



Alaska Mariculture Task Force

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MADE IN ALASKA

MARICULTURE

ALASKA DIVISION of
ECONOMIC DEVELOPMENT

ALASKA
NORTH TO OPPORTUNITY

ALASKA
DEPARTMENT OF
COMMERCE,
COMMUNITY,
AND ECONOMIC
DEVELOPMENT



AFDF

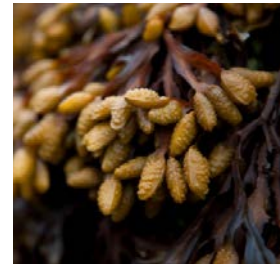
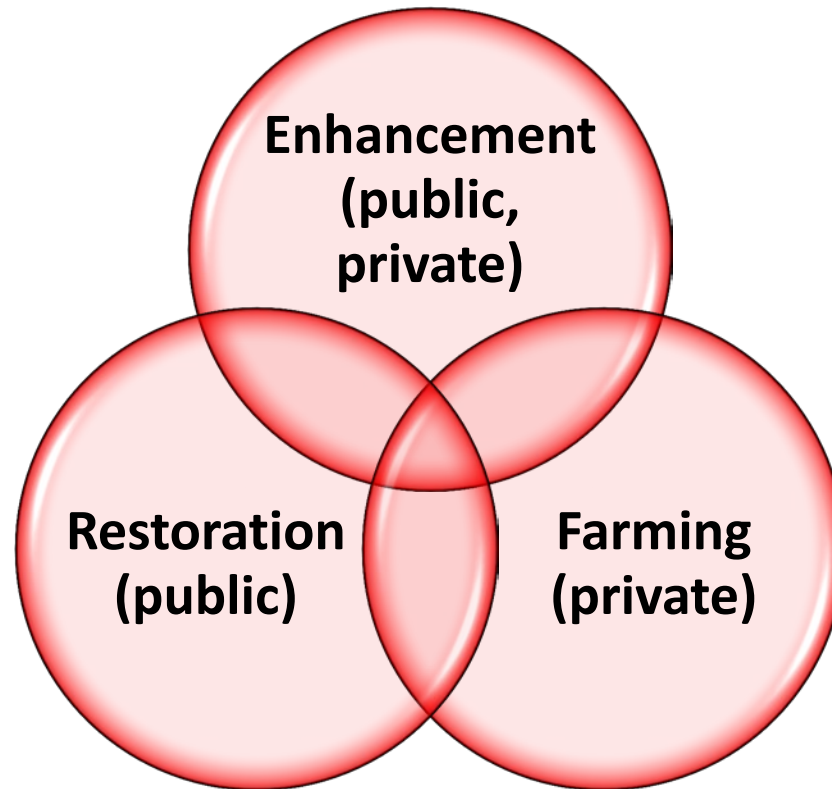


Alaska Mariculture Task Force

- Feb. 26, 2016 - Gov. Walker established the Alaska Mariculture Taskforce (AMTF) by **Administrative Order #280**
- **Direction** - *“To provide recommendations 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.”*
- **Mariculture is defined as** enhancement of wild fisheries & aquatic farming of shellfish & aquatic plants. Mariculture does not include finfish farming, which is not legal in Alaska.

What does mariculture mean in Alaska?

MARICULTURE \neq FINFISH FARMING



*Mariculture species in Alaska =
(local shellfish + invertebrates + aquatic plants) + Pacific oysters*





Alaska Mariculture Task Force

Benefits for Alaskans

- (1) **economic** - providing jobs and commerce in coastal communities;
- (2) **environmental** - improving the local ecosystem in various ways, such as habitat improvement, carbon removal, or countering ocean acidification;
- (3) **cultural** - compatible with traditions, cultures, and skills in rural communities;
- (4) **industrial** - complements and expands our existing renewable seafood industry, which is Alaska's largest private sector employer;
- (5) **food security** - increasing access to local foods for Alaskans.

Alaska Mariculture Task Force - *Guiding Principles*

The ***development of the mariculture industry will:***

- a) Be compatible with Alaska's reputation as a world leader in responsible and sustainable management of its seafood resources;
- b) Be stakeholder-driven;
- c) Coordinate and integrate with those entities conducting ocean monitoring in order to inform research & management of changing ocean conditions;
- d) Include analysis of successful models that may be applicable to Alaska.



