

Kelp markets – consumers, chefs and institutional buyers

Dawn Kotowicz, PhD
University of Rhode Island
February 15, 2018



Kelp's potential

- Aligns with regional food and coastal management goals
- Regional economic benefits; high value product globally
- Sustainable seafood product
- Minimal input and infrastructure
- Absorbs dissolved nitrogen, phosphorus, carbon dioxide



Source: Humphries 2017



Market assessment

- Markets opportunities undefined and unexplored
- Define existing and potential supply/value chains
- Focus groups:
 - Kelp growers – RI, MA
 - Regulators – ME, NH, MA, RI, CT, NY
 - Institutional buyers
 - Chefs



Selkie beer

Source: NH Sea Grant



Kelp for food - Product Options

- Fresh
 - Pros: Little processing – less cost/time
 - Cons: Short shelf-life; wet product is heavy to ship
- Dried
 - Pros: Little processing infrastructure needed; light for shipping; long shelf-life; rehydrating allows for use like fresh
 - Cons: Lower price from buyer; competition with imports
- Frozen (noodles or cubes)
 - Pros: Long shelf-life; potential for many uses
 - Cons: Infrastructure/labor needed for processing

Consumer surveys

- Administered at:
 - Farmers' markets
 - Food festivals
 - Community Supported Fisheries pick-up locations
- Locations:
 - NH, MA, RI, CT, and NY
- Spring and summer 2017
- 142 respondents



Sources: Aquidneck Growers Market; Boston JerkFest

Assessing consumer interest

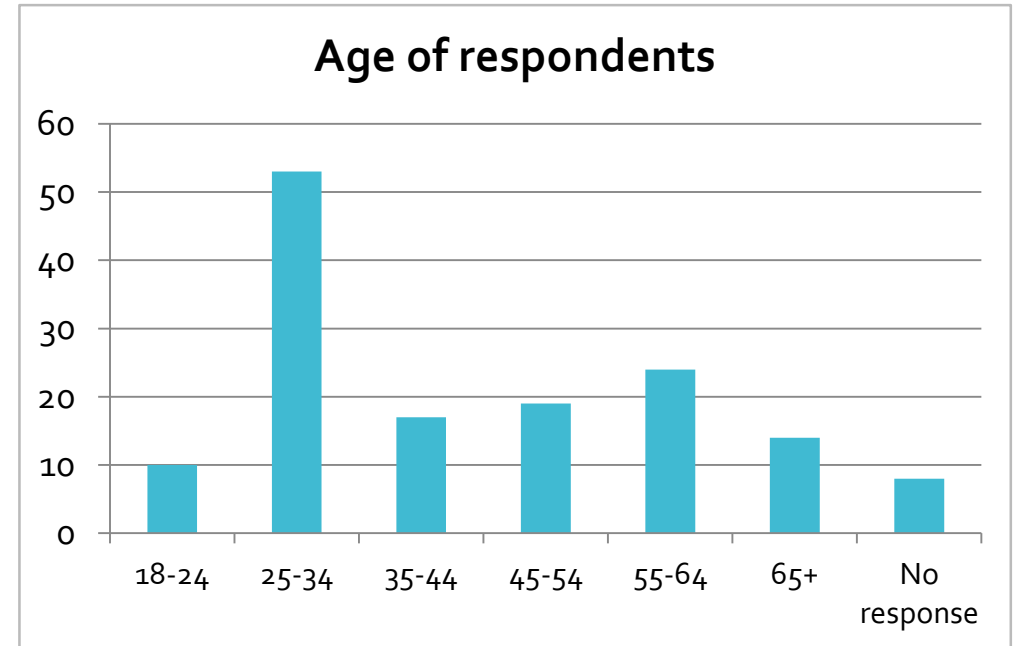
- Objectives
 - Gauge level of interest for seaweed
 - Identify where to focus efforts to grow market
- Questions:
 - Have you ever eaten any kind of seaweed before?
 - If yes, how was it prepared?
 - How interested are you in trying seaweed food products, generally?
 - What kind of seaweed preparation would you be most excited to try?



