

The background of the slide is a photograph of a large, powerful ocean wave breaking, with white foam and spray visible. The water is a deep blue-green color. A semi-transparent teal banner is overlaid across the middle of the image, containing the text for the event.

Atlantic States Marine Fisheries Commission

May 07, 2025

Growing collaboration at the intersection of ocean development & fisheries



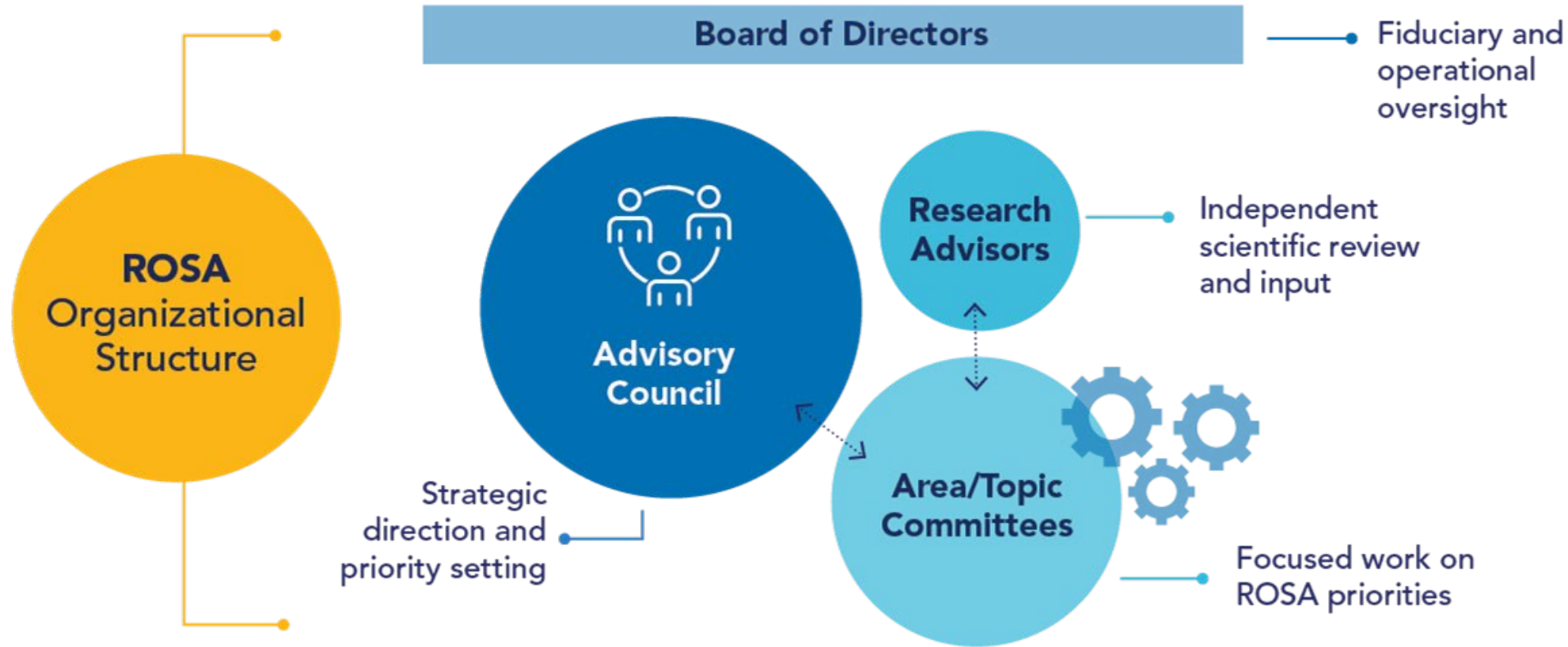
SCIENTIFIC
OBJECTIVE
COLLABORATIVE
TRANSPARENT

Inception:

Formed in early 2019 as a 501(c)3 through partnership between RODA and OSW developers

We serve as an objective resource for all sectors and facilitate the coordination of regional scientific research to collaboratively and efficiently deepen understanding.