Alaska Mariculture Task Force

11 Members

- Commissioner Chris Hladick, Chair, ADCCED
- Julie Decker, Vice Chair, AFDF
- Sam Rabung, ADF&G
- Michael Stekoll, macroalgae researcher, UAS
- Paula Cullenberg, Alaska Sea Grant Representative
- Jeff Hetrick, Aluutiq Pride Hatchery
- Eric Wyatt, Aquatic farmer, OceansAlaska Hatchery
- Angel Drobica, APICDA
- Heather McCarty, AKCRRAB
- Kate Sullivan, SARDFA
- Christopher Whitehead, Sitka Tribe

Alaska Mariculture Task Force

Advisory Committees

Five advisory committees, aligned with essential elements in AO

- Investment and Infrastructure
- Regulatory Issues
- Research, Development, and Environmental Information
- Public Education and Marketing
- Workforce Development

Alaska Mariculture Task Force

Advisory Committees

Scope of Work

ACs and Chairs should use this as a general guide for their work:

- Conduct situational assessment relevant to each AC
 - Identify & utilize existing resources (information/orgs/Phases 2 & 3 eco analysis)
 - Identify opportunities or desired outcomes
 - Identify problems
 - Identify current or historic problems, impediments, obstacles, or needs
 - Identify past efforts to address problems
 - Identify why past efforts have failed
 - Identify information needs
- Identify solutions/strategies and new resources (info/orgs/\$)
- Recommend implementation plan
 - Identify who, what, when, where, how, funding & prioritization
 - Think in phases: Phase 1 (1-10 yrs), Phase 2 (10-20 yrs), Phase 3 (20-30 yrs)
- Recommend evaluation plan which tracks continued progress

Alaska Mariculture Task Force

Current status

- Establishing membership & holding first meeting of Advisory Committees
- Next meeting - September 30th in Juneau
- Soliciting stakeholder input, providing opportunity for experts to present
- Draft strategic plan, including timeline

Alaska Mariculture Task Force

How to stay informed

Coming soon:

Mariculture Task Force listserve
Mariculture Task Force website

Reference documents at:

<http://www.afdf.org/projects/current-projects/alaska-mariculture-initiative/>

...or ask Julie Decker for a flash drive

Alaska Mariculture Task Force

Related Mariculture Activities

- Alaska Sea Grant seaweed pilot project
- ARPA-E Macroalgae as Fuel –
 - future presentation by Marc Von Keitz in Alaska
- Presentation at Pacific Marine Expo (Seattle, Nov. 17) –
 - *A Farm for Every Fisherman*
- Discussions with new interested investors
- 3 NOAA grant pre-proposals submitted Sept. 20



The Beginning of Seaweed in AK

Alaska Sea Grant Pilot Project

Partners:

Ocean Approved (ME)

Maine Shellfish Research & Development

Pacific Shellfish Institute (WA)

OceansAlaska (Ketchikan)

Alaska Shellfish Growers Association (10+ Alaska farmers)