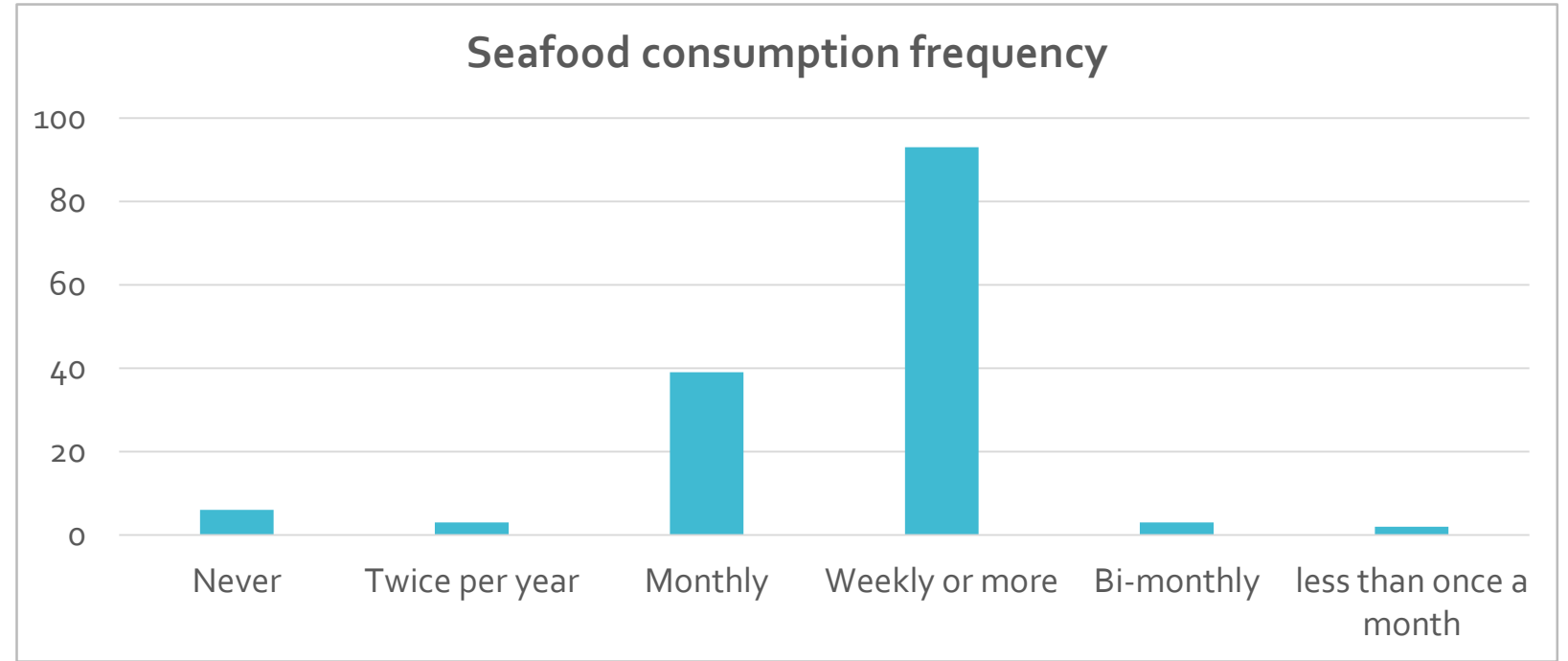
Sources: paleoveganista.com; www.splendidtable.org; www.doradaly.com; www.muscleandfitness.com; blog.radiantlifecatalog.com

Who answered the survey?

- Gender:
 - Female – 56%
 - Male – 40%
 - No response – 7%
- Income
 - Range:
<\$20,000 - \$200,000
 - Mode:
\$75,000 - \$99,999



Seafood preferences



- Preferred seafood in restaurants:

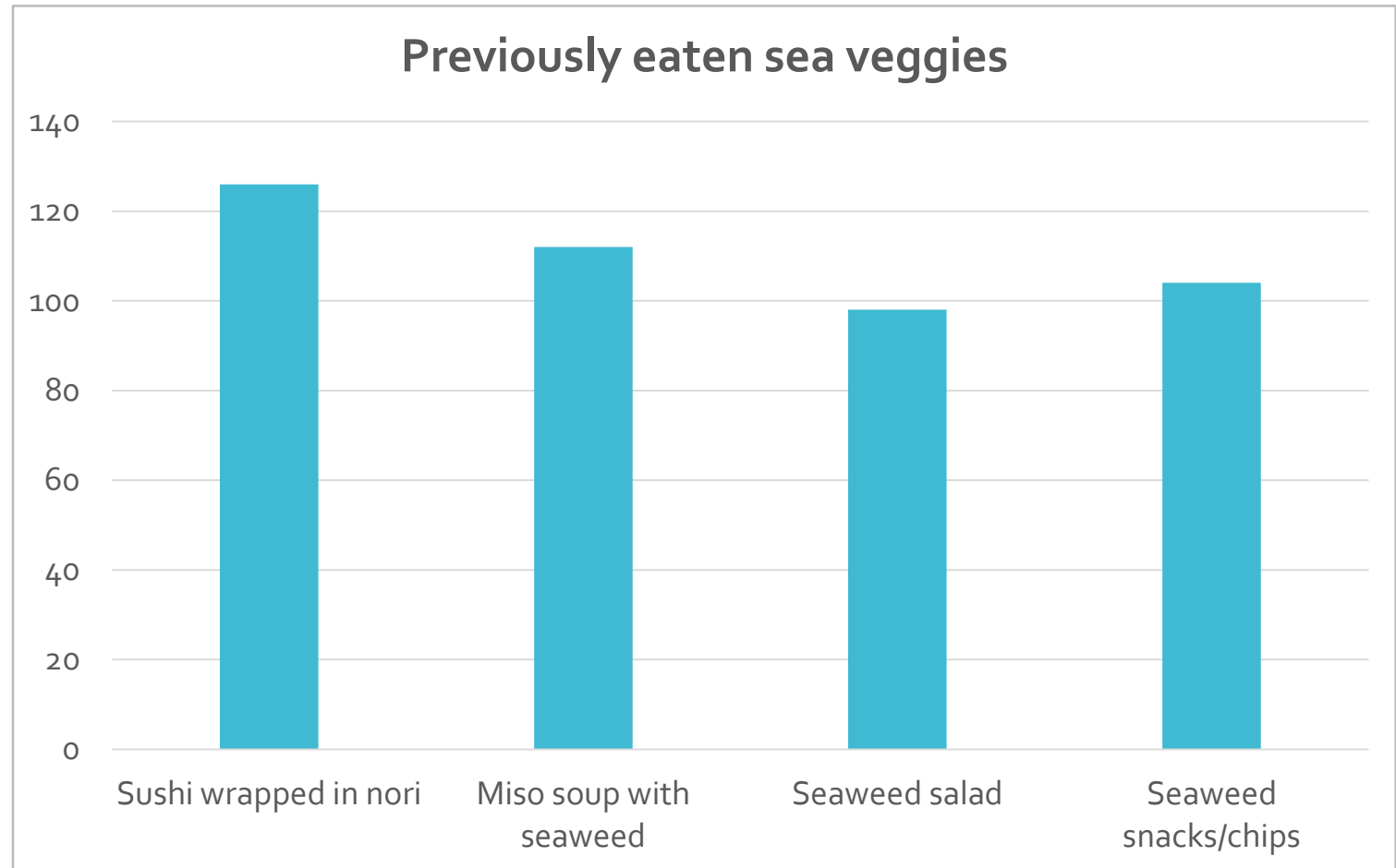
- 36% Salmon
- 26% Shrimp
- 21% Shellfish
- 10% Cod
- 15% Anything

- Preferred seafood in restaurants:

- 46% Salmon
- 35% Shrimp
- 12% Cod
- 10% Shellfish
- 10% Anything

Experience with sea veggies

- 135 of 142 respondents had eaten sea veggies in some form



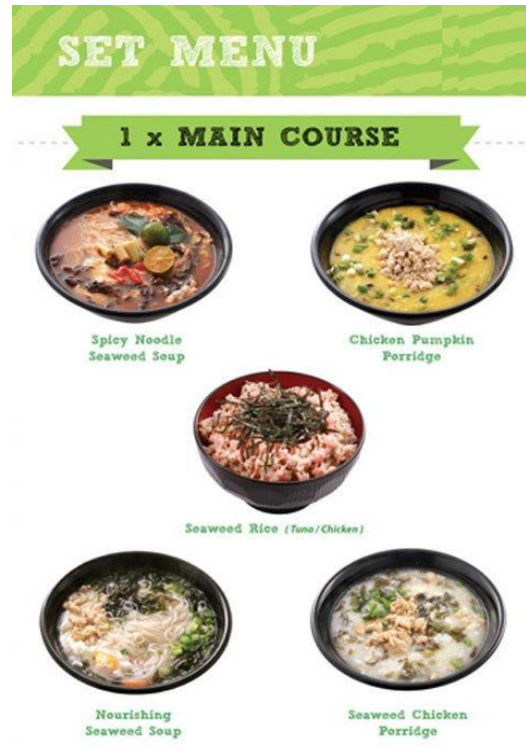
Consumer interest in sea veggies

- 65% of respondents who had previously eaten seaweed had a moderate to high interest in eating local seaweed (n = 135)



