



**Kes Morton**  
**Senior Project Manager**

**[www.oceantrackingnetwork.org](http://www.oceantrackingnetwork.org)**





RESEARCH EQUIPMENT  
REWARD FOR RETURN

- What is OTN?
- Industrial collaboration

# What is

# OTN?

- Global research and technology development initiative (platform)
- \$160-million for ocean research



# What does

# OTN do?

Tracks local-to-global  
movement and  
survival  
of marine and aquatic  
animals using acoustic/  
satellite telemetry

Acoustic receiver unit  
tracking sturgeon in  
the Minas Passage,  
Canada

# Recipe for

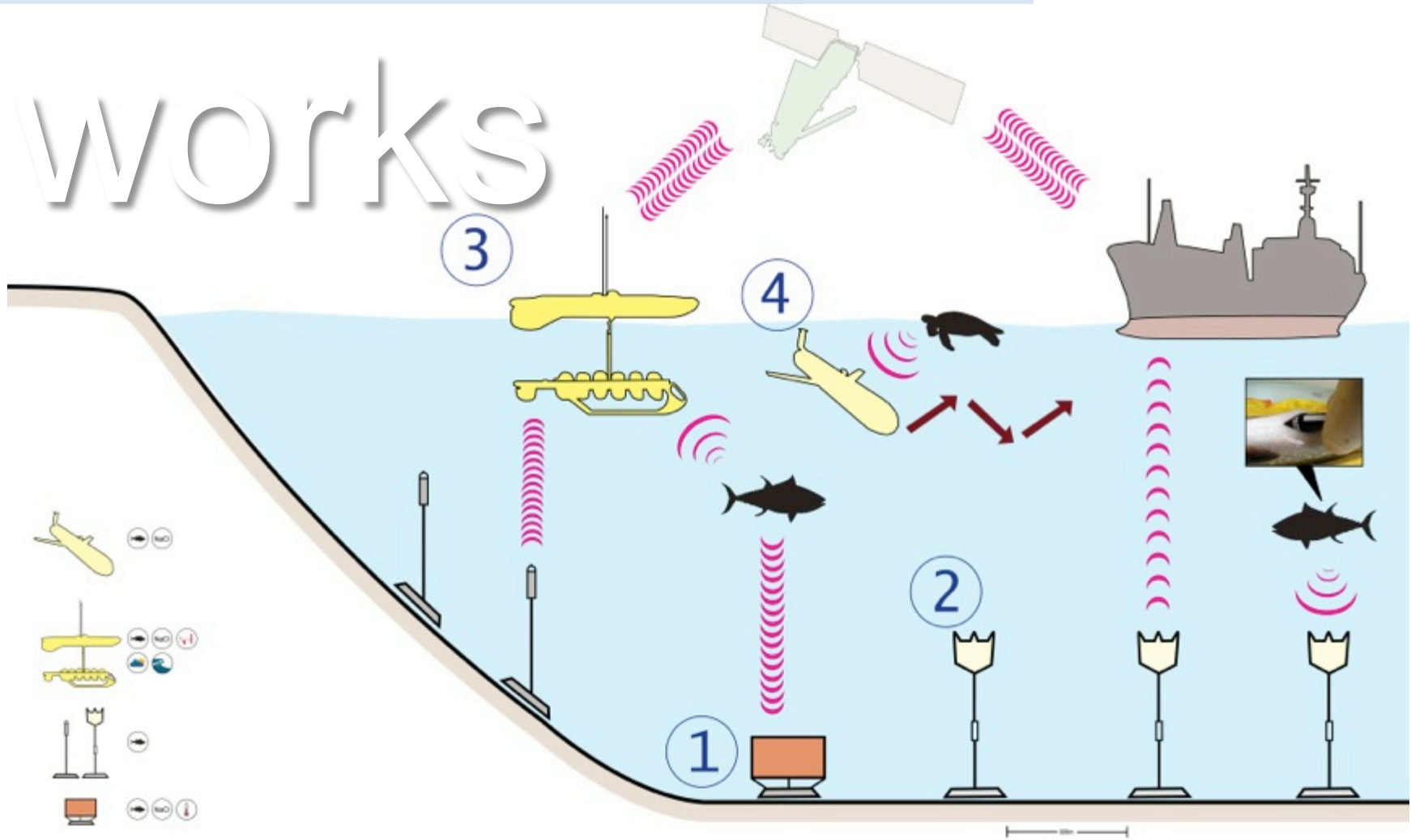
1 acoustic tag + 1 animal of interest + >1  
acoustic receiver

# telemetry



# How OTN

# works



# Data

# warehousing

- Over 90 million records
- Over 162 projects
- Standards based
- Interoperable
- Intelligent open access



