



El proyecto DLM y la colaboración de MSC con Oxford Univ, TNC y UBC Tom Carruthers

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Strategic Research Team, London UK*



Content

- Team Intro
- Welcome words by Amanda Lejbowicz/ Luis Bourillon
- Project overview by Katie Longo
- MERA Presentation & demonstration by Tom Carruthers (UBC)
- Q&A / Next steps

Translators: Katie Longo & Carlos Montero

Let's all keep our video's on;

Mute ourselves during presentation;

But feel free to unmute at any point when you have a question!



Team Introduction



Tom Carruthers
(MERA Creator)
Vancouver



Katie Longo
(Senior Scientist – Project Lead)
London



Amanda Lejbowicz
(Fish For Good Project manager)
London



Julia Stuijfzand
(DLM Project manager)
London



Carlos Montero
(Senior Accessibility manager)
Madrid



Luis Bourillón
(Outreach Mexico)
Mexico City

Herramientas para identificar planes de gestión DLM y testear si pueden alcanzar objetivos de sostenibilidad



El MSC colabora con Tom Carruthers y su equipo en crear:

- **MERA (MSC-DLMtool)**
- ayuda en comparar las opciones de manejo utilizando datos disponibles,
- explorar sus propiedades **utilizando Evaluación de la Estrategia de Manejo (MSE)** en relación al puntaje MSC

Otras colaboraciones en ese proyecto:

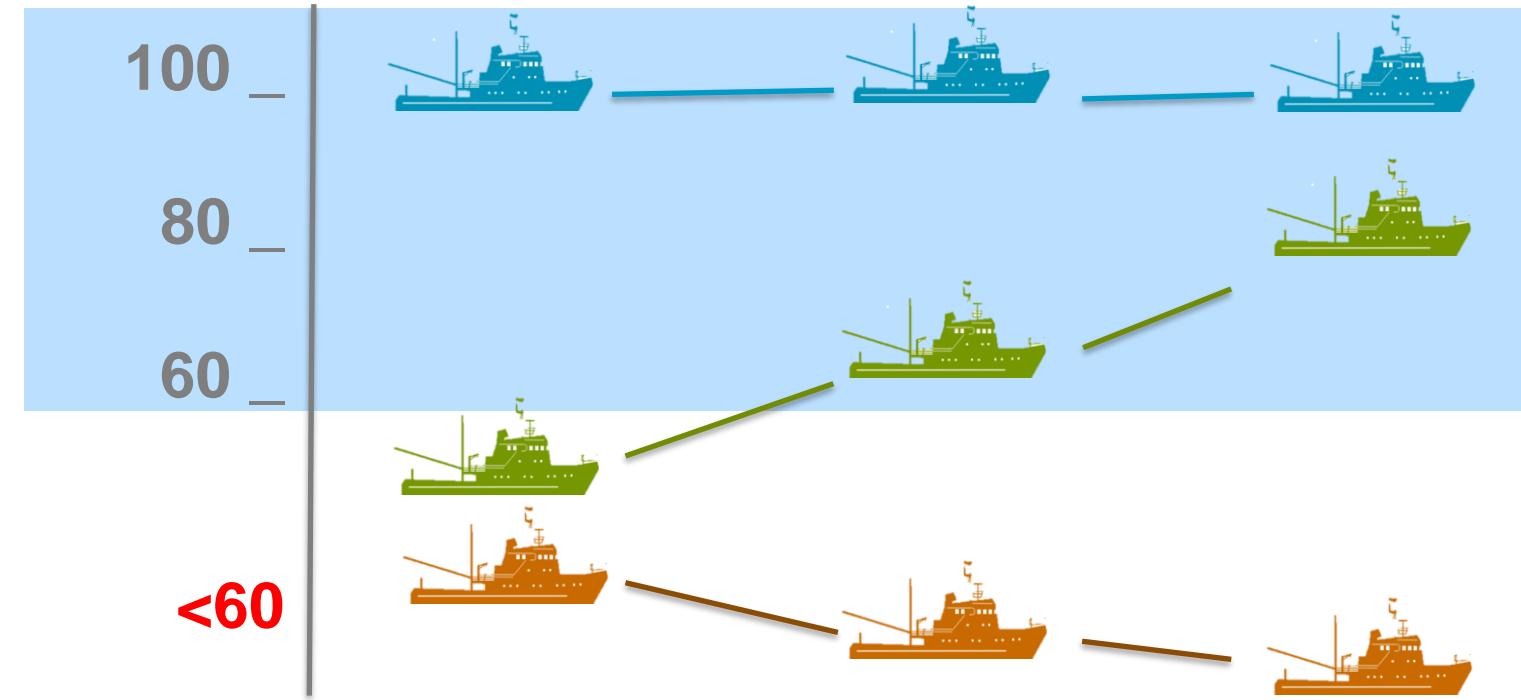
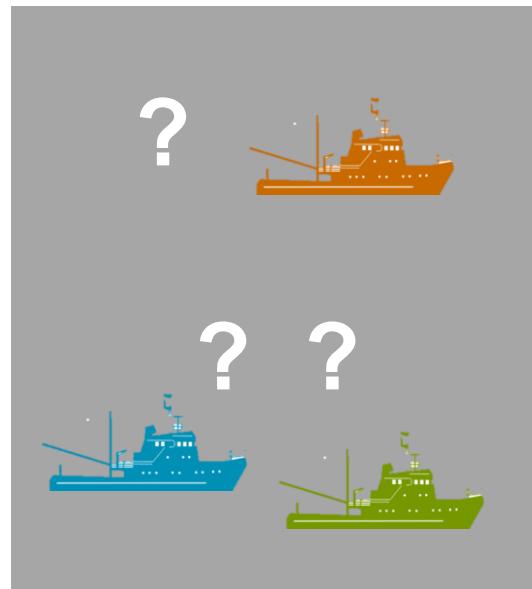
- TNC: **FishPath** – una herramienta para discutir opciones de manejo
- Oxford University: **Poseidon** - un modelo ABM de impactos económicos
- (FAO – Coastal Fisheries Initiative; Jeremy Prince – entrenamientos DLM)

Accesibilidad a MSC para pesquerías con datos limitados = sin evaluación de stock tradicionales



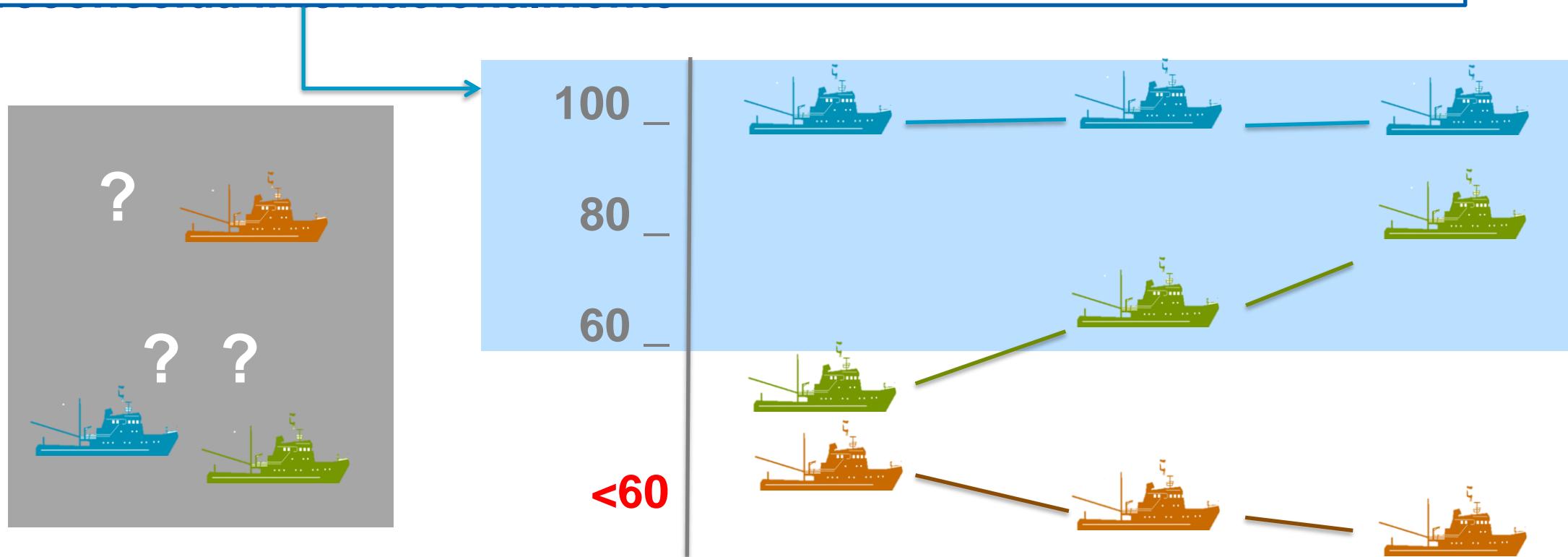
Dos tipos de retos debidos a situaciones de datos limitados

- Mejorar manejo hacia objetivos de sostenibilidad
- Demostrar el despeno sin evaluaciones convencionales



Objetivos en el estándar MSC:

- Biomasa sostenible (B_{MSY})
- Biomasa encima del nivel mínimo necesario al reclutamiento
- Capacidad de recuperar la biomasa si el recurso esta sobre explotado



Objectives for today



- We agreed on a workplan last Fall – where are we now?
- Discuss how to look at fisheries data together
- Discuss any support needs (data review, DLM training, collaboration with Jeremy Prince)



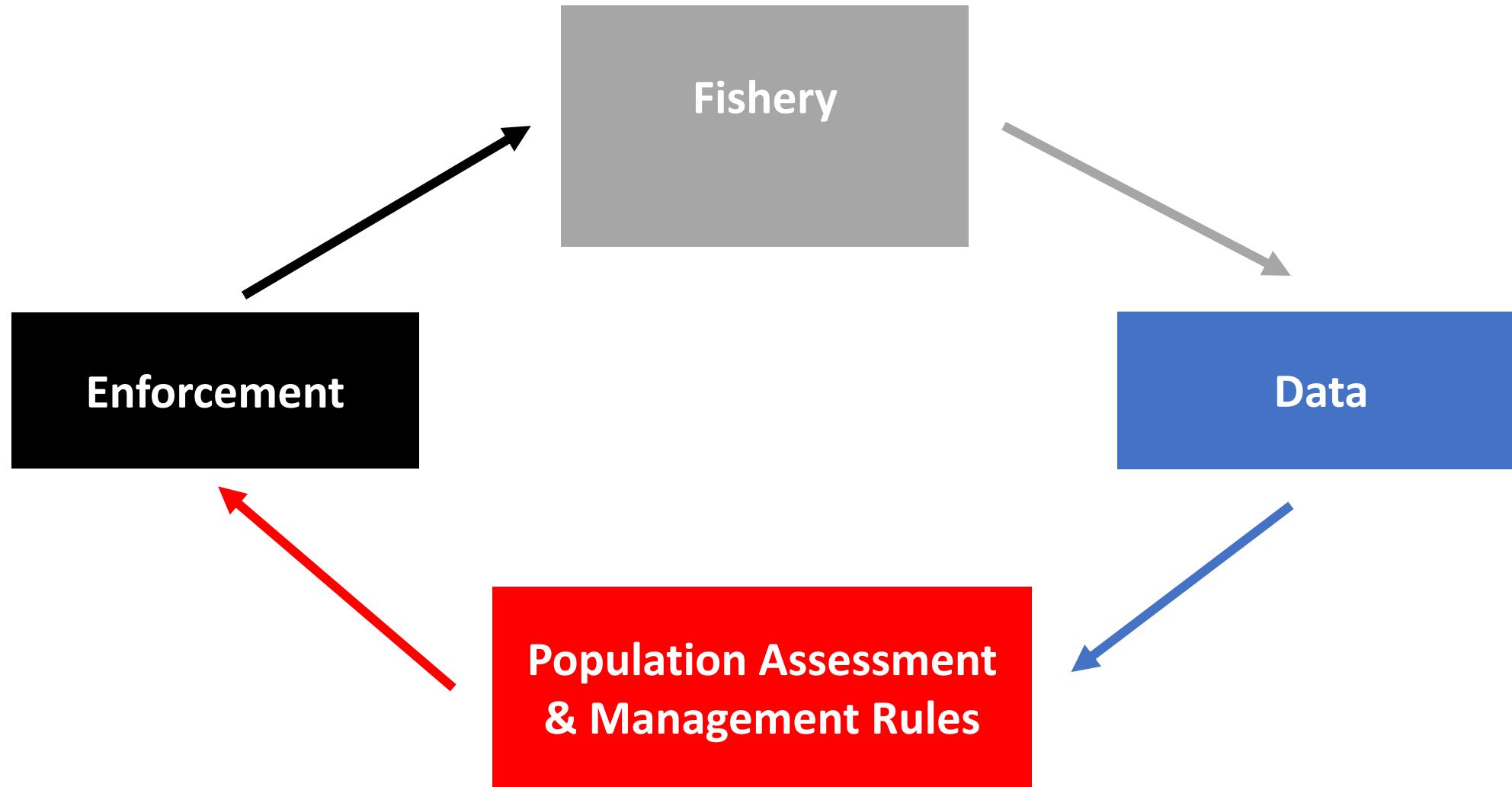
WELCOME TO MERA

Methods Evaluation and Risk Assessment

GO TO MERA APP

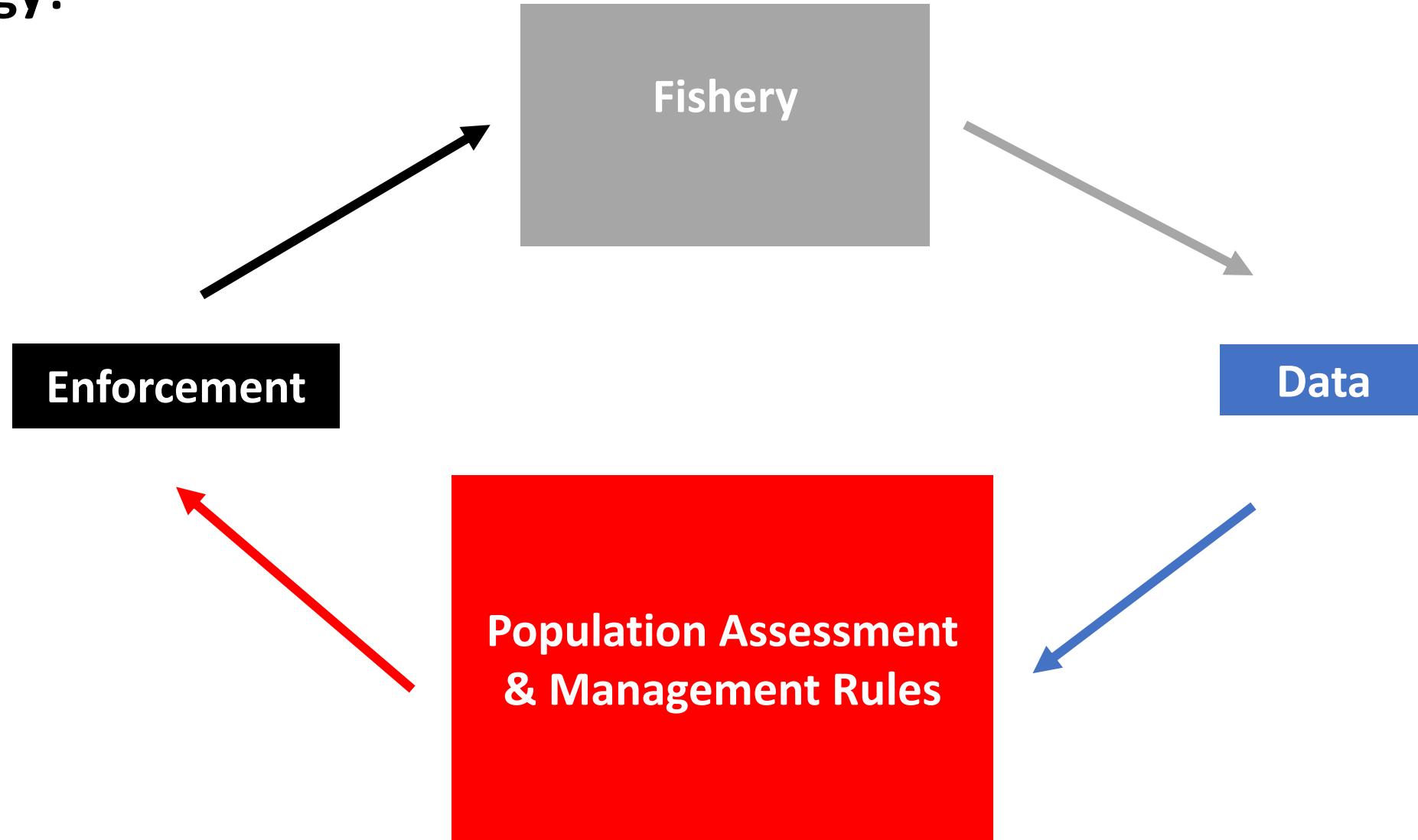
Intro Webinar Presentation
to Niparaja and Pronatura
April 17th 2020





