



RESPONSIBLE OFFSHORE
SCIENCE ALLIANCE

ROSA Advisory Council Meeting
November 23, 2020

Agenda

COOPERATION
COLLABORATION
SCIENCE BASED
DATA DRIVEN

- 9:00 Welcome
- 9:10 Fisheries Science around Offshore Wind Updates
- 9:20 Review of ROSA structure, roles, & decision making
- 9:30 Update on ROSA Research Advisors
- 9:40 ROSA Interim Fisheries Monitoring Guidance
- 10:00 Fisheries Data Management
- 10:45 BREAK
- 10:55 Priority Setting for the Longer Term
- 11:40 Activities for 2021
- 12:00 Adjourn



Fisheries
Science around
Offshore Wind
Science
Updates



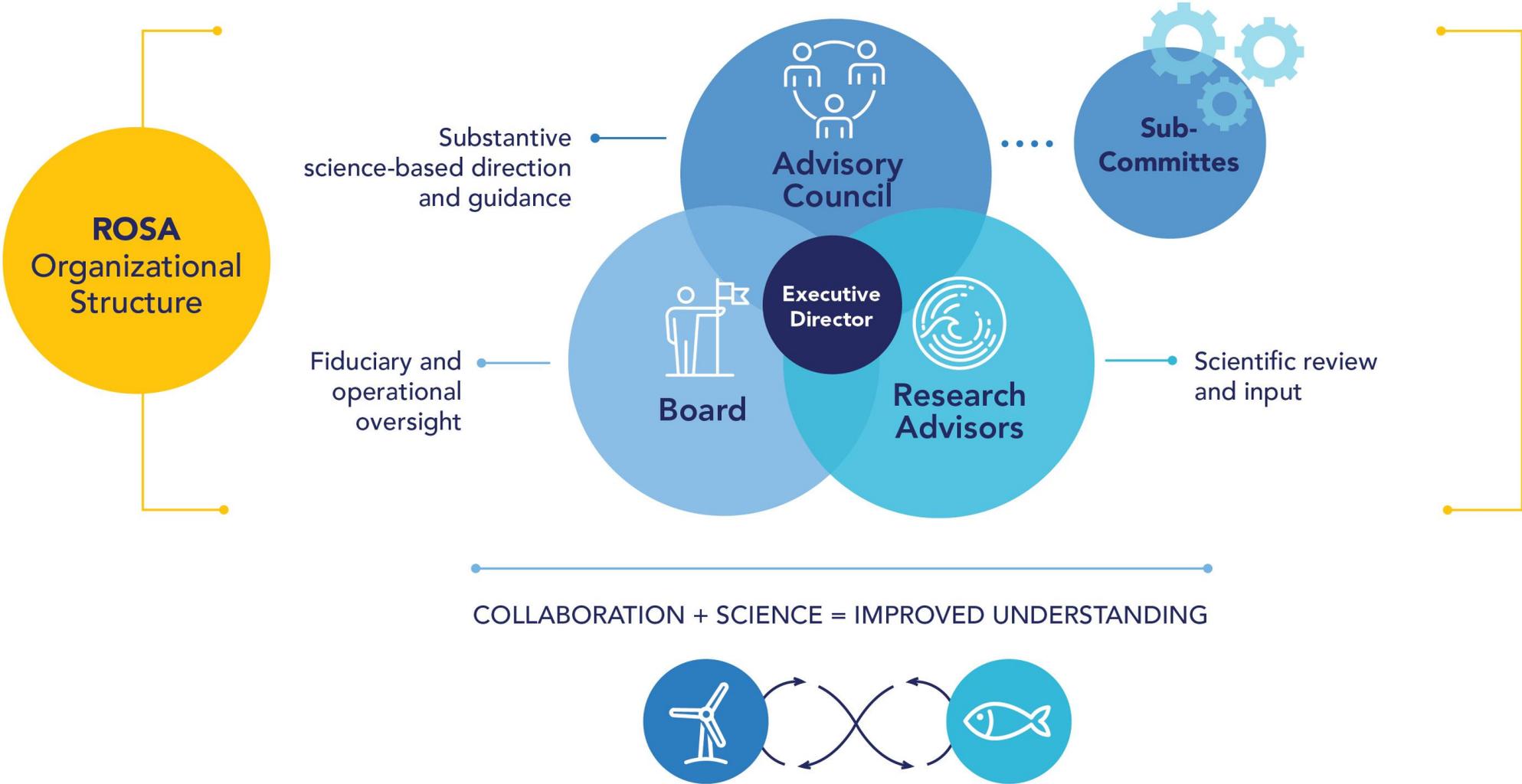
Fisheries Science Updates

- Recent procurements and introduction to requests for regional monitoring funding
 - New York
 - New Jersey
- Synthesis of the Science Workshop: Interactions between Offshore Wind Development and Fisheries
 - Updates and next steps
- State of the Science Workshop on Wildlife and Wind Energy
 - Updates and next steps