ROSA's Organizational Structure



COLLABORATION + SCIENCE = IMPROVED UNDERSTANDING



ROSA

Fish & Fisheries Offshore Wind Research Database

(FishFORWRD)



Welcome to the **FishFORWRD Database**
Developed in Partnership by **ROSA**, **Attentive Energy**, and **WSP**



FishFORWRD | Fish and Fisheries OffshoRe Wind Database

- FishFORWRD is a catalog of all East Coast **research, monitoring efforts**, and stated **research needs** for offshore wind, fish, and fisheries.
- Included are research and monitoring funded specifically to understand offshore wind potential effects on fish and fisheries.
- The **objective** of FishFORWRD is to increase awareness of ongoing work, avoid duplication of efforts, and create a common understanding of research needs. This tool is meant for research funders, fisheries and offshore wind researchers, offshore wind developers, and the public.

How to use this Dashboard

- **Filter** projects and research needs by location, research category, methodology used, funder and more.
- **Download** database information to explore information outside of the webtool
- **Submit** new projects, new needs, and corrections

Explanation of Tabs

[Research Overview](#): View completed and ongoing projects with high level attributes. This includes funded research and implemented offshore wind developer Fisheries

Total Project Count 221	Developer Monitoring Plan Surveys 82
Total Unique Research Categories 11	Active East Coast Funding Entities 33
Total Identified Needs 323	Types of Methodologies Employed 20

What's in FishFORWARD

221
projects



82

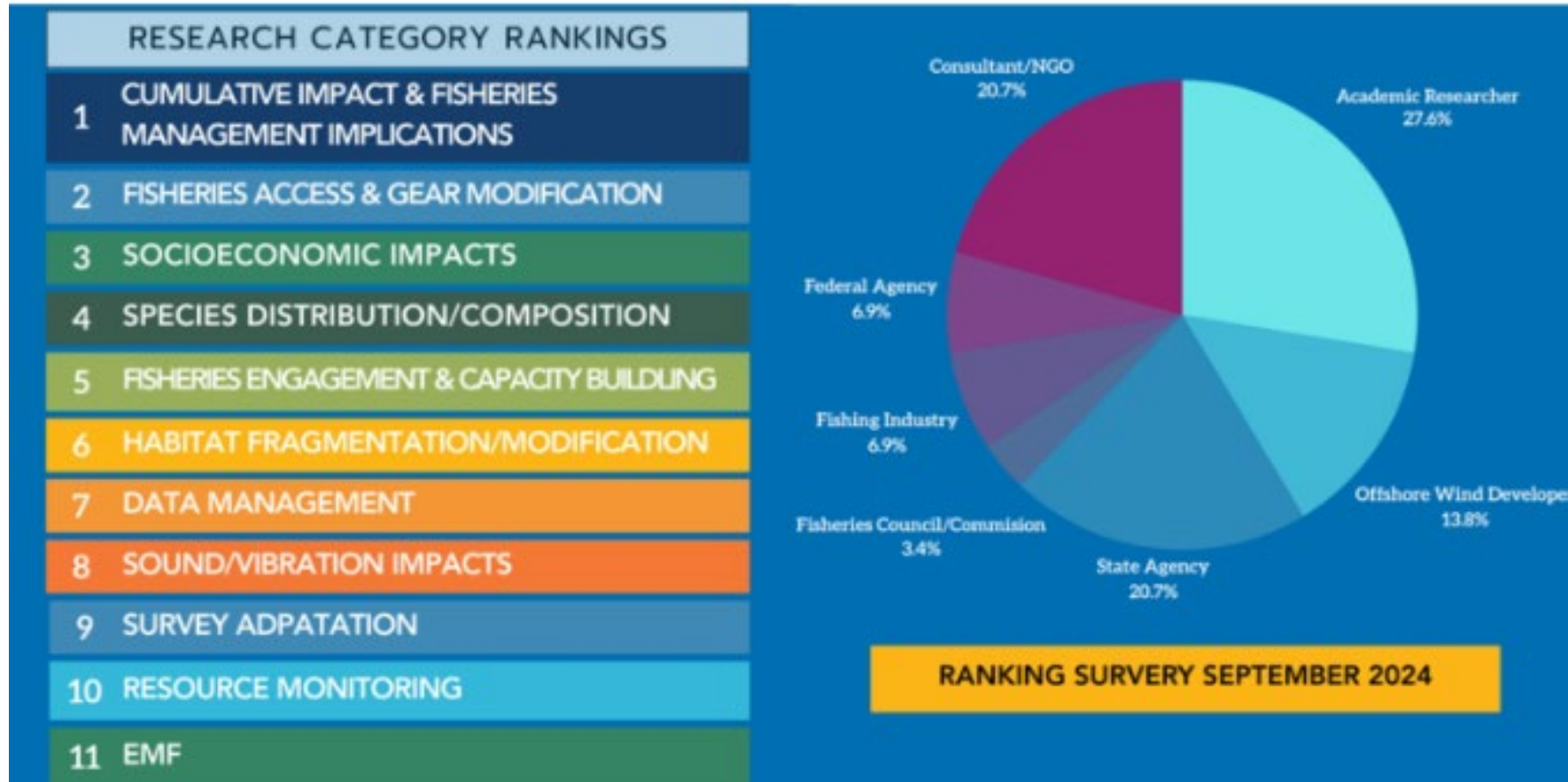
individual surveys
from developer
fisheries & benthic
monitoring plans