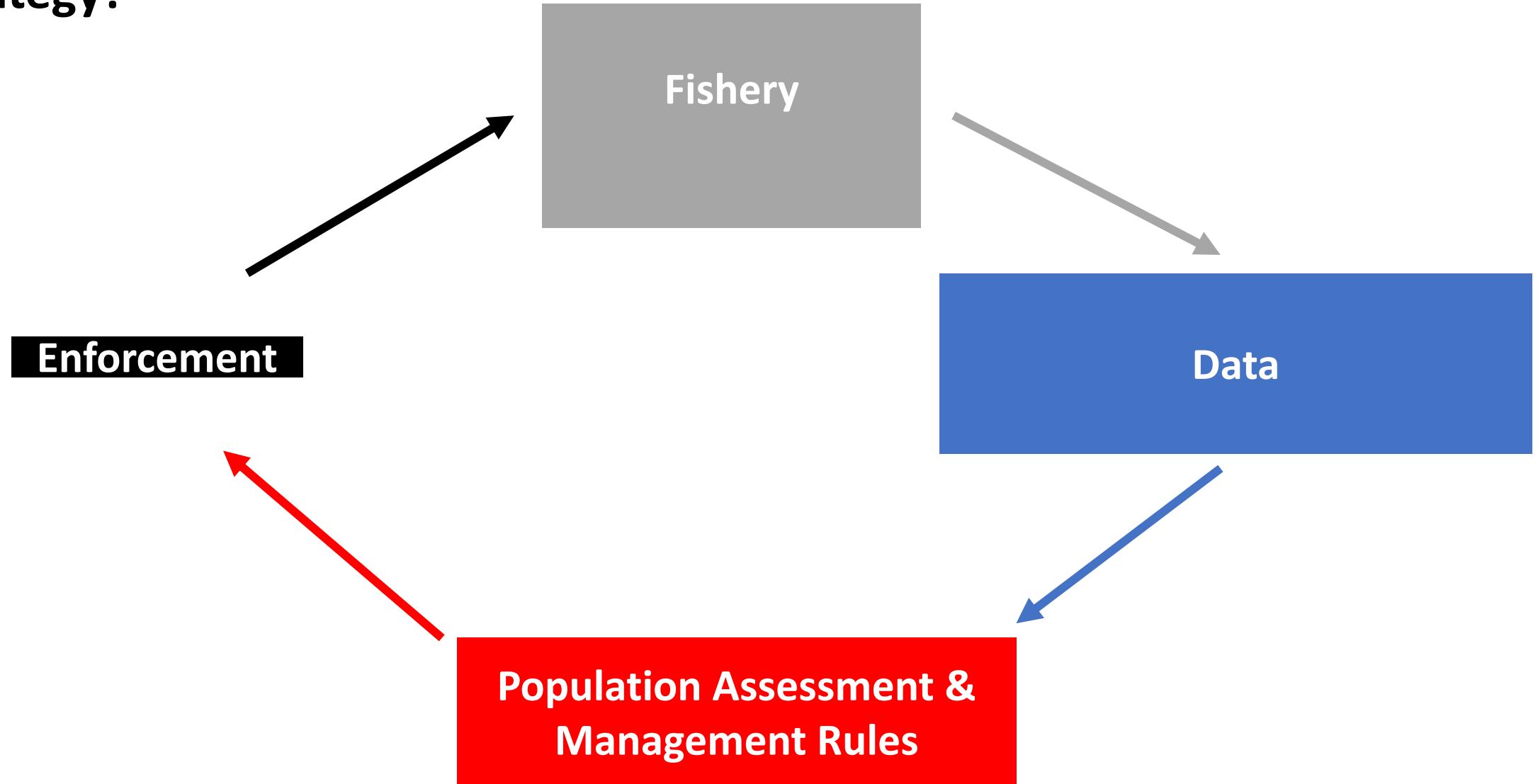


What management strategy?





What management strategy?



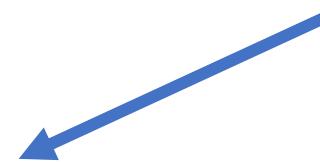
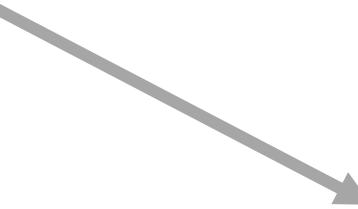
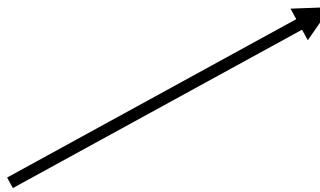


For most fisheries, management decisions are made without a clear link to expected outcomes.

There are good reasons why achieving this has been difficult...



