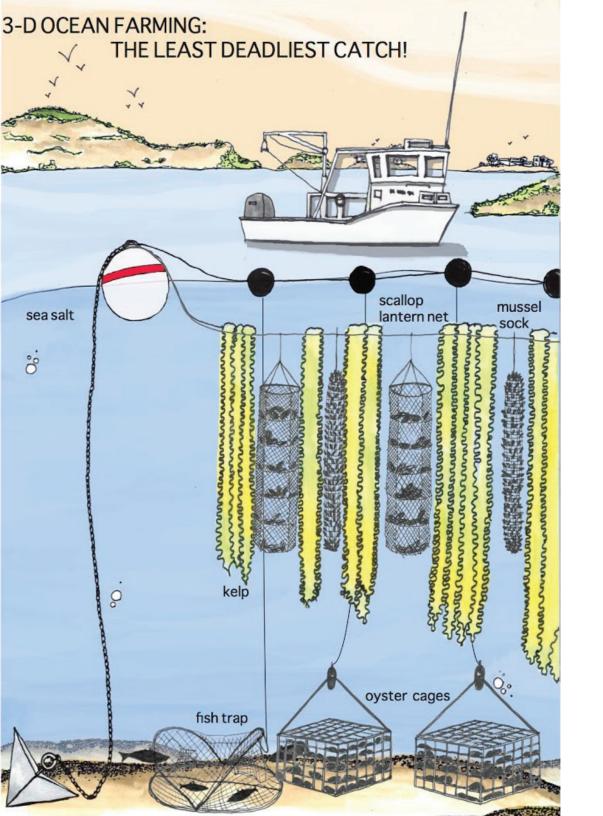
- Increase production, sales and consumption of Massachusetts-grown foods;
- **Create jobs** and economic opportunity in food and farming, and improve the wages and skills of food system workers;
- •Protect the land and water needed to produce food, maximize the environmental benefits from agriculture and fishing, and ensure food safety; and
- •Reduce hunger and food insecurity, increase the availability of fresh, healthy food to all residents, and reduce food waste.

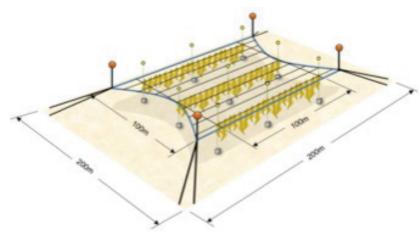


### 3D OCEAN FARMING

and the Restoration of Coastal Communities















Reimagine the seafood plate in the era of overfishing and climate change.



## SCALING FOOD SECURITY

One acre = 10-30 tons of kelp and 250,000 shellfish.

A network of farms the size of Washington state can feed the world.

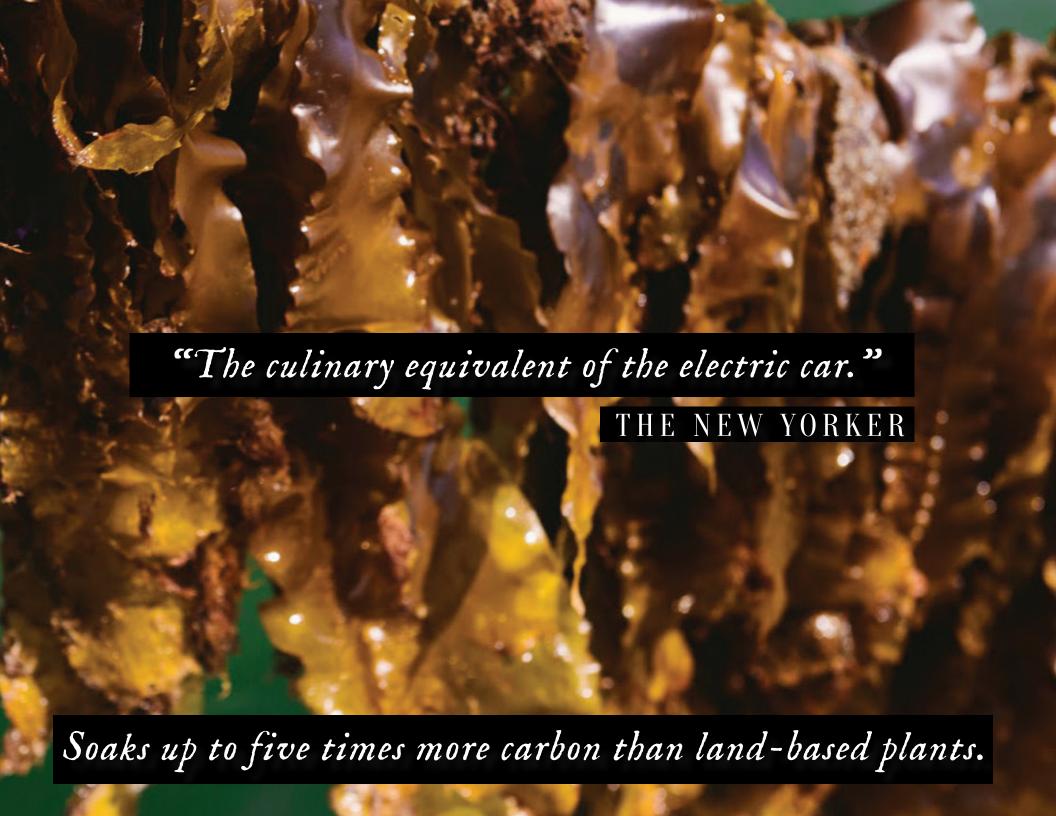
Zero input food: no freshwater, no fertilizer, no feed.

