



Current approaches to allocation

Socioeconomics | January 2023



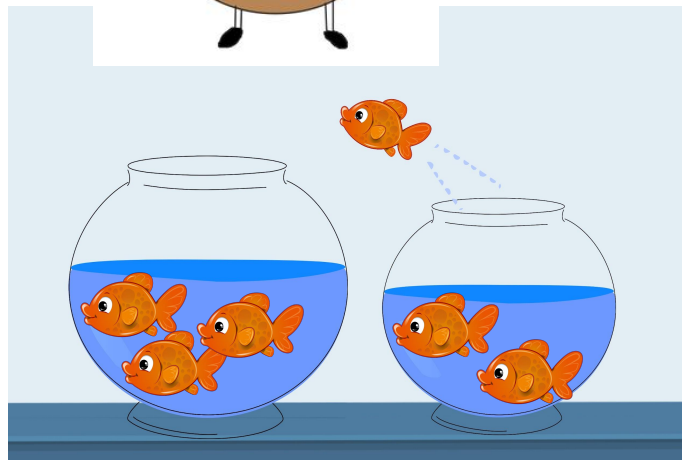
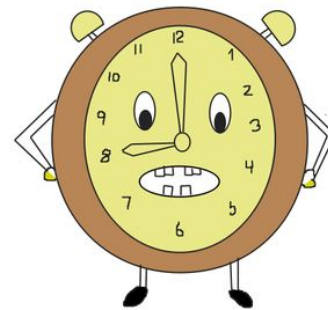
Motion Request and Response

Motion: Request the SEFSC analyze alternative practicable approaches to sector allocation determination, other than using historic landings only, that specifically include socio-economic evaluation.

Response: Present on current approaches to allocation analysis and solicit SSC feedback.

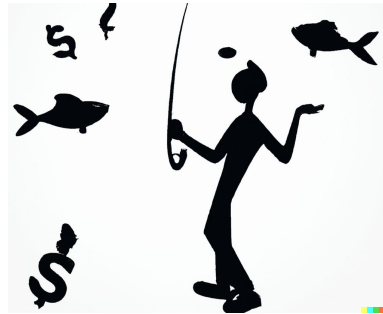
Changing Allocations

- **Why** or **when** to change allocations
 - GOM Allocation Review Guidelines
- **How to** and **how much** to change allocations
 - Subject of this presentation
 - What **approaches** are available?
 - What **criteria** are available to judge?



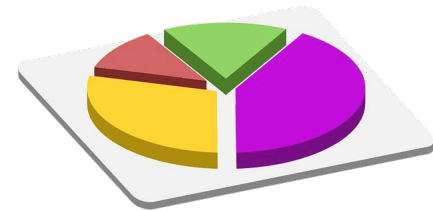
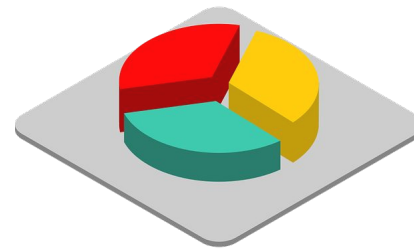
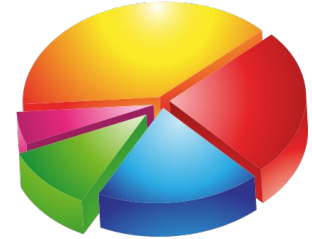
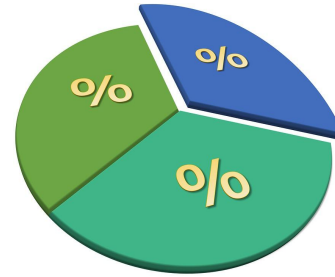
What is the Council trying to achieve?

- What are the **objectives**?
- What are the **criteria** to evaluate the objectives?
- How to **weight** the criteria?