Test by experiment



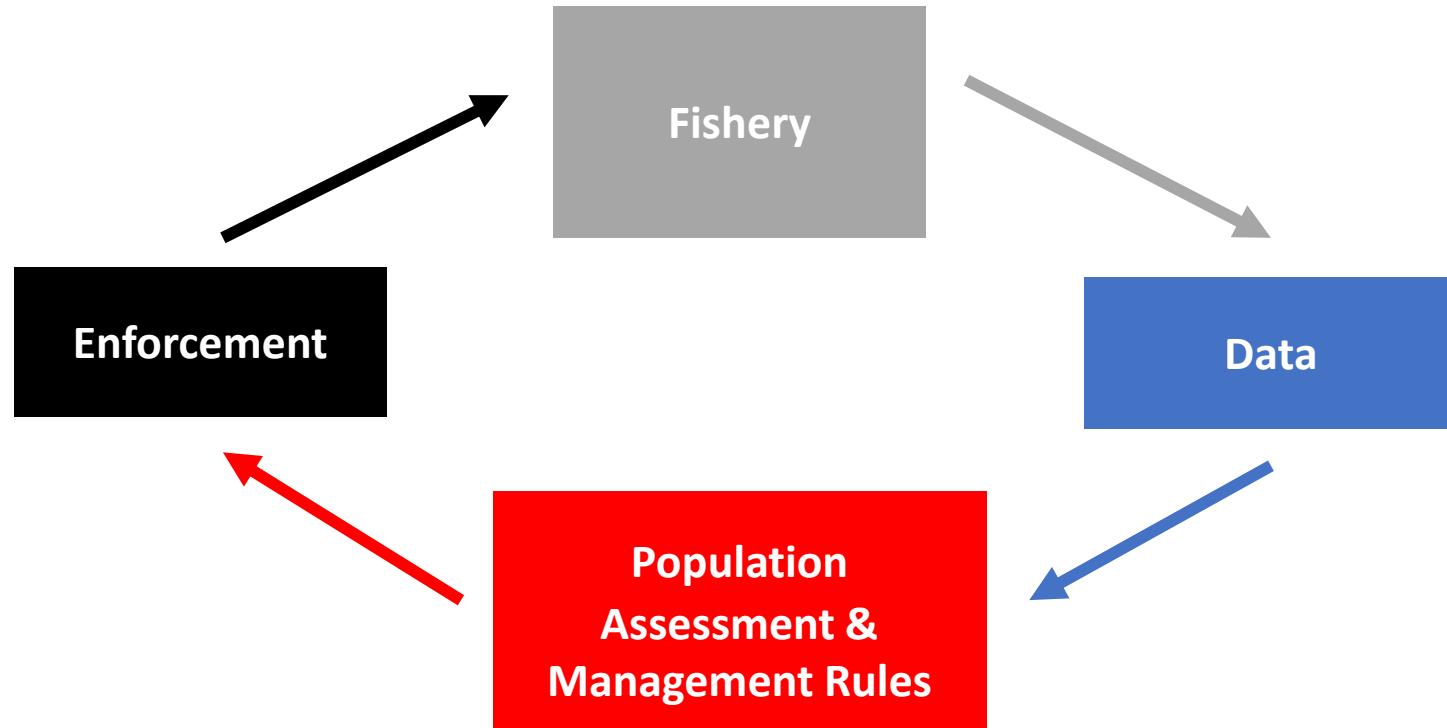


Test by simulation





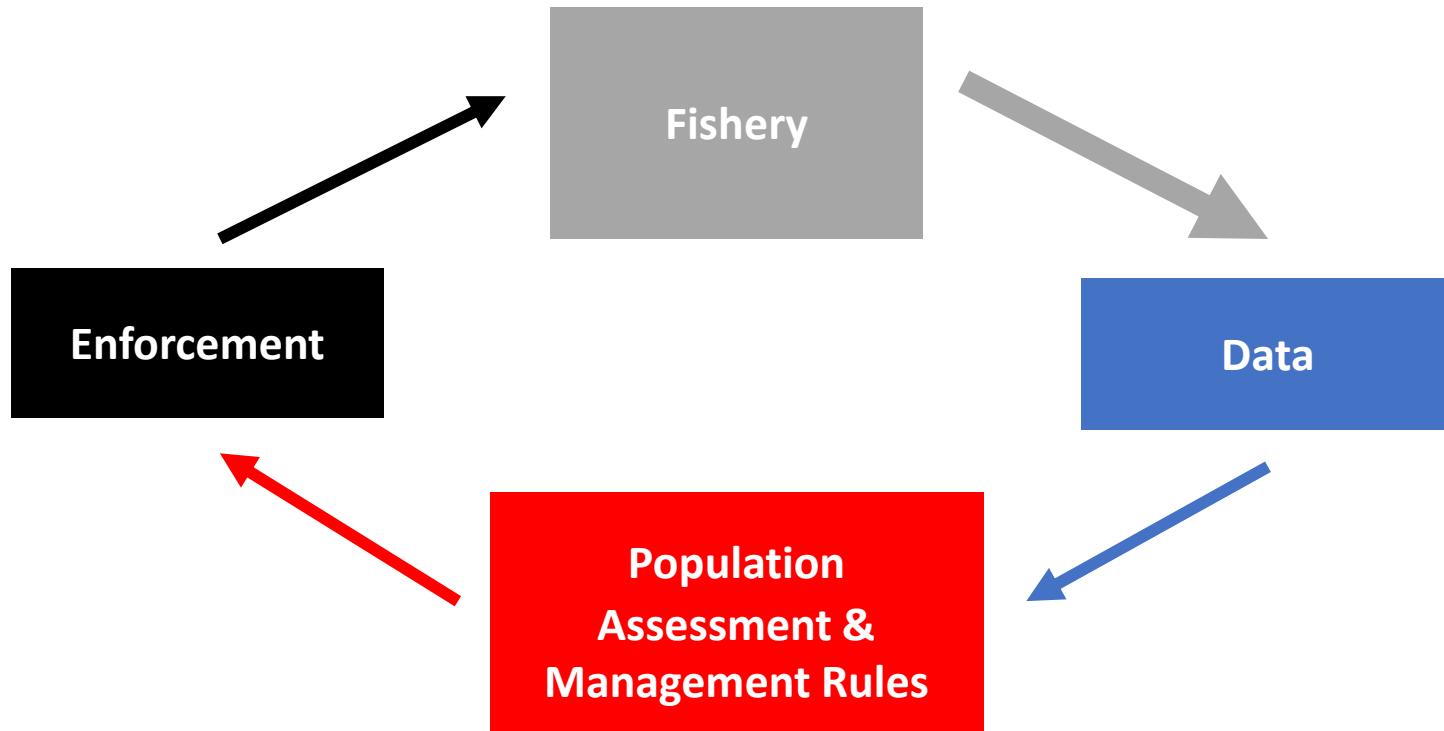
Test by simulation





Test by simulation

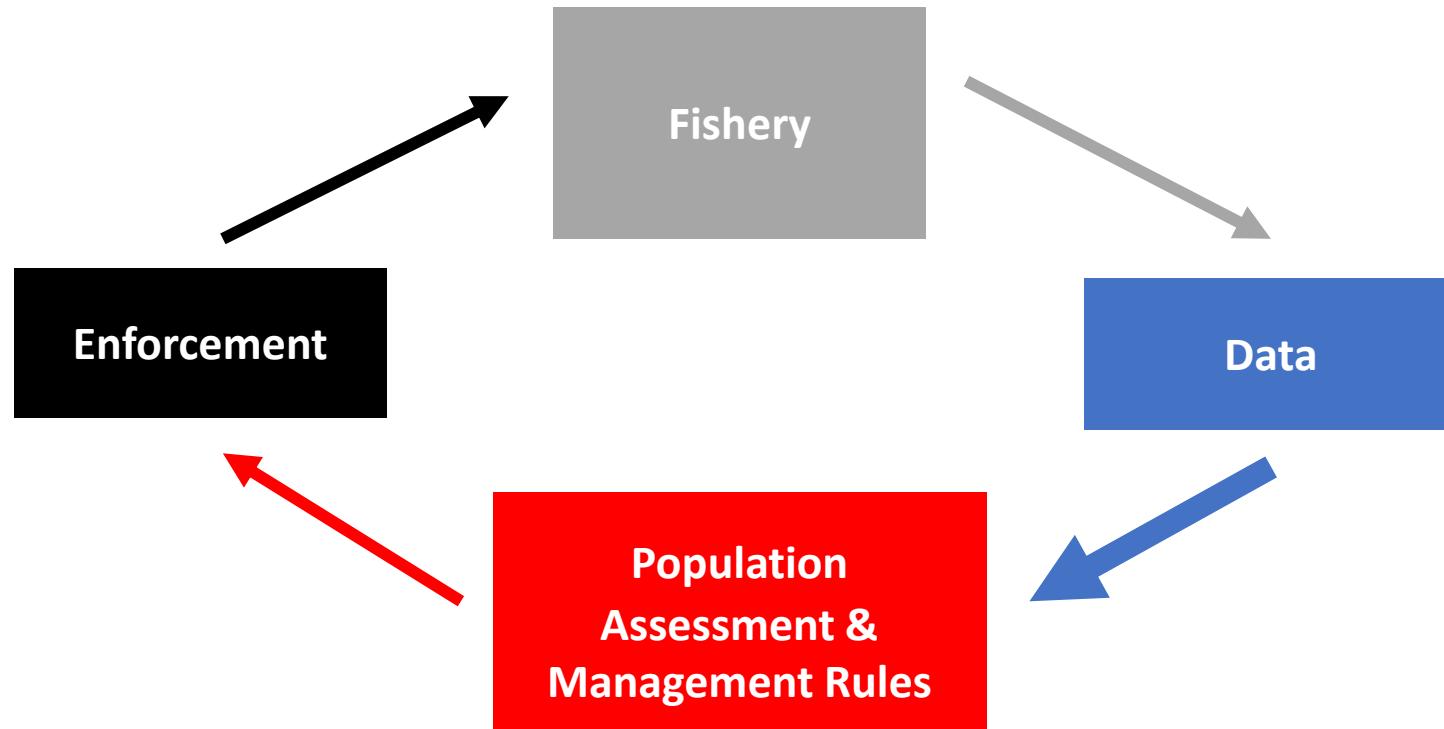
Projection year: 2021





Test by simulation

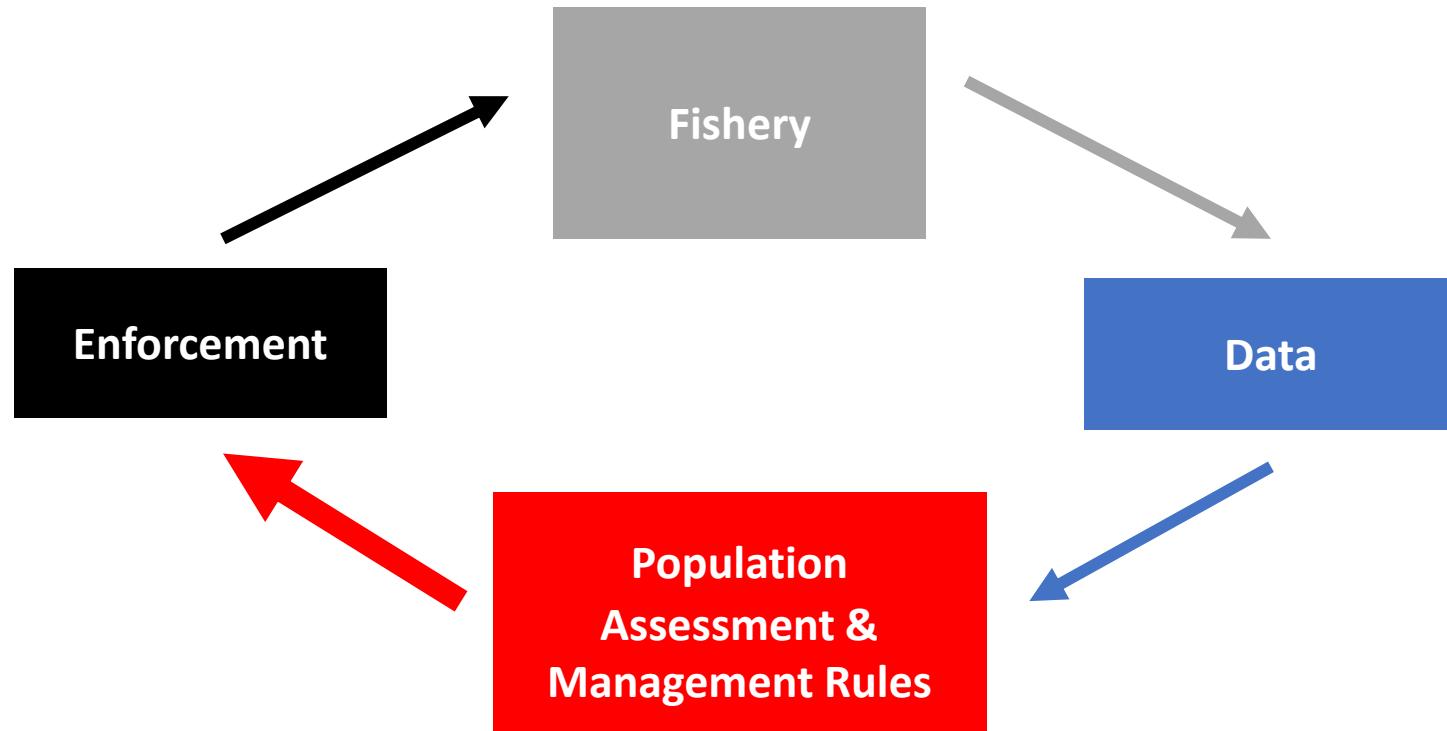