Review of ROSA
structure, roles,
and decision
making



ROSA Organizational Structure



ROSA Governance & Roles

	Board of Directors	Advisory Council	Research Advisors	Committees
Members	<ul style="list-style-type: none"> Offshore wind developers Fishing industry representatives 	<ul style="list-style-type: none"> Offshore wind developers Fishing industry representatives Federal and state agencies Fisheries Councils and Commission 	<ul style="list-style-type: none"> Membership open to any sector if criteria is met 	Could be members of: <ul style="list-style-type: none"> Advisory Council Research Advisors Board of Directors Others outside of ROSA governance with the appropriate expertise
Roles & Responsibilities	<ul style="list-style-type: none"> Fiduciary, operational, and policy oversight Follows formal board procedures (motions, votes, etc.) 	<ul style="list-style-type: none"> Organization guidance, including determining short- and long-term research goals 	<ul style="list-style-type: none"> Provides independent scientific and technical input Contribute to development and advancement of scientific integrity of ROSA activities 	<ul style="list-style-type: none"> Conduct core, detailed work May be issue- or area-specific Chair(s) determined by Advisory Council
Examples	<ul style="list-style-type: none"> Reviewing and approving ROSA's operating budget Audit oversight 	<ul style="list-style-type: none"> Determining regional research needs Reviewing ROSA protocols, procedures, & documents 	<ul style="list-style-type: none"> Help develop protocols and tools Develop/review RFPs Provide peer review 	<ul style="list-style-type: none"> New England/Mid-Atlantic committees Monitoring Plan Guidance
Meeting frequency	<ul style="list-style-type: none"> Monthly to quarterly 	<ul style="list-style-type: none"> At least 2x per year 	<ul style="list-style-type: none"> As needed 	<ul style="list-style-type: none"> Varies based on committee goals and timeline
Decision-making	<ul style="list-style-type: none"> Consensus, with majority vote if absolutely needed 	<ul style="list-style-type: none"> Consensus and broad acceptance or support 	<ul style="list-style-type: none"> Advisory only 	<ul style="list-style-type: none"> Makes recommendations or advice to Council by consensus. Including any differences remaining

ROSA Advisory Council Executive Committee

- Works with the Executive Director to plan and coordinate the Council
 - Plan agendas, meetings, and work
 - Help address issues, problems, or conflicts that arise in Council meetings
 - Generally ensure the smooth functioning of the Council
 - Report the views of and gather input from the other members within their sector on the Council
 - Represent more than their views to help guide the success of the Council as a whole

ROSA Advisory Council Executive Committee

- Rachel Pachter, Vineyard Wind, ROSA board co-chair and New England developer rep
- Jennifer Daniels, Atlantic Shores, Mid-Atlantic developer rep
- Peter Hughes, Atlantic Capes Fisheries, ROSA board co-chair and Mid-Atlantic commercial fishing rep
- Eric Reid, Seafreeze Shoreside, New England commercial fishing rep
- Mike Pol, MA DMF, New England state rep
- Greg Lampman, NYSERDA, Mid-Atlantic state rep
- Peter deFur, MAFMC, Council/Commission rep
- Andy Lipsky, NEFSC, Federal Agency rep
- Mike Pierdinock, CPF Charters, recreational fishing rep



Update on the ROSA Research Advisors



ROSA Research Advisors- Progress to Date

- Introduced at Advisory Council meeting in September
- Draft criteria for members sent to ROSA Advisory Council for review
- Discussion with Council Executive Committee- revised name from “Research Advisory Board” to “Research Advisors;” will begin as a panel of diverse expertise to draw on as needed and varying by task or purpose
- Call for Research Advisors opened on November 12
- Informational webinar held November 19
- Application deadline December 19

ROSA Research Advisors' Role



- Provides **independent scientific input** and **review**
- Help identify **detailed scientific needs** based on Advisory Council direction and committee work
- Contribute to the development of effective and **consistent research and monitoring protocols, standards, and tools**
- Review and assist with developing **Requests for Proposals (RFPs)**
- Provide independent **peer review** as needed
- Serve as **subject matter experts** to contact as needed for scientific input
- Contribute to development and advancement of **scientific integrity** of ROSA activities

