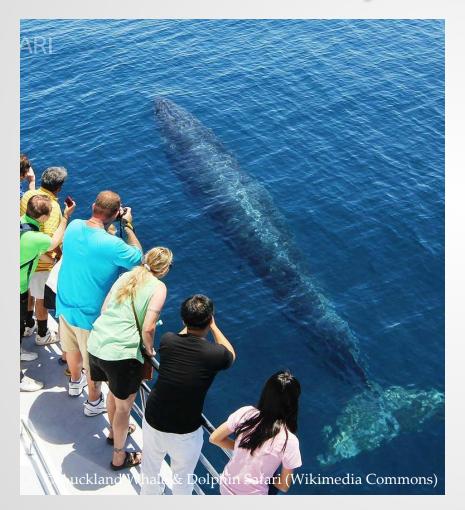


Resident Perceptions of Whale Watching in the Dominican Republic: A Sustainability Study

Aireona Bonnie Raschke PhD Candidate (Arizona State University) GFDD/FUNGLODE Fellow

Social and Environmental Sustainability in Whale Watching



- Environmental & Social Sustainability in Whale Watching
- Methods
- Results
 - Perceptions of Cetaceans and Protective Measures
 - o Perceptions of Whale Watching
 - o Conflict as a Cost
- Recommendations



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Environmental & Social Sustainability in Whale Watching

"Not only does the industry **support local businesses**, but it brings with it a sense of identity and cultural pride, helping to **foster an appreciation for the marine environment**."

(http://www.ifaw.org/united-states/defending-whales/whale-watching)



A Better World for Animals and People

"Another benefit is that whale watching is quite simply, a **valid counter-argument to whaling**. Whale watching directly competes with whaling, as the two activities are incompatible."

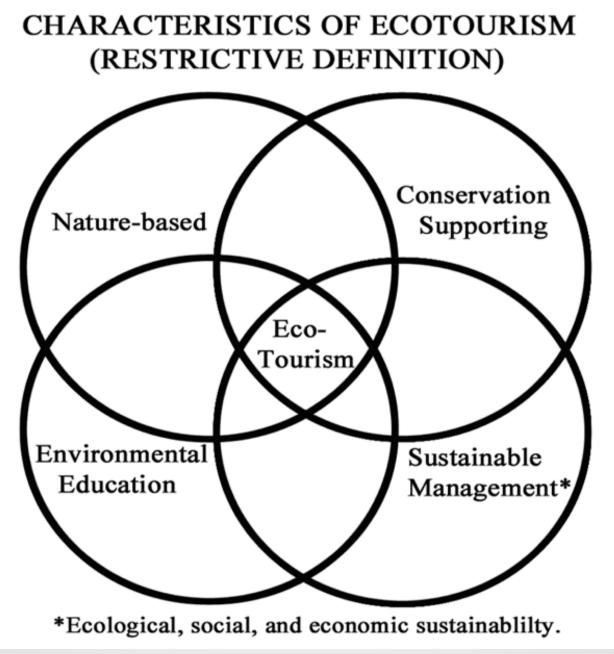
(http://www.wdcs.org/connect/whale_watch/story_details.php?select=59)

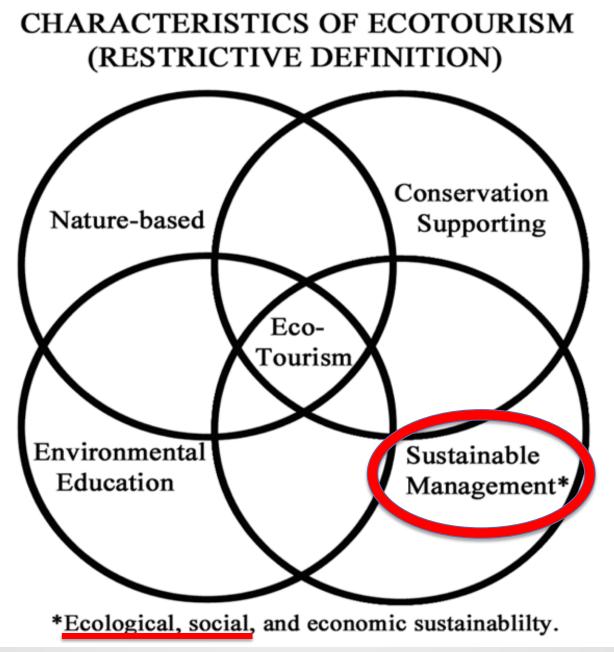


"Data obtained from whale watching vessels and details of whale watching activities are matters of importance for the on-going work of the IWC and can **directly benefit whale conservation**."