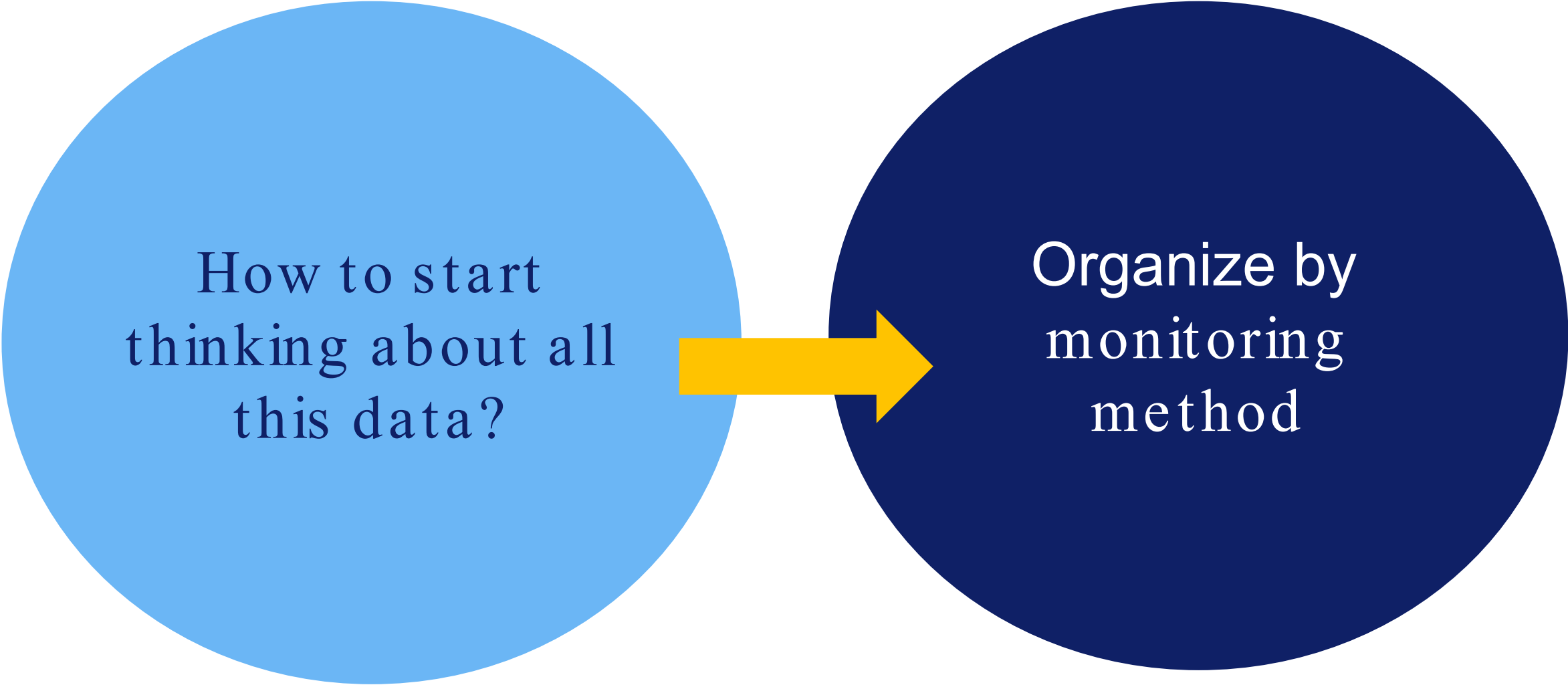
139

research and
monitoring
projects

323
research
needs

Research Gaps Analysis & Rankings





How to start
thinking about all
this data?

