

## Sustainability

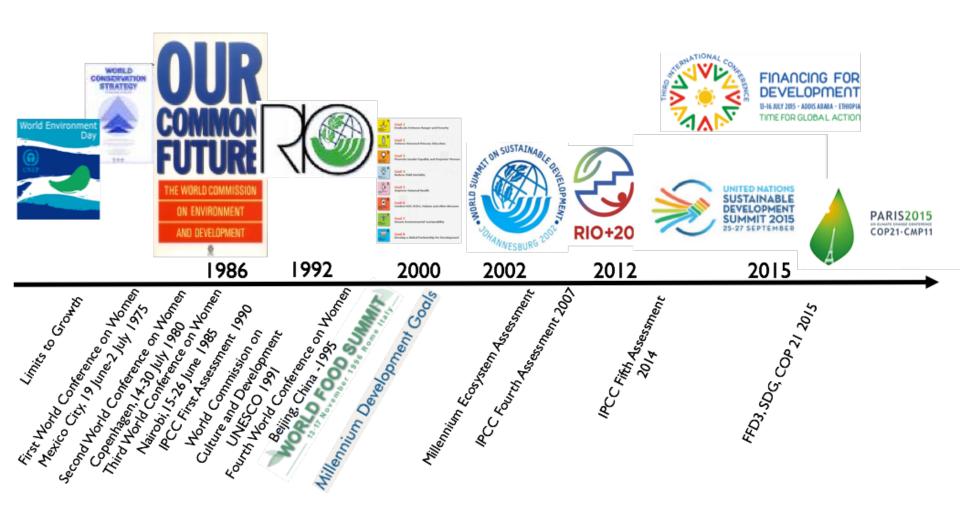
## Sustainability

# ustainabilit





## What Sustains Us?



## SUSTAINABLE GUALS



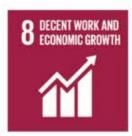






























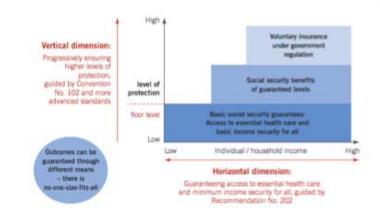




**UNH Sustainability Institute** 

Sendai Framework for Disaster Risk Reduction 2015 - 2030





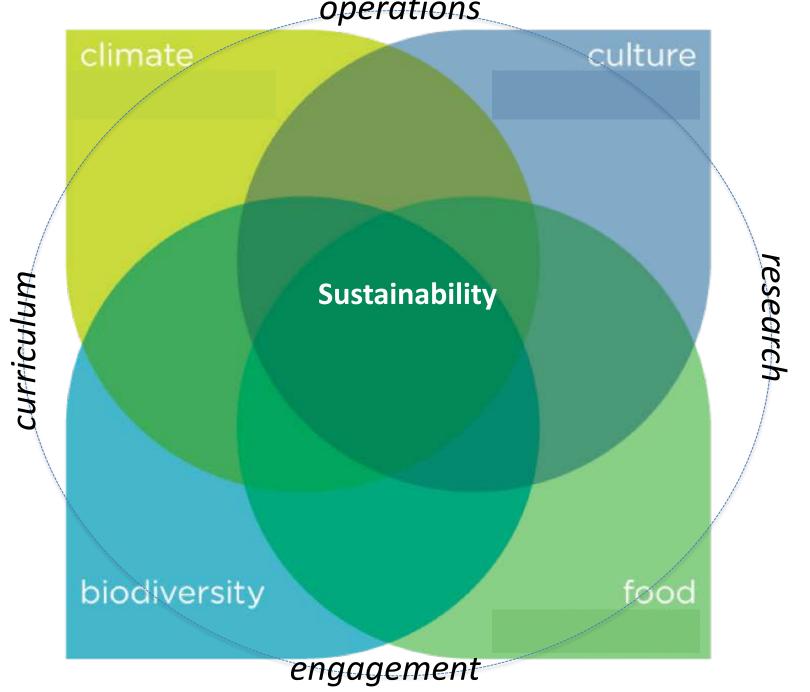




## Aichi Biodiversity Targets

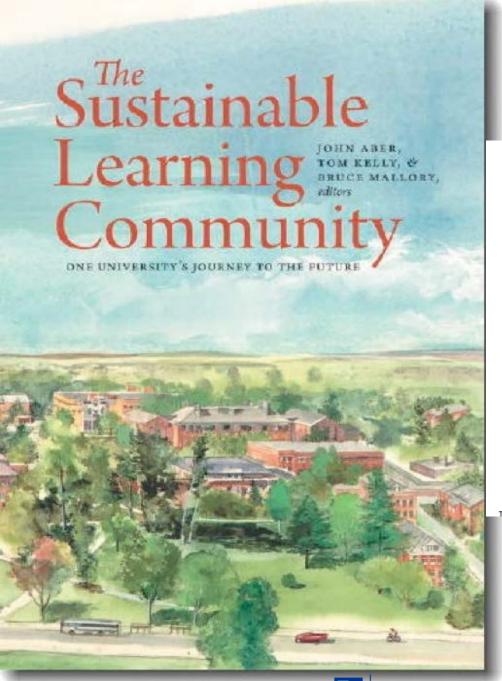


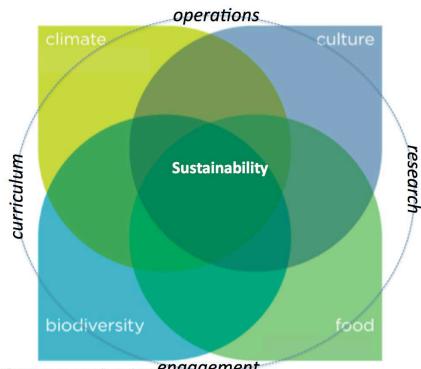




T. Kelly

MSU CRFS 2019





Tom Kellv UAS Spring Campus. Berlin. March 27-31**enagement** 

## The Community Teaches

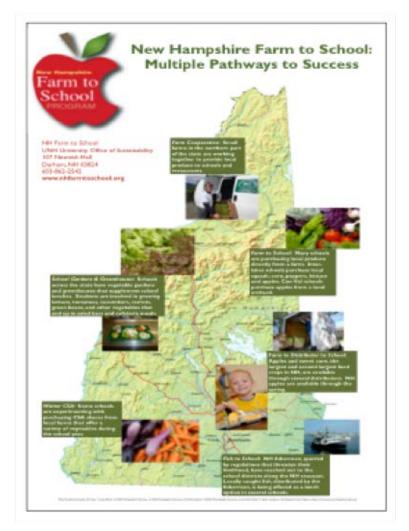


T. Kelly MSU CRFS 2019

## **NH Farm to School**

- ▶ More than 300 schools and 60 farmers participate
- Fish-to-school connections
- Increased direct sales from farms
- Increased school garden focus
- ▶Ongoing connection with Northeast Regional Farm to School and Farm to Institution New England (FINE) efforts

## 2003



## UNH Organic Garden Club 2003









**UNH Sustainability Institute** 





October 14, 2015 4:30pm to 7:30pm Holloway Commons, Stillings Dining Hall, Philbrook Dining Hall 11th Annual Local Harvest Dinner | UNH Tales

unh.edu

450 × 450 View file



### **Slow Food International Founder Carlo Petrini**

2006









### **Building Sustainable Food Communities:**

A Systems Approach to Integrating Agroecology, Food and Nutrition at the University of New Hampshire



2006-2007 2 Workshops > 40 UNH Faculty/ Staff



2008

## **UNH Organic Dairy Farm** Agroecosystem Study





### Farming For the Future

College of Life Sciences and Agriculture Spring 2008 Seminar Series

#### February 13

Organic Standards for Animal Health and Welfare? Act Now Before It's Too Late Kathleen Merrigan, PhD; Tufts University

#### February 27

Think Like A Cow - Understanding Grazing Behavior

Kathy Soder, PhD; University Park, PA

#### March 12

#### Pasture Management in an Organic Dairy System

Rick Kersbergen, Extension Professor, University of Maine