(http://www.greenpeace.org/international/en/publications/reports/whale-watching/)







Potential Negative Effects for Cetaceans



Image: http://newswatch.nationalgeographic.com/files/2012/10/beggar-• dolphin-feeding.png

- Harassment
- Increased energy expenditure
- Changes in behavior
- Noise pollution
- Habituation to humans
 (Parsons 2012)

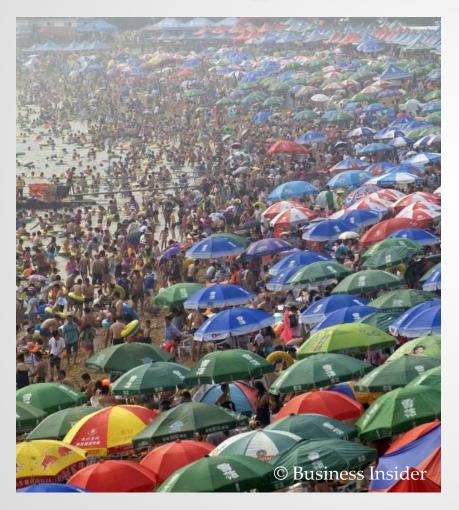


Local People and Sustainability

- Ethical obligations to local people
- Success of conservation
- Support for sustainability programs in the long-term

(Liu et.al. 2013; Redpath et. al. 2013)

Potential Negative Impacts for People



From tourism in general:

- Overcrowding
- Environmental impacts
- Increase in criminal activity
- Loss of cultural integrity
- Increased cost of living
- Competition for the use of resources

(Andereck et. al. 2005)

What are local perceptions of the whale watching industry and associated efforts to protect cetaceans?









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Study Location and Methods

Whale Watching in the Dominican Republic



Methods

- Qualitative interviews
- Three groups:
 - Non-whale watch employees (Non-industry),
 - Whale watch operators (Industry)
 - o Government/historic respondents.
- Coding analysis (Saldana 2013)
- Social exchange theory (Ap 1992)





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Results and Discussion



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Results and Discussion Perceptions of Cetaceans and Protective Measures

Local and Whale Watch Operator Perceptions of Cetaceans

Non-industry

- Positive
- Descriptors: Innocent, beautiful
- Need for protection
- No described conflict with fishermen

Industry

- Positive
- Descriptors: Large, charismatic, amazing, entertaining, intelligent
- Understanding
- Need for protection



Described Threats to Cetaceans

Non-industry

- Entanglement
- Predators
- Sediment
- Ship strikes
- Whaling

Industry

- Whale watching
- Entanglement
- Noise pollution
- Vessel traffic
- Whaling



Local Support for Protective Measures

• "Here, I learned that the whales are productive, economical, and cultural. More or less they come every year. Economically because they leave money and it's a way to earn some money. Part of that, we also have to protect them and all of that."

 "Well, if it [protective measures] is feasible, then I think so. I think so, we can [protect cetaceans from the threats that they listed]. Within what's possible, we can."

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- "Here, I learned that the whales are productive, economical, and cultural. More or less they come every year. Economically because they leave money and it's a way to earn some money. Part of that, we also have to protect them and all of that." Support due to value to the community.
- "Well, if it [protective measures] is feasible, then I think so. I think so, we can [protect cetaceans from the threats that they listed]. Within what's possible, we can." Feasibility.

Local Conflict with Regulations

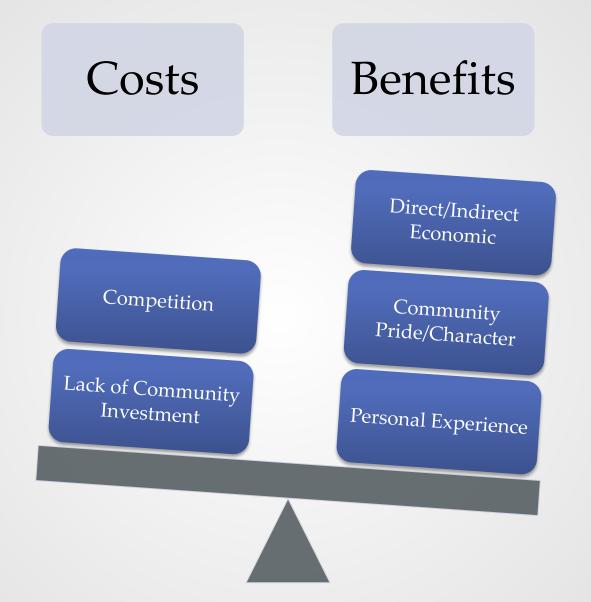
- "Do not impose rules such as the catamarans can go while the smaller boats can't go, but everyone should have the ability to go and watch the whales. It's very bad that the small ones can't see the whales, and all the big ones can see them."
- Fairness v. necessity for whale watching limits.





