Sea Grant 10-Year Aquaculture Vison

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NOAA Aquaculture Funding

- Over the past two years, NOAA has invested over \$40M in extramural aquaculture research through Sea Grant
 - ~\$20M via National Initiatives and ~\$4M via state competitions), the National Marine Fisheries Service
 - ~\$10M via regional fisheries commissions as well as several Saltonstall-Kennedy awards)





NOAA Aquaculture Funding

- NOAA Small Business Innovative Research (SBIR) grants (~\$4M).
 - A majority of these funds have focused on addressing science priorities and permitting issues and have engaged university researchers and extension professionals, NOAA scientists and industry partners on two to three year projects, most of which are still ongoing.





2016 Vision

- Commerce
- Permitting and Policies
- Current and Emerging Species
- Production Systems
- Seafood Safety and Quality









10-YEAR NOAA SEA GRANT AQUACULTURE VISION

March 2016

Prepared by the Sea Grant Association







Sea Grant Aquaculture Visioning

- The Sea Grant Network developed a national strategy for communicating about aquaculture.
- This communications strategy built on a 10-year vision for aquaculture developed by the Sea Grant Network in 2016.
- These national coordination efforts will strengthen local and national investments by Sea Grant to advance aquaculture in the coming years.





Input for the Vision

 Priority Sea Grant Focus Areas for the Vision were based on input from Sea Grant Programs. Twenty-two of the 33 Sea Grant programs provided input in the development of a forward-looking online survey.





Obtaining Input

- Survey questions were designed to:
 - Identify three national-level and three state-level marine and Great Lakes aquaculture issues.
- Follow-up questions for each issue obtained input on:
 - How Sea Grant should respond to the issue,
 - what resources would be needed to adequately respond, and
 - an example statement describing a successful response.



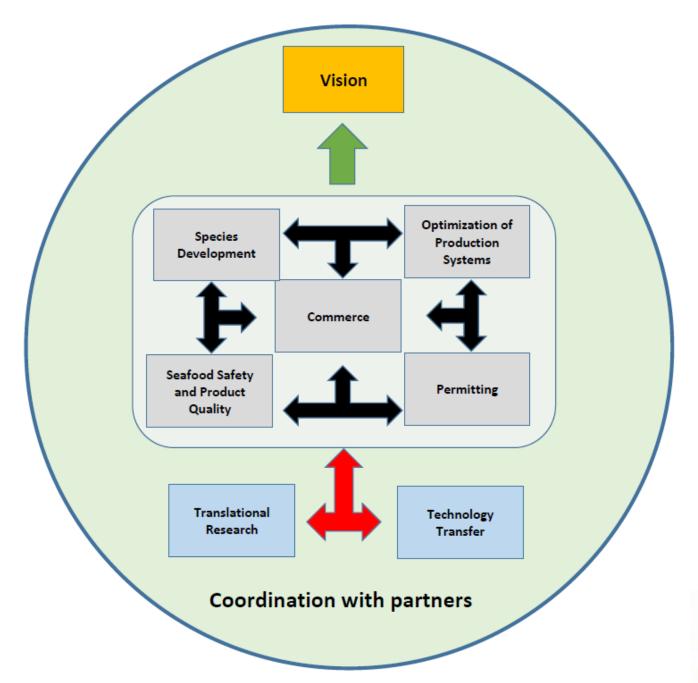


Vison

Sea Grant will be instrumental in creating and applying new aquaculture products, tools and services to foster the expansion of a sustainable marine and Great Lakes aquaculture industry.











