



***Innovation + Mariculture =  
\$1 Billion***



*Alaskans are thinking innovatively about how mariculture could compliment what we have and provide benefits to Alaskans.*

MADE IN ALASKA  
**MARICULTURE**

ALASKA DIVISION of  
ECONOMIC DEVELOPMENT

**ALASKA**  
NORTH TO OPPORTUNITY

**ALASKA**  
DEPARTMENT OF  
COMMERCE,  
COMMUNITY  
AND ECONOMIC  
DEVELOPMENT

**AFDE**



What is **Mariculture**?

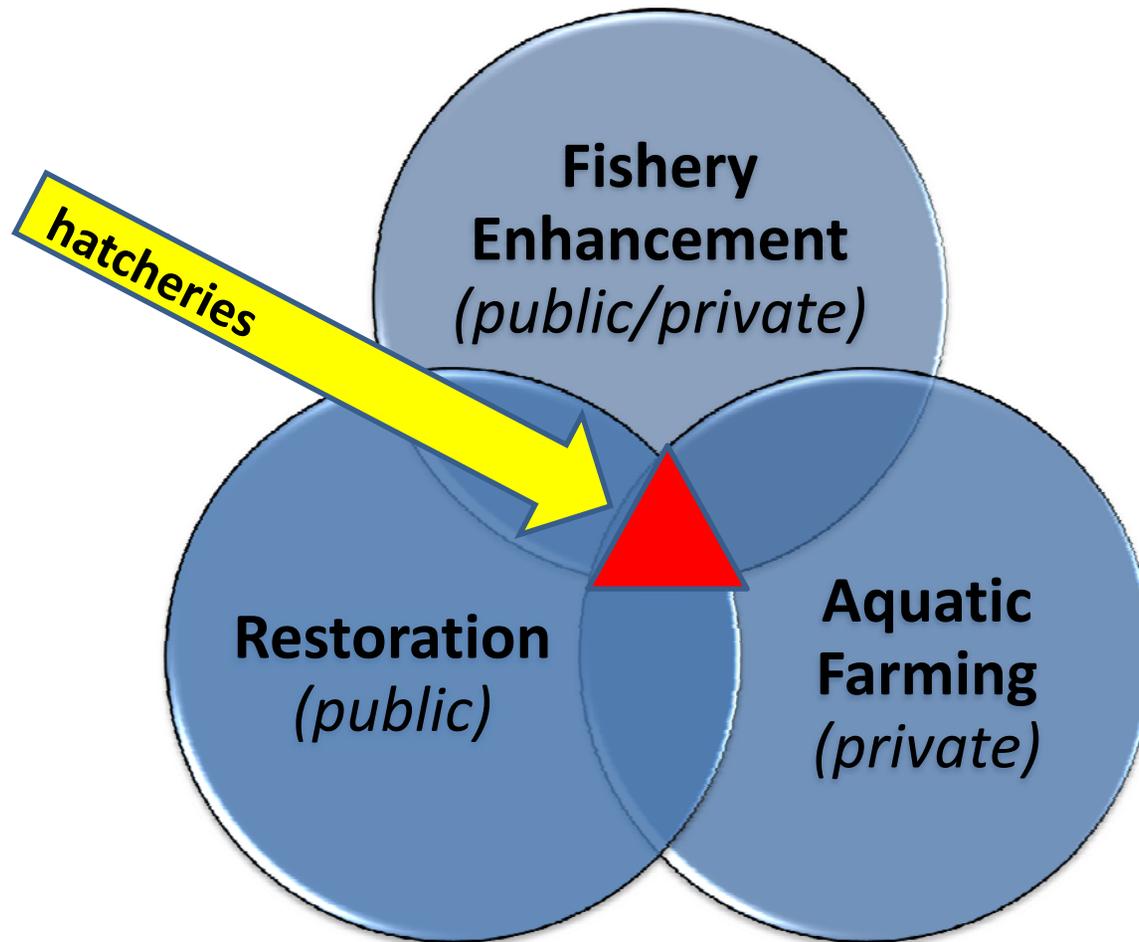
# In Alaska, mariculture is...

*Species = local (shellfish + invertebrates + aquatic plants)  
+ Pacific oysters*



**AEDE**

# *Mariculture is...*



**\*In Alaska, mariculture is not fin-fish farming.**



# Benefits to Alaskans: **Economic**



***Hump Island Oyster Co.***  
*Wins 2016 Entrepreneur of the Year from  
Ketchikan Chamber of Commerce*

## Ocean Acidification in Alaska

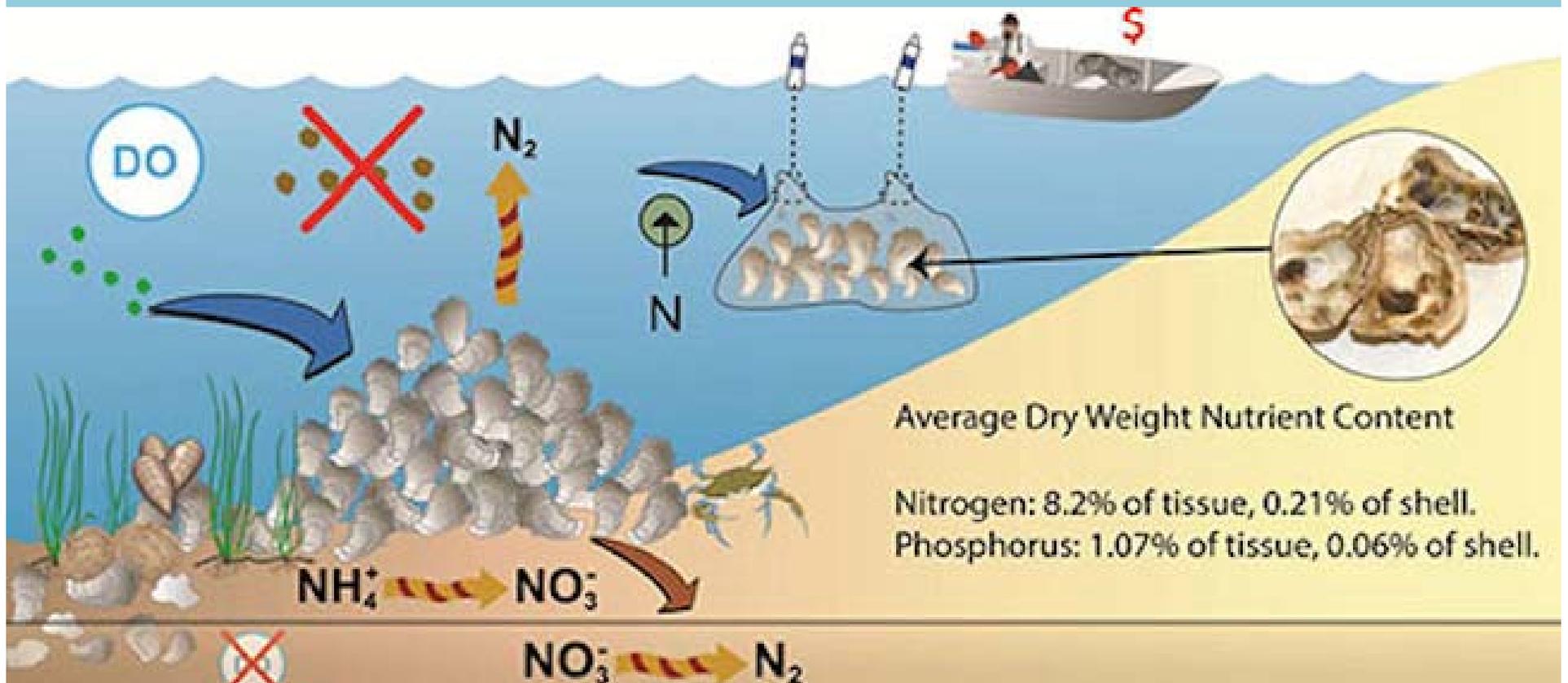
Learn about it. Discuss it. Build support for State action.



Photo by Mollie Beach

# Benefits to Alaskans: Environmental

Climate change mitigation & habitat improvements through ecosystem services (carbon & nitrogen removal, water filtration, etc.)





## Benefits to Alaskans: **Cultural**

Connects Alaskans  
with traditional  
food sources,  
harvesting  
activities & skills

## Benefits to Alaskans: **Food Security**

Increases access to  
local foods

# Benefits to Alaskans: **Industrial**

- Compliments & expands existing \$6 billion seafood industry
- Builds on assets – sustainable fisheries, social responsibility, Alaska seafood brand



Salmon hatchery – Prince William Sound, AK

Commercial fishing vessels – Bristol Bay, AK



Processing plant – Kodiak, AK



# *Alaska Mariculture Initiative*

**Vision:**

*Grow a \$1 billion  
industry in 30 years*



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# Recent Developments: *Alaska Mariculture Task Force*

- In 2016, Governor Walker established the Alaska Mariculture Task Force (AMTF) by [Administrative Order #280](#)
- **Direction** - *“To develop a viable and sustainable mariculture industry producing shellfish and aquatic plants for the long-term benefit of Alaska’s economy, environment and communities.”*



# Alaska Mariculture Initiative

## *Other Recent Developments*

- 1) 2017 - Applications submitted in for over 1,000 acres of new aquatic farms, including:
  - larger sites
  - First applications by large seafood processing company
- 2) 2017 - First commercial harvest of Alaska grown seaweed
- 3) 2017 - New partnerships between industry, communities and environmental groups
- 4) 2018-2021 - Future project with U.S. Dept. of Energy to grow seaweed as biofuel