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Results and Discussion Perceptions of Whale Watching



Local Perceptions of Whale Watching Benefits

- "For us it is very valuable because when the time of whales is back, there's a lot of people that come.
 It's good for all the restaurants and people who work on boats, for the people that sell and the hotels."
- "I like it personally. I like it because it's very fun; these are things that I do not see every day and it makes my job, it makes people outsiders come and meet both the whale watching and Samaná. It's advertising Samaná."

Local Perceptions of Whale Watching Benefits

- "For us it is very valuable because when the time of whales is back, there's a lot of people that come.
 It's good for all the restaurants and people who work on boats, for the people that sell and the hotels." Direct and indirect economic benefits.
- "I like it personally. I like it because it's very fun; these are things that I do not see every day and it makes my job, it makes people outsiders come and meet both the whale watching and Samaná. It's advertising Samaná." Personal experience and community character.

Local Perceptions of Whale Watching Costs

- "Like I said before, the economic factors and what we call competition [are issues] because... there are several people that want to do it simpler, appropriating a small boat or a yacht without any type of discipline. So that could affect [the whales] and we can try to regulate it."
- "The only thing I see wrong is that the whales come and everyone thinks to benefit from money and this, but they do not invest some money in the community."

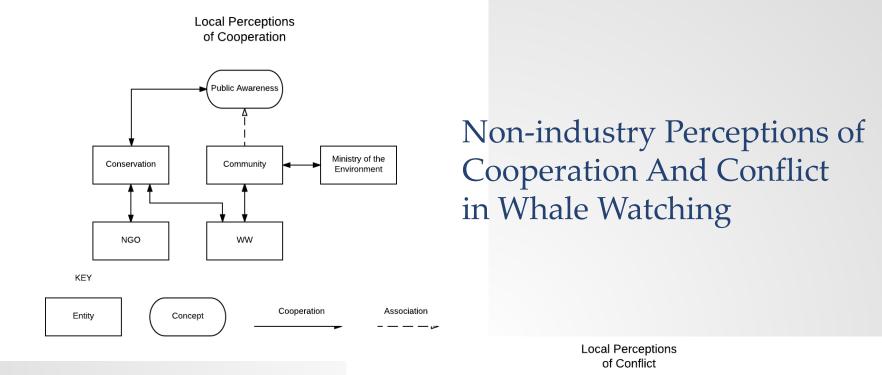
Local Perceptions of Whale Watching Costs

- "Like I said before, the economic factors and what we call competition [are issues] because... there are several people that want to do it simpler, appropriating a small boat or a yacht without any type of discipline. So that could affect [the whales] and we can try to regulate it." Increased competition and conflict.
- Local perspective: "The only thing I see wrong is that the whales come and everyone thinks to benefit from money and this, but they do not invest some money in the community." No investment from the industry or the government.



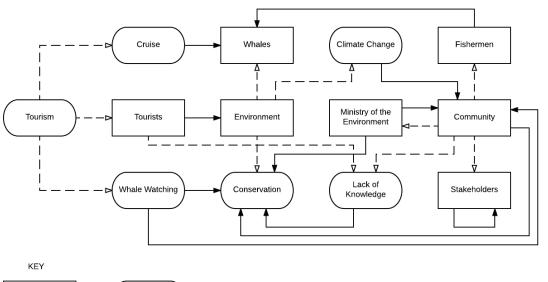
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Results and Discussion Conflict as a Social and Environmental Cost



