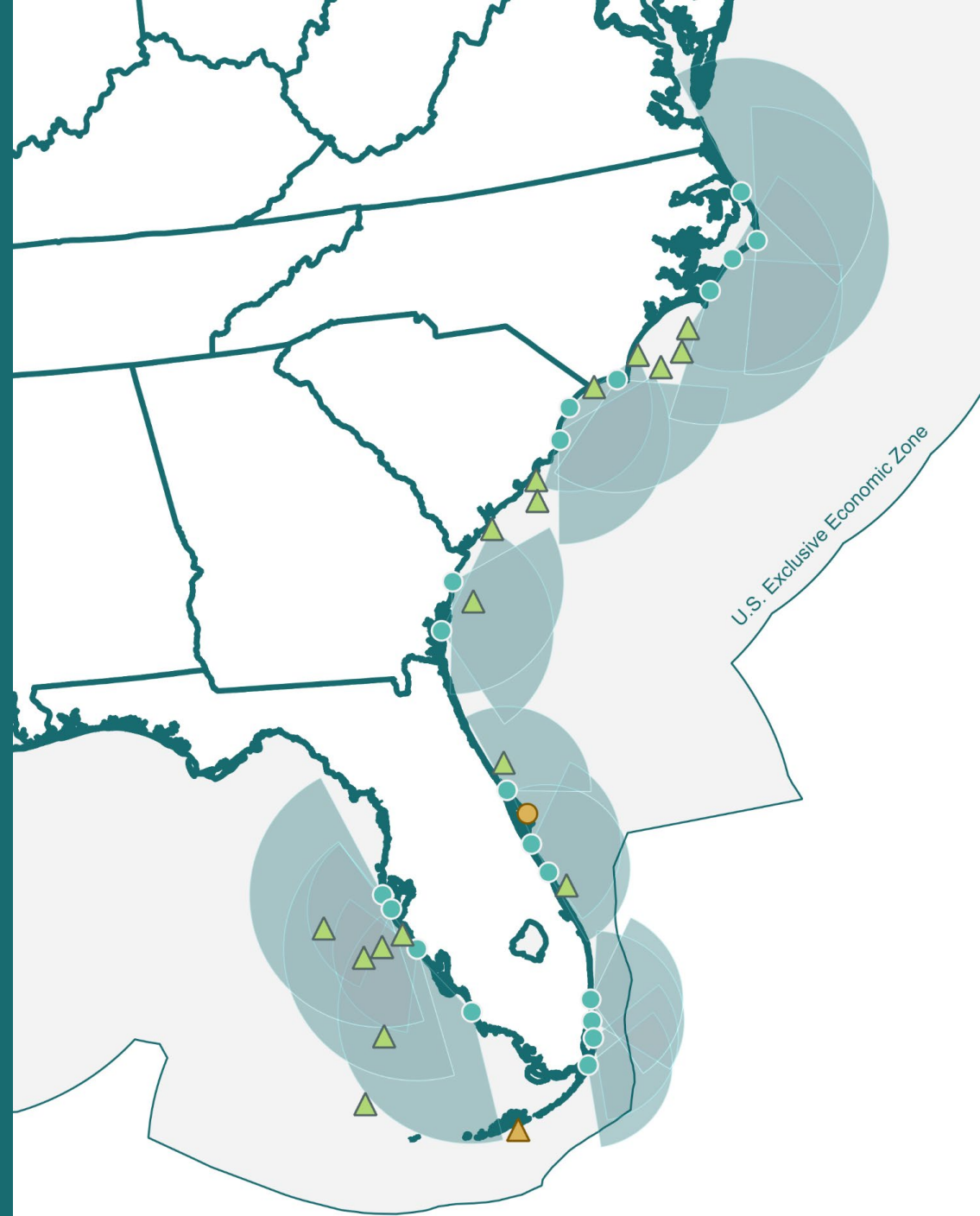


# Augmenting Ocean Observing through Artificial Intelligence: Annotation, Data Standards, and Applications

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