

LEGISLATIVE LUNCH & LEARN MARICULTURE'S MOMENT

APRIL 4, 2023



**SOUTHEAST
CONFERENCE**

SOUTHEAST CONFERENCE

- Incorporated in 1958, primarily to advocate for creation of Alaska Marine Highway System.
- Stayed together to advocate for issues that are key to the southeast region as a whole. Look for consensus.
- Members from nearly every community, chamber of commerce, and economic development organization in the region, along with businesses and organizations.
- Conduct economic planning through CEDS process and implement CEDS, providing technical assistance and project development support.
- Federally-designated Regional Economic Development District and State-designated ARDOR.



ARDOR Program

Alaska Statute 44.33.896

DCCED Shall:

Encourage formation

Establish boundaries

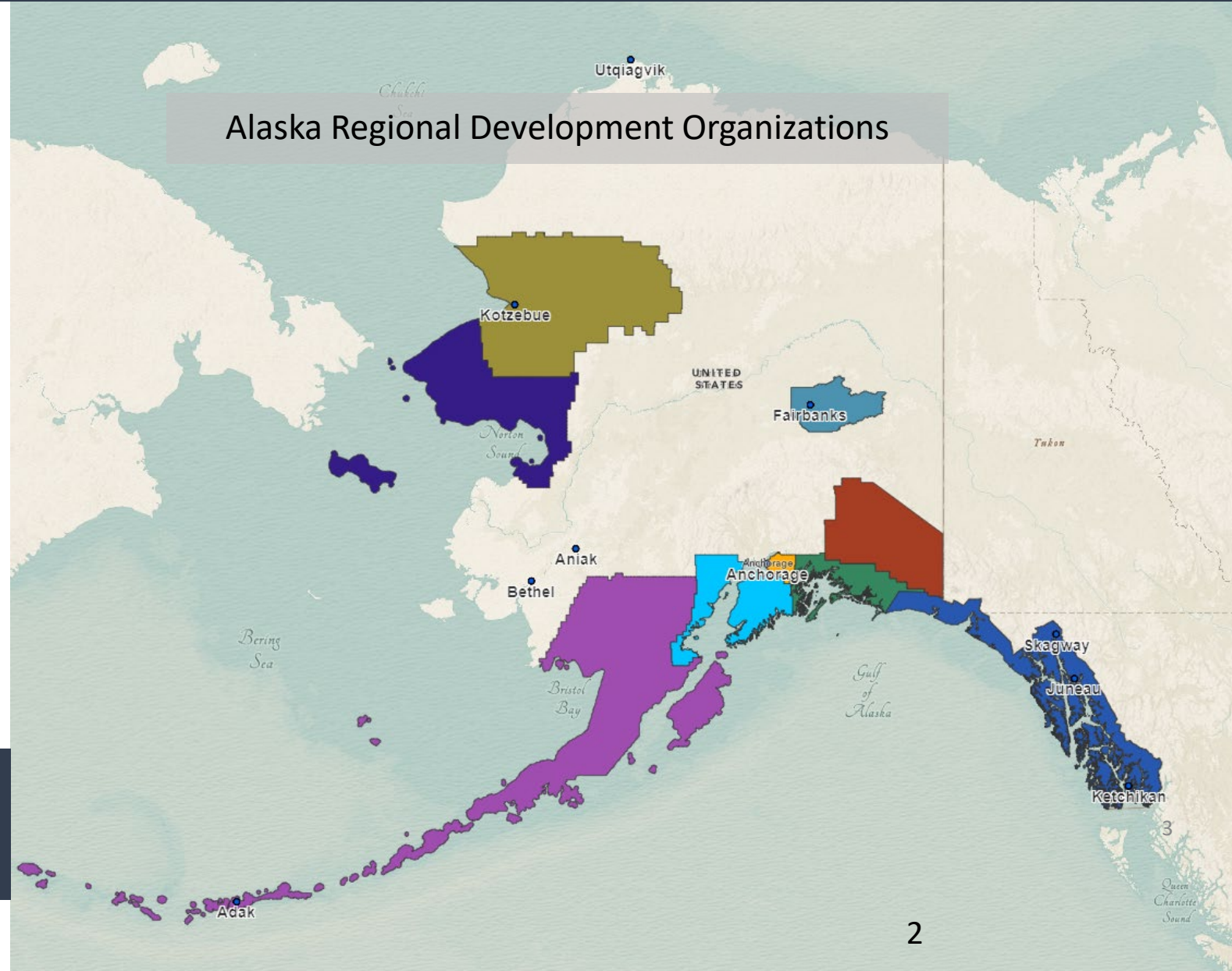
Gather Information

Serve as a Liaison

Assist each organization to

- ❖ Encourage economic development
- ❖ Collect and distribute information
- ❖ Participate in marketing, trade missions
- ❖ Develop and Implement strategies

HB 192, passed in 2021, extended
authorization of ARDOR Program to 2031.
(thank you!)



2025 SOUTHEAST ALASKA ECONOMIC PLAN

Recipient of the 2021 NADO Impact Award



Southeast Alaska 2025 Economic Plan

Southeast Conference's Comprehensive
Economic Development Strategy
2021-2025



Why mariculture?

Mariculture = Opportunities & Benefits for Alaskans

economic, environmental, community, cultural, and food security

SEAFOOD & MARITIME

★ Seafood

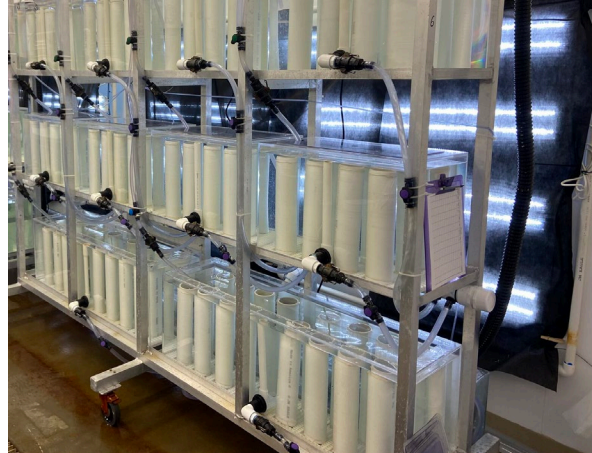
1. **Priority** Mariculture development
2. Work to promote a year-round seafood economy
3. Further develop seafood markets
4. Maintain a stable regulatory regime
5. Research the effects of changing ocean conditions on the marine environment
6. Support regional processors becoming economically competitive
7. Communicate the importance of salmon hatcheries
8. Seafood sector workforce development
9. Full resource utilization & ocean product development



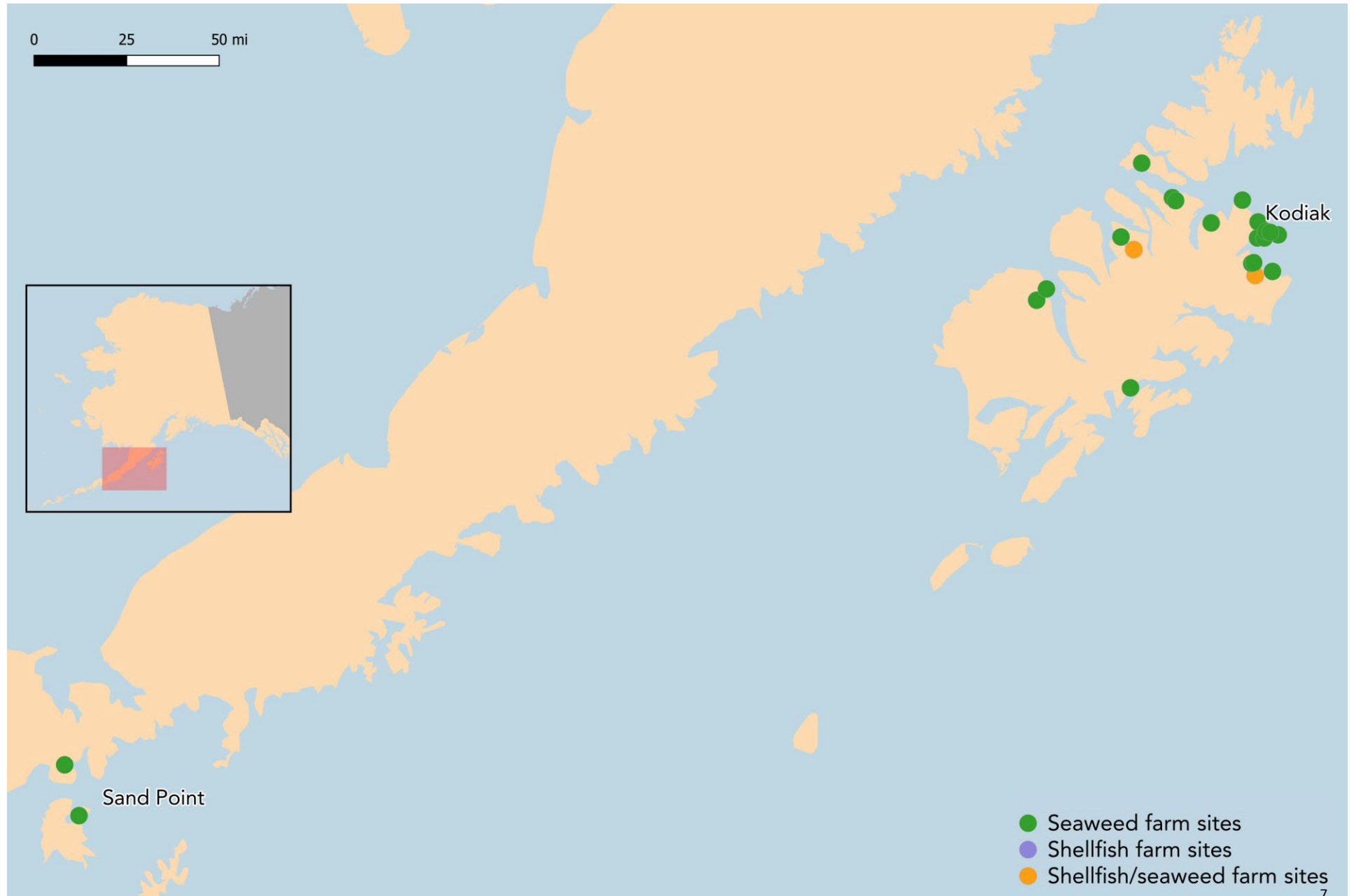
Craig, Alaska

In Alaska, mariculture is enhancement, restoration and farming of shellfish and seaweeds.