Alaska Fisheries Development Foundation

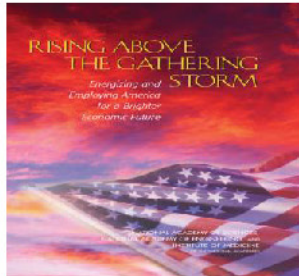
Premium Oceanic

<https://www.youtube.com/watch?v=Zw4liPujXWo>

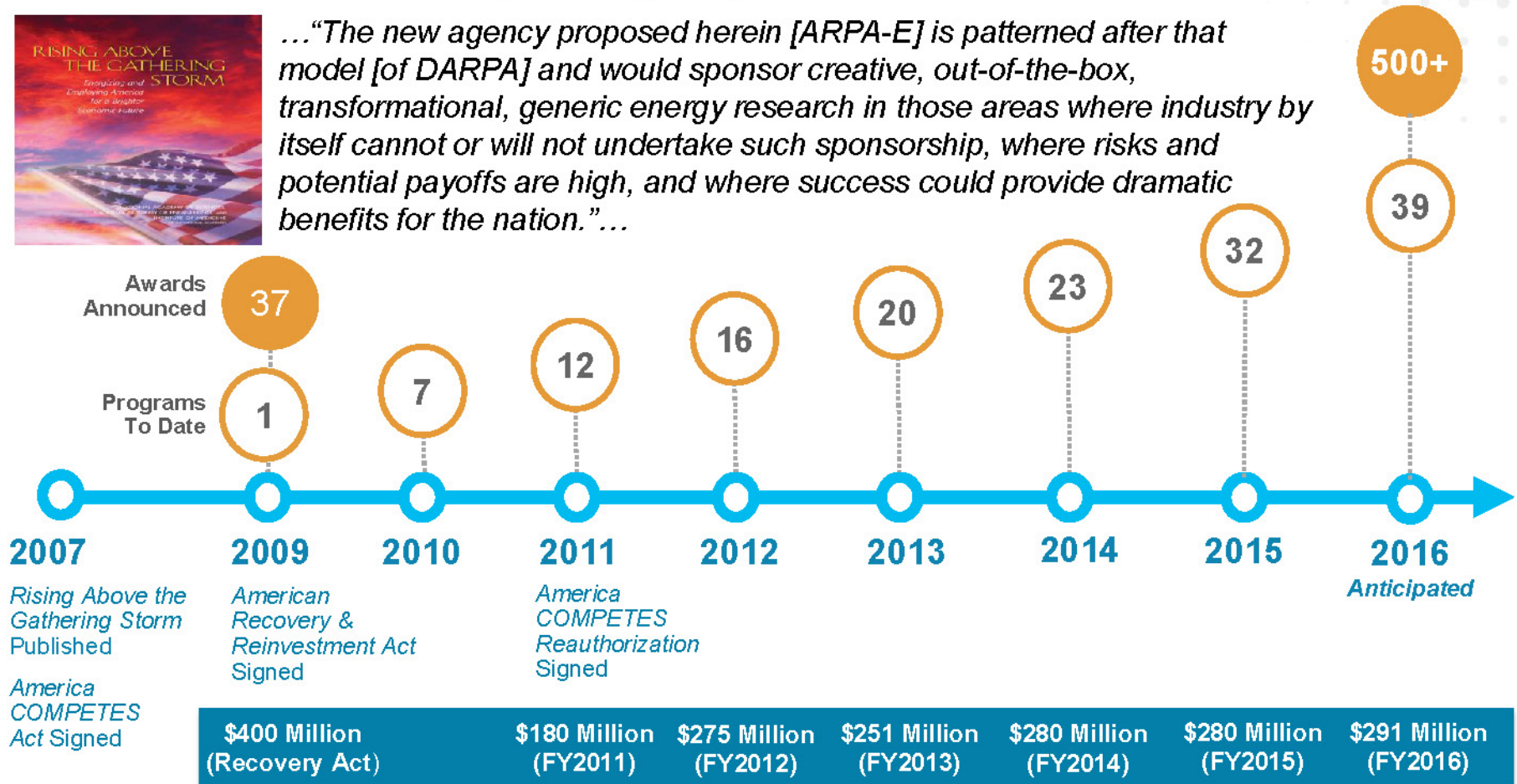
<http://www.saveur.com/article/video/pemaquid-oyster-farm-waldoboro-maine>

ARPA-E's History

In 2007, The National Academies recommended Congress establish an Advanced Research Projects Agency within the U.S. Department of Energy*



...“The new agency proposed herein [ARPA-E] is patterned after that model [of DARPA] and would sponsor creative, out-of-the-box, transformational, generic energy research in those areas where industry by itself cannot or will not undertake such sponsorship, where risks and potential payoffs are high, and where success could provide dramatic benefits for the nation.”...



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Related Mariculture Activities

ARPA-E Macroalgae as Fuel

Presentation in Alaska ~ Nov. 9, 2016

FFO released mid-Nov, 2016: \$30 million

Pre-Proposal due ~ December, 2016

Full proposals due ~ Spring 2017