Projection year: 2021





Test by simulation

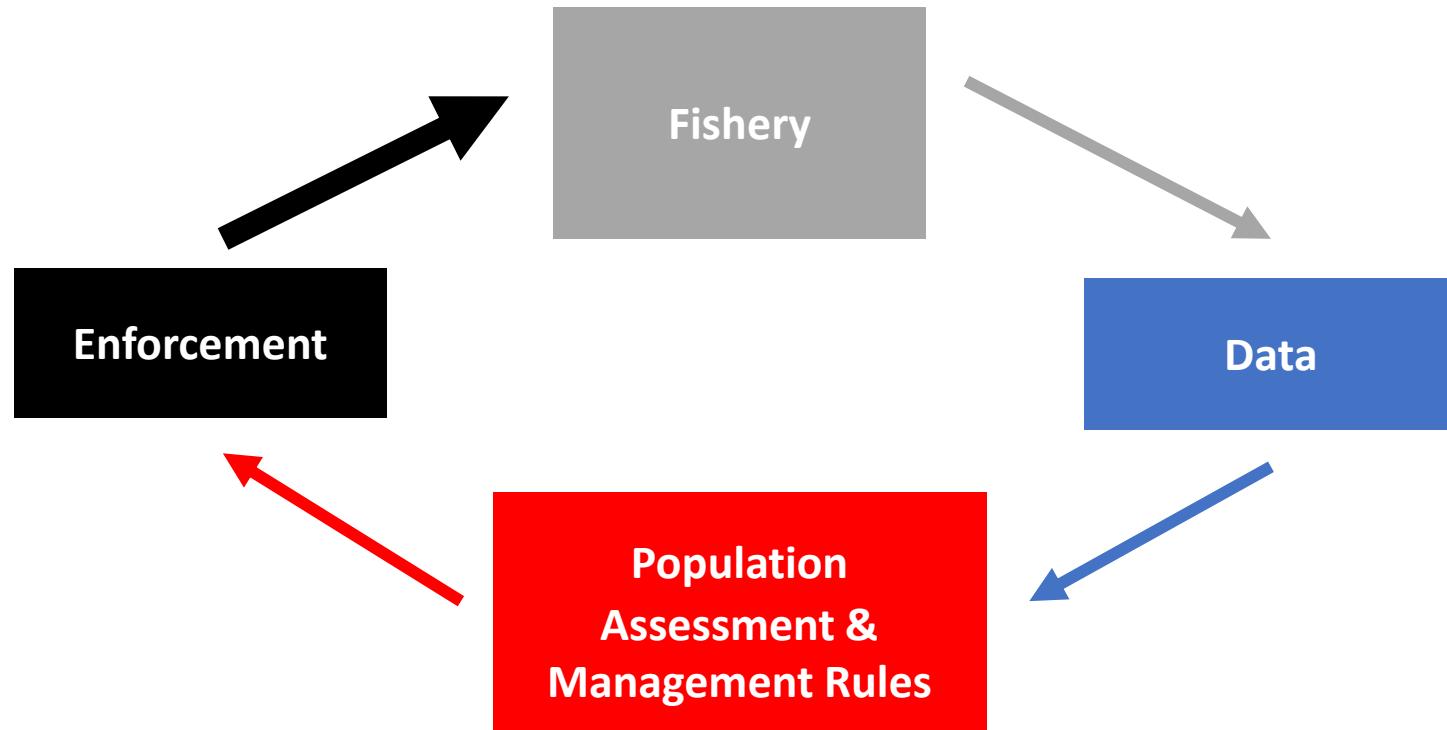
Projection year: 2021





Test by simulation

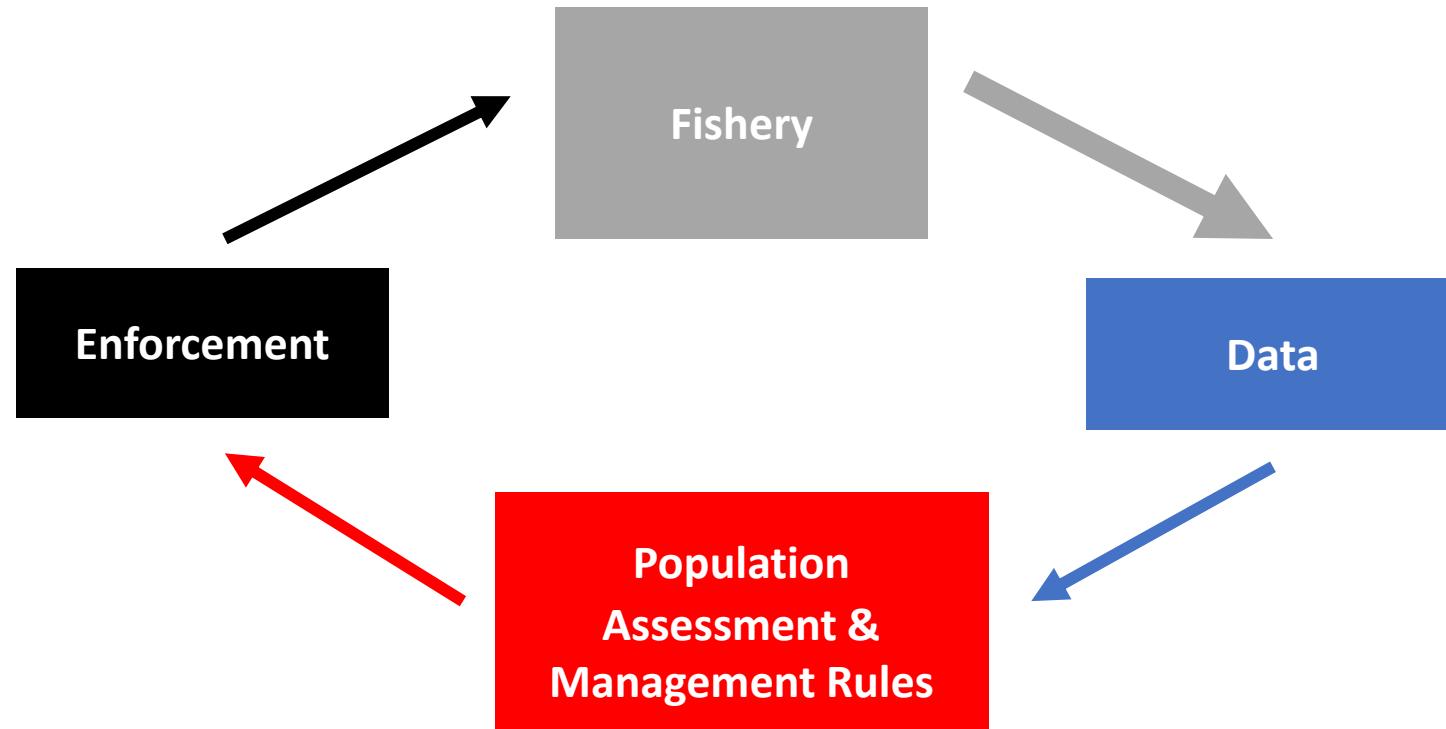
Projection year: 2021





Test by simulation

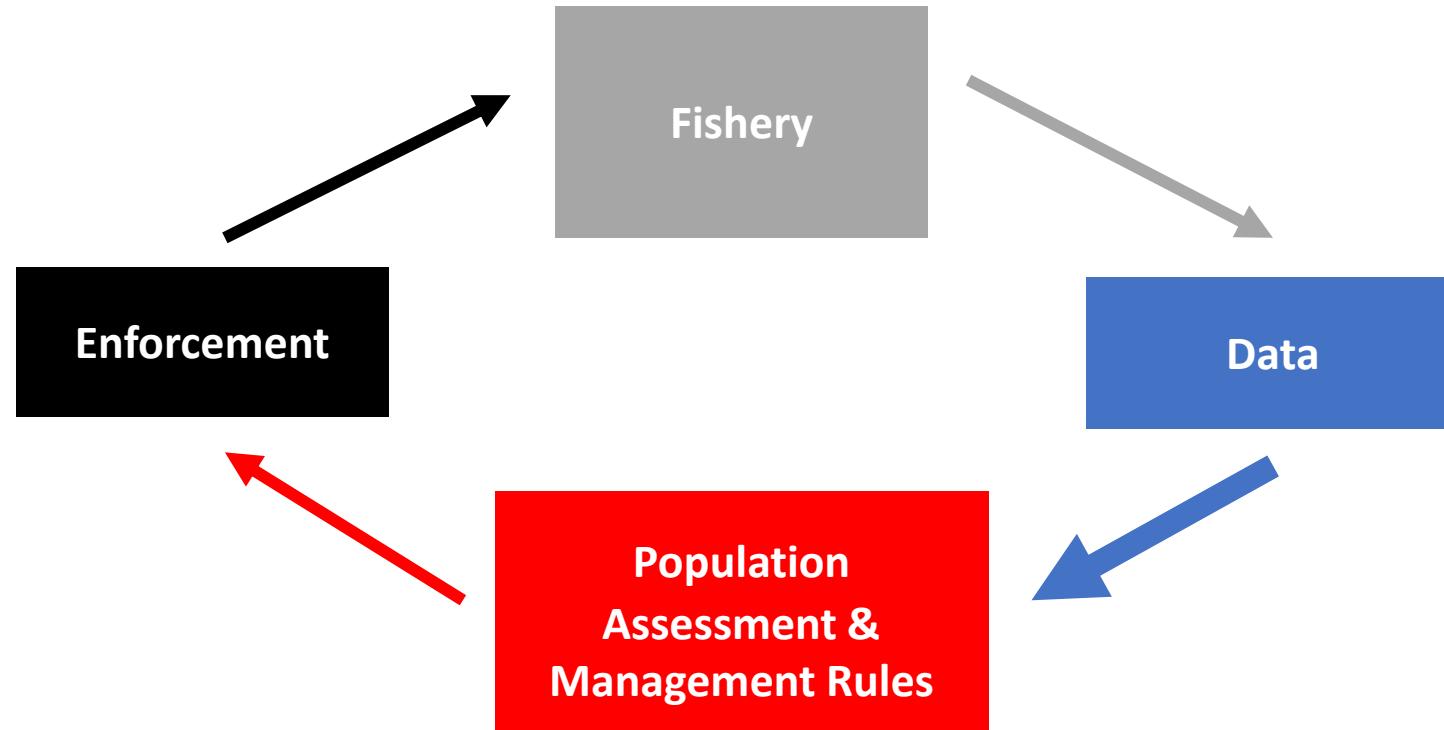
Projection year: 2022