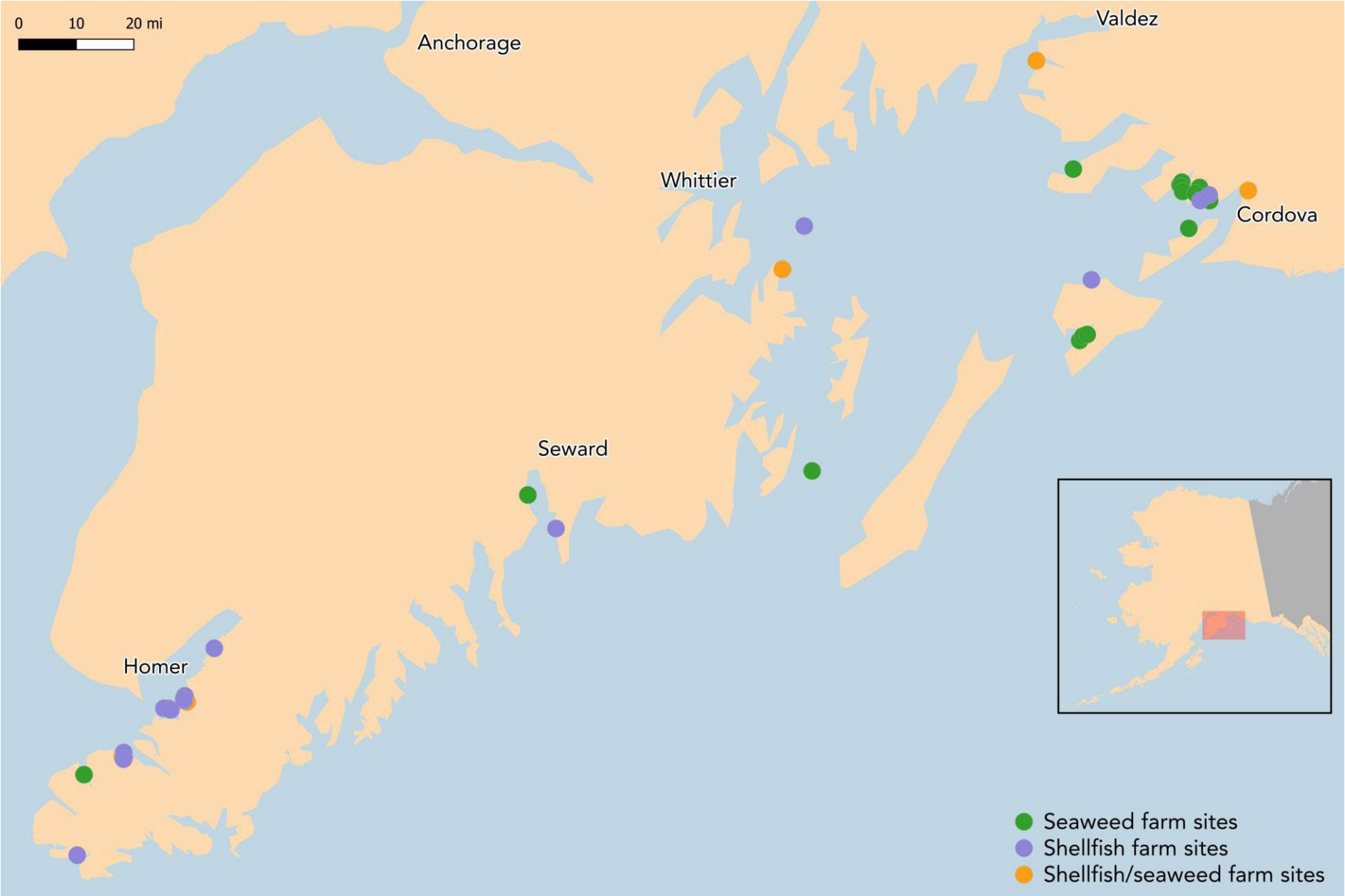
Finfish farming is prohibited by Alaska Statute 16.40.210



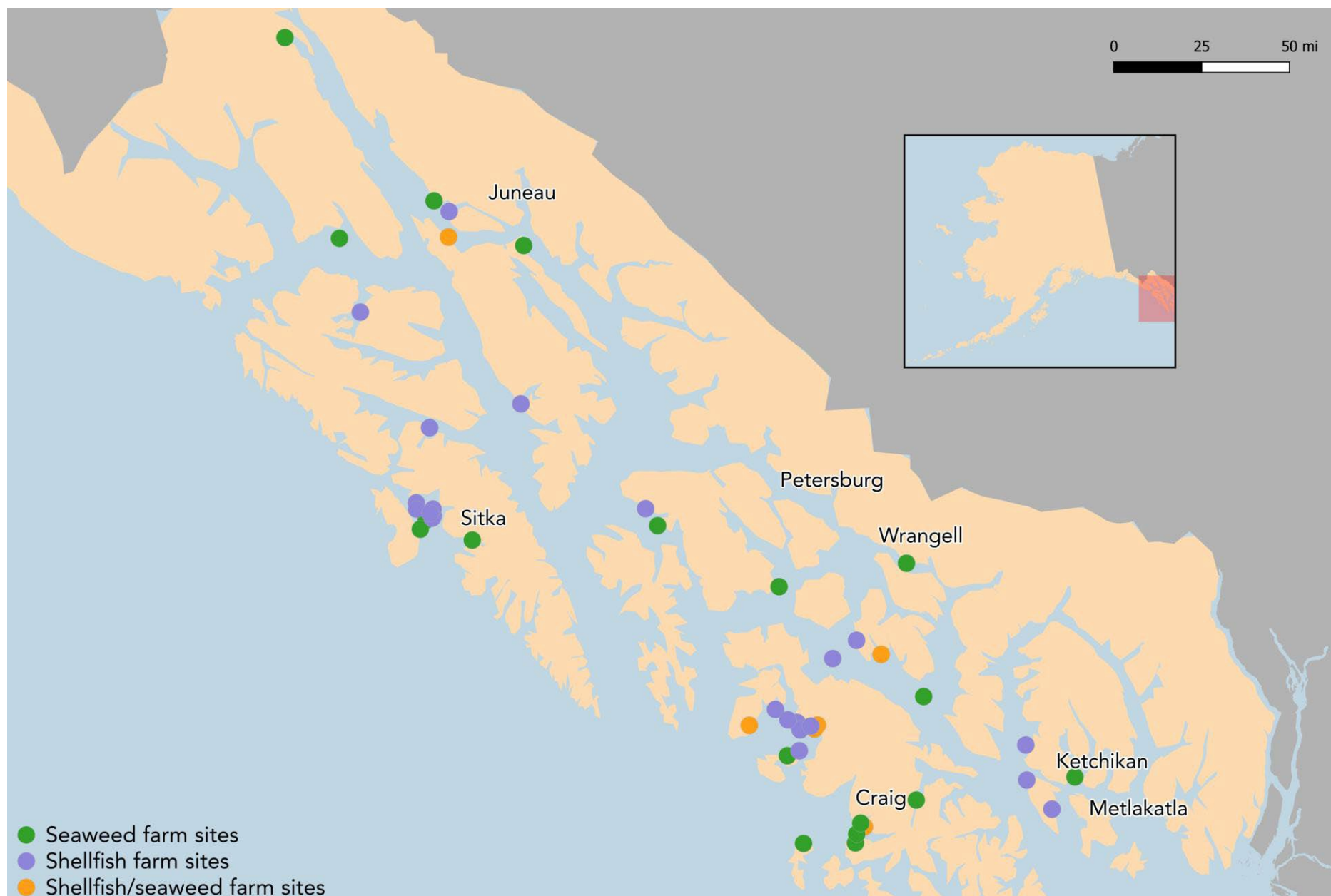
Kodiak/ Aleutians



Cook Inlet/ Prince William Sound



Southeast

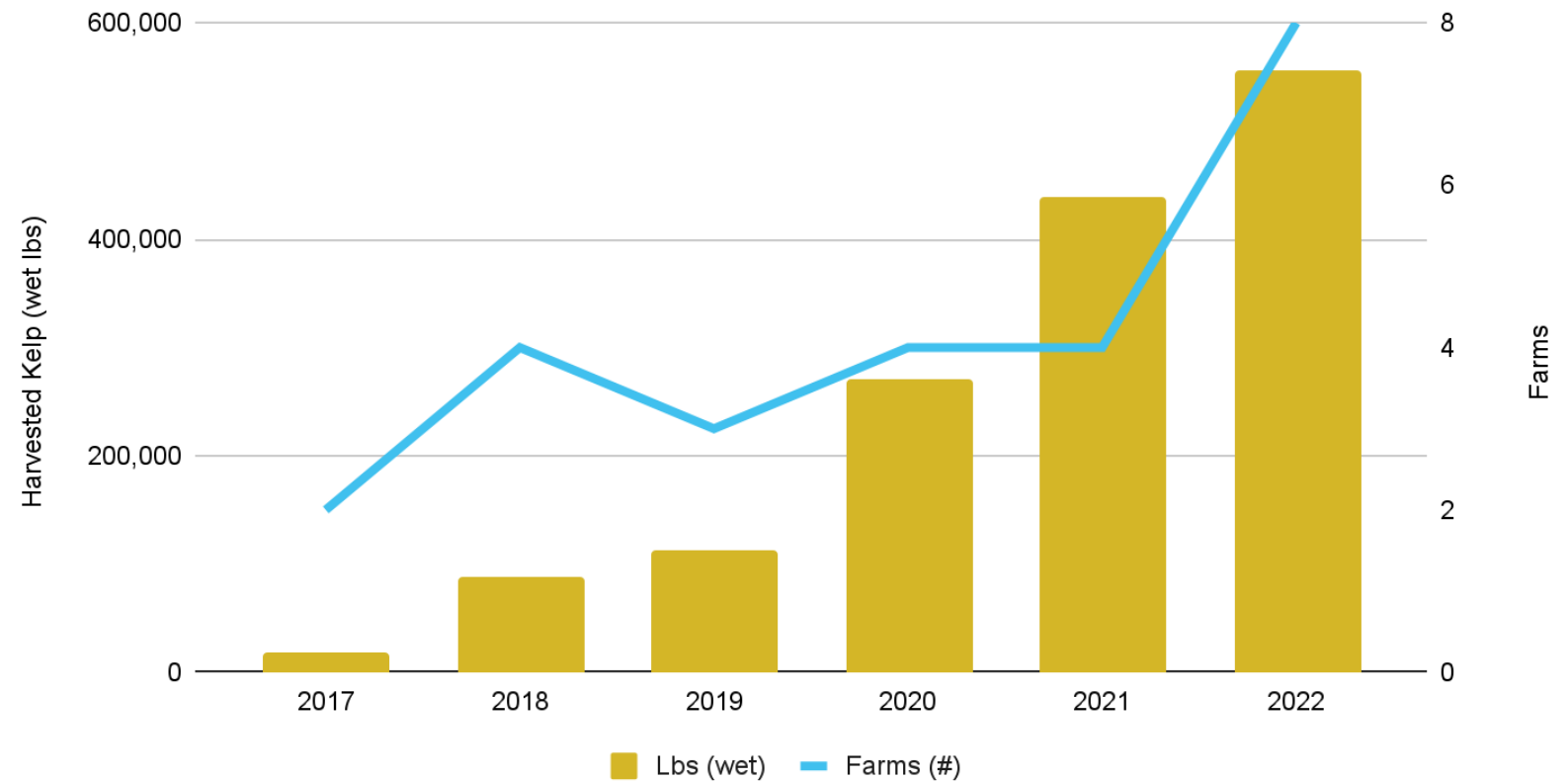


Alaska Seaweed Sector Overview

- 8 producing farms in 2022
- 24 permitted
- 23 under review
- 560,000 pounds in 2022
- 80,000+ pounds wild harvest

