Harvest Strategies

A science-based decision-making process

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Roles

- **Stakeholders:**
  - What's important?


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- **Managers:**
  - Set management goals, risk levels
  - Identify potential ways for regulation


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- **Scientists:**
  - Evaluate different paths (Harvest Strategies) to achieve those goals.


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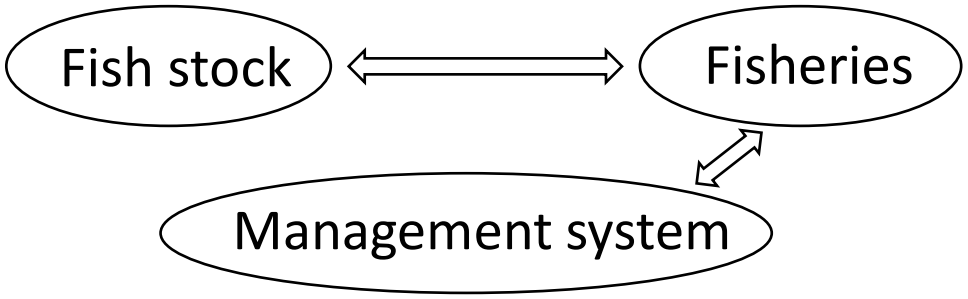
The role of Science: steps

- **Characterize the real system:**



- Consider natural variability and uncertainty

e.g. is productivity low or high??

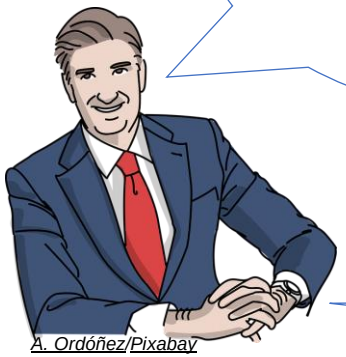
-> consider both -> Robustness!!

- **Evaluate performance of Harvest strategies** on all plausible scenarios

- Provide **scientific advice**
  - Synthesize
  - Characterize main trade offs
  - Facilitate selection of a particular HS

A necessary dialogue

Healthy stocks and sustainable Fisheries, in line with CFP



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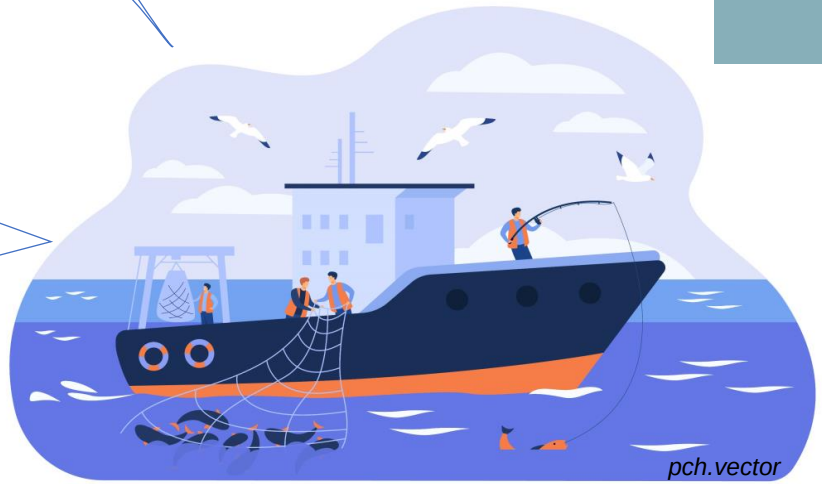
Low risk of collapse

A stable, profitable business for many generations



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How many options should we try?

How should we measure performance of HS?

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With this particular HS, the stock would be safe while providing high yields

A necesary dialogue

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Understand each other

Comunicate implications

Effective process

Facilitate decision

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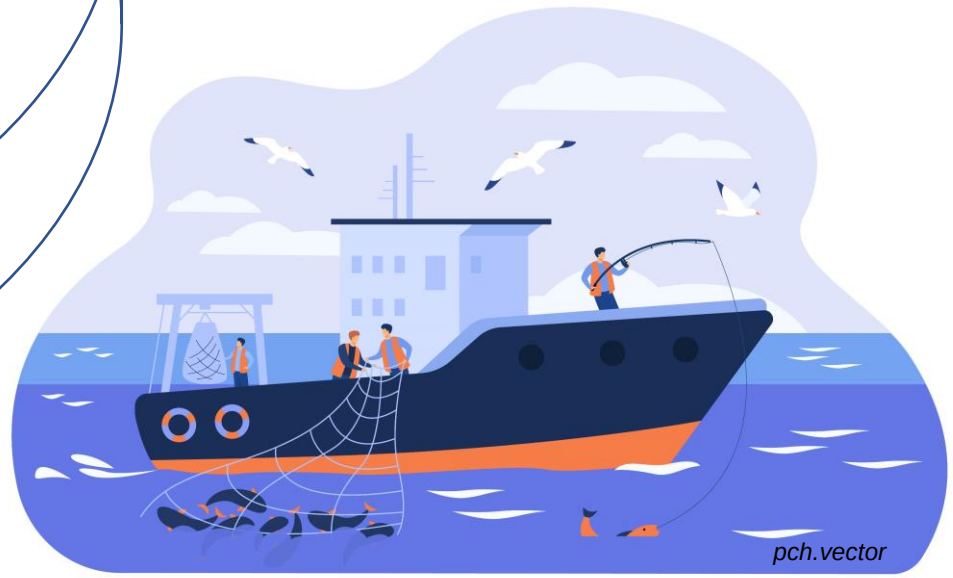

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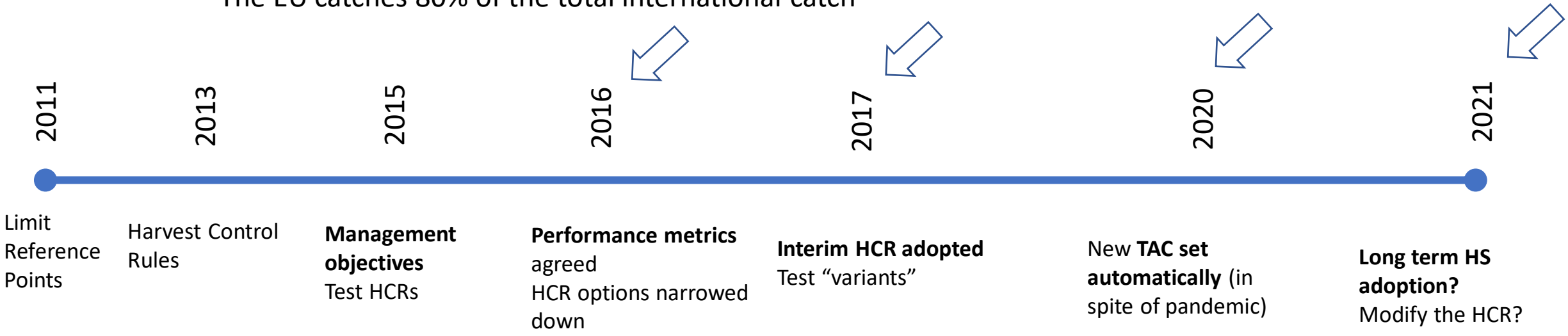
Albacore tuna example (ICCAT)

- First HCR for Atlantic tunas

- The EU catches 80% of the total international catch



- Albacore dialogue:

  - ICCAT meetings, Panel 2 meetings, Scientists and Managers Dialogue meetings, CCSUR, etc.

  - 23.709 emails !

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Thank you for your attention