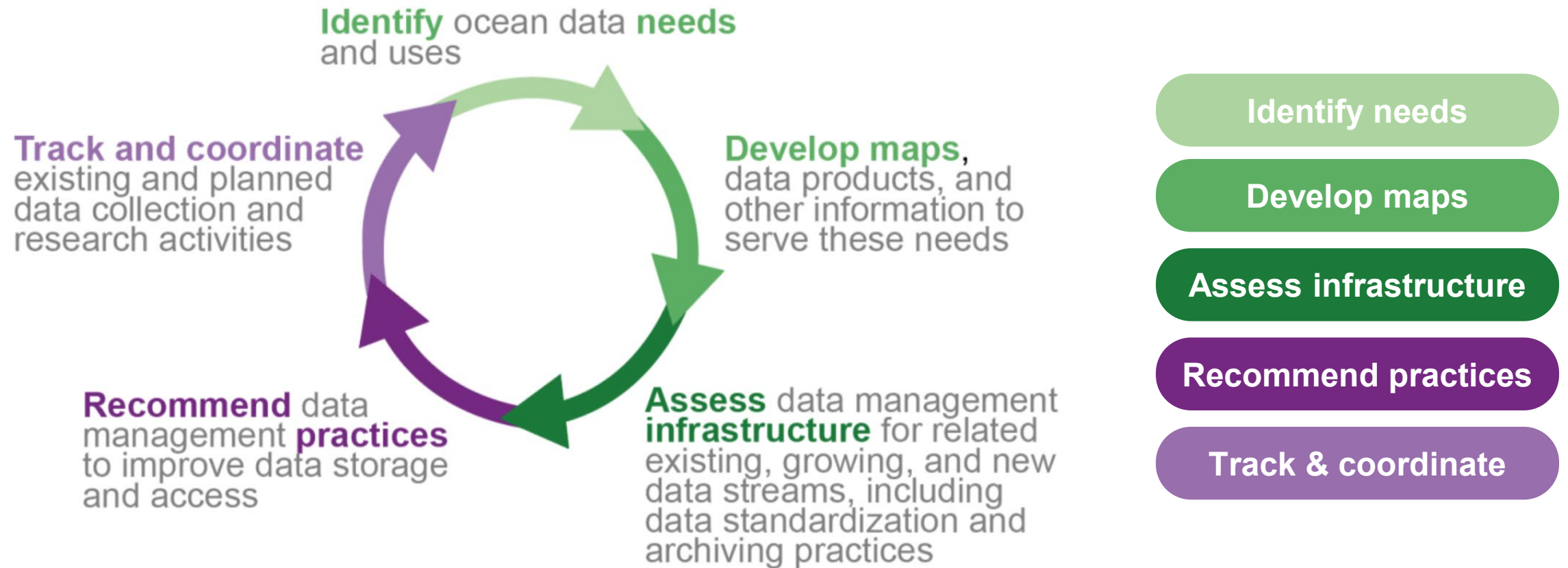
Organize by
monitoring
method



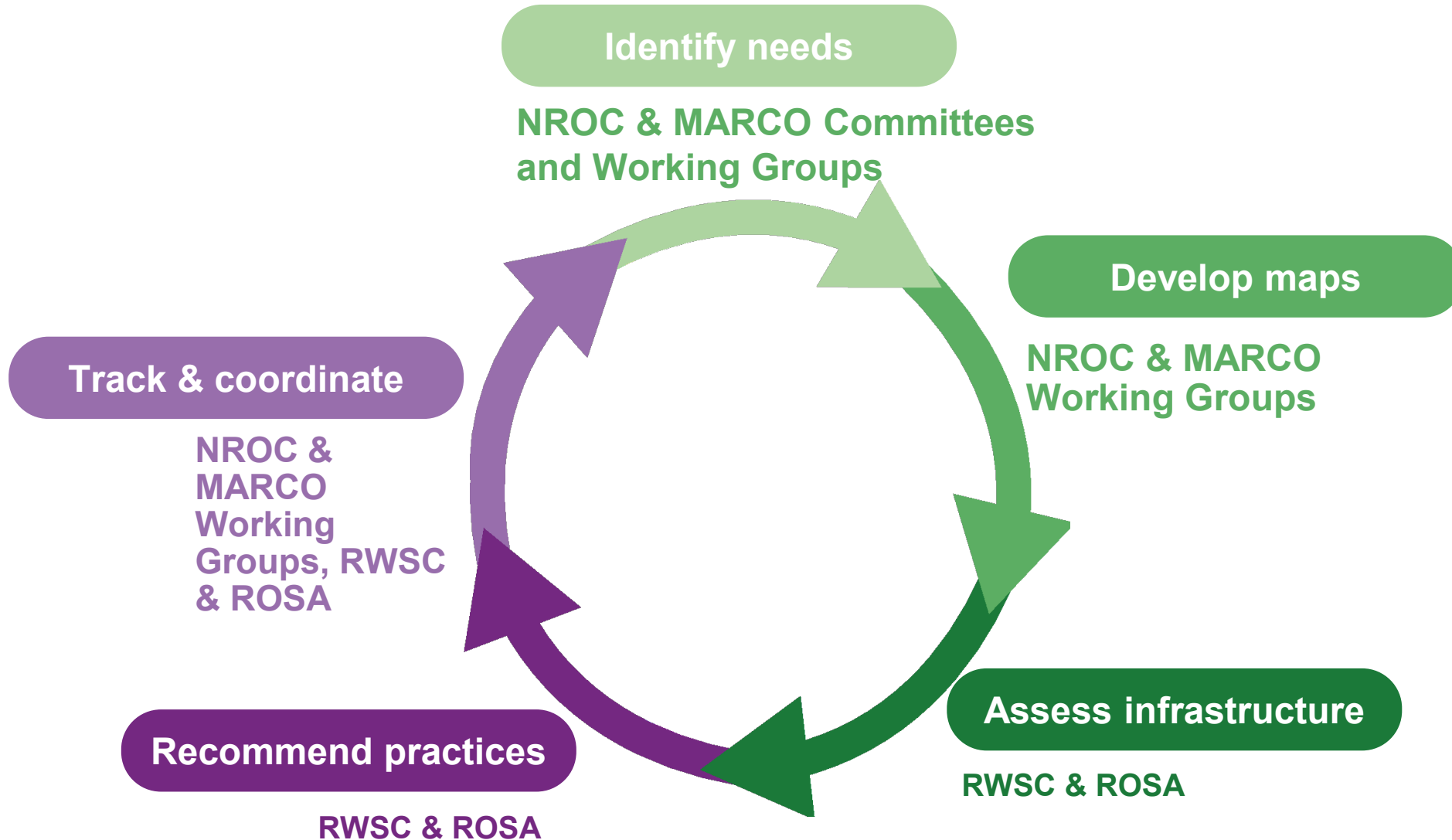
Reliable Maps, Data Products, and Ocean Data Systems for Business, Government and Research Decisions

Emily Shumchenia,
NROC Science & Portal Director
RWSC Director

NROC MARCO RWSC ROSA working groups and subcommittees



NROC MARCO RWSC ROSA working groups and subcommittees





ROSA Data Governance Program

ROSA's Data Governance Program will provide guidance for data on fisheries, offshore wind, and ocean development in support of future regional or cumulative impact assessments and to complement and to support interoperability with other data efforts in the region.