ROSA Research Advisors: Membership Criteria

- Have demonstrated expertise & experience in **fisheries research, monitoring or related scientific discipline** that can inform fisheries science (i.e. oceanography, biogeochemistry, marine ecology, socioeconomics, etc.)
- Demonstrated **subject matter expertise** through advanced degree in fisheries biology, marine science, oceanography or related field **OR** long-term **professional experience** in collaborative fisheries research (including fishermen and fishing industry members)
- Demonstrated ability to work in **collaborative processes** and effectively with others
- May be from academia, state or federal government, Fisheries Councils and Commission, independent research organizations, consulting firms, non-profits, etc.
- Membership is not limited to the ROSA-focused geography- applications from throughout the US and internationally are welcome
- Members will be eligible to apply for ROSA-administered funds but shall recuse themselves when appropriate
- Funds (such as travel or honorarium) may be available to support Research Advisors participation in ROSA activities, as appropriate

ROSA Interim
Fisheries
Monitoring
Guidance



ROSA Interim Fisheries Monitoring Working Group



- Partnership with **NOAA Fisheries NEFSC** and **GARFO**
- Members include:
 - Federal and state agency representatives
 - Researchers/Academics
 - Fishermen and RODA staff
 - Developer fishery staff
 - Several are also NTAP members
- Longer term goal of more **detailed guidance, regional monitoring plan**, and **data storage and sharing protocols**
- Builds upon existing **BOEM guidance** and **member expertise** to highlight **best practices** and elements that could help **improve future monitoring plan submissions**

Template-style guidance focusing on:



Monitoring Plan Objectives

- **Fisheries Monitoring Plan Objectives for Offshore Wind Projects**
- Plans should clearly define purpose, objectives assumptions, and testable hypotheses
- Guidance describes several objectives monitoring plans should address at a minimum

Sampling Design

- **Development of Sampling Design for Project Monitoring**
- Sampling design should address monitoring plan objectives
- Guidance describes sampling design elements such as power analysis, sampling frequency, design strategy (i.e. BACI/BAG), and duration of monitoring during construction phases

Sampling & Analytical Methods

- **Description of Sampling and Analytical Methods**
- Describes components of sampling methods that should be included such as gear types (and advantages/disadvantages of each), operational protocols, and types of information collected
- Outlines goals of analytical methods and examples of statistical methods that could be used to assess change

Interim Guidance Considerations



- This initial guidance should be considered **INTERIM**
 - Longer term goals to delve into more **detailed guidance**
 - Guidance development process has shown **complexity** of components
- Monitoring plans will likely **adapt** over time
- Guidance should be considered a **living document**
- Plan acknowledges but not resolve:
 - **Cumulative** or **across-project** considerations
 - Access concerns for **long-term surveys** or **fishery dependent data**
 - Methods of assessing potential **socioeconomic impacts**
 - Development of **research** beyond monitoring goal
 - **Data sharing** protocols
- First step of many to improve our **regional coordination** for research and monitoring

Guidance Timeline

- **June 2020-** Working group began meeting
- **July through October 2020-** Working Group met regularly to draft guidelines
- **October 15, 2020-** Breakout group discussion to introduce guidance at Synthesis of the Science Workshop
- **October 29, 2020-** Draft released for public comment
- **December 1, 2020- Draft Guidance comments due (deadline extended from November 18)**
- **December 2020-** Working group reconvenes
- **January 2021-** Goal: Incorporate comments and finalize draft

Next Steps

- Began work as an **Interim** Fisheries Monitoring Working Group
- **Terms of Reference (ToRs)**
 - **ToR 1: Interim Guidance.** Develop an interim general guidance document that provides clear recommendations and principles for research and monitoring of fisheries resources at offshore wind farms. Timeline ~3 months
 - **ToR 2: Detailed Guidance.** Develop a detailed fisheries research and monitoring guidance document that clearly describes coordination and how to develop a research and monitoring program for offshore wind farms. Timeline ~6 months
 - **ToR 3: Regional Plan.** Develop a clear plan for regional research and monitoring conducted at offshore wind farms. Timeline ~1 year
 - **ToR 4: Data Storage and Sharing.** Define a protocol for reporting, sorting, curating, sharing and dissemination of data for all stakeholders. Timeline ~1 year
- **Next Steps?**
 - Continue to refine current guidance
 - Begin addressing additional ToRs?
 - ToR 2 and 3 build upon ToR1
 - ToR 4- next agenda item?
 - Develop other guidelines- i.e. outline components of socioeconomic analysis?
 - Interim working group = ROSA committee?