Test by simulation

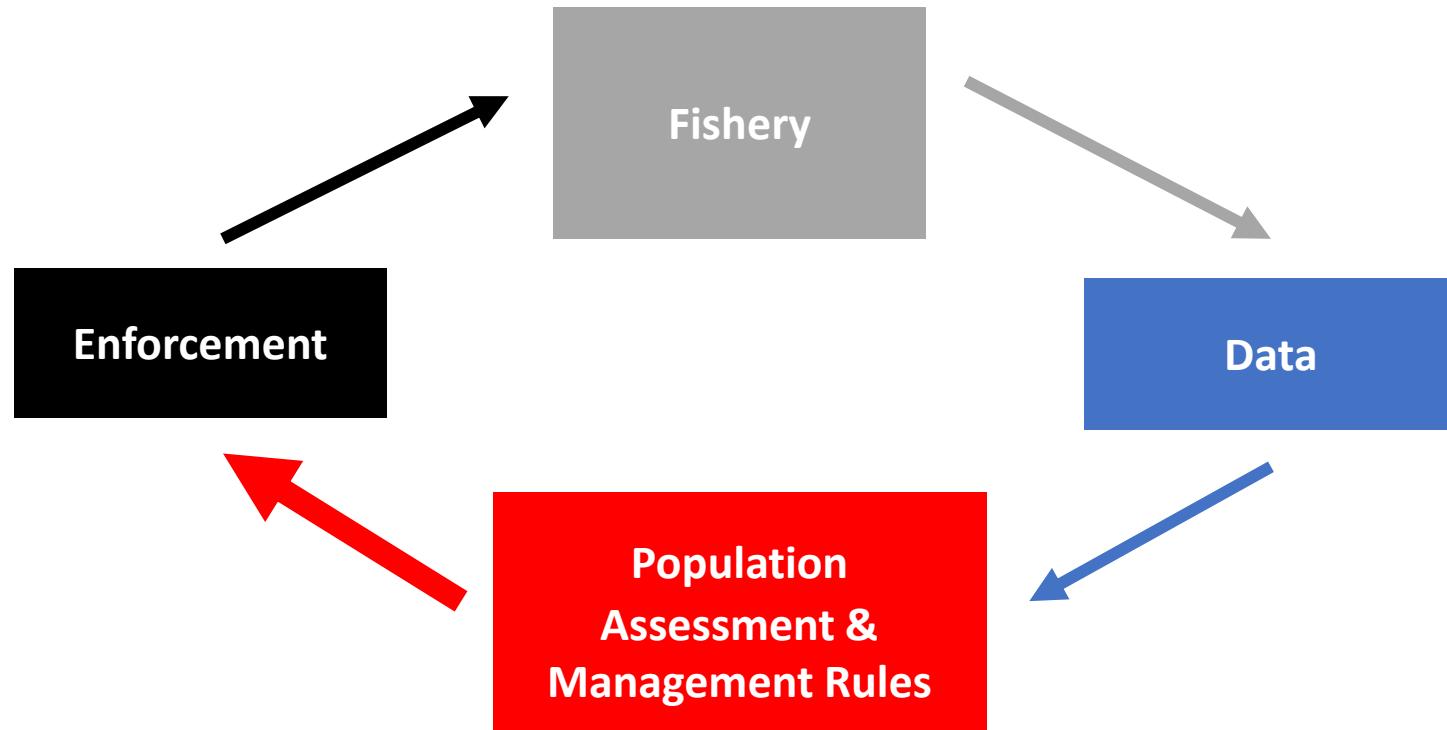
Projection year: 2022





Test by simulation

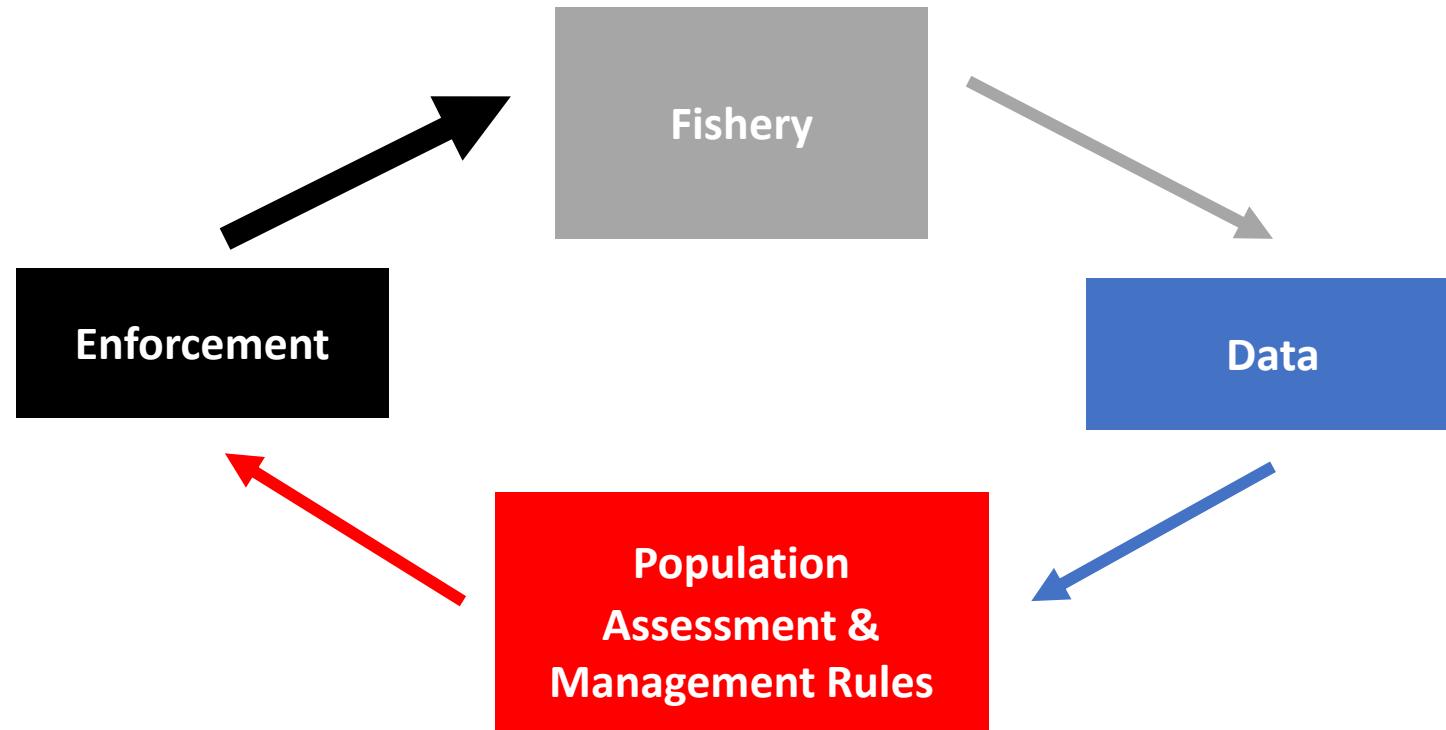
Projection year: 2022





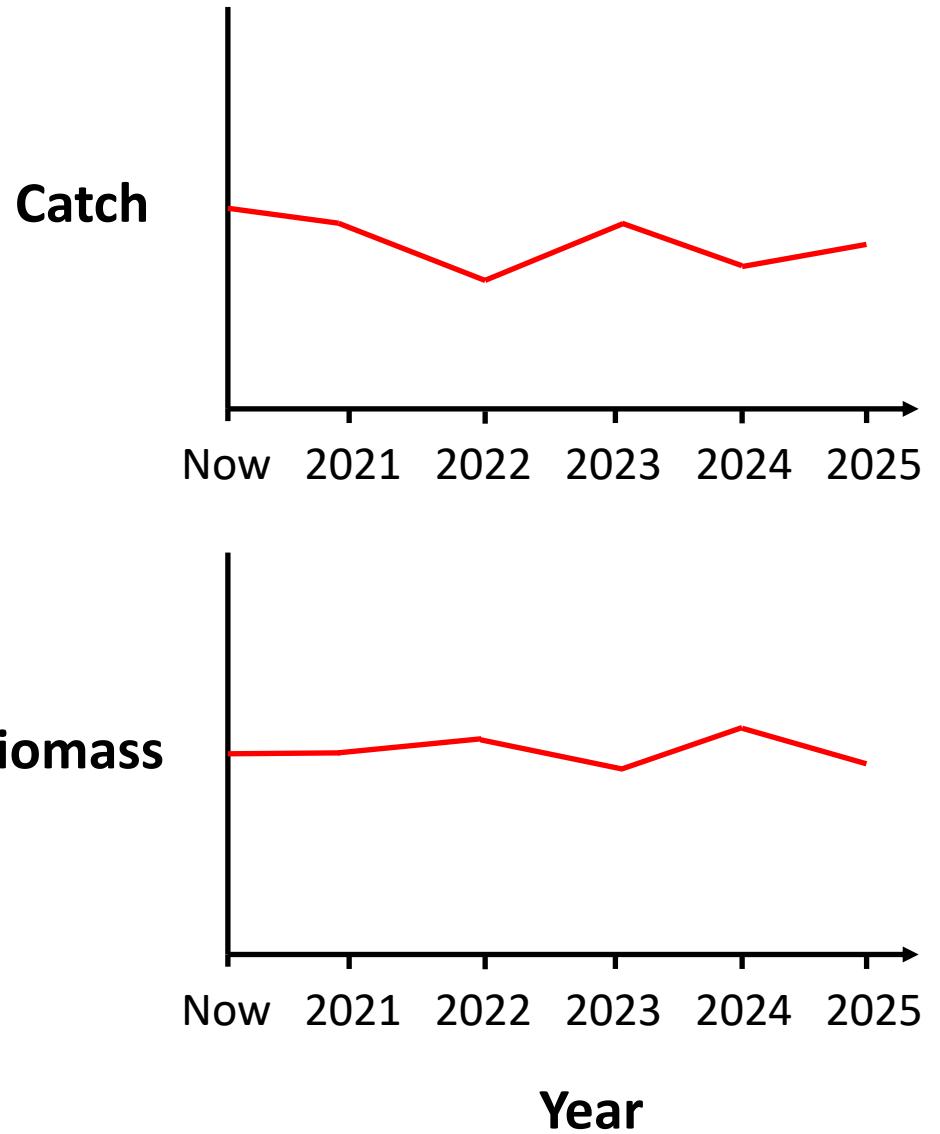
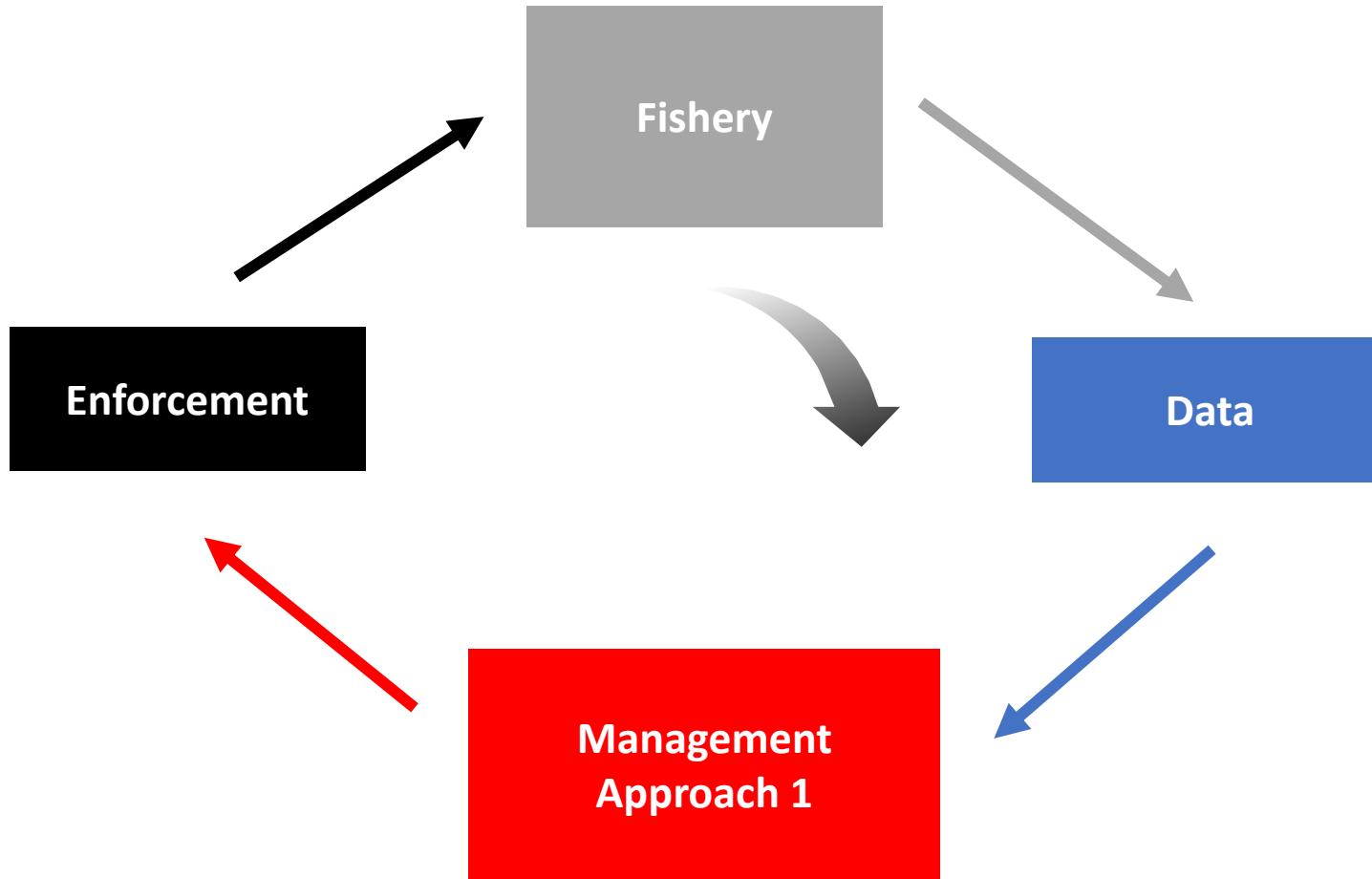
Test by simulation