WHY A DATA GOVERNANCE PROGRAM?



ROSA DATA GOVERNANCE COMMITTEE



No obvious
repository for
fisheries-related
ocean
development
data now

Some data types have well -established options

Animal telemetry data

OTN & nodes ACT-
MATOS & FACT
ATN

Passive acoustic monitoring data

Passive Acoustic
Data Archive

But what about?

- BRUV video files
- Bottom trawl surveys
- eDNA
- Social science data
- and other data types...

We're here
to figure
this out

Higher
priority

Lower
priority

Fishing Methods Group

Bottom Trawl

Trap/Pot

Gillnet

Other Fishing Gear

Dredge

Ichthyoplankton
Survey

Image Data Group

ROV/video/stills

Baited Remote
Underwater Video
(BRUV)

drop cameras
and habcam

Acoustic
Telemetry

eDNA

Modeling

Social Science



ROSA team to dig into
FishFORWRD for more

Data Governance work to date

ROSA

- Acoustic Telemetry best practices guide
- Data Policy
- Guidance around data sharing in RFP, including a pre-award Data Management & Sharing Plan (DMSP)

RWSC

- Data policy
- DMSP template on dmptool.org
- Essential metadata guidance
- Prototype data catalog
- Repository review & recommendations

<https://rwsc.org/research-data/>

Acoustic Telemetry One -pager



RWSC
Regional Wildlife Science Collaborative
for Offshore Wind



ROSA
Responsible Offshore
Science Alliance

COORDINATION OF ACOUSTIC TELEMETRY

Many marine species exhibit ranges and distributions that traverse man-made boundaries. For migratory, protected, and recreationally and commercially important species, tools that assess movement and presence/absence must be implemented at broad scales to accurately characterize animal distribution and potential range shifts, understand cumulative effects, and to separate these effects from other influences. Acoustic telemetry networks enable cooperative research for these species at broad scales.

WHAT ARE WE ASKING OFFSHORE WIND COMPANIES TO DO?

Best and preferred

RWSC and ROSA recommend that your entity joins the regional acoustic telemetry network in your study area (e.g., Atlantic Cooperative Telemetry Network (ACT), FACT Network, Ocean Tracking Network (OTN)), and submits its acoustic telemetry data (receiver metadata, tag metadata, downloaded detection files) as either a publicly available project or a private project that participates in regional data management following your region's user agreement. Note that with your permission, your regional telemetry network can assist with sharing your receiver locations with RWSC and ROSA for inclusion in the [RWSC Research Planning Map \(https://rwsc.org/map\)](https://rwsc.org/map) without making changes to your current project permissions. Visit the ACT Network's MATOS Data Portal (<https://matos.asascience.com>) for the mid-Atlantic and Northeast U.S. or FACT (<https://secoora.org/fact/>) for the Southeast U.S. for more information including User Agreements. In addition, RWSC and ROSA recommend that movement data products for electronically tracked marine animals are uploaded to the OTN thematic OBIS node and archived with NOAA NCEI. Please contact admin@rwsc.org with any questions or assistance implementing these recommendations.

At minimum

RWSC and ROSA can also accept receiver locations for inclusion on the Research Planning Map for all ocean users to access. This can be done by emailing the receiver location information to admin@rwsc.org, using the acoustic telemetry metadata templates available at <https://matos.asascience.com/report/submit>.

BENEFITS OF COLLABORATIVE DATA SHARING

- **Standardized, interoperable, analysis-ready data:** the regional acoustic telemetry networks provide data standardization and QA/QC services by acoustic telemetry data experts for all datasets in their network. This provides consistency for researchers and analysts working with big datasets and saves time.
- **A framework for managing data collaboration:** membership within a regional acoustic telemetry network gives participants a defined framework for collaborative data collection, and allows entities to define and execute timelines for data reporting and fulfil external expectations of data availability.