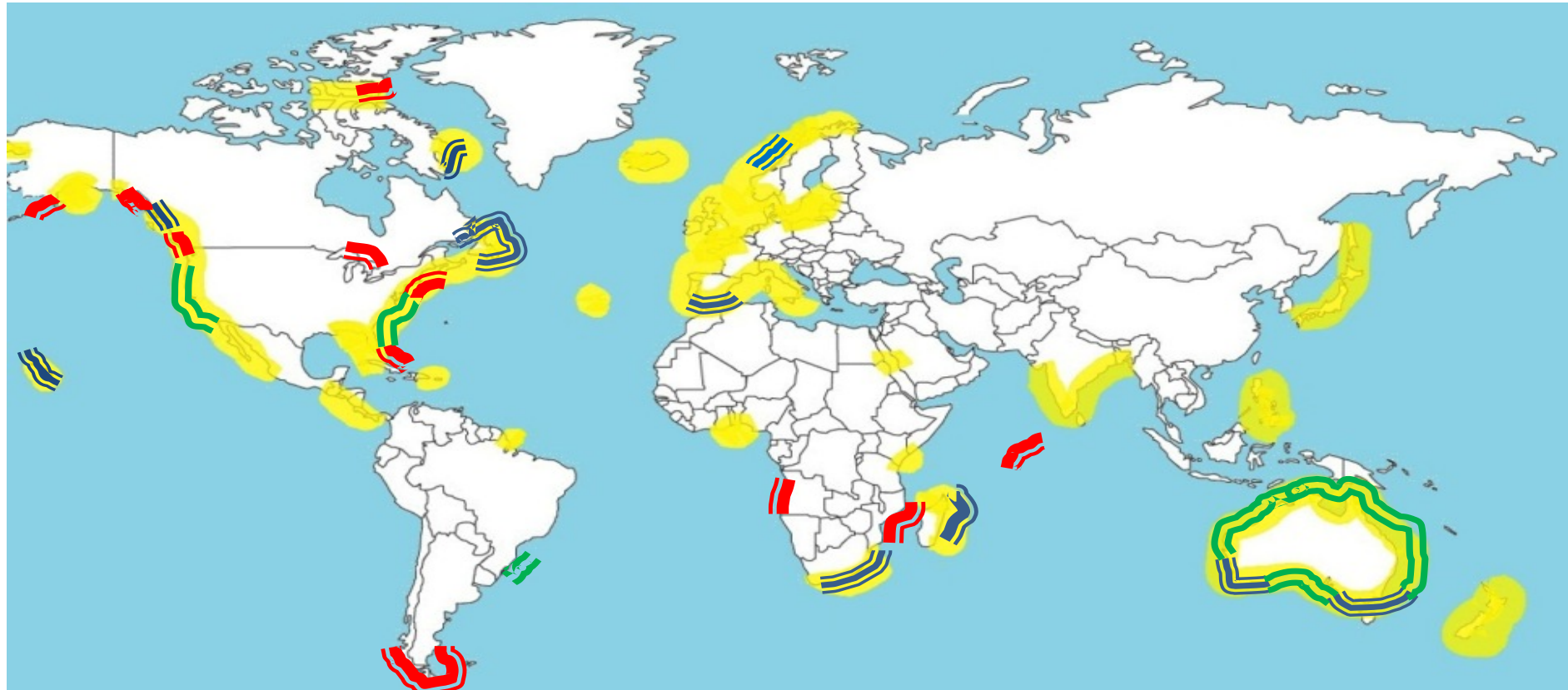
# What does OTN

track?

Over **64** species in  
collaboration with  
organizations  
worldwide



# Where?



Current OTN sponsored coverage  Future OTN sponsored coverage   
Data partner  Known acoustic tracking areas 



# **OTN is a global network built on partnerships**

**Strategic arrays deployed in  
collaboration with independent partners  
ensure effective monitoring and  
stewardship of our valued aquatic  
resources**

# **Global**



# OTN Canada

- Three framework questions
- Four cross cutting activities

Works within the  
**global OTN infrastructure**



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# Global

- **Great ideas come from all quarters and science works best by sharing great ideas**
- **Reduce costs, develop common databases and analytical tools**
- **Foster new technology development and innovative use of existing technology**

# Global

# Industrial

# collaboration

- Support research and development
- Monitoring through partnerships

# Driving

## Wave Gliders, Innovation

*VEMCO Mobile Transceivers*, 5mm acoustic tags,

**Accelerometer tags**, Slocum Electric Gliders



# Monitoring through partnerships

Encana

Exxon

Statoil

Catalina Sea Ranch

Snow crab fishers

Acoustic receiver unit  
tracking sturgeon in  
the Minas Passage,  
Canada





- **What we offer:**
  - Simple equipment
  - Data management
  - Connecting industry with researchers
  - Visibility
  - Reporting of results
  - Engagement



- **What we've learned**
  - Simple equipment
  - Reporting of results
  - Engagement

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**Kes Morton, Senior Project Manager**

**Ocean Tracking Network  
Dalhousie University  
Halifax, Nova Scotia Canada**

**otn@dal.ca  
1 (902) 494-4101**

**www.oceantrackingnetwork.org  
Twitter @OceanTracking**

# Objectives:

- Document movements and survival of valued species
- Identify critical habitats
- Measure global ocean conditions
- Protect people and their livelihoods
- Foster innovation
- Maintain data warehouse
- Inform management and policy
- Contribute to global monitoring