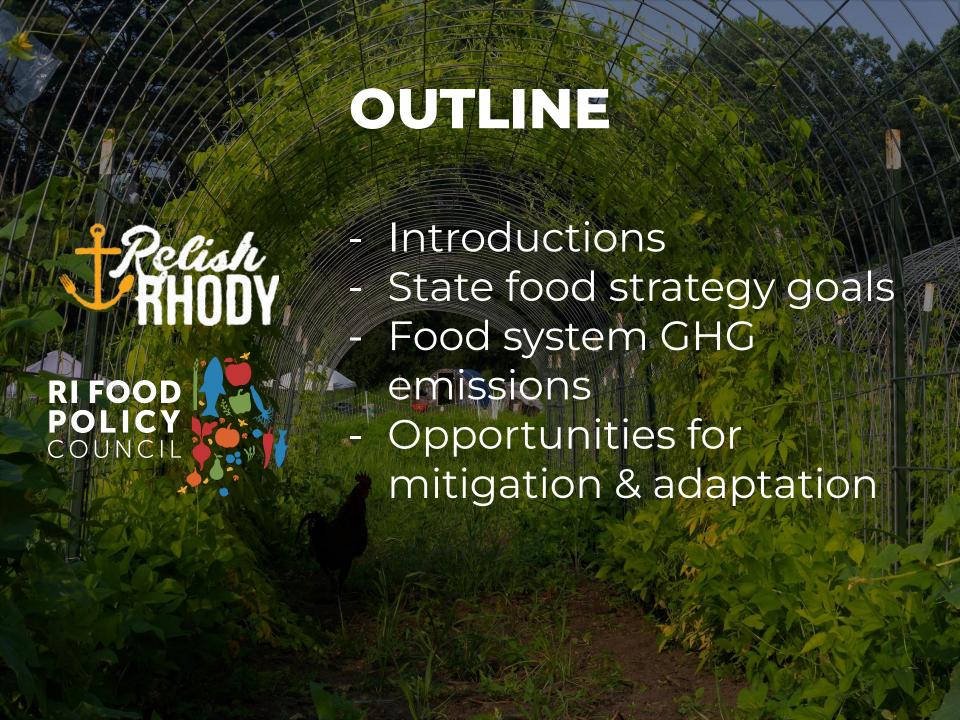


#### **EC4 ADVISORY BOARD MEETING** • APRIL 27, 2022



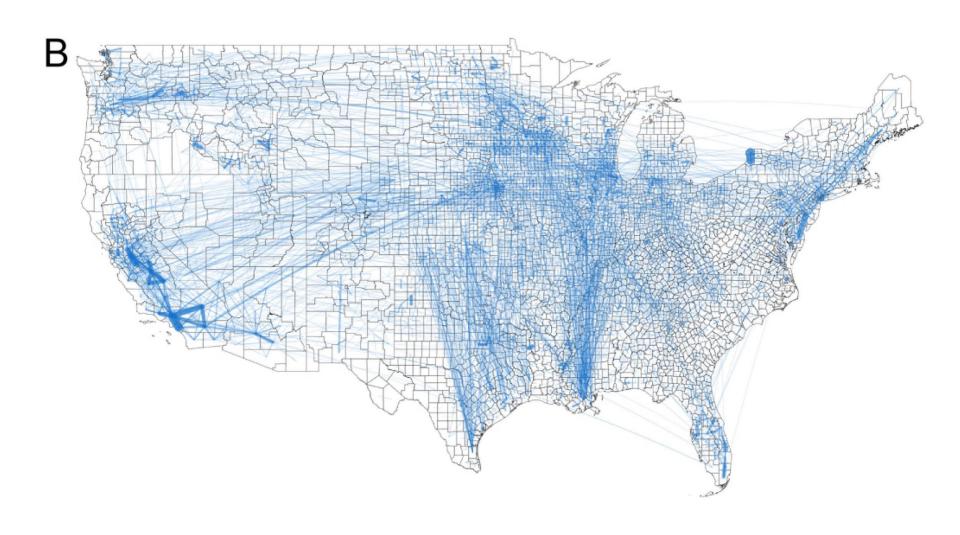


Julianne Stelmaszyk | Director of Food Strategy, RI Commerce Nessa Richman | Network Director, RI Food Policy Council