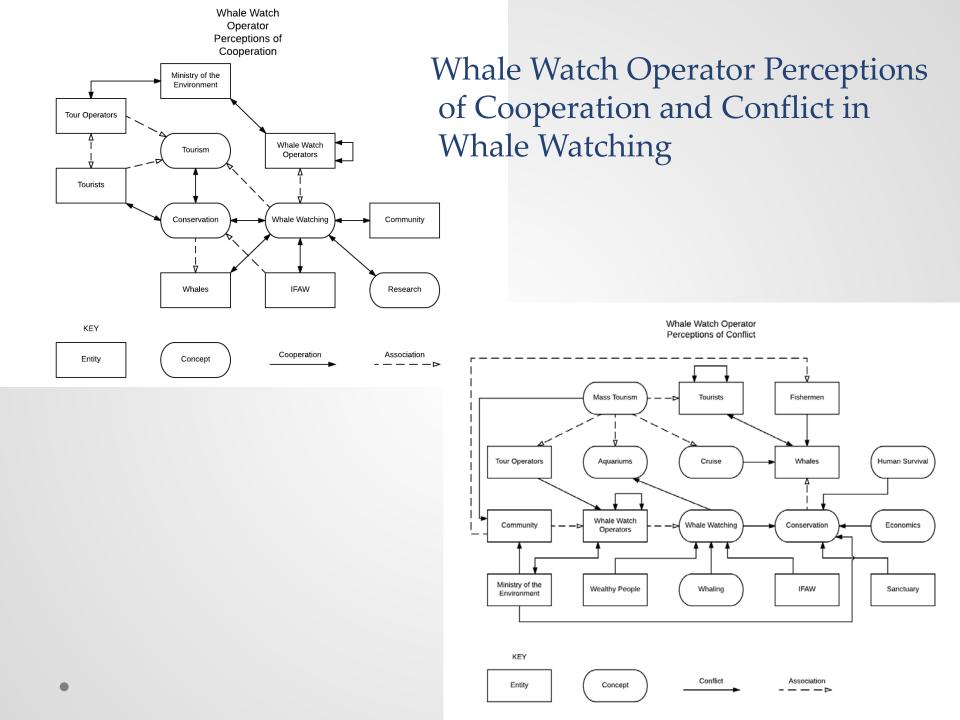
Entity

Concept



Conflict

Association



Conflict with the Government

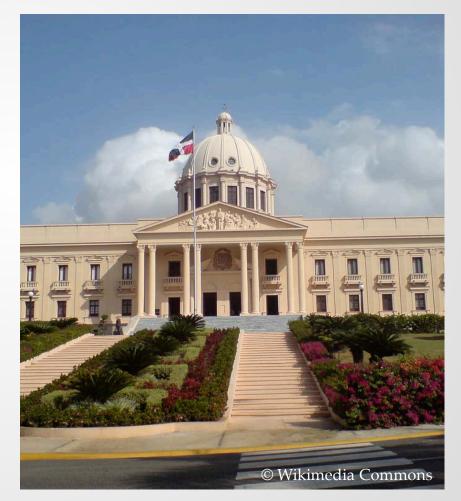
- Non-industry perspective: "Each person that goes to see the whales pays \$100 (Dominican Republic pesos) of taxes to the environment ministry, but that money does not stay in the community, instead, it goes directly to the Ministry."
- Industry perspective: "And they [government officials] always treat us like... we're like only interested in money, we're completely commercial..."

Conflict with the Government

- Non-industry perspective: "Each person that goes to see the whales pays \$100 (Dominican Republic pesos) of taxes to the environment ministry, but that money does not stay in the community, instead, it goes directly to the Ministry." Unclear use of whale watching government fees.
- Industry perspective: "And they [government officials] always treat us like... we're like only interested in money, we're completely commercial..." Signs of unrest in negotiating with the government.

Complex Relationship Between the Industry and the Government

- **Mistrust** among some industry practitioners and the government
- Perceived undermining
 of industry cooperation
- Inability to participate
 in co-management
 activities
- Feeling of undermined regulations by some whale watch operators

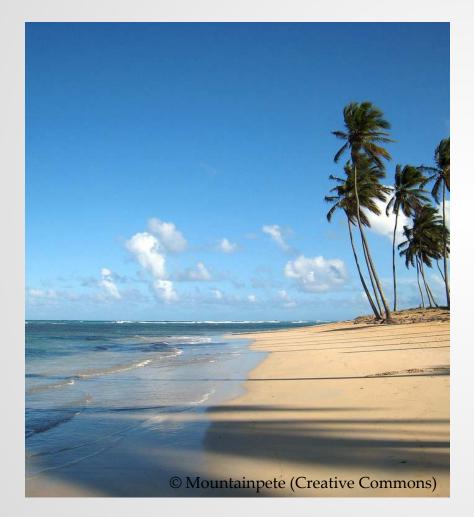




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Recommendations

Recommendations



- Prioritize regulations to protect cetaceans
- Maintain relationships
 between government
 and industry
- Increase government outreach to the community
- Support local organizations developing human capacity in the community

Acknowledgements



FUNGLODE

FUNDACIÓN GLOBAL DEMOCRