

## Global Seafood

### Thecasesolutions.com

Seafood makes up 1/5 of animal protein in the human diet worldwide

- Bycatch and IUU Fishing
- Aquaculture
- Sustainable Seafood Campaigns



## Bycatch

### Thecasesolutions.com

"Bycatch: non-selective fishing practices that threaten non-targeted sea life, causing ecological degradation, and biological and economic waste."  
Historically was not acknowledged by scientists, cause volatile fisheries managers  
Purse-Seine Tuna fisheries in eastern Pacific in late 60s-early 70s  
Dolphin Safe Tuna and the Marine Mammal Protection Act (1972)



27 million tons in 1994, decreased since then but difficult to estimate  
Technical approach, regulatory approach, social approach to management

## Illegal, Unreported, and Unregulated Fishing

Defendants

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Illegal, unreported, and unregulated (IUU) fishing is a global problem that threatens the sustainability of wild fisheries and the livelihoods of millions of people who depend on them for food and income. IUU fishing is a complex issue that involves a variety of factors, including weak governance, lack of resources, and corruption. The casesolutions.com website provides a comprehensive overview of the problem and offers practical solutions for addressing it.



## Wild Fisheries

### Thecasesolutions.com

"Fisheries are the last major world industry exploiting wild natural resources for food, yet we do not think of the industry in such terms. Consider the US National 'Fish' and 'Wildlife' Service, a name that implies fish are perceived and managed as something other than wildlife"

Dynamic market, changes over time:  
Halibut in New England (1830),  
Atlantic Bluefin Tuna (1930), Rock and Jonah Crabs.  
Changing market reflecting the change in ocean ecosystems?



## Aquaculture

### Thecasesolutions.com

Global production of farmed fish in 2014: 92.2 million tonnes (97%)  
7% of all fish. 80% by volume for human consumption  
Production and handling of farmed fish is complex, and involves a variety of factors, including water quality, disease management, and feed management. The casesolutions.com website provides a comprehensive overview of the industry and offers practical solutions for addressing its challenges.



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## spreading the word: sustainable seafood

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#### Seafood Awareness Campaigns



### So how can we achieve a "sustainable seafood" industry?

- Increased international governance/cooperation, enforcement
- Reassessment of aquaculture operations
- Transparency of the industry and accurate/honest labeling
- Importance of public awareness: impact of consumers and environmental organizations on the industry



## The Search for Property: Institutional Investment in Real Estate

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# Bycatch

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"Bycatch: non-selective fishing practices that threaten non-targeted sea life, causing ecological degradation, and biological and economic waste"

Historically was not acknowledged by scientists, conservationists, fisheries managers

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# Illegal, Unreported, and Unregulated Fishing

## Definitions

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- Illegal: conducted by a vessel operating under fisheries management but violates regulations, operates in a country's waters without permission, on the high seas without flags or identification
- Unreported: catches that are underreported, misreported, or entirely unreported to relevant authorities by fishing vessels or the flag state
- Unregulated: activity of vessels that do not participate in fisheries management or fly the flag of a state that does not participate in fisheries organizations

Economic incentives to participate in IUU fishing vs. enforcement efforts

Implications for management and economic impacts



# Aquaculture

Thecasesolutions.com

Fastest growing food industry: 9.2% per year since 1970

1/4 of all fish directly consumed by humans comes from aquaculture

Problems with biological efficiency: salmon, 25-50 kcals inputs = 1 kcal salmon protein



Fishing down and farming up the food web  
Environmental impacts: habitat destruction, introducing non-indigenous species, pollution  
Will it relieve pressure on wild fish stocks?

# spreading the word: sustainable seafood

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## Seafood Awareness Campaigns

### Issues

- Concerns about criteria (LCA)
- Conflicting information
- Lack of transparency
- Inaccurate labeling



### Seafood Guides

200+ sustainable seafood guides - MBAq "Seafood Watch" one of the most popular/widespread



### Thecasesolutions.com

Impact of seafood guides on consumers

Impact of seafood guides on the seafood industry: distributors and fisheries

### Eco-Labeling

Unilever + World Wildlife Fund = Marine Stewardship Council (1997)

2007: 25 MSC certified fisheries, 34 countries, 857 different MSC certified products

32 more fisheries undergoing certification, rise in demand for sustainably sourced seafood





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