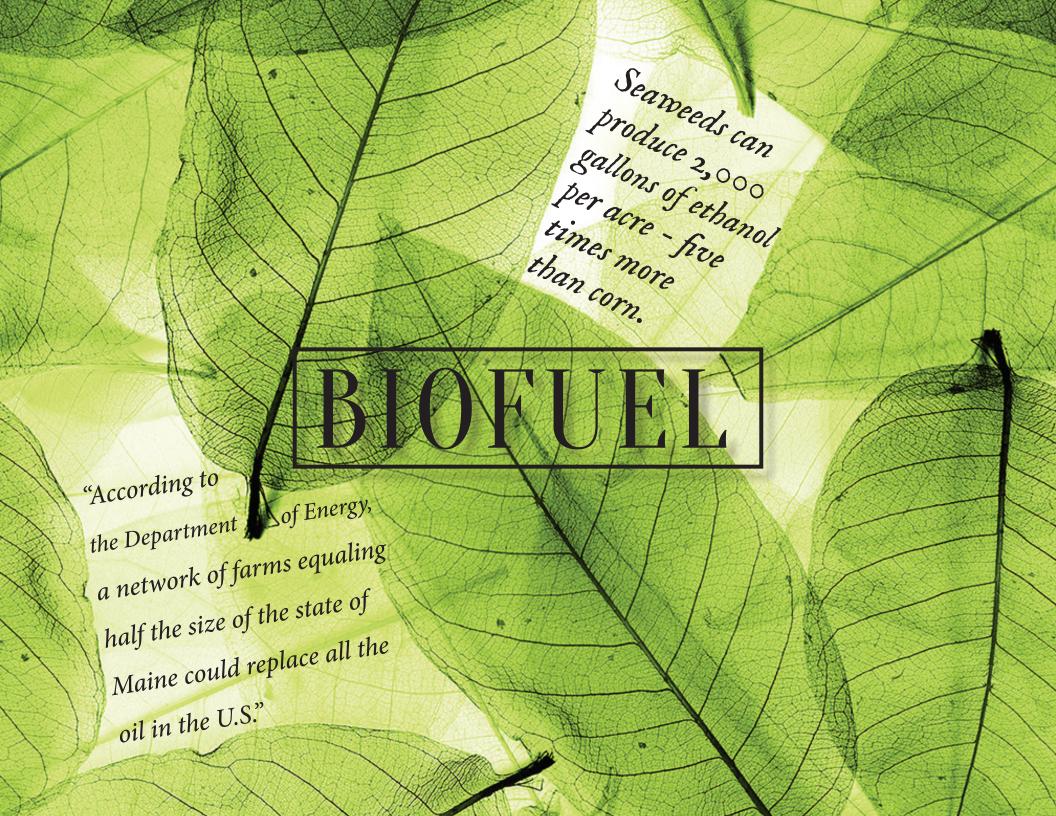
Most sustainable and affordable food on the planet.