#### March 26

Organic Agroecosystem Management for Sustainability: a Below Ground Perspective.

Johan Six, PhD; University of California at Davis

#### April 2

#### Organic Dairy Farming: Veterinary Challenges and Opportunities

Hue Karreman, DVM; Penn Dutch Cow Care and Affiliate Assistant Professor, UNH

#### April 16

#### Holistic Heard Health From the Ground Up

Paul Detloff, DVM; Staff Veterinarian, Organic Valley

#### April 30

#### Sustainability and Profitability of Organic Dairy Farming

Francis Thicke, PhD; Radiance Dairy, Iowa

Ed Maltby, Executive Director; Northeast Organic Dairy Producers Alliance

#### May 7

#### What Do Studies Comparing Organic and Conventional Farming Tell Us?

John Reganold, PhD; Washington State University

## Sustainable Ecosystems Faculty Strengths & Synergies



Kirk Broders



Andre Brito



Organic Dairy Research & Nutrition



Becca Rowe

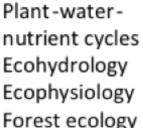
Wildlife Landscape Interactions Historical ecology



Soils Biogeochemistry Microbial ecology



Heidi Asbjornsen





Biodiversity -Agroecosystem Function Cropping systems





Iago Hale

Plant breeding, plant genetics/ genomics, complex trait dissection

Wil Wollheim





COLSA Home UNH Home Program Home

Search

4-YEAR DEGREES FARMS & FACILITIES FACULTY & STAFF CAREERS

#### Academics

B.A. Degree

B.A. Requirements

B.S. Degree

**B.S.** Requirements

Honors in Major

Featured Courses

Experiential Learning

Field Experience

Undergraduate Research

#### Related Opportunities & Connections

Dual Major in Ecogastronomy

NH Agricultural Experiment Station

Organic Garden Club

UNH Cooperative Extension

**UNH Sustainability** Academy

### Major in Sustainable Agriculture and Food Systems

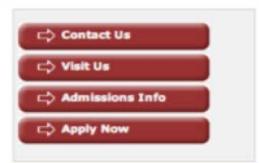


Undergraduate student research assistants sample cantaloupes that are being grown as part of an experiment to evaluate varieties for New Hampshire's short growing season.