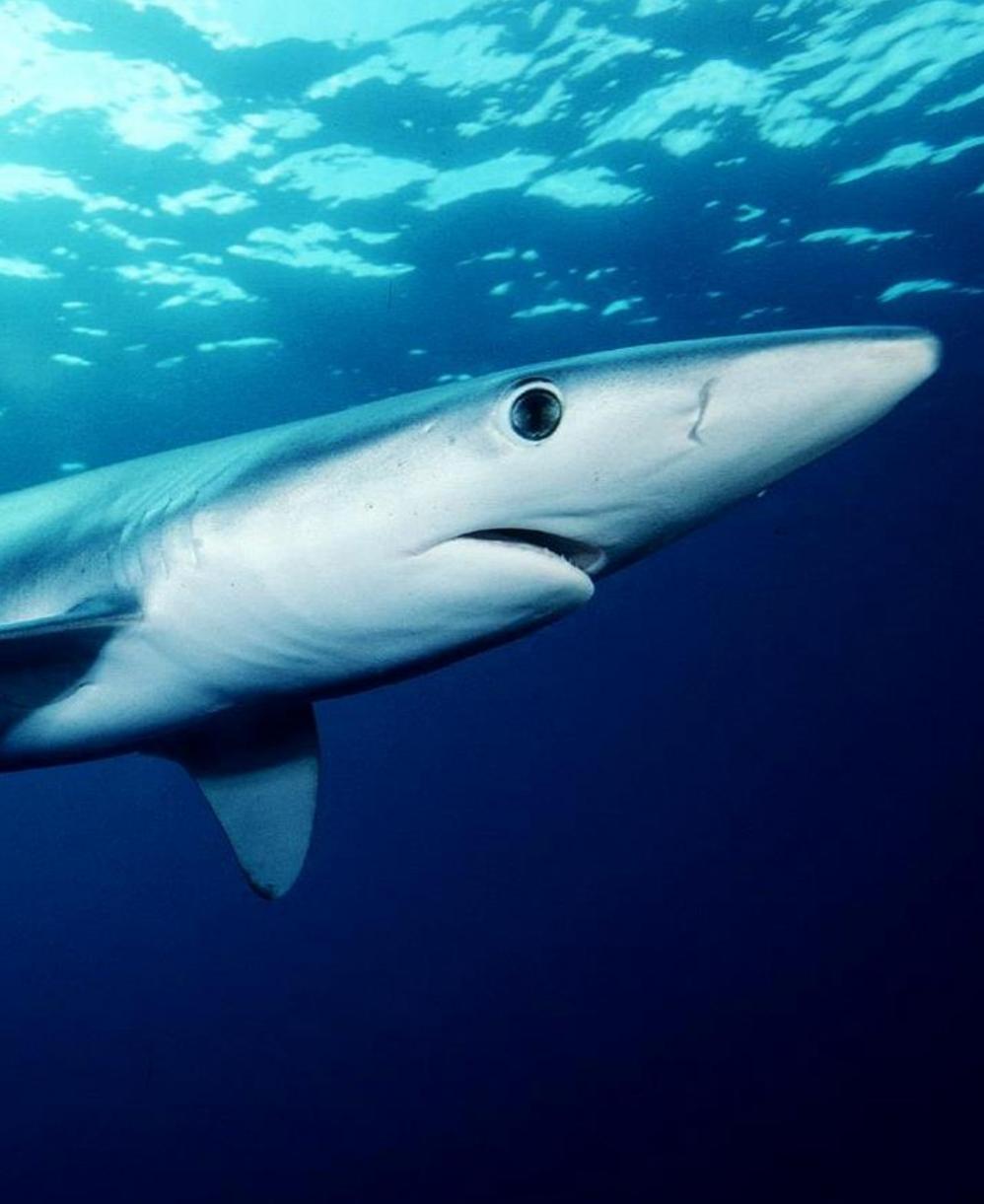
Fisheries Data Management



Fisheries Data Management

- Goal for data management = Interim Fisheries Monitoring Working Group ToR 4?
 - **ToR 4: Data Storage and Sharing.** Define a protocol for reporting, sorting, curating, sharing and dissemination of data for all stakeholders. Timeline ~1 year
- Types of data collected:
 - Indices of Abundance and Occurrence:
 - Absolute or relative abundance by species (numbers & weight per tow)
 - Presence/absence by species (percent frequency of occurrence)
 - Individual Fish Condition (e.g., length, weight, maturity, diet, age, etc.)
 - Environmental Variables:
 - Oceanographic variables (e.g., temperature, depth, salinity, dissolved oxygen)
 - Sensory variables (e.g. Electromagnetic field (EMF), noise, etc.)
 - Bottom type/benthic habitat
 - Sampling design information:
 - Vessel, gear, and gear configuration
 - Operational protocols
 - Sampling locations
 - Socioeconomic data