Transforming fishers to restorative ocean farmers.









3.

Building the foundation of the new food system: jobs, justice and restorative economy.

## REPLICATION

Open Source

20 acres + a boat,

\$30,000





Designed around simplicity,

not complexity with low

capital costs and minimal

skills required.

20 acre farm
nets about \$130,000
and employs 2 full-time
and 5 seasonal employees.



#### NON-PROFIT VS. FOR PROFIT





- POLICY
- R&D



- ✓ INFRASTRUCTURE
- MARKET DEVELOPMENT
- INNOVATION



# FARMER TRAINING PROGRAM

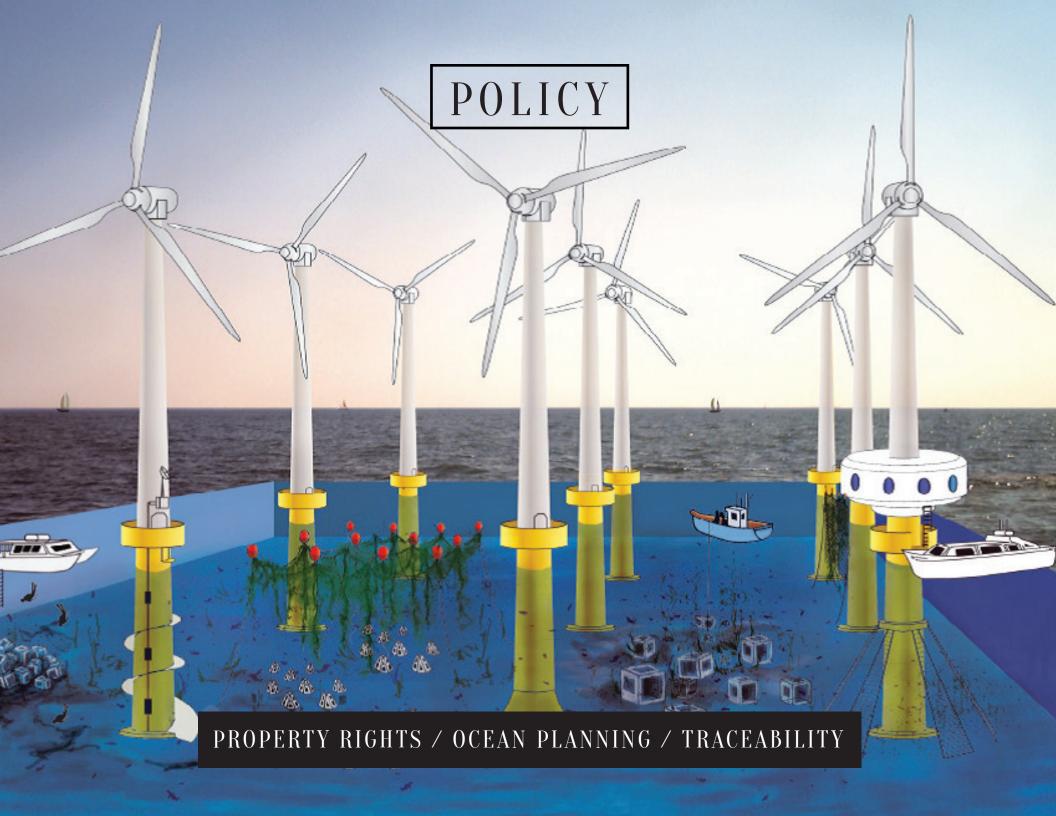
STARTUP GRANTS

FREE SEED

PERMITTING

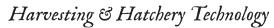
GEAR FROM PATAGONIA

GUARANTEED PURCHASING

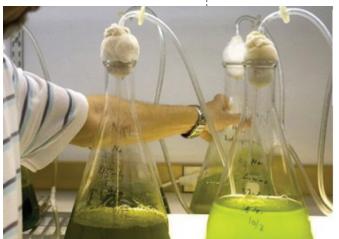




#### Pollution Farming











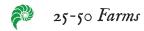




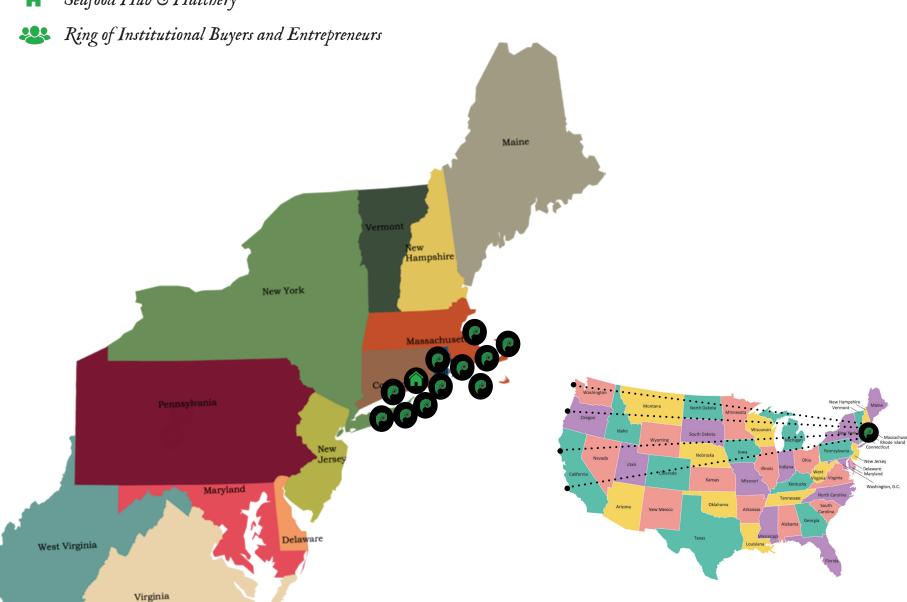




### GREENWAVE REEFS



Seafood Hub & Hatchery





#### MOVING TO SCALE

#### In frastructure



#### Market Development







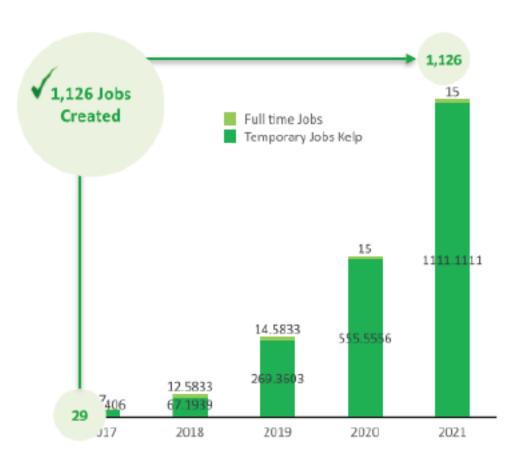


#### Innovation



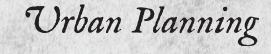
#### METRICS

- 11 new farm startups since 2014
- 9 new farmers enrolled in program In 2016
- Average of 5-10 new farmers per year
- 25 farms in New England waters by 2019



\*Temporary Jobs based on 90 pounds of Kelp processed per 8hr shift.

## FOOD JUSTICE



Living Wage

Open Employment

Ownership & Agency



#### Food Systems Resources

Cornell University Library Local and Regional Food Systems Resources List of local ( New

England and other regions) food systems projects and programs

http://guides.library.cornell.edu/c.php?g=31298&p=207466/home#s-lg-box-625594

**UC Davis Community Food Systems Bibliography** – resources by topic and case studies

http://asi.ucdavis.edu/programs/sarep/research-initiatives/fs/assessment/community-food-system-resources

**North Central Region County Food Systems Profiles** - Selected food systems resources by topic including food systems planning, food systems assessment, direct marketing, value chain development etc http://foodsystems.wisc.edu/resource.php

**Connecticut Food Systems Alliance** – Quarterly topical gatherings, networking https://ctfoodsystemalliance.com/

**Guides, reports, metrics, case studies pertaining to farm to institution strategies** and projects in the region - http://www.farmtoinstitution.org/

Network of new farmers in CT - http://newctfarmers.com/

**Consumer marketing for businesses that sell local food** or offer local agriculture experiences http://www.buyctgrown.com/

Extension programs related to sustainable food systems - http://sustainablefood.uconn.edu/



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