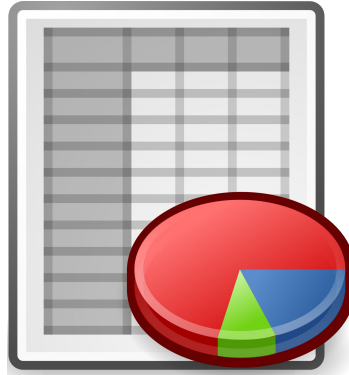
Ways to Change Allocations

- **Catch-based**
- Equal allocation (**Lottery**)
- **Auctions**
- Intersector **Trading**
- **Negotiation**
- **Multi-criteria** decision making
 - (ecological,economic,social,cultural,etc.)
- **Combination**

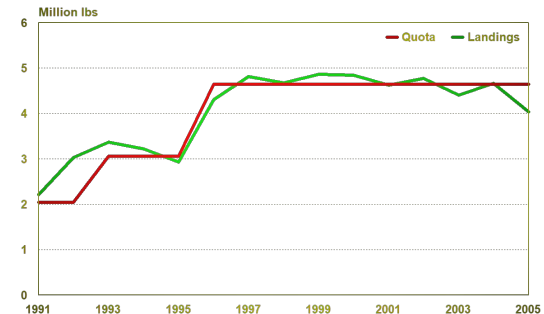


Catch-based

- **Share** based on the **percentage** of the ACL harvested over a given **period**

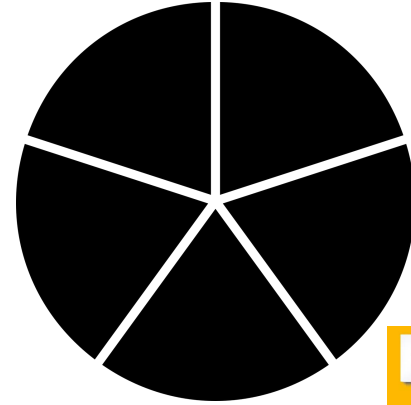


- Need harvest **records**
- Complicated if **quotas** have been in place



Equitable sharing and Lotteries

- **Equal** shares/quota to all participants
- If there is not enough, then allocate lots via a **lottery**
- Perceived as **fair or unfair**

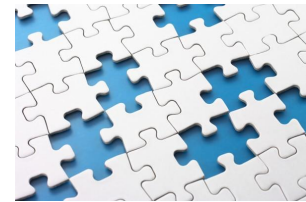
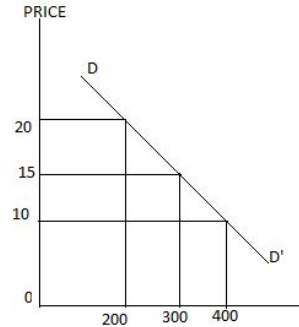


**KEEP IT
SIMPLE**



Auctions

- Prospective buyers **compete** for an opportunity to **purchase** a share of harvest
- Economically **efficient**
- **Costly** to fishers
- Useful where historical **records** are **missing** or **quotas** are in place





Intersector Trading

- At least one sector has a **Catch Share** program
- Allow **intersector transfer**

NOAA FISHERIES SERO Catch Shares Programs

Welcome to the Southeast Regional Office (SERO) Catch Share Programs - Public Home

This page is home to the Individual Fishing Quota (IFQ) programs for Commercial Red Snapper (RS IFQ, 2007-current) and Groupers (GT IFQ, 2010-current), the Bluefin Tuna Individual Bycatch Quota (BFT, 2015-current) program, and the Headboat Collaborative pilot (HBC, 2014-2015) program. The IFQ programs are intended to reduce the race to catch quotas by allocating individual fisherman quotas that can be harvested throughout the fishing year. The BFT program is intended to fish Bluefin tuna landings and discards and provide fishermen with incentives to avoid bycatch tuna interactions. The two-year HBC pilot program was intended to evaluate the viability of an allocation-based management strategy for the headboat sector. Each program is intended to achieve both conservation and economic goals through more efficient and more profitable harvesting and marketing practices.

Important Messages IFQ Landings BFT Catch Accounting

2022 IFQ Landings in (gutted pounds)

Share Category	Share Cap %	Quota	2022 Landings to Date	% Quota Landied	Quota Remaining
DWG	14.754321	1,024,000	384,238	37.5	639,762
GAG	2.349938	938,000	604,389	63.7	433,611
RED GR	4.331882	2,790,000	1,454,644	52.1	1,335,356
RED SNAPPER	6.620300	6,937,838	4,351,237	61.9	2,636,601
SWG	7.266147	525,000	190,323	36.1	424,677
TILE	12.212556	562,000	253,803	45.1	328,197

*IFQ landings listed here are updated each time this page is loaded, representing the most current landings.