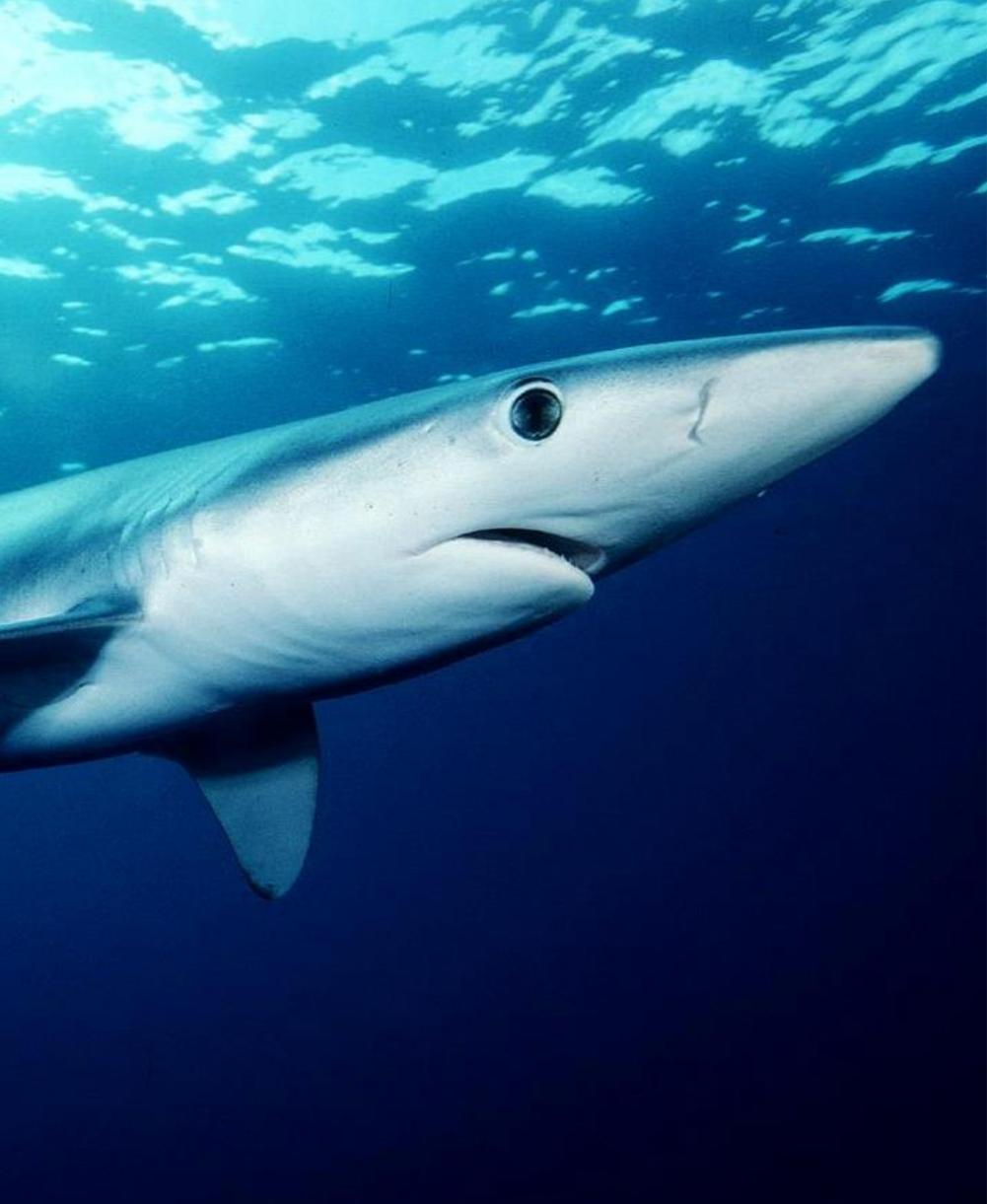
Fisheries Data Management



- Examples of existing databases and portals

- Atlantic Coast Cooperative Statistics Program (*detailed data base with extensive data sets*)
- Regional data portals (NROC & MARCO; *summary and synthesis products for use by state & federal agencies and others*)
- MARACOOS/NERACOOS (*detailed near real-time data collection and management network with primarily oceanographic data*)
- International Council for the Exploration of the Sea (ICES) data portals (*includes portals for trawl surveys, eggs and larvae, plankton, oceanographic data, and others*)
- Other data visualization and planning portals- Marine Cadastre, state-led portals, etc.
- Research databases- NOAA, NEFSC, VIMS, SMAST
- Others?

Fisheries Data Management



- **Questions:**

- Please enter into MENTI **other data bases** or places for data you go to for fisheries data
- What are ways ROSA can contribute to improving **coordination and efficiency of data management, storage, and access**?
- What are our **next steps**?
 - ROSA prepare background/ summary paper of types of data, existing tools, limitations and gaps?
 - Working group/Committee? Under existing monitoring group or new?
 - What sectors/interests/ organizations should be included, including those relevant but not ROSA members
- Please enter into MENTI **other organizations** that could be included in a data work group