ABOUT ACOUSTIC TELEMETRY

Acoustic telemetry has revealed a great deal about species movement that informs fisheries management and conservation. In U.S. Atlantic waters, this method is increasingly being used as a cost-effective way to gather data on species in and around offshore wind areas. Through acoustic telemetry, live marine animals are released back into the ocean after being instrumented with an electronic tag that pings out a unique ID code at regular intervals. When a tagged animal travels within range (typically 0.5 km or more in continental shelf environments), a receiver records its unique ID number, along with the date and time. Arrays of acoustic receivers record the presence of tagged animals along with other environmental information that is transmitted by the tags or gathered by additional sensors affixed to the receiver stations. Receivers are periodically retrieved and detection data are downloaded and combined with tag and receiver metadata to understand animal movement.

Offshore wind developers who participate in RWSC and ROSA have expressed interest in generating data to inform the successful development and operation of their individual projects as well as to deepen understanding of potential cumulative effects of offshore wind development in U.S. Atlantic waters. Whether acoustic telemetry is used to study the movements of migratory species that often span beyond individual receiver arrays or more

rosascience.org/acoustic-telemetry/

RWSC

Regional Wildlife Science Collaborative

ROSA

ROSA Data Policy



Designed to

- help inform other policies, contracts, and agreements so that wildlife, fisheries, and offshore wind research can **advance knowledge**, be **used in decision -making**, and have **wide utility** to researchers, government agencies, and others
- encourage funders to consider adopting this language to standardize data availability of wildlife and fisheries offshore wind research.

ROSA Data Policy

Sections

- **Ownership** of research outputs
- **Non-exclusive license** to use, reproduce, copy, modify, transmit, distribute, perform, display
- **Data Sharing**
 - Annual progress report
 - Data Management & Sharing Plan (DMSP)
 - Share data within one year of data collection and data outputs to repository and assign an DOI
 - Publish
- **Confidential Information**
 - No proprietary information in research outputs, opportunity for partners to review
 - Data use agreements for accessing and using third party data in research

Data Management & Sharing Plan (DMSP)

Highlights of a DMSP

- Roles & responsibilities around data
- Lists of all data, metadata, and data products to be produced/created
- Data standards used
- Data licenses and access restrictions
- Timeline and plan for sharing the data
- Plans for stewardship & preservation

A formal document that outlines **how research data will be handled, stored, shared, and preserved** throughout the lifecycle of a project. The plan should demonstrate the researcher's commitment to good data management practices (e.g., FAIR: Findable, Accessible, Interoperable, Reusable) and **ensure that data are available for future research**.

Adapted from draft RWSC DMSP, ROSA is using a Pre-Award DMSP in its RFP that can be found on our website

Data Governance Working Groups

Recommend

- Documentation (including metadata)
- Metadata standards and recommended repositories
- How to organize and structure datasets within a 'project'
- Any other specific info to be included (i.e. special fields, tags)
- Catalog of experimental designs used
- How to be good managers for our future selves?
- How to preserve and publish data to answer regional or cumulative impact questions?

Proposed Timeline



FEB
Up to 3
work
groups
formed

MAR - JUN
Work groups draft
recommendations,
with support from
Intertidal & ROSA

JUL - SEP
drafts out for
community
comment, feedback
incorporated

OCT
v1 materials
released by
ROSA

We want work
groups to
discuss &
recommend

- Documentation (including metadata)
- Metadata standards and recommended repositories
- How to organize and structure datasets within a 'project'
- Any other specific info to be included (i.e. special fields, tags)
- Catalog of experimental designs used
- How to be good managers for our future selves
- How to preserve and publish data to answer regional or cumulative impact questions?

Ways for ROSA to support



For state fishery management plans:

- what coordination of metadata or data structures across states (for fishery-independent data)?
- ROSA can:
 - learn from those processes
 - pilot tools that you can use

Site assessments or monitoring data use to support other fishery-independent data collection efforts



Data Governance Briefing 5/29

During the session, we will cover:

- Core tenets and policies of our updated Data Governance strategy
- How we work to ensure our research outputs are Findable, Accessible, Interoperable, and Reusable (FAIR)
- Progress on practical guidance on data sharing, privacy, and security measures
- Opportunities for collaboration and integration with states or your organization's existing data practices

Register by May 23rd to confirm your attendance. We look forward to your participation and support to foster stronger data governance practices together.



Register here



Thank you!