**CHARTER
HALIBUT
LIMITED
ACCESS
PROGRAM**

**APPLICATION FOR TRANSFER
(LEASE)
Between Individual Fishing Quota
(IFQ) and Guided Angler Fish (GAF)**

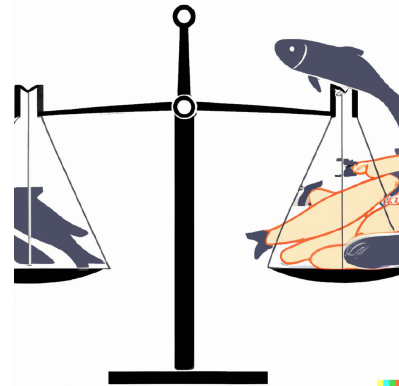
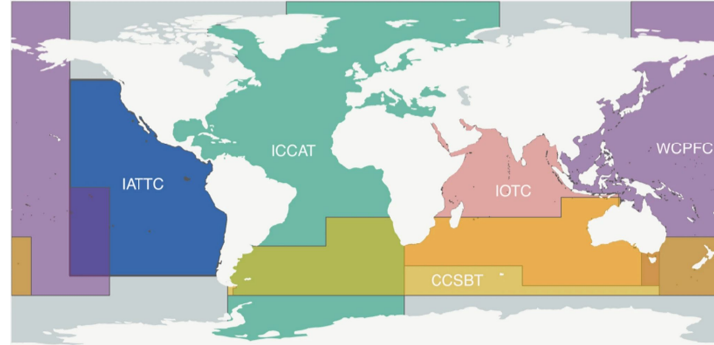




Negotiation



- Examples between **states**
 - Tuna (e.g., ICCAT, IATTC, CCSBT)
 - U.S. - Canada Pacific Salmon Treaty
- Negotiations between **sectors**?
 - Who represents each sector?
- What are negotiations over?
 - Allowable **catch**
 - Attribute **weights** assoc. with allocations



Multi-criteria decision making

LAWS AND POLICIES

Allocation of Fishery Resources

The term “allocation” refers to the distribution of the opportunity to participate in a fishery among user groups or individuals. Allocation of fishery resources is challenging due to the perceptions of fairness that arise with allocation decisions.

National



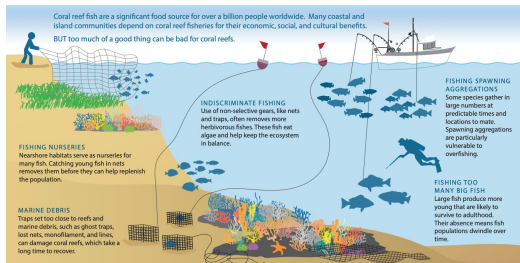
More Information

- › Allocation Policy
- › Criteria for Initiating Fisheries Allocation Reviews
- › Practices and Factors to Consider When Reviewing, Making Allocation Decisions