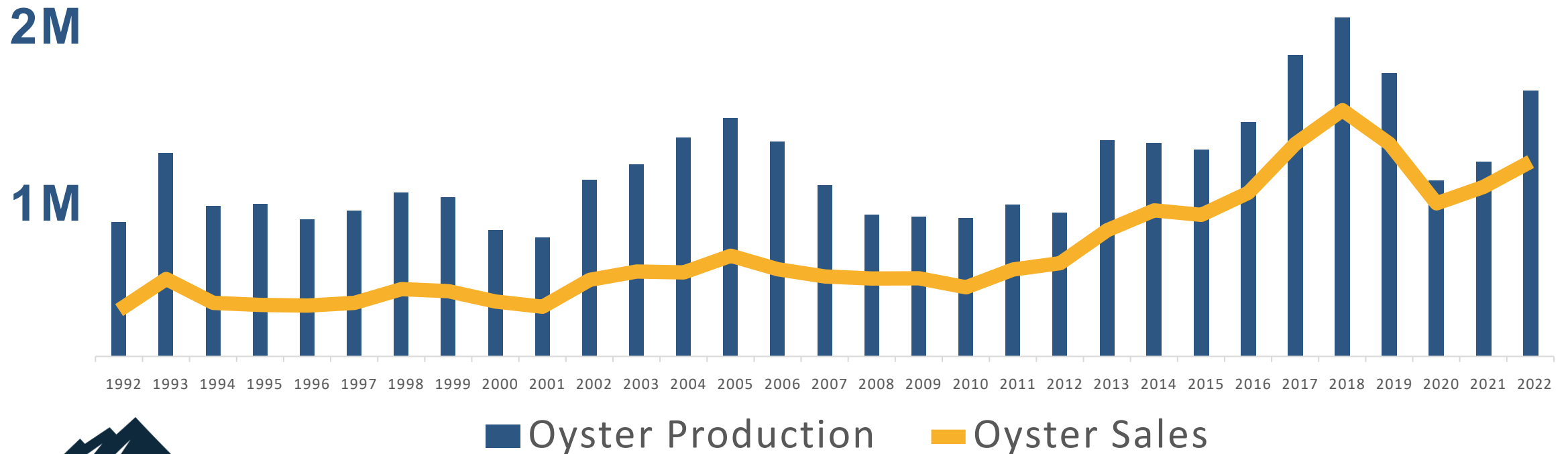
Alaska: Kelp harvest

Wet lbs, 2017-22



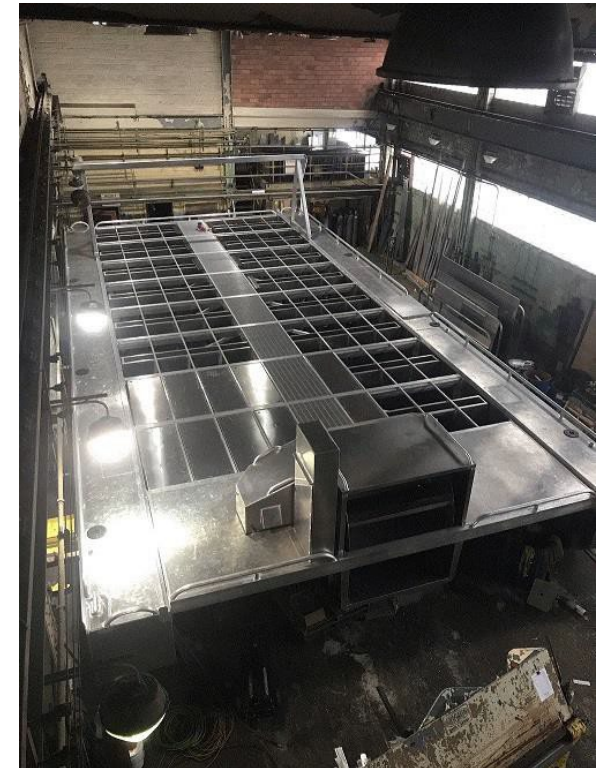
Alaska Oyster Sector Overview

- About \$1.1 million in sales in 2022 at roughly 13 farms



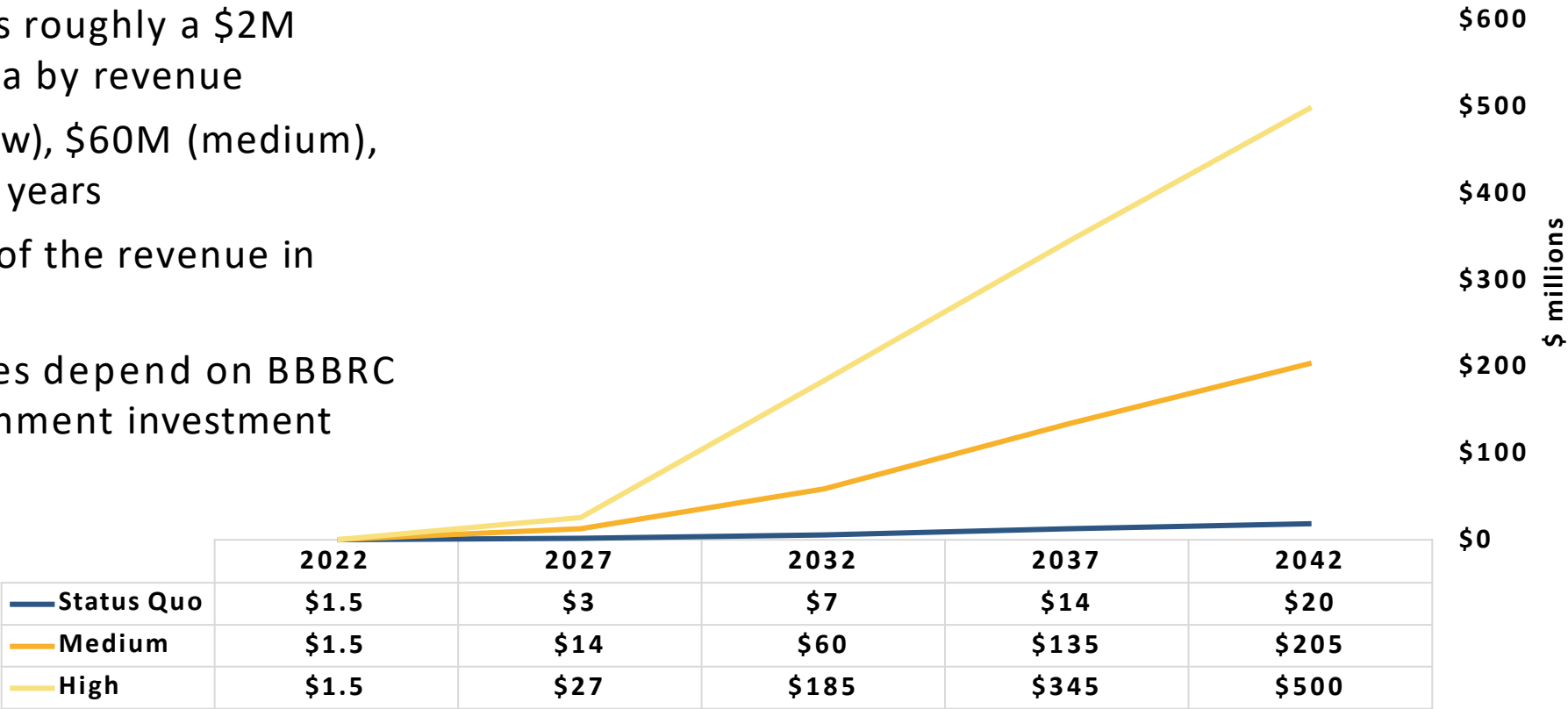
Mariculture Hatchery and Nursery Sector Overview

- 5+ seaweed hatcheries
 - 420,000 feet seeded string in Fall 2021
- 6 oyster nursery/FLUPSY operators
 - Currently using imported larvae/seed