#### Sustainable Agriculture and Food Systems Quiz

Which breed of cattle are raised at the UNH Organic Dairy Research Farm?:

Holstein







MYUNH UNH.EDU

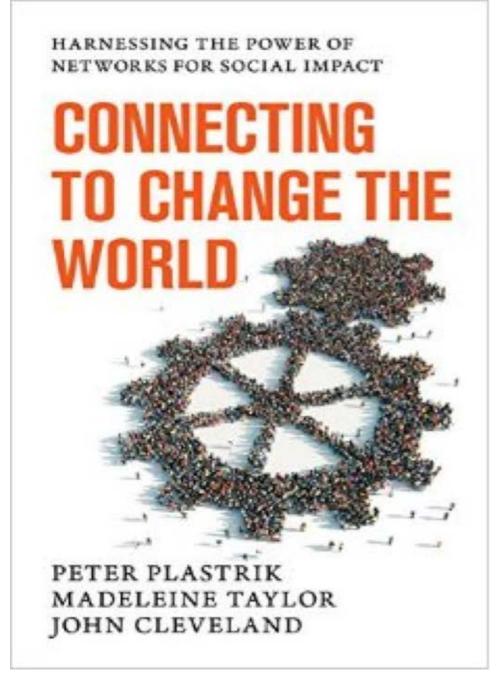
#### Agriculture, Nutrition, and Food Systems

Academics People Research Opportunities Facilities About

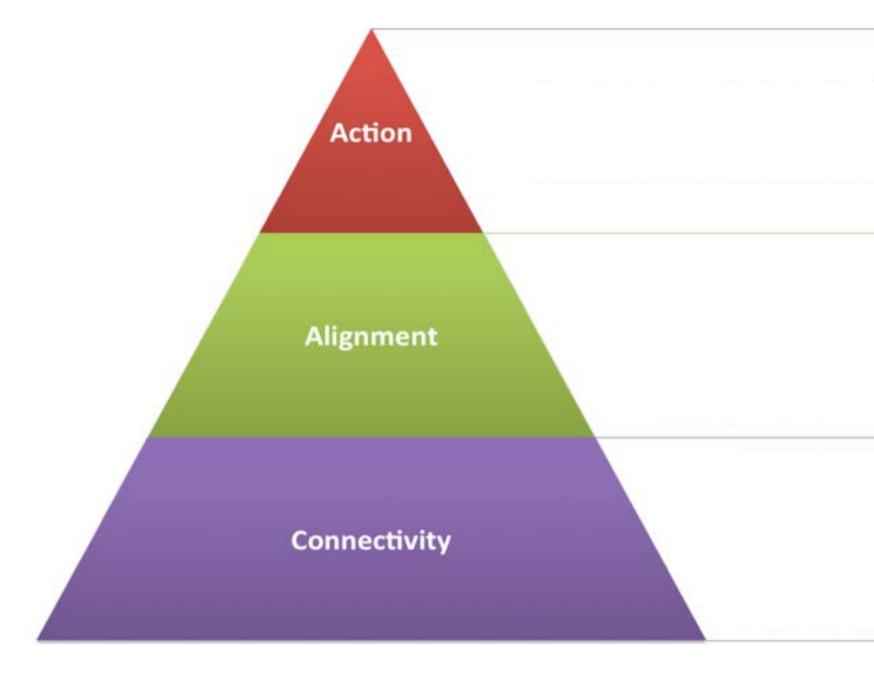
Search Agriculture, Nutrition, and Food



EXPLORE THE DEPARTMENT OF AGRICULTURE, NUTRITION, AND FOOD SYSTEMS



Networks
where systems and
sustainability can come
together





## **NH FOOD ALLIANCE**

Growing food, economy, and community







WHO WE ARE SIX STATES, ONE REGION GET INVOLVED NEWS & RESOURCES A NEW ENGLAND FOOD VISION













## Thought Leadership Network Leadership

The power of Ideas

The Power of Trust

The Power of Values
The Power of Alignment



## Thought Leadership

The power of Ideas

The Power of Values



## A New England Food Vision



- Healthy Food for All
- Sustainable Farming and Fishing
- Thriving Communities





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#### A NEW ENGLAND FOOD VISION

## Thinking Big & Bold: How the Kendall Foundation Is Transforming New England's Food System

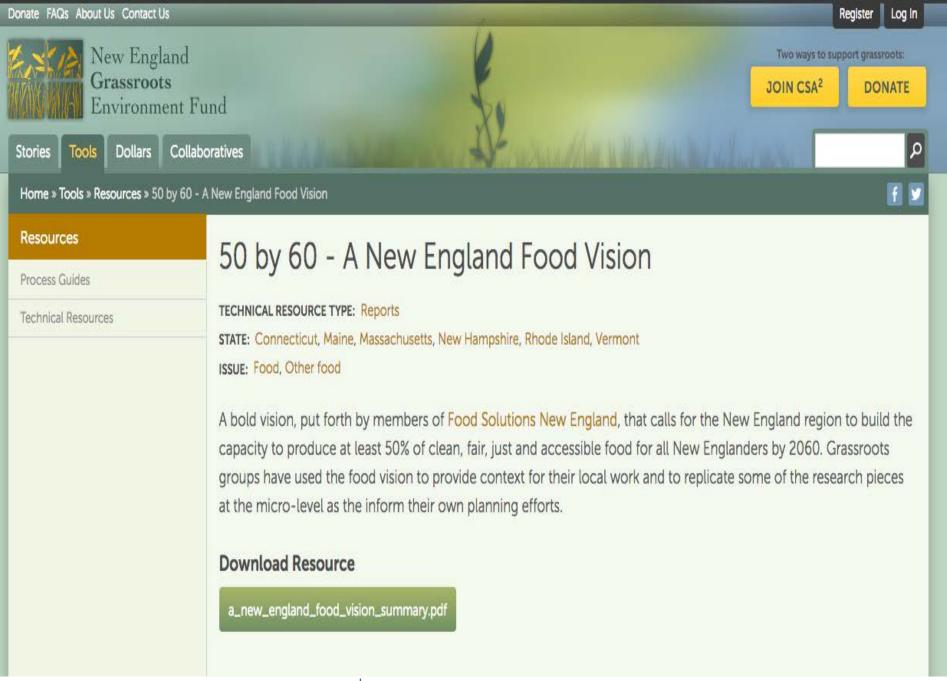
FEBRUARY 9, 2017 / LEAVE A COMMENT



Vision with a strong footing. Recognizing the merits of, and providing support for, a report entitled *A New England Food Vision*, Kendall Foundation embraced the vision of "50 by 60" (from Food Solutions New England). That is, by 2060, 50% of New England food will come from New England. This document is a thorough, pragmatic

look at what it will take to reach that goal in terms of acres of farmland, types of food, dietary requirements, etc.

