ALASKA MARICULTURE CLUSTER

THEORY OF CHANGE





Within Grant Period (2023-2026)

ACTIVITIES

5 Years (2023-2031) INTERMEDIATE OUTCOMES

Within Grant Period +

Equipment Purchases and -> Increased Processing Capacity

R&D on Products, Processing, -> Innovative Products and and Seaweed Tissue

Processing Techniques

Investments

Feasibility Studies

Hatchery/Nursery → Adequate Seed Supply

Equipment

New PSP Testing → Increased Regulatory efficiency

and Training

Workforce Development → Broadly Distributed Skills, Ownership, and Participation

Energy Efficiency

Green Energy and → Low Carbon Industry

Revolving Loan Fund -> Increased Private **Investment and Startups**

Resources, Services, and Investments

Equitable Distribution of -> Sufficient and appropriate mariculture investments in Alaska Native and underserved communities

Communications

Conferences and → Knowledge Exchange

Industry PR and Outreach → Industry Awareness

and Public Support

Marketing and Promotions → Increased Sales of

Existing Products

Within 5-10 Years After Grant Period (2032-2036)

LONG-TERM

Reduce cost

structure for

Alaska mariculture

industry

Grow Alaska mariculture industry equitably and sustainably

Create new markets and expand demand for Alaska mariculture products

Within 10-20 Years After Grant Period (2036-2046)

OVERARCHING

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

> For more information, please see our website at alaskamariculturecluster.org

TARGETS

- 25% of Cluster resources to **AK Native populations**
- 25% of Cluster resources to underserved communities

ECONOMIC GOALS

- Grow a \$100 million industry in ten years and a \$325 million industry in 20 years
- 550 jobs in 10 years and 1,800 jobs in 20 years

KEY ASSUMPTIONS

- Public investments to de-risk the mariculture sector will catalyze sufficient private investment to spur industry growth
- Alaska is positioned to be a global leader in mariculture due to its ample coastline, existing seafood infrastructure, and workforce
- Simultaneous investments and innovations throughout the value chain will overcome chicken-and-egg barriers
- The AMC coalition can contribute to a new approach to equitable economic development
- Mariculture business and job creation can be aligned with the lifeways of Alaska Native and rural residents in coastal Alaska