 - ~9 million oyster seeds for farms
- Technologies in flux
- Various other species being tested



Industry Trajectory - Sales

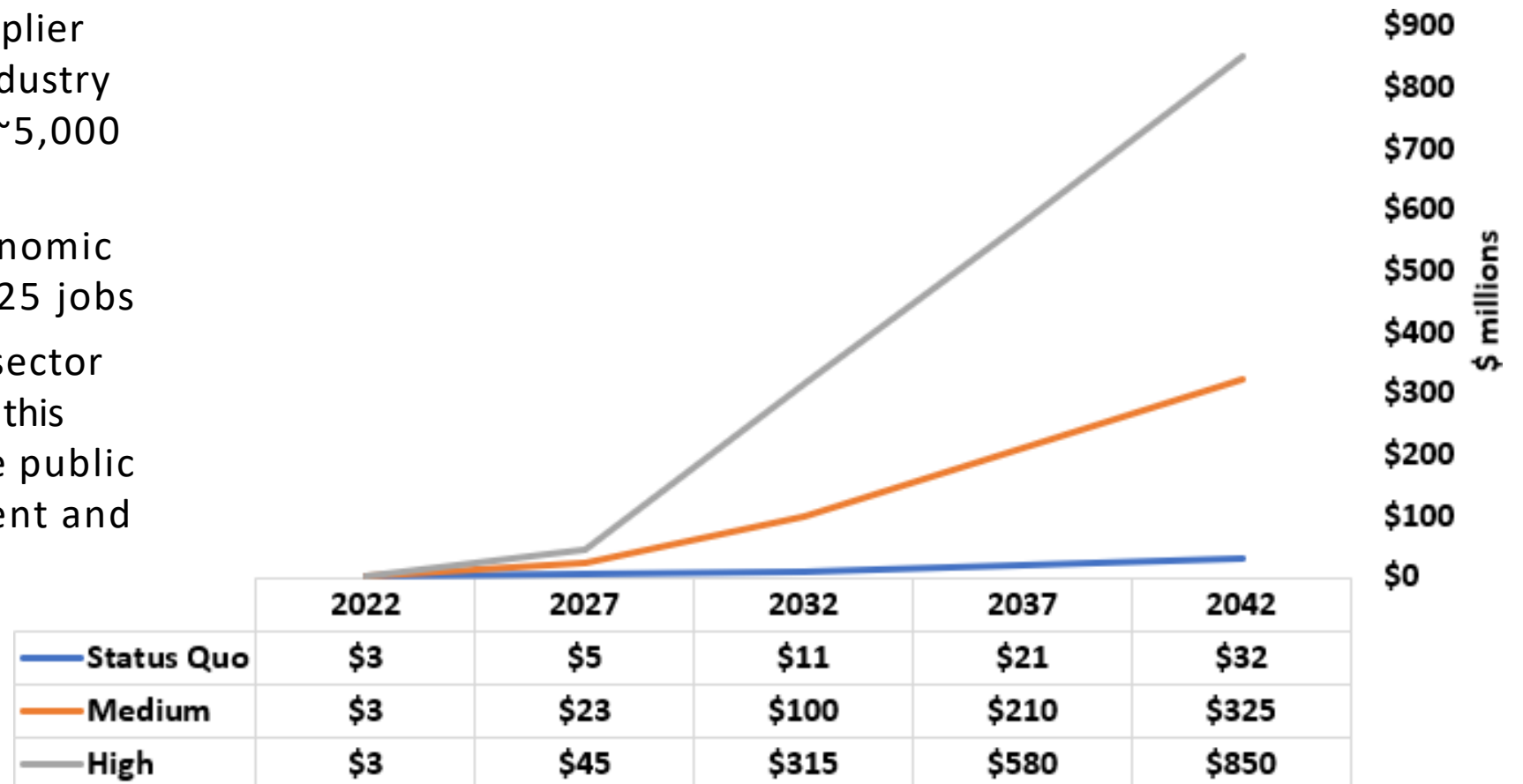
- Currently mariculture is roughly a \$2M dollar industry in Alaska by revenue
- Could grow to \$7M (low), \$60M (medium), or \$185M (high) in ten years
- Seaweed the majority of the revenue in these models
- Medium and High cases depend on BBBRC award or similar government investment