T. Kelly



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#### Mission & Vision Statement

Mission: The Sustainable Business Network (SBN) engages business and community leaders in building economies that are local, green and fair.

#### Our Vision:

SBN was founded in 1988 as the nation's first business trade association with a mission of making business a vehicle for social, environmental, and economic change. Since then, SBN and our allies have raised the bar for what's expected from the business community. During this time, we've witnessed the immense potential that local entrepreneurs have for doing good.

SBN envisions a resilient world economy composed of thousands of inter-connected local economies that benefit the lives of all people and all living things. SBN endeavors to build a successful model in Massachusetts and New England that inspires others to join with SBN in growing the sustainable economy movement.

Successful local entrepreneurs are influential thought-leaders and the primary job creators. When acting together, visionary and values-driven business leaders can have an extraordinary influence on our communities and local economies. By building a movement of small and mid-sized businesses and allies who share our mission to grow an economy that is local, green, and fair, we're creating a vibrant, caring community and a sustainable future.

#### We do this by:

- Supporting the long-term growth of thousands of small and mid-sized local and independent businesses.
- Building the sustainable economy movement led by diverse business and community leaders and creating a network of allied organizations.
- Championing initiatives and business practices that mitigate climate change.
- Working to transform the local food system so that by the year 2060, 50% of all food eaten by New Englanders is sourced from New England.
- Advocating for public policy and legislation that positively impacts the growth of a strong, sustainable economy.
- Promoting a heart-centered and healthy culture that is grounded in our core values of love, collaboration, and compassion.



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**ABOUT** 

EMAIL UPDATES









# **NESAWG**

Northeast Sustainable Agriculture Working Group THE REGION'S FOOD AND FARM NETWORK

Home > Resources >

#### A NEW ENGLAND FOOD VISION

**Publication • Food Systems** 

YEAR OF PUBLICATION: 2014

**AUTHORS:** Food Solutions New England

A New England Food Vision describes a future in which New England produces at least half of the region's food—and no one goes hungry. It looks ahead half a century and sees farming and fishing as important regional economic forces; soils, forests, and waterways cared for sustainably; healthy diets as a norm; and access to food valued as a basic human right. Developed by Food Solutions New England, it proposes changes in food production, distribution, and consumption reaching from the most rural areas to the densest cities—across the entire food system. It envisions New Englanders in 2060 eating more diverse and healthier foods than today, with three times as much land (15% of the region, or 6 million acres) producing food: several hundred thousand acres in and around cities devoted to intensive production and several million acres of rural farmland abandoned since World War II supporting crops and livestock.





**NEWS & VIEWS** 

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#### **50 BY 60 A NEW ENGLAND FOOD VISION**

Food Solutions New England

October 21, 2014





















A New England Food Vision is a collaborative report that considers the future of our region: a future in which food nourishes a social, economic and environmental landscape that supports a high quality of life for everyone, including generations to come.



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#### Sign up for the Weekly Harvest Newsletter!

Published every Wednesday, the Weekly Harvest e-newsletter is a **free** Web digest of sustainable agriculture news, resources, events and funding opportunities gleaned from the Internet. See past issues of the Weekly Harvest.

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Sign up for the Weekly Harvest Newsletter

What Is Sustainable Agriculture?

T. Kelly

Home > Breaking News

# **Breaking News**

Search the News

#### A New England Food Vision Released

Food Solutions New England (FSNE) has released *A New England Food Vision*. This 48-page document starts a dialogue on the future of food in the region, recognizing that food is a powerful determinant of all aspects of quality of life. Additionally, the vision document reflects the principle that New Englanders can and should pursue a future in which food nourishes a social, economic, and environmental landscape that supports a high quality of life for everyone, for generations to come. *A New England Food Vision* describes a future in which New England produces at least half of its own food—and no one goes hungry. Core values include food rights, healthy eating, sustainability, and community vitality.

\_\_\_

**UNH Sustainability Institute** 

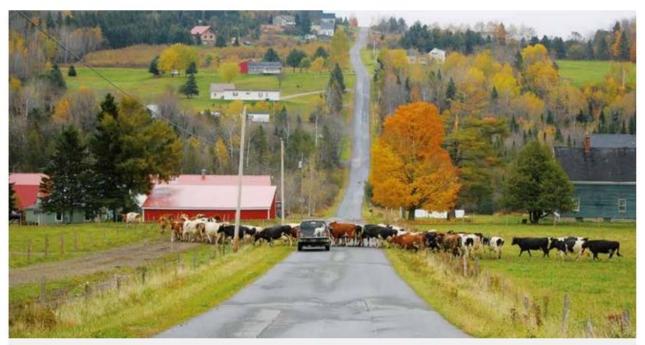




Published on Tuesday, October 21, 2014 by New England New Economy Transition

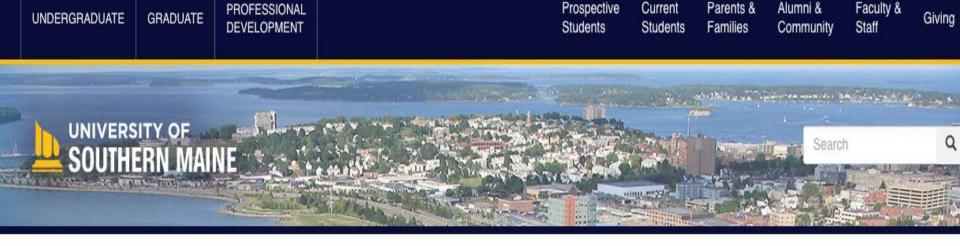
### New England Can Feed Itself: A Vision for Regional Food Resilience

by Sarah Byrnes, Orion Kriegman



A resilient regional food system can work, argue food experts, but the existence of a shared vision is key. (Photo: Chase's Farm / Laura Chase / foodsolutionsne.org)