Summary of Vision Priorities

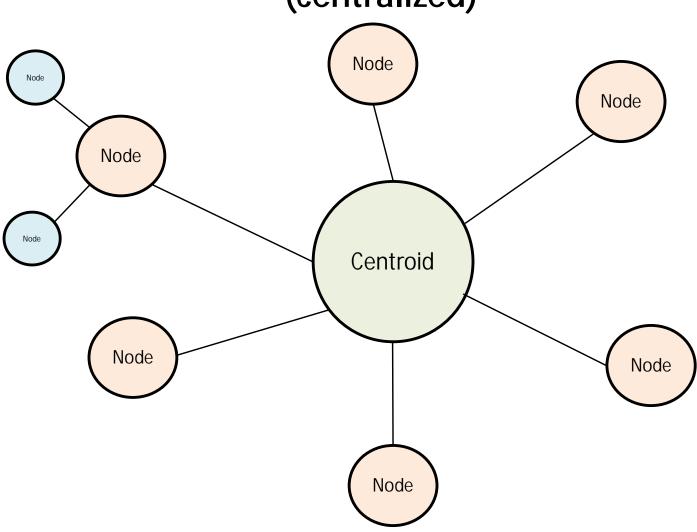
Focus Area	Areas to Invest Resources		
	Research	Outreach	Partnership
Commerce	Detailed economic analysis of cost of production for various species and systems.	Business and marketing workshops.	Nurture partnerships with ongoing marketing programs with industry organizations and other marketing efforts.
Permitting and Policy	Extensive background analysis of state laws and policies.	Law and policy workshops and facilitate dialogue among permitting agencies.	State and federal permitting agencies and the private sector.
Current and Emerging Species	Hatchery and seed stock production technologies and production protocols for emerging species.	Applied demonstration workshops, support outreach personnel to work directly with existing and new aquaculture producers.	Research institutions, agencies and the commercial sector.
Production Systems	Production system and emerging species hatchery and seed stock production technologies/production protocols.	Applied demonstration workshops and support outreach personnel to work directly with existing and new aquaculture producers.	Integrate/ leverage existing infrastructure capacity at partner institutions to enhance outreach and demonstration capacity.
Seafood Safety and Quality	Develop new and enhance existing seafood safety tools and new products.	Develop new and enhance existing seafood safety services and technology transfer programs.	Develop new partnerships and leverage existing partnerships with seafood safety agencies (e.g. FDA and USDA).

Implementing the Vision

- 33 placed based aquaculture research funding requests through Sea Grant programs
- Advanced Aquaculture Collaborative Programs
 - Invest in developing integrated teams of professionals focused on accelerating the development of specific aquaculture topics

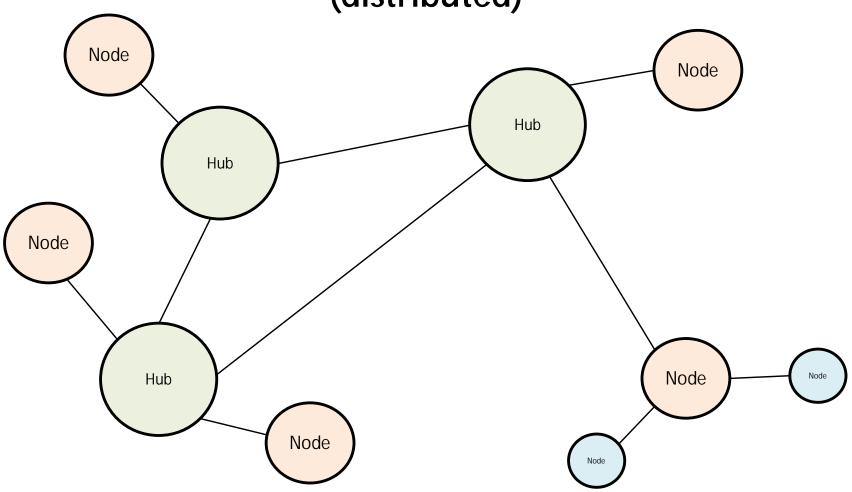
Topical Research and Extension Hub

(centralized)



Topical Research and Extension Hub

(distributed)



Implementing the Vision

Exploring New Aquaculture Opportunities

 Support dialog among stakeholders in regards to the development of new, and at times higher-risk, opportunities for specific topics and/or geographies for which minimal foundation currently exists to inform and focus potential future investments.

Implementing the Vision

- Social, Behavioral, and Economic Research Needs in Aquaculture
 - Support research to address critical gaps in social, behavioral, and economic knowledge as it relates to U.S. aquaculture and the communities impacted and served by it.

External Partnerships

- Within NOAA
- Across other agencies
- Private sector

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