Projection year: 2022

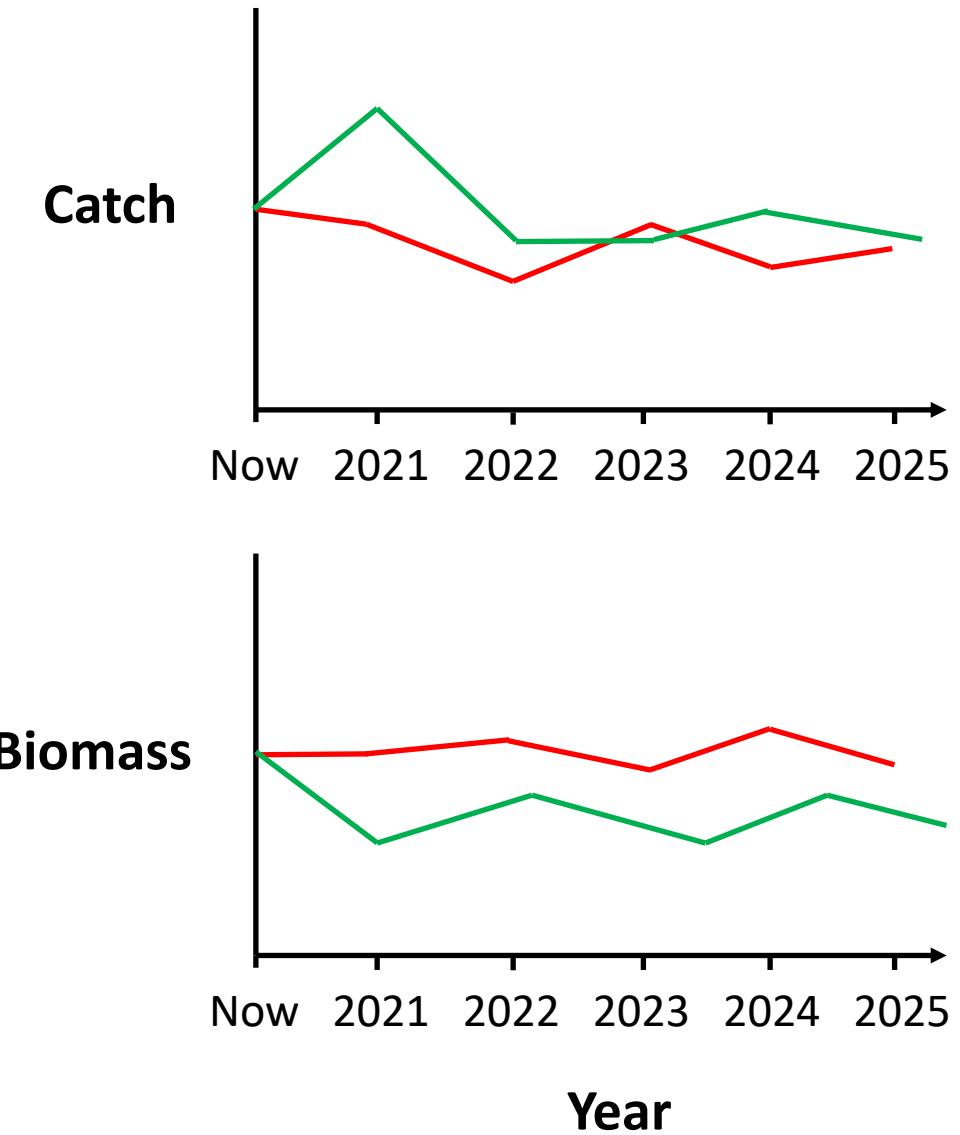
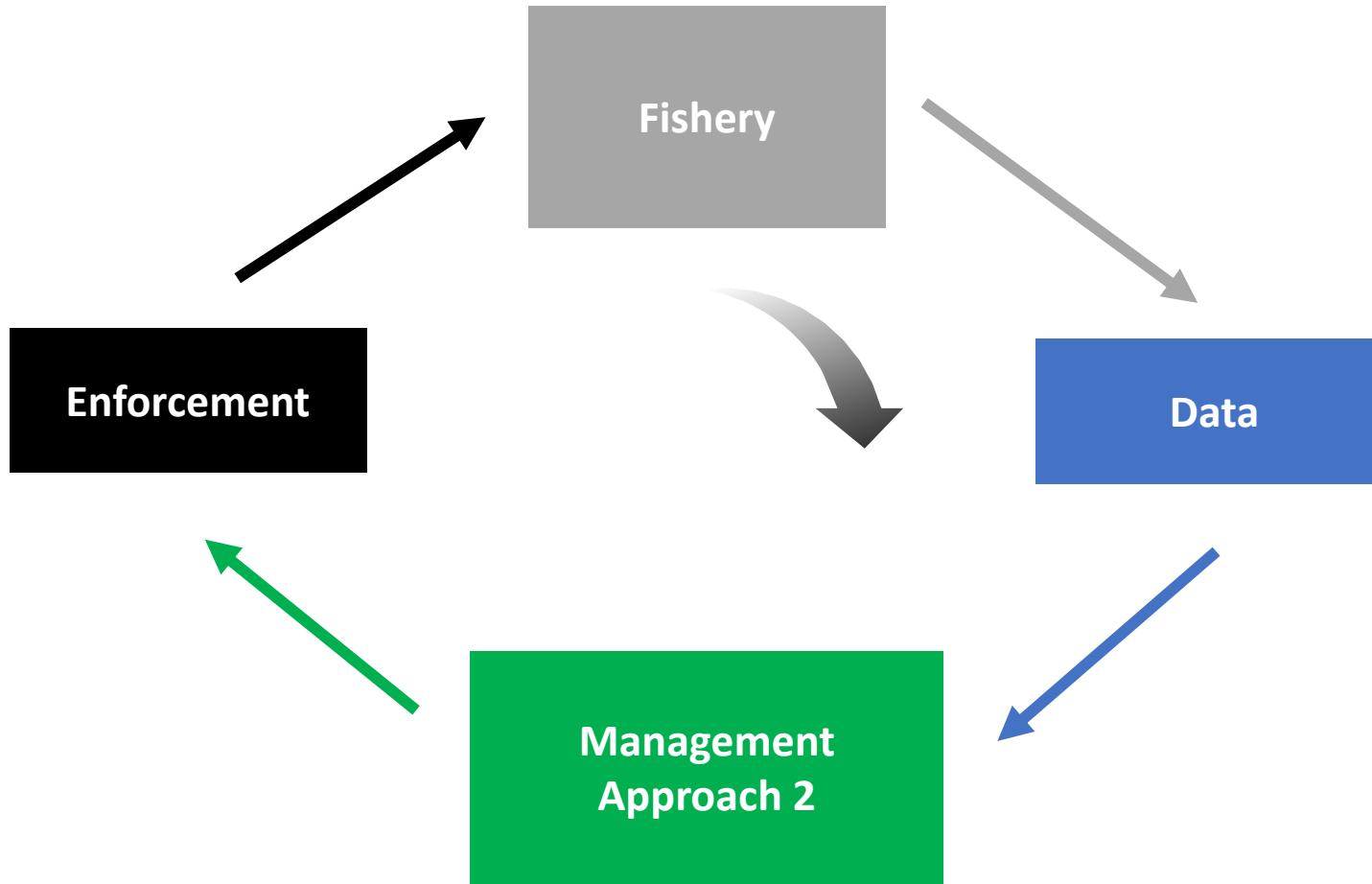