\* Muskie School of Public Service A New England Food Vision

COSTS &

FINANCIAL AID

#### TODAY'S HOURS

MAJORS, MINORS,

& PROGRAMS

MAY 19, 2017

Office Hours

8:00AM - 4:30PM

# MUSKIE SCHOOL OF PUBLIC SERVICE

ATHLETICS

A New England Food Vision

ADMISSIONS

#### Abstract:

A New England Food Vision proposes changes in food production, distribution, and consumption reaching from the most rural areas to the densest cities—across the entire food system.



**UNH Sustainability Institute** 

MSU CRFS 2019

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Sun June 4 2017

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SPORTS

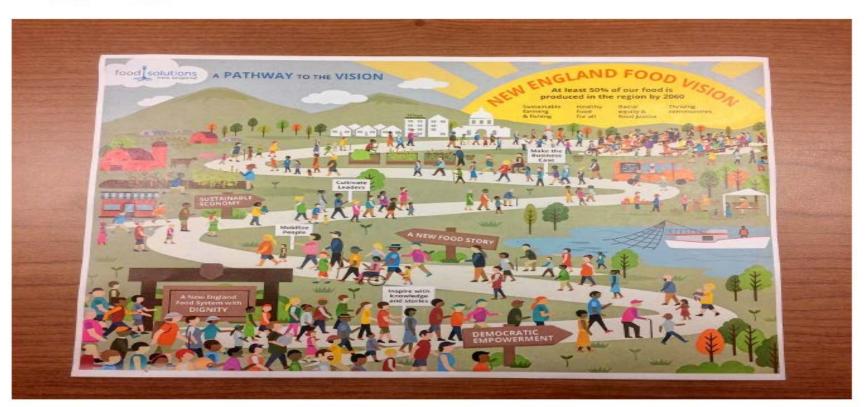
OBITUARIES

OPINION

POLITICS

**ARTS & LIFE** 

# New England Food Summit: Inclusion, dignity for all



The "50 by 60" New England Food Vision - aiming to have 50 percent of New England's food produced locally by 2060 - is being discussed by regional food system players this week. ELODIE REED—Monitor staff » Buy this Image

By ELODIE REED

Monitor staff



ROSE LINCOLN FOR THE BOSTON GLOBE.

# New England deserves a regional food plan

Better coordination would cut down on duplicative efforts and inefficiencies.

By The Editorial Board







WATCH LIVE ▼

WEATHER -

COMMUNITY -

MASS APP

#### Group wants to increase food accessibility in **WMass**

"50-60" vision: For New England to produce 50% of its food by 2060

Barry Kriger

Published: March 26, 2015, 10:21 pm | Updated: March 26, 2015, 11:35 pm











SPRINGFIELD, Mass. (WWLP) - The Springfield Food Policy Council hosted a conversation about the "future of food" in New England.





#### **Students stumping for scup**



The goal, she said, is to have 50 percent of food coming from local sources by 2060.











# Friday Posted Apr 10, 2015 at 11:15 PM Updated Apr 12, 2015 at 10:27 AM



Culinary students at Johnson & Wales University have been working for weeks to develop recipes and ways to popularize the fish.

By Donita Naylor / Journal Staff Writer

#### Share



Sunday Jun 4 2017

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**OBITUARIES** 

**OPINION** 

**ARTS** 

LIFE



Greater Northampton's #1 Real Estate Agency for Residential and Commercial Sales since 1986

#### Education

# UMass groups to look at how New **England can produce half its own food** by 2060

By DAVE EISENSTADTER @DaveEisen

Tuesday, April 21, 2015



**UMASSNEWS** 







in

G+

NSF INFEWS/T1: Modeling Water System and Societal Constraints on Increasing Regional Production of Food and Energy in New England (March 2017)

Food Production Scenarios: Currently, four of the six New England States have statewide food system plans or strategies (MAPC, 2015; New Hampshire Food Alliance, 2015; Maine Food Strategy, 2016; Vermont Sustainable Jobs Fund, 2013). While Rhode Island does not yet have a statewide plan, it has assessed its food system and identified action areas to inform the planning process (Karp & Partners, 2016). A common focus across these documents is expanding food production and/or the agricultural land base. A New England Food Vision describes a future in which New England produces at least half of the region's food by 2060 via an expansion of agricultural lands from 2 million to 6-7 million acres (Donahue et al., 2014). Food Solutions New England's commitment to furthering this vision has been codified in a series of annual New England food system summits beginning in 2011.





ABOUT STATES SECTORS PARTNERS PROJECTS ACT TOOLS BLOG

## Vision

By 2030, we envision New England institutions and the FINE network playing leadership roles in cultivating a region that is moving towards self-reliance. We envision an equitable and just food system that provides access to healthy and abundant food for all New Englanders, and is defined by sustainable and productive land and ocean ecosystems.



FINE's vision is in alignment with those of many other food system entities, including the New England Food Vision created by Food Solutions New England. The vision we hold places emphasis on both the way that institutions and the farm to institution network will be operating, and the cultural conditions we see existing by 2030.