Alaska Mariculture Industry Revenue Projections (\$millions)

Industry Trajectory - Economic Output

- Economic Output with multiplier effects up to \$850 million industry in 20 years (high case) with ~5,000 jobs
- Medium case is \$325 in economic output in 20 years with ~1,825 jobs
- \$100s of millions in private sector investment needed achieve this growth as well as aggressive public sector economic development and policy support

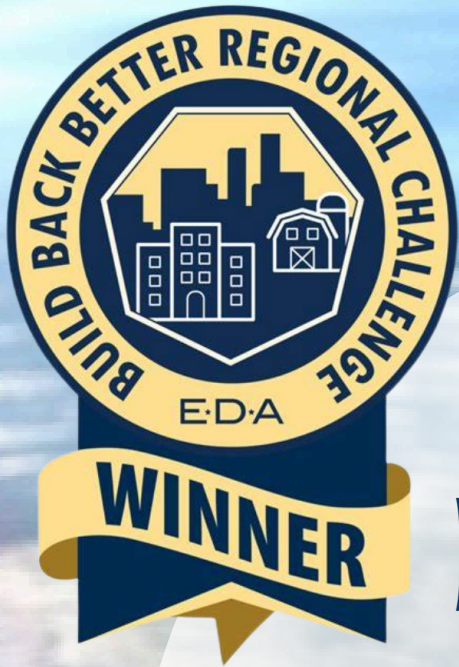


New Positions (12) & Funding Secured (\$110 million+)

- **Key new positions created & filled (12):**
 - NOAA – RAC + Mariculture Research Lead
 - 2 x ADNR – lease application process
 - UAF – assistant professor (seaweed)
 - Mariculture Specialist, Alaska Sea Grant
 - MRTC Director, Alaska Sea Grant
 - 5 x AK Sea Grant Fellows
 - AMA Executive Director
 - More rolling out under BBB
- ARPA-E **\$2.5 million** seaweed research
- USDA **\$500K** for mariculture incubator processing facility (SEC)
- USDA **\$500K** for OceansAlaska; **\$100K** for Naukati project
- EVOS TC **\$32 million** mariculture research
- EDA BBB **\$49 million + 20% match = \$65 million**
- Alaska Legislature **\$5 million** mariculture matching grant program
- Alaska Legislature **\$5 million** to University for mariculture

MADE IN ALASKA

MARICULTURE



ALASKA
MARCULTURE
CLUSTER

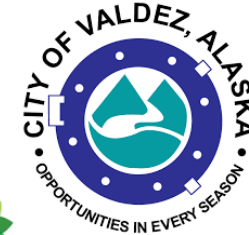
*The US Economic Development Administrations (EDA)
Build Back Better Regional Challenge program provides
transformational investments to develop and
strengthen regional industry clusters across the
country, embracing equitable economic growth,
creating jobs, and enhancing U.S. global
competitiveness*

*Accelerating a viable
and sustainable
mariculture industry
for the long-term
benefits of Alaska's
economy,
environment, and
underserved
communities*