Test by simulation



Test by simulation





Test by simulation

What is the value of improved enforcement?

What things about system do we need to know better?

Fishery

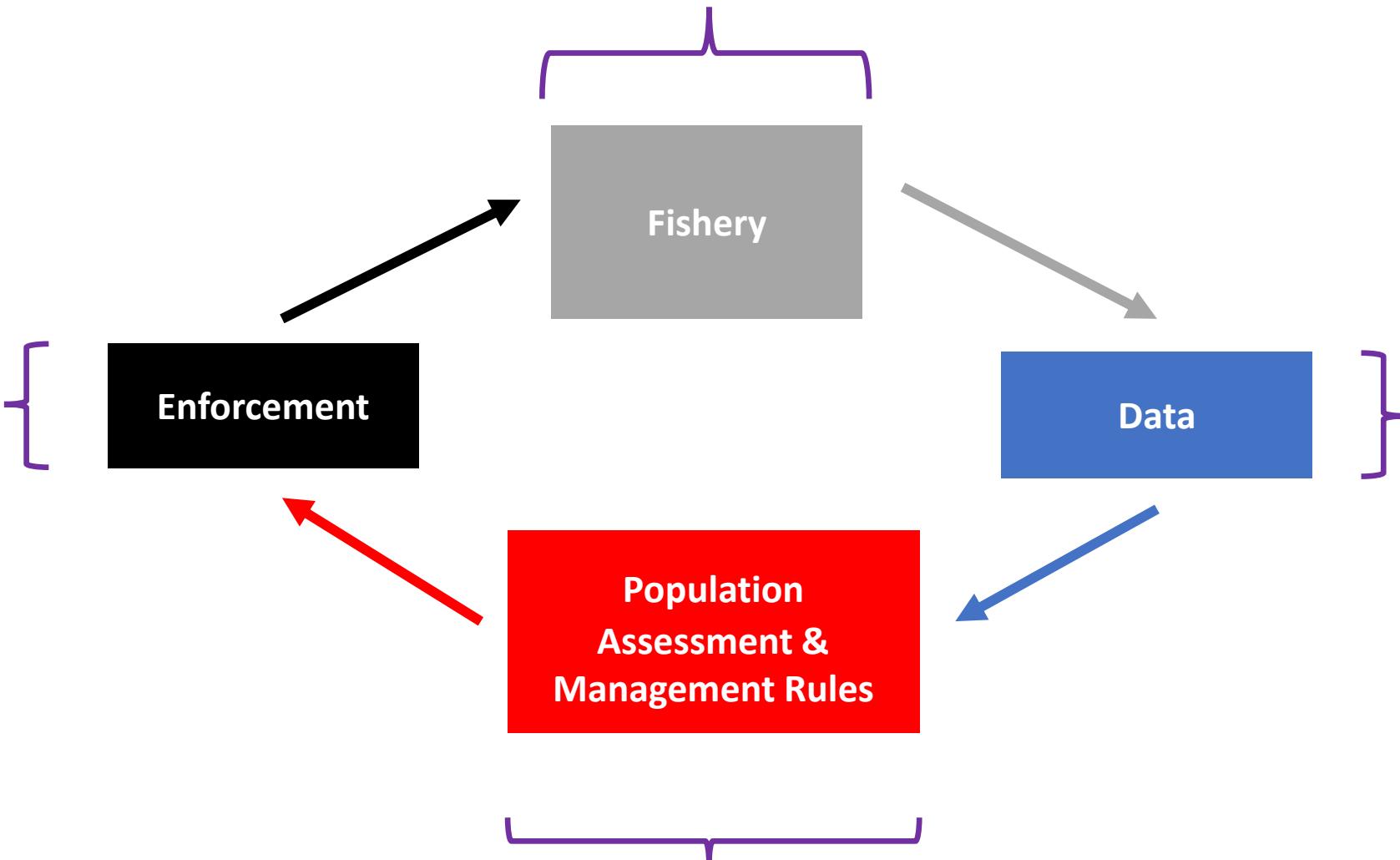
Data

Enforcement

Population
Assessment &
Management Rules

Which data should we improve?

Which management approach should we use?





MERA is an ongoing collaboration between the Marine Stewardship Council and the University of British Columbia.



MERA continues to be developed as a tool to inform management strategies for data-limited and data-moderate fisheries

The software uses DLMtool and MSEtool R software libraries that are the culmination of more than 10 years of development time, supported by:

Canadian Department of Fisheries and Oceans



US National Oceanic and Atmospheric Administration



The Natural Resources Defense Council



The Gordon and Betty Moore Foundation

The Packard Foundation

California Department of Fish and Wildlife



UN Food and Agricultural Organization



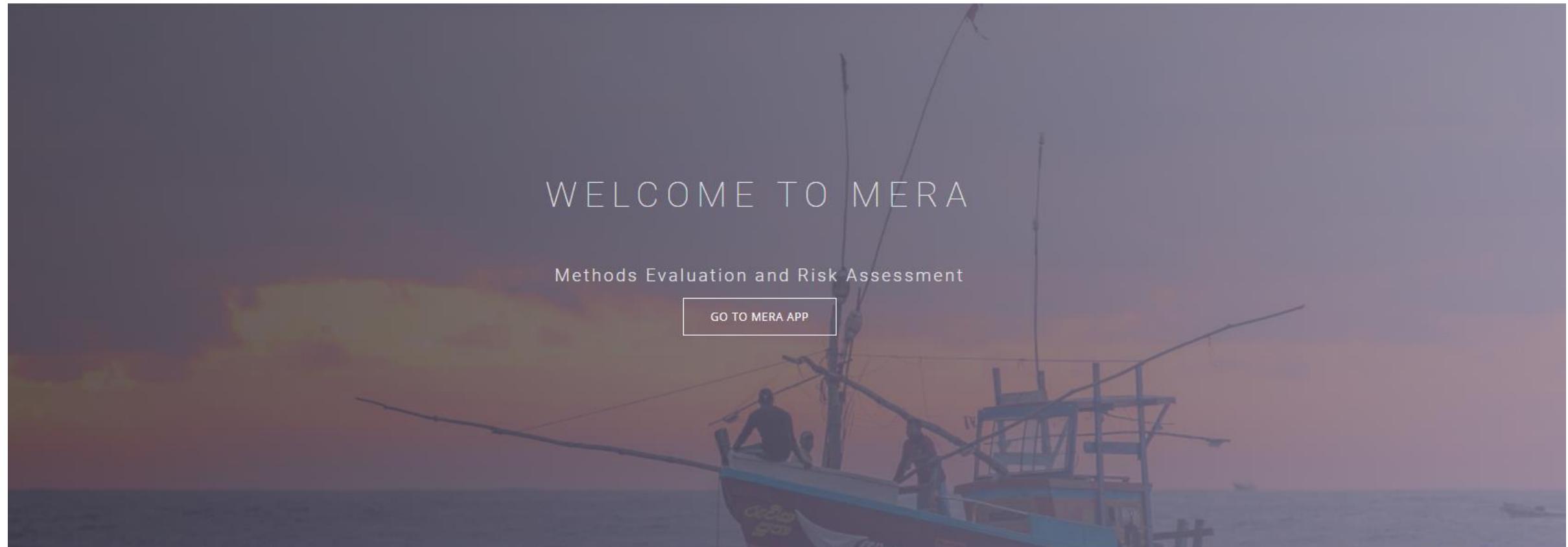
Now available online at www.merafish.org



WELCOME TO MERA

Methods Evaluation and Risk Assessment

[GO TO MERA APP](#)



ABOUT MERA

Welcome to MERA, an open-source tool for analyzing risk, guiding fishery improvement projects, and evaluating fishery management strategies for certification.





< MERA Demonstration >



MERA recap

30 quantitative questions for:

1. Characterising your fishery
2. State-of-the-art population status determination
3. Fully featured testing of alternative management approaches (MSE)
4. Rigorous risk assessment
5. Empirical testing of a current management system
6. Value of information analysis: what data are of greatest value?
7. Cost of current uncertainties analysis: what uncertainties are the most important in your system?



Muchas gracias por su atención
Niparaja & Pronatura!

¿Preguntas - Questions?