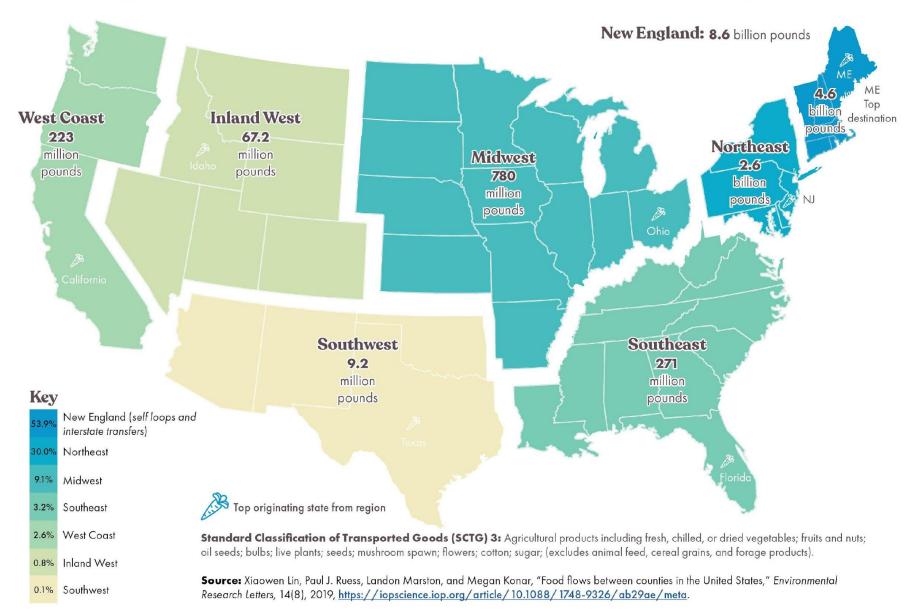




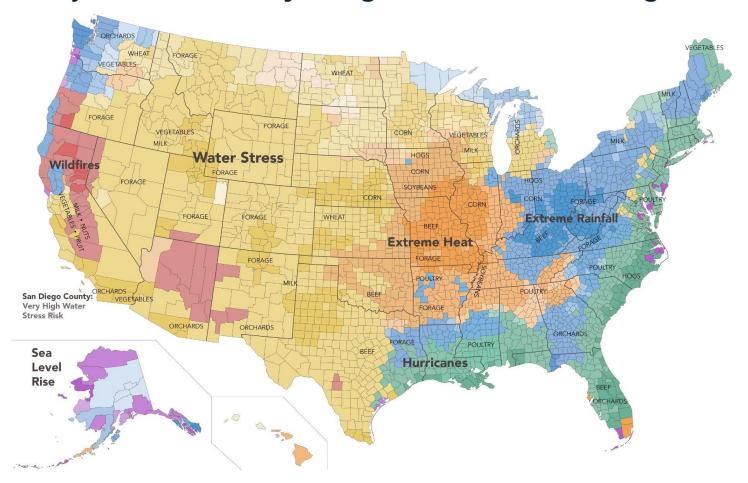
# Food Flows: Downscaled to All Counties



## Agricultural Product (SCTG 3) Flows Into New England



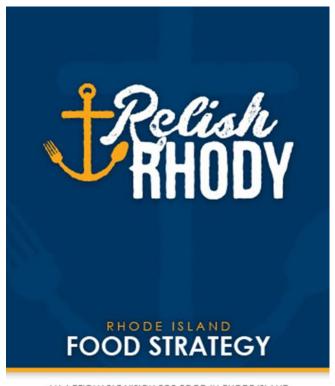
### Major Climate Risks by US Agricultural Production Regions



Sources: Stuart A. Thompson and Yaryna Serkez, "Every Place Has Its Own Climate Risk. What Is It Where You Live?," The New York Times, www.nytimes.com/interactive/2020/09/18/opinion/wild-fire-hurricane-climate.html. Based on data from Four Twenty Seven. Major agricultural products data based on USDA Ag Atlas Maps.

# **FOOD STRATEGY PRIORITIES FOR 2022**

In 2017, RI launched its first-ever statewide food strategy envisioning a sustainable, equitable food system that is uniquely Rhode Island; one that build on our traditions, strengths, and history while encouraging innovation.





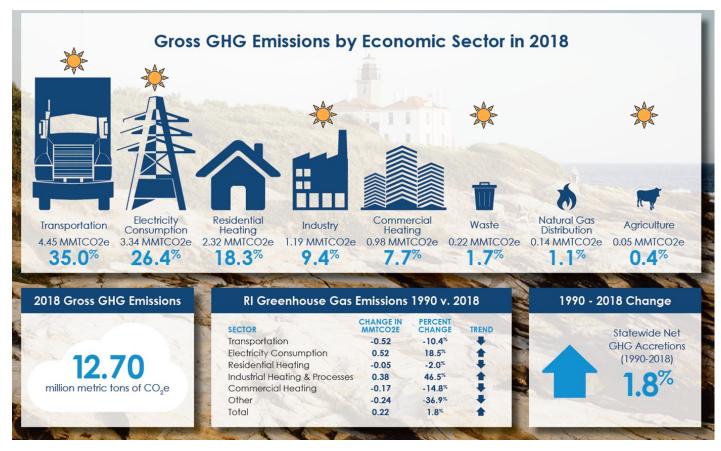
#### INTEGRATED FOCUS AREAS:

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

# **FOOD SYSTEM x CLIMATE**





Aboveground changes in biomass from deforestation, and below ground changes in soil carbon



Methane emissions from cows, methane from rice, emissions from fertilizers, manure, and farm machinery



On farm emissions from crop production and its processing into feed for livestock



Emissions from energy use in the process of converting raw agricultural products into final food items



Emissions from energy use in the transport of food items in country and internationally



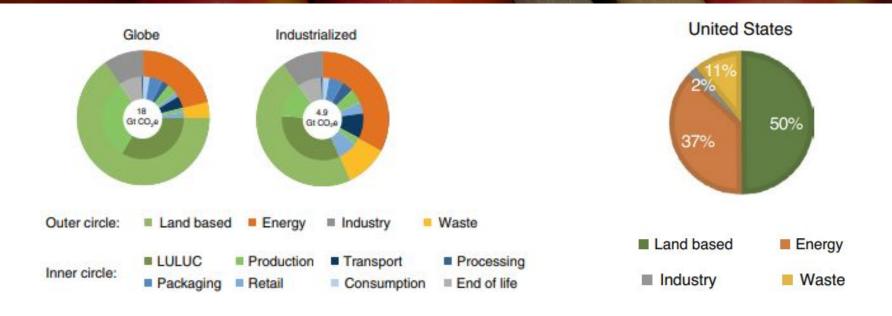
Emissions from energy use in refrigeration and other retail processess



Emissions from the production of packaging materials, material transport and end-of-life disposal