Priority Setting for the Longer Term

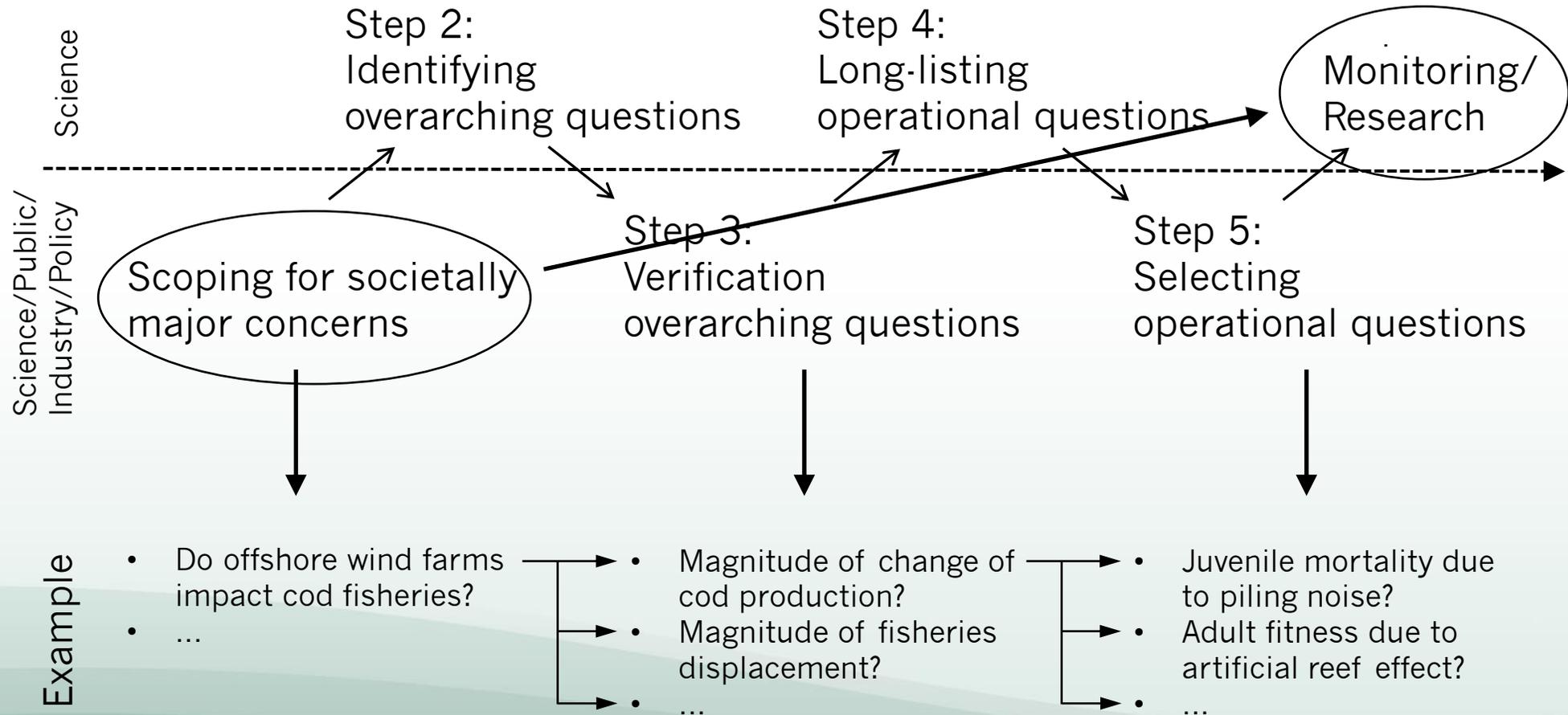


Priority Setting



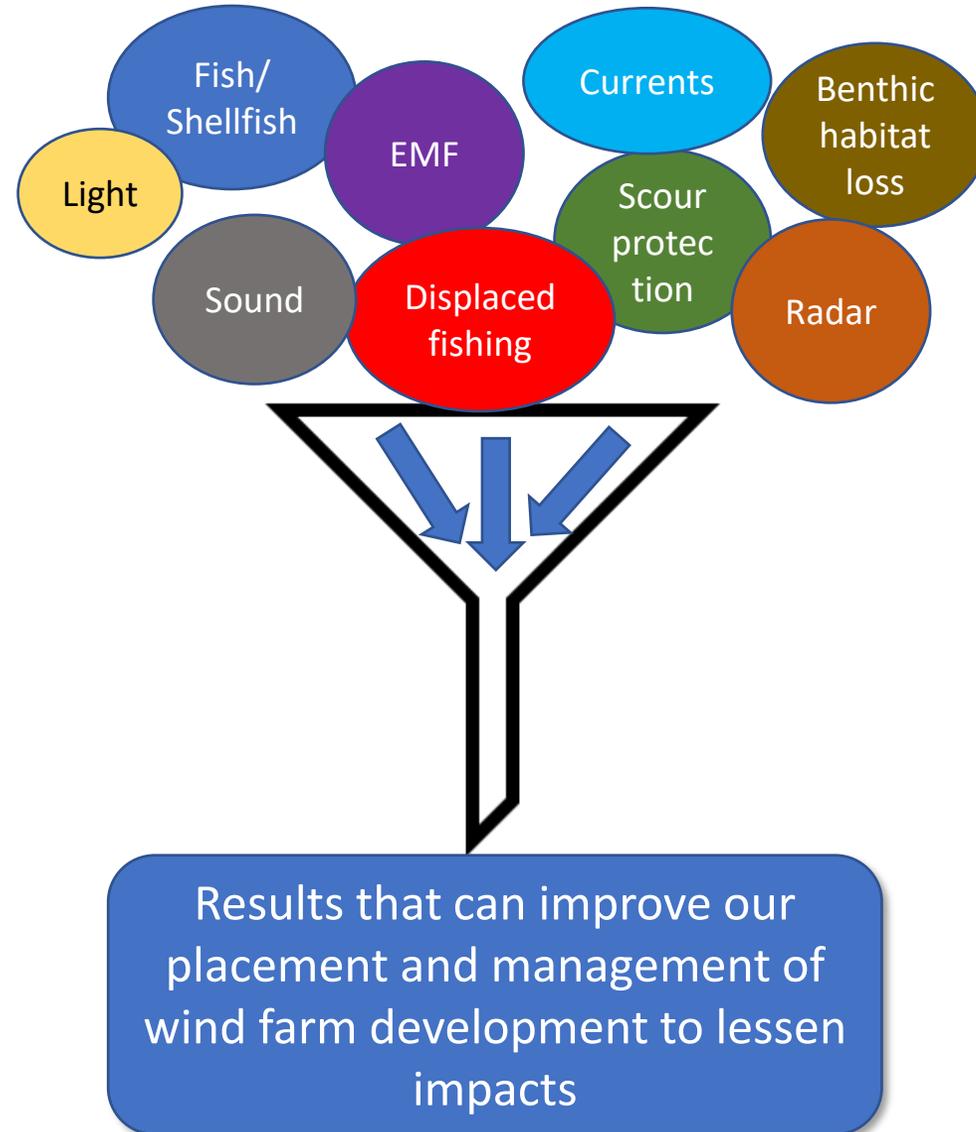
- Ongoing culmination of research efforts:
 - Synthesis of the Science for Fisheries and Offshore Wind white paper
 - State of the Science on Wildlife and Wind Energy and associated working groups
 - NREL/PNNL US Offshore Wind Synthesis of Environmental Effects Research (SEER)
- Given what is coming the ROSA Council's way, what might be a good process for prioritizing research to create a 3-to-5-year research agenda?
- Process examples from US and European projects