Potential for increased consumption

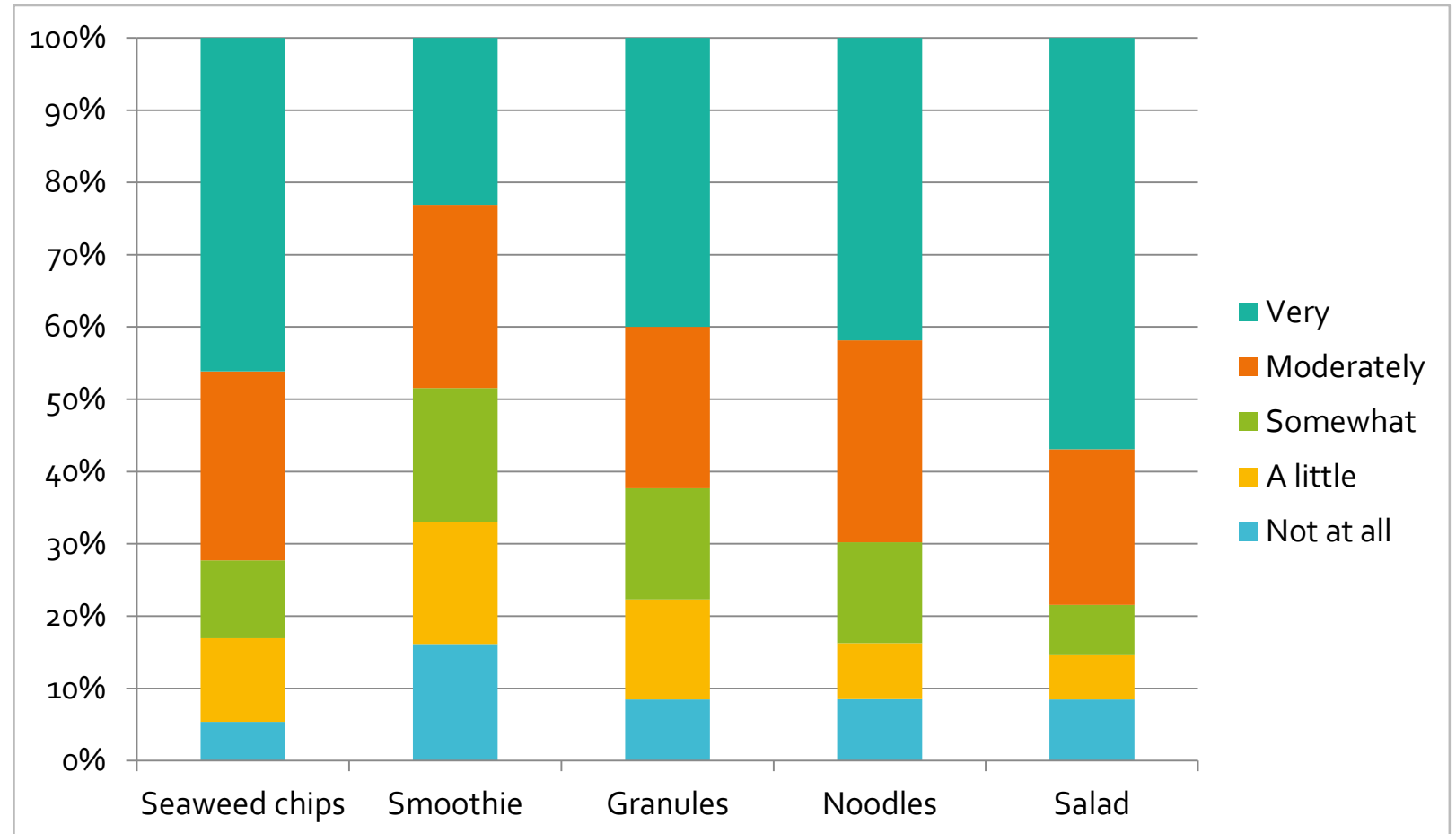
- Restaurants could be a key in increasing consumption of sea veggies
- 100 of 142 respondents would be most likely to try a new seaweed dish in a restaurant



Sources: www.zomato.com; www.boemagazine.com

Sea veggie dish preferences

- High level of stated interest in all dishes
- Seaweed salad showed the highest stated interest among dishes in our survey (72% Moderate and Very)



Independent Chef/ Ed. Institutional Buyers

- Lots of interest; aligns with local, sustainable food goals
 - Especially associated with Asian foods (e.g., sushi, soup, salad)
 - Increased access to plant-based proteins (i.e., vegan foods)
- High volume needed
 - Institutions: most interested in processed, longer shelf-life
 - Chefs: need supply for 3 months
- Experience
 - “Great for the students when they know it’s been grown in the area – gets some buzz going”
 - Imported product has preservative on it so was not purchased
 - “Seasonality” is interesting

Moving forward

- Individual consumer interest is unlikely to develop the industry
- Institutional buyer interest high but need shelf-stable products and high volume
- Needs:
 - Assessment of processing techniques and associated costs
 - Product development
 - Engagement with institutional buyers and chefs



Sources: Mara Seaweed; Ocean Approved

Questions/
Comment



Contact:
dkotowicz@uri.edu