# 37% OF US FOOD EMISSIONS COME FROM ENERGY (PACKAGING AND TRANSPORTATION)



# **GHG Emissions from RI Food Waste?**

**20%** FOOD WASTE

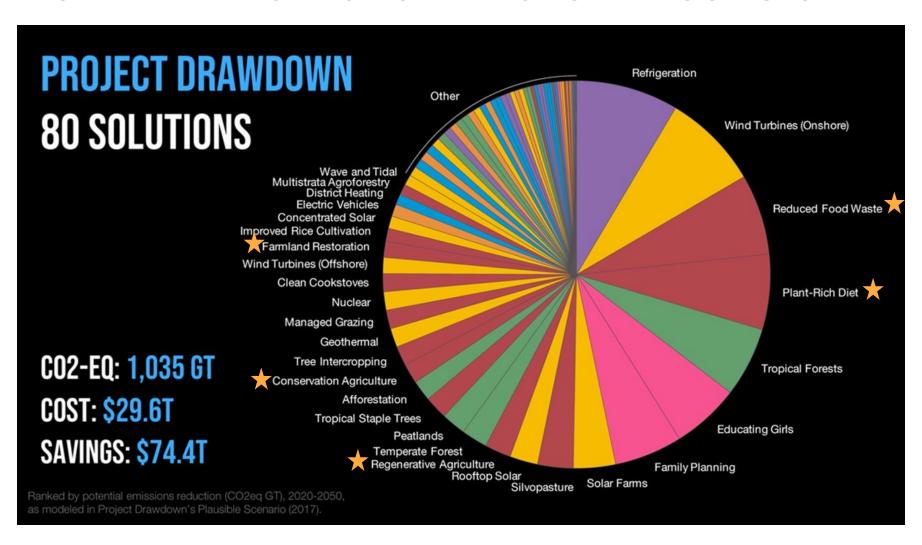
**322,290 TONS** 

**80%**SOLID WASTE

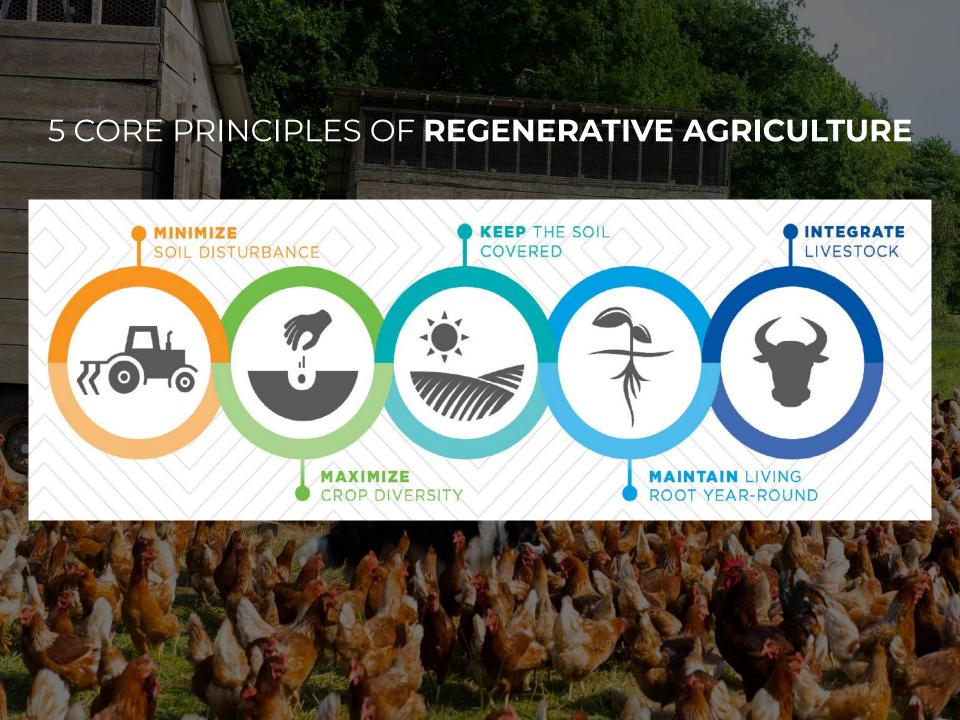
TONS OF COMPOSTABLE WASTE GOING INTO THE CENTRAL RI LANDFILL (2017)