Focusing and prioritising monitoring and research

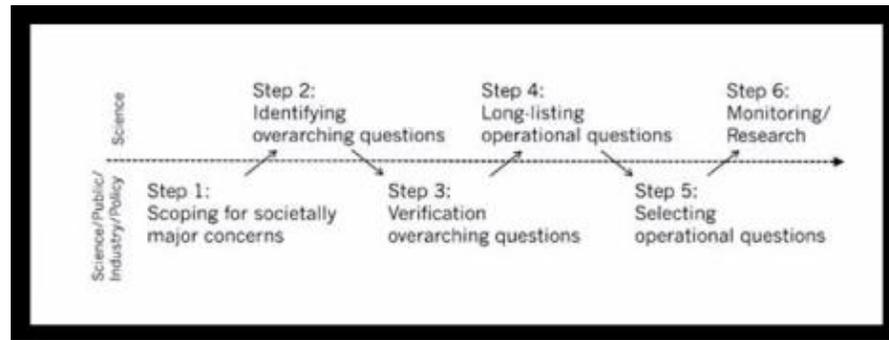


MA/RI/BOEM Approach

- Recognized need to prioritize concerns
- Once funding was available, we had to figure out how to spend it



MA/RI/BOEM Approach



- Funding! Rescoping of priorities
 - Relied on Mass Fisheries Working Group, RI Fisheries Advisory Board
 - Used backgrounder as a guide, updated based on funding available, most recent priorities
 - [Recommended Fisheries Studies for Offshore Wind Development](#)

Steps 1-4

- Background, initial scoping

Step 1

- [Management Objectives and Research Priorities for Offshore Wind and Fisheries](#)

- Written with input from multiple states and federal agencies

Steps 2-3

- Public review and feedback

- RFP issued; proposals reviewed

- Very transparent review, all narratives released to working groups for feedback

Step 5

- After public review stage, technical review stage with reviewers selected to ensure no conflict of interest and technical expertise in the topic

MA/RI/BOEM Lessons Learned

Challenges

- Overload – when to pay attention to what, what meeting to go, what document to review
 - Our process overlapped with permitting processes
- Who gets to decide?
 - Verification and selection of priorities – not a clearly established process, not everything could be studied, not everyone got what they wanted
- Participation viewed as giving in to windfarms

Wins

- Transparency
- Unique public engagement on RFP review process
- Documentation of prioritization process
- Documentation of outstanding concerns

Breakout Groups

- 30 Minutes
- Breakouts for: 1) Council members: 2) Council Alternates and ROSA Board Members; 3) Others stay in Plenary for their breakout
- QUESTIONS
 - Should ROSA seek to inventory existing, on-going fisheries science projects that are recent or going on now in the region?
 - What process might the ROSA Council use to take the various State and Synthesis of the Science workshops, state or fisheries Councils research plans, and formulate a regional priority questions and needed research projects under each?



Breakout Report Outs

- Should ROSA inventory existing research in the region – YES or NO
 - ROSA Members **ONLY PLEASE** poll on this question in Menti (or alternates if standing in for a member)
- Briefly describe in 1 or 2 process suggestions for prioritizing research
 - **All participants** comments are welcome to add their thoughts in MENTI

Priority Setting for 2021



Priority Setting for 2021



PARTNERSHIP
COOPERATIVE RESEARCH
DATA ACCESS
COMMUNICATION

- Given all we've discussed, **where do we go from here in 2021?**
- **Possible near-term priorities for 2021**
 - Follow up to Interim Monitoring guidance
 - Data management, storage, and access
 - Developing a longer-term, 3- to 5-year research plan
 - Tracking related research across the region
 - Framing socioeconomic research
 - Identifying baseline data needs for commercial fishing
 - Identifying baseline data needs for recreational fishing
 - Proactive strategies for up-and-coming topics- floating wind, coordinated transmission, West Coast and other regions
 - Extending existing pilot studies
 - Identifying joint funding efforts or projects

Priority Setting for 2021



PARTNERSHIP
COOPERATIVE RESEARCH
DATA ACCESS
COMMUNICATION

- ROSA Council Members ONLY (or alternates in lieu of member) **please pick 3 priorities important to you for ROSA work in 2021** in Menti.
- **All may enter additional ideas important to you in Chat.**

Next Steps