*Wild Alaska Kelp Co.  
wins Path-to-Prosperty  
contest*



# *Shellfish Hatchery*



OceansAlaska  
MARINE SCIENCE CENTER



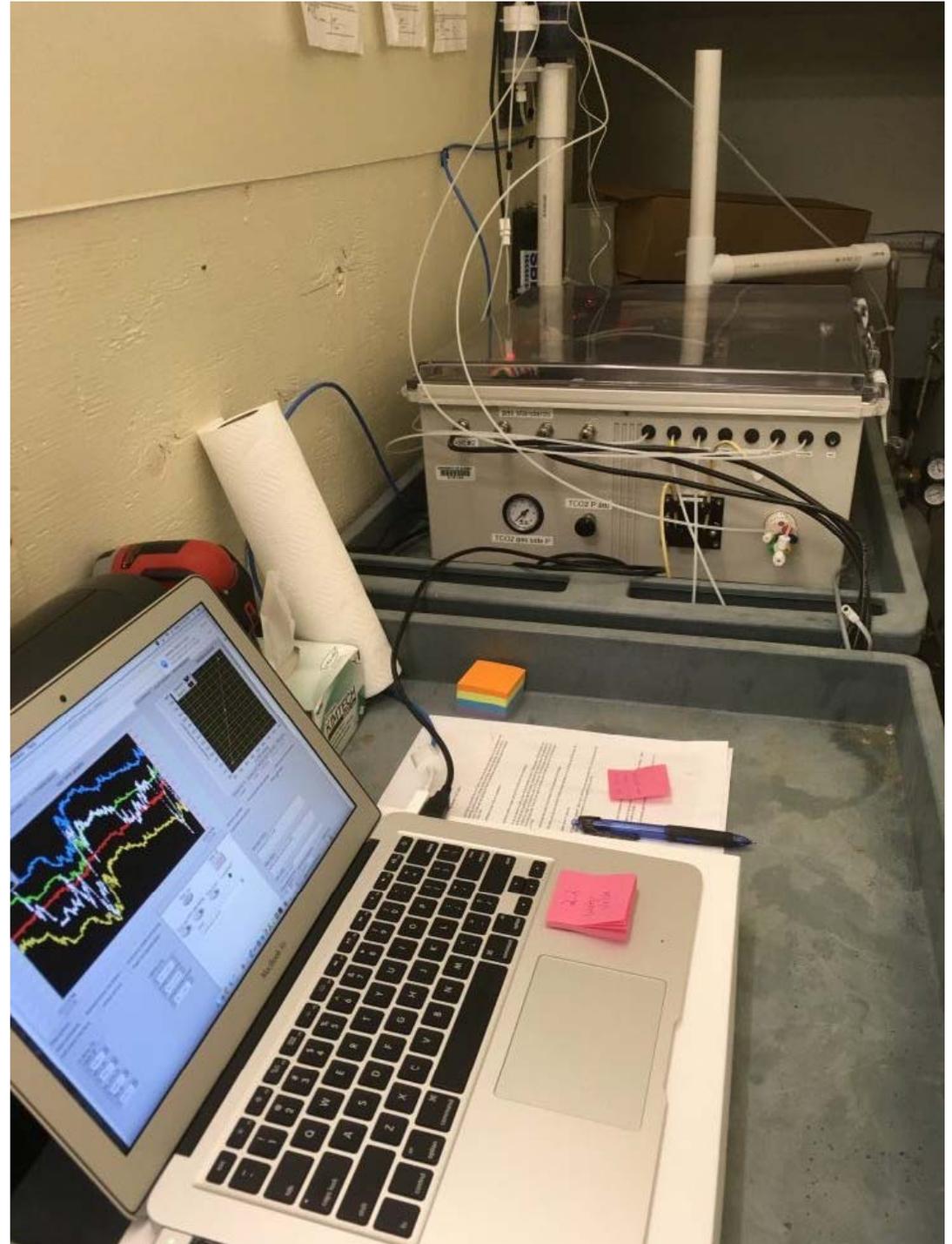


## *OA installs Burke-o-lator*

✓ In 2016, OceansAlaska became the 2<sup>nd</sup> location in Alaska to house a Burke-o-Lator

✓ Measures ocean acidification parameters in real-time of sea water: temperature, salinity, pH, CO<sub>2</sub>, TCO<sub>2</sub>, aragonite saturation, and alkalinity.

[www.oceansalaska.org](http://www.oceansalaska.org)





**Innovate  
mariculture.**

**Why now?**

**Because...**

***AFDE***



Kelp  
is the  
New  
Kale