**SOUTHEAST
CONFERENCE**

Partnerships,
Planning &
Preparedness
+
Opportunity
= Success



Component Projects + Sub Recipients

RLF

Governance,
Coordination
& Outreach

Workforce
Development

Research &
Development

Marketing

Green Energy

Equipment &
Technology

Spruce Root
TCFU

KPEDD
PWEED
SWAMC

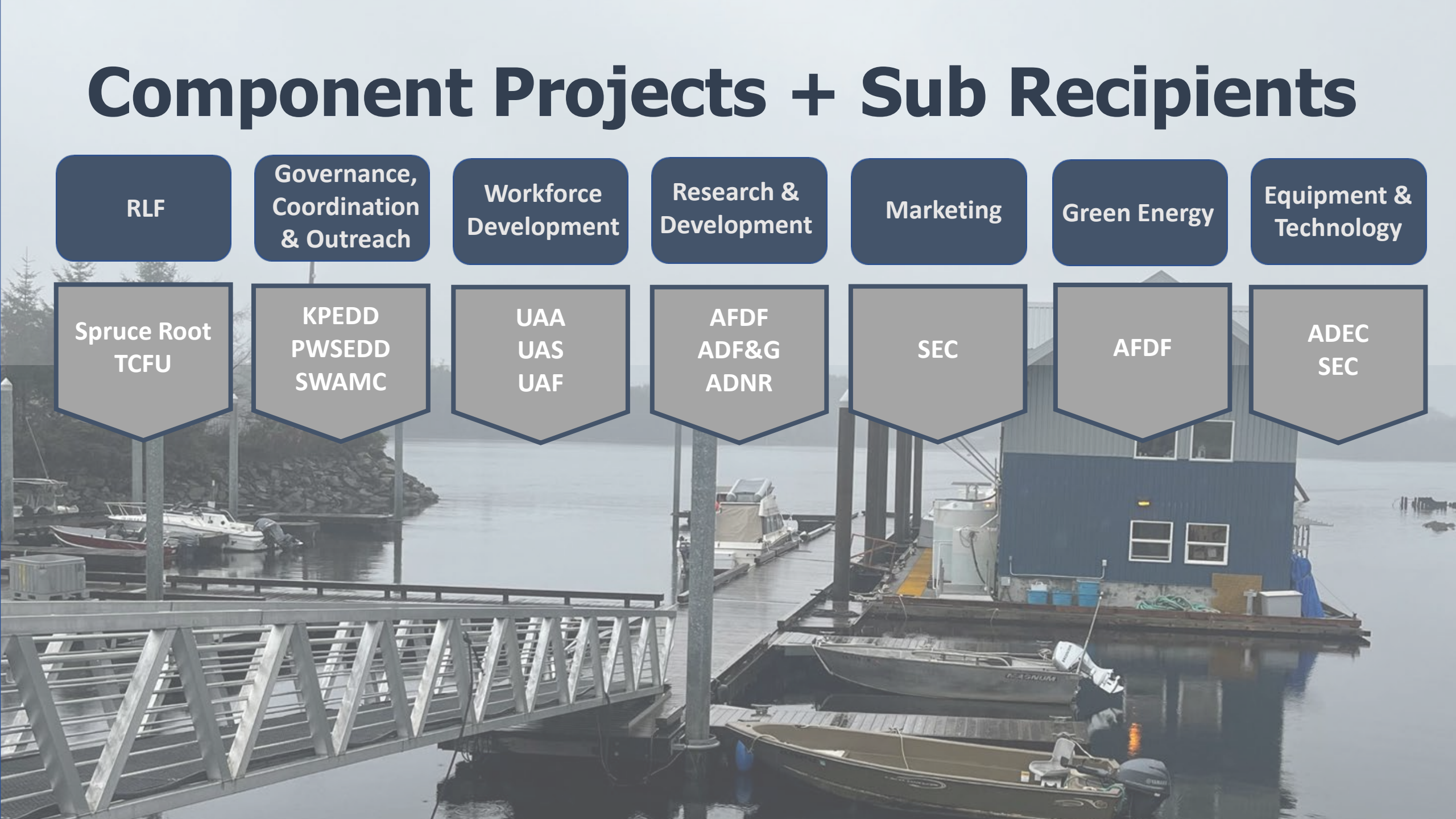
UAA
UAS
UAF

AFDF
ADF&G
ADNR

SEC

AFDF

ADEC
SEC



Project Descriptions

RLF	Governance, Coordination & Outreach	Workforce Development	Research & Development	Marketing	Green Energy	Equipment & Technology
\$10 MILLION <ul style="list-style-type: none">• Start-up Capital• Broader Collateral Definitions• Gap Financing• Technical Assistance	\$3.5 MILLION <ul style="list-style-type: none">• Governance Body• Communications & Public Relations Plan/Implementation• Regional Outreach Liaisons	\$10.5 MILLION <ul style="list-style-type: none">• New Curriculum & Certificate Programs at UAS, UAA, & UAF• Hands-on Training• Oyster & Seaweed Training Manuals• Knowledge Exchange	\$9.5 MILLION <ul style="list-style-type: none">• Seaweed Tissue Analysis• Product Development R&D• Applied Technologies Acceleration• Annual Conference• Carbon Sequestration R&D	\$1.2 MILLION <ul style="list-style-type: none">• B2B & B2C Market Research• Development of Buyer's Guides & Other Assets• Marketing Program Implementation	\$0.7 MILLION <ul style="list-style-type: none">• Long-Term Green Energy Plan• Collect Energy Data• Create Analysis & Recommendations• "Best Practices" Guide	\$26 MILLION <ul style="list-style-type: none">• Feasibility Studies• Processing & Hatcheries Equipment Purchases• PSP Lab Equipment for ADEC• Seed Supply, Site Selection, & Monitoring Program

**THE AMC'S GOVERNANCE
BODY WILL ALLOW TIME
FOR CONVERSATIONS,
TRUST BUILDING AND
APPROPRIATE PLANNING
WITHIN UNDERSERVED
POPULATIONS AND
COMMUNITIES TO ENSURE
THE EQUITABLE
DISTRIBUTION OF THE
BENEFITS OF MARICULTURE
THROUGHOUT COASTAL
ALASKA.**



ALASKA MARICULTURE CLUSTER



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Check for updates and join our mailing list:

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