Multi-criteria decision making

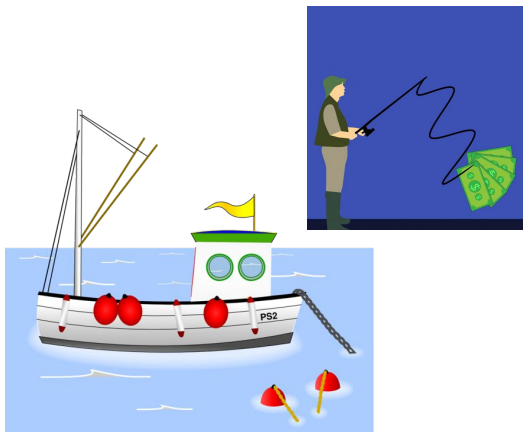
Ecological

- Target species
- Other fisheries
- Marine ecosystem



Economic

- Efficiency
- Impacts



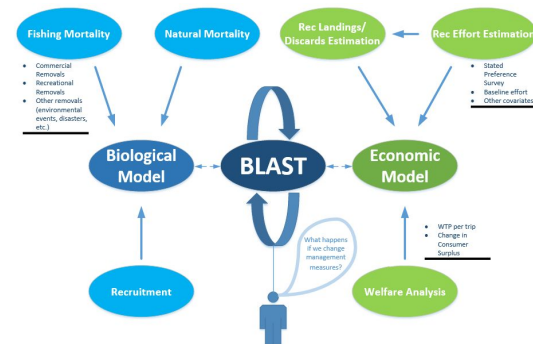
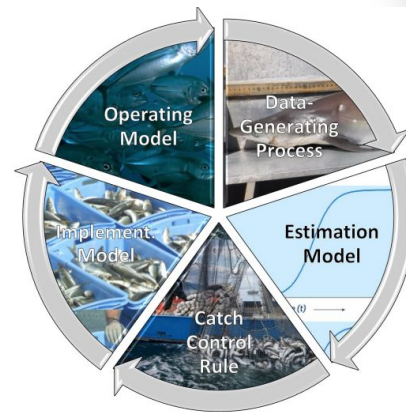
Social

- Fairness and equity
- Adverse effects
- Communities



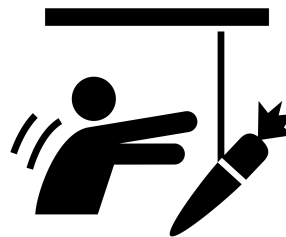
Bioeconomic and MSE models

- Can everyone agree on a model?
 - SEDAR**: all parties (mostly) aligned (**how many** fish?)
 - Allocation**: parties **not** aligned (**who** gets the fish?)
- Have detailed data from the commercial sector
- Where do we get detailed data from recreational sector?
 - For-hire log-books (SEFHIER)
 - Private anglers**????



More detailed angler information

- Why would anglers provide detailed information?
- What incentive could we provide?
- How about extra days to keep fish?
 - Days-for-Data **Angler Logbook** Program
 - Field **experiment**
 - **SA EFP**





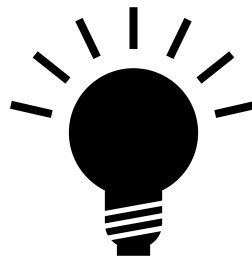
Summary

- The current multi-criteria approach requires **heavy ongoing** council involvement, detailed data, and accurate models
- There are alternative allocation approaches that may require **more** design effort **up front**, but **less** data and modeling for **ongoing** management.
 - Auctions, Inter-sector trading, Lotteries
- Regardless of the allocation strategy adopted, **detailed data** is necessary



Way forward

- Call in the **specialists**
- Academics and policy-makers with allocation **experience**
- **Workshop** on allocation approaches
- **Social science meeting** this year in Miami

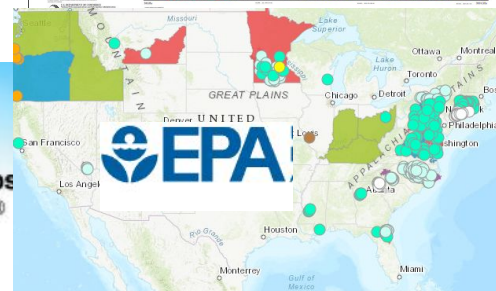
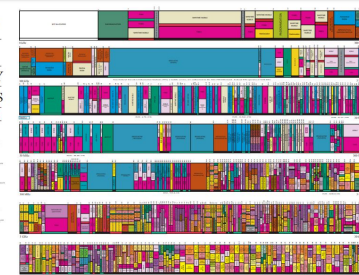


CHARTER
HALIBUT
LIMITED
ACCESS
PROGRAM

APPLICATION FOR TRANSFER
(LEASE)
Between Individual Fishing Quota
(IFQ) and Guided Angler Fish (GAF)



UNITED
STATES
FREQUENCY
ALLOCATIONS
THE RADIO SPECTRUM



US Army Corps
of Engineers

Way forward

- Improve allocation efficiency within the recreational sector
 - Explore sector separation
 - Begin analyzing the for-hire logbooks
 - Collect detailed angler data
- Can industry behavior suggest innovative solutions?
 - e.g, “catch share experience” trips