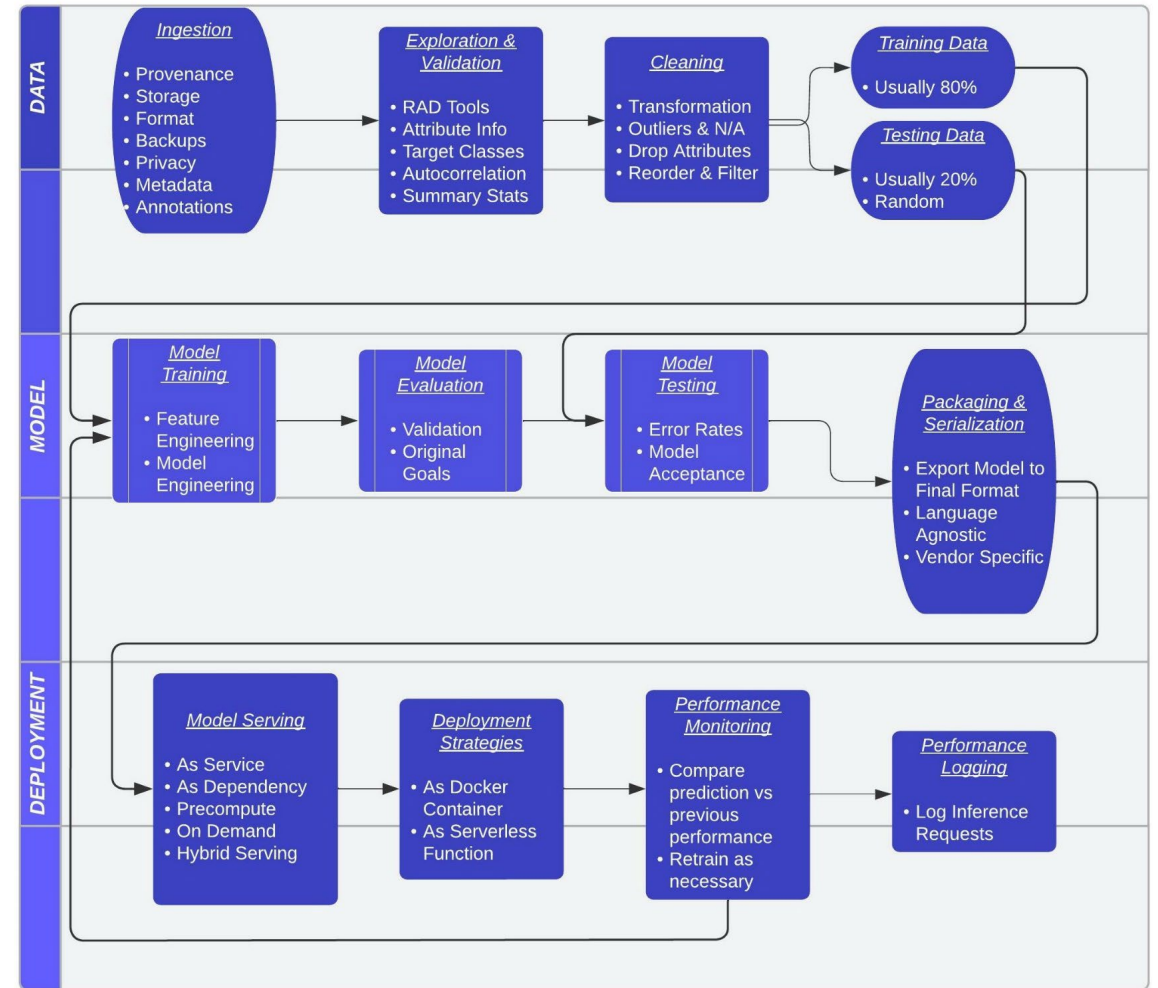


# Overview

- We use a lot of resources to quantify patterns from imagery, video, and acoustic data
- How do we build capacity and avoid duplication?

**Goal: Build a SECOORA AI Gateway to help navigate the Marine AI Landscape**

- Getting started
- Pathways to complementary resources
- Annotated data and labels
- Standards and metadata
- Worked case studies

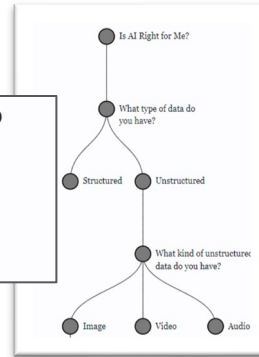


# Accomplishments

I.

## Is AI Right for My Project?

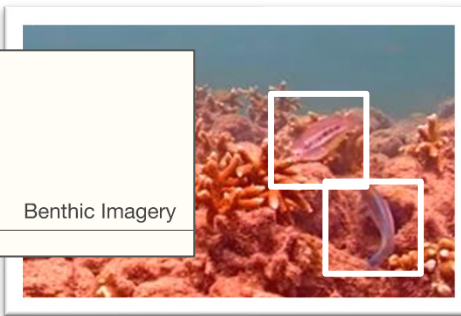
Navigate through the decision tree to identify the most suitable AI/ML approaches for your ocean science endeavors. Click on the nodes to expand more options.



II.

## Case Studies

[Coral Spawning](#) [Acoustic Classification](#) [Benthic Imagery](#)

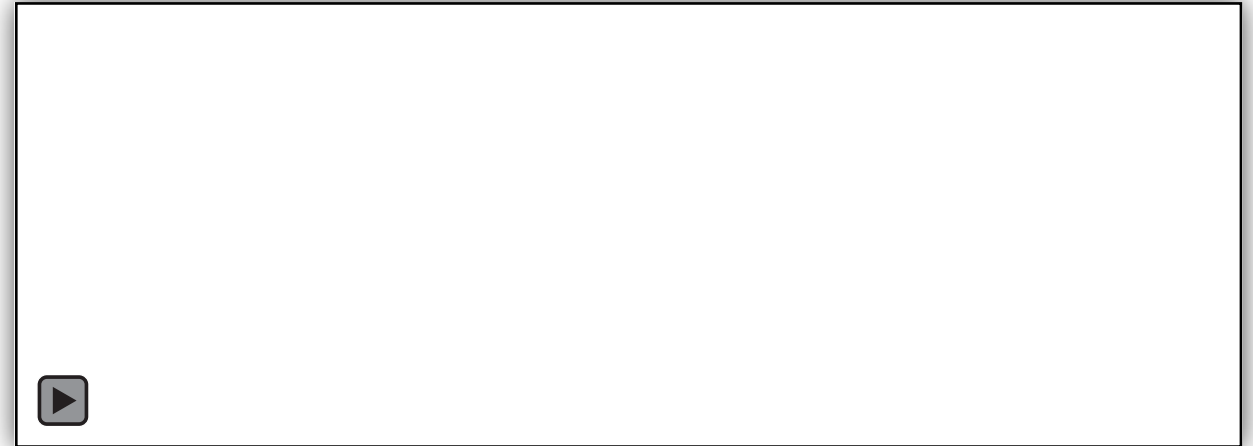


III.

## Community Resources

You can find additional AI resources in this directory continuously updated by the SECOORA community.

Project	Slides	Hands-On	Recordings	Input Dataset	Pipeline
Machine Learning on Landsat data					



# Looking Ahead

## Continued User Engagement

- CVPR, Ocean Sciences, GEOBON, Imagery Workshop, Acoustics Workshops

## Beta Testing

- Community access
- Behind the scenes links to AI repos (e.g., Fathomnet)

## Continued Use Case Development

- Imagery (CoralNet), Video (In situ data buoy), and Passive acoustics
- Leveraged funding for anthropogenic noise AI model with NOAA IT incubator proposal