EXECUTIVE SUMMARY May 2017



The **Rhode Island Food Strategy** envisions a sustainable, equitable food system that is uniquely Rhode Island; one that builds on our traditions, strengths, and history while encouraging innovation and supporting the regional goal of 50 percent of the food eaten in New England be produced in the region by 2060.



FOOD STRATEGY

AN ACTIONABLE VISION FOR FOOD IN RHODE ISLAND



#### **INTEGRATED FOCUS AREAS:**

Preserve & Grow Agriculture, Fisheries Industries in Rhode Island Enhance the Climate for Food & Beverage Businesses

Sustain & Create Markets for Rhode Island Food, Beverage Products Ensure Food Security for all Rhode Islanders

Minimize Food Waste & Divert It from the Waste Stream



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#### Tag Archives: New England Food Vision



Amanda Beal: A New England Food Vision

by Ellen Sabina / on March 16, 2017 / in food, future, Latest MFT News

#### New England Food Vision Prize

For food service leaders on New England's college and university campuses to advance their big ideas.

About | Need | Criteria | Process | FAQ

#### **ABOUT**

Launched by the Henry P. Kendall Foundation, the New England Food Vision Prize is an award of up to \$250,000 that will allow the region's food service leaders at college and university campuses to launch bold and innovative ideas that will positively impact New England's food system. The Foundation will award up to six such prizes this year.







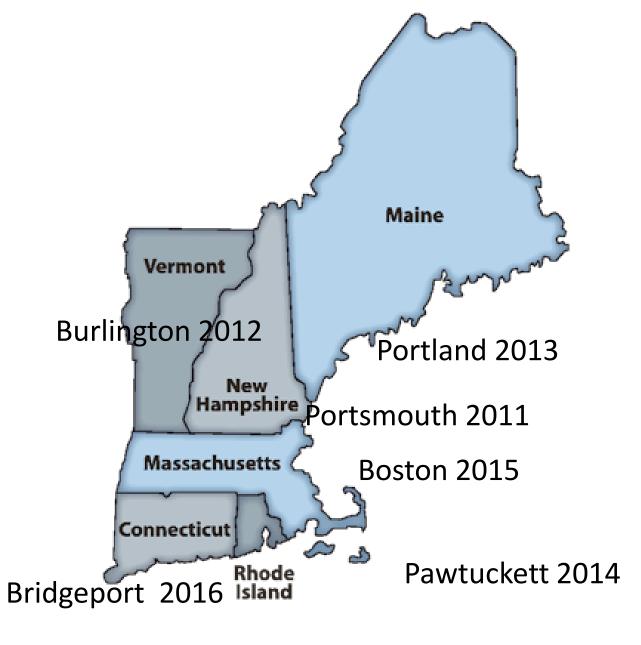


# Thought Leadership Network Leadership

The power of Ideas

The Power of Trust

The Power of Values
The Power of Alignment



6 regional summits ~ 800 delegates



All Six New England State Food System Planning "Backbone Organizations" are active members of the FSNE Network Team and Participate in a "Community of Practice.

#### Participating States



#### Connecticut

We envision a Connecticut where everyone has access to safe, nutritious, culturally appropriate, and affordable food.



#### Maine

Maine is a state rich in scenic beauty and natural resources with the potential to produce an abundant amount of food.



#### Massachusetts

Massachusetts has a rich and diverse food system - from varied agriculture. to innovative food processing facilities, to initiatives to improve the health and affordability of food in its communities.



#### **New Hampshire**

During the past decade, NH has experienced a dramatic rediscovery of land, local foods and farm and fishing enterprises.



#### Rhode Island

The Rhode Island Food Policy Council's work is coordinated by a statewide collaboration of diverse, committed and engaged stakeholders from all sectors of the food system.



#### Vermont

Vermont's Farm to Plate Initiative is weaving together the components of Vermont's food system to strengthen the working landscape, improve the profitability of farms and food enterprises, maintain environmental resilience, and increase local food access for all Vermonters.

T. Kelly

**MSU CRFS 2019** 







Marilyn Moore

Karin Spiller

Julius Kolawole

# FSNE Ambassadors: Who Participates Matters



#### **Fishing For Justice** (



















food solutions new england





WHO WE ARE | SIX STATES, ONE REGION | GET INVOLVED | NEWS & RESOURCES | A NEW ENGLAND FOOD VISION

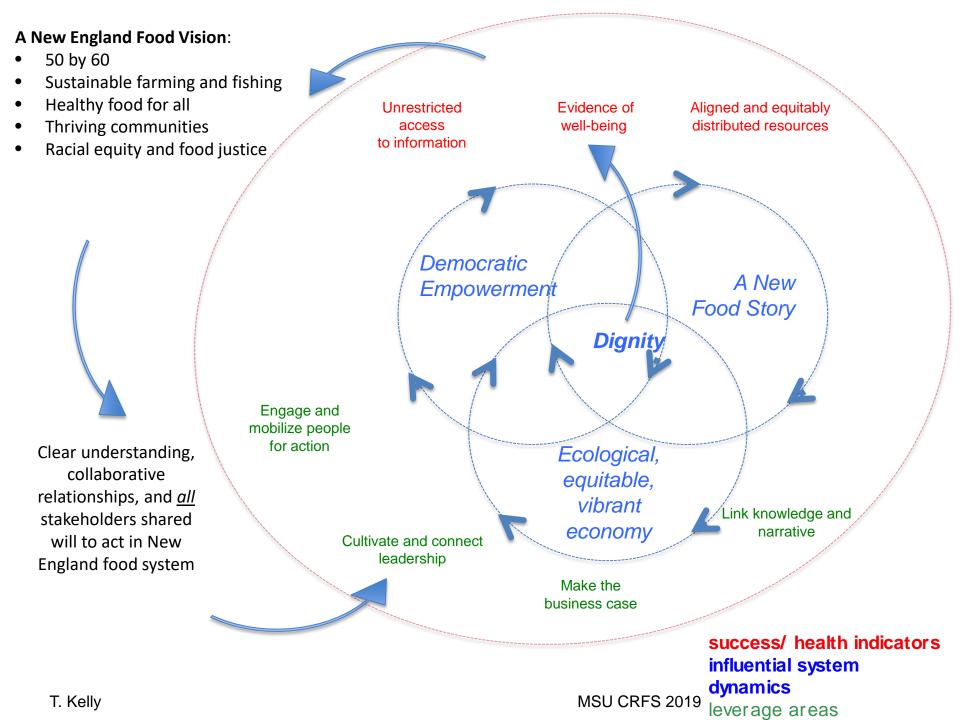


# 21-Day Racial Equity Habit Building Challenge













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# Food Solutions New England Network Leadership Institute





WHO WE ARE SIX STATES, ONE REGION GET INVOLVED

**NEWS & RESOURCES** 

A NEW ENGLAND FOOD VISION

#### What We Believe

#### Our Values

The Food Solutions New England network is guided by these values:

#### **Democratic Empowerment:**

We celebrate and value the political power of the people. A just food system depends on the active participation of all people in New England.

#### Racial Equity and Dignity for All:

We believe that racism must be undone in order to achieve an equitable food system. Fairness, inclusiveness, and solidarity must guide our food future.

#### Sustainability:

We know that our food system is interconnected with the health of our environment, our democracy, and our economy. Sustainability commits us to ensure well-being for people and the planet now and in the future.

#### Trust:

We consider trust to be the lifeblood of collaboration and collaboration is key to our long-term success. We are committed to building trust across diverse people, organizations, networks, and communities to support a thriving food system.

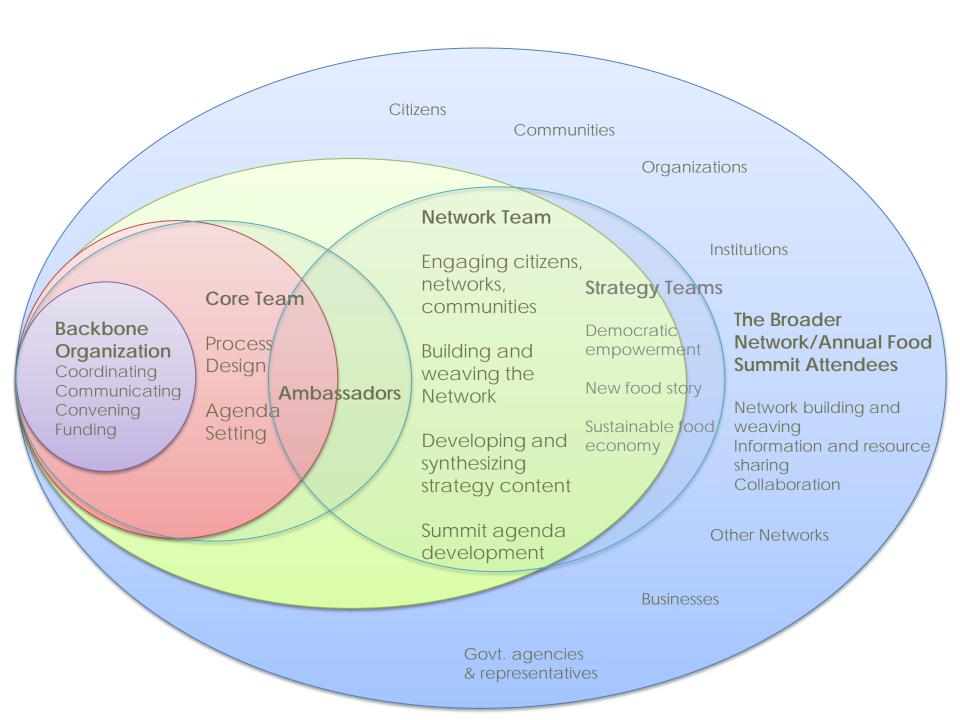


# Explore A New England Food Vision

A bold vision that calls for our region to build the capacity to produce at least 50% of our food by 2060 while supporting healthy food for all, sustainable farming and fishing, and thriving communities.

Explore the Vision

About the Vision





Backbone

Organization

Comms/Curation

Coordination

Convening

Funding



Communities

Strat /proj **Team** 

Organizations



The Broader

weaving

sharing

**Network/Annual Food** 

Information and resource

**Summit Attendees** 

Network building and

Ambassadors inclusion Bridging

Process Team

Process Design

Agenda

Network Leadership

Inclusion

Setting

Network Team

Ingaging citizens, networks,

synthesizing strategy content

Summit agenda

Govt. agencies & representatives

communitie

Building and weaving the Network

Developing and

development

Strat

/proj

**Team** 









Strat

/proj

Team



- ~ 25 Network Team meetings (1-2days)
- ~ 36 Core Team meetings (1-2 days)
- ~ 35 Summit Steering Committee Meetings
- >200 Backbone Team Meetings
- 6 regional summits ~ 800 delegates
- 6 Ambassador meetings
  - 2 Network Leadership Institute
- > \$2M

#### OTHERING & BELONGING

EXPANDING THE CIRCLE OF HUMAN CONCERN

ISSUES

ABOUT

**CALL FOR SUBMISSIONS** 

CONFERENCE

CONTACT







### **New Food Narrative**

- Social Science of Frames and Framing
- Speaking to Values
- Power of Values
- Narrative Strategies

RFP Process





# State of the New England Food System Report

- Dash Board Indicators
- Transparency/Accountability

Tracking Trends

Qualitative data/cases



# New England Farm, Fisheries and Food Bill

- Re-imagining Farm/Fish/Food Bills from a New England Food Perspective
- Unified Regional Voice

 Local, State, Federal Pathways to Vision



# The People's Guide to the New England Food Vision

 Network-sourced tools and strategies for organizing

 Speaks to the Food Citizen with political Agency

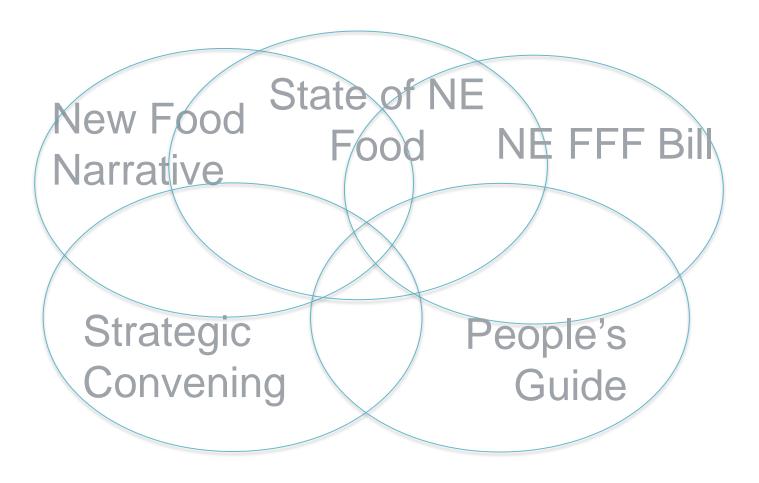
 Facilitates Participation and Engagement



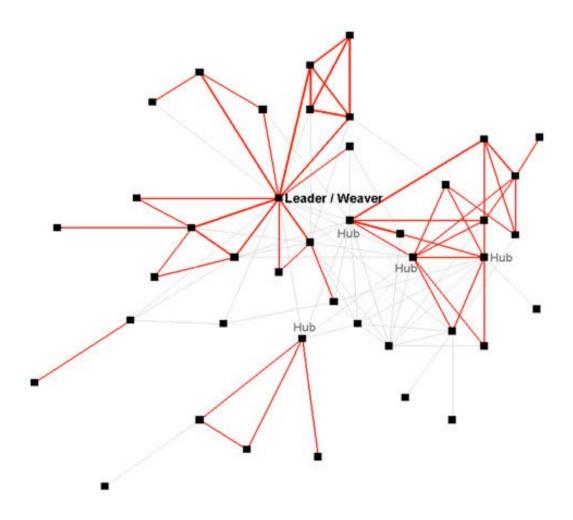
# Strategic Convening

- New England Dairy
- New England Fisheries
- Strategic Partnerships and Co-Organizing
  - Engaging Tensions Within the System

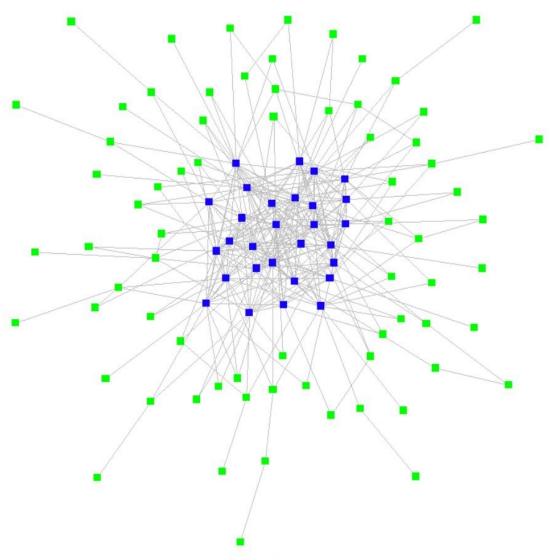




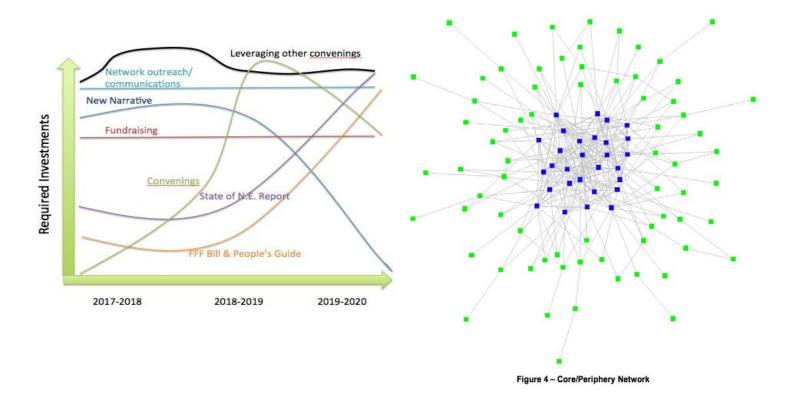
# Multi-Hub Small World Model



# Core Periphery Model



# 3-Year Timeline



Poverty and

marginalization

Technological

choice



Environmental

degradation and

resource depletion

Population size

and growth

Increasing

income

disparity

Economic

volume and

pattern

CRITICAL TRENDS