Earth Care Farm compost facility - Charlestown, RI

#### **CLIMATE MITIGATION STRATEGIES VIA FOOD SYSTEM**

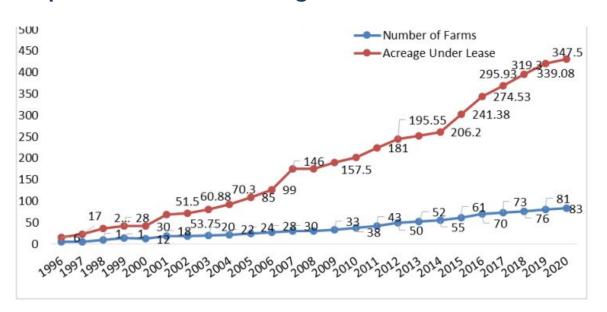






# RI AGRICULTURE & AQUACULTURE

#### **Aquaculture Farms & Acreage Under Lease**



- 55,000 acres of farmland
- 1,200+ crop farms
- 347 acres under aquaculture production

# POTENTIAL FOR CONSERVATION PRACTICES TO REDUCE GHG EMISSIONS IN RI

American Farmland Trust estimates that...

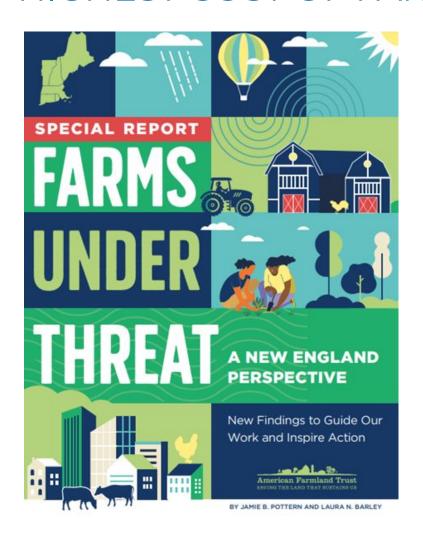
Rhode Island could reduce 1,800 to 4,200 tonnes
CO2e per year by adopting conservation practices on
existing croplands which equates to planting 30,000 70,000 new trees for a decade.

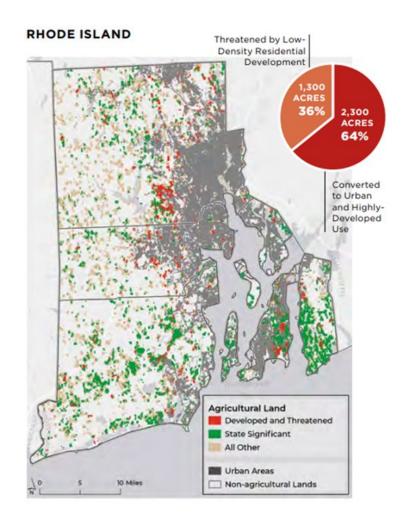
A win-win scenario that..

- improves long-term agricultural productivity and food security
- → mitigates GHG emissions
- improves water quality

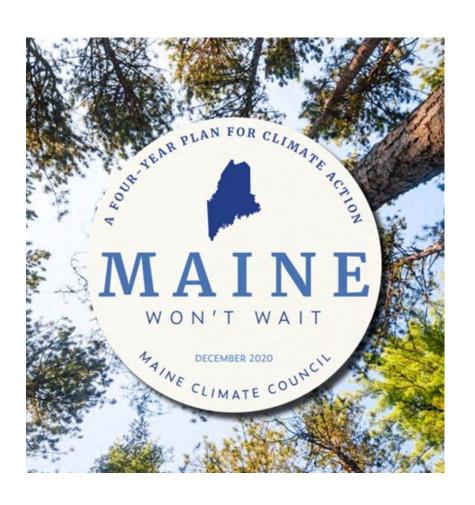
# \$16,000/ACRE

# HIGHEST COST OF FARMLAND IN THE NATION





# **FOOD SYSTEMS IN STATE CLIMATE PLANS**



- Increase the amount of food consumed in Maine from state food producers from 10% to 20% by 2025 and 30% by 2030 through local food system development
- Launch the Maine Seafood Business Council by 2022

# A CLIMATE-SMART FOOD SYSTEM CONSIDERS...

- How we grow and distribute food
- Leverages ocean biomass as carbon sinks
- How and what we eat
- How we dispose of food waste and wasted food

# **OUR ASK:**

- Include a food systems perspective on taskforce
- Include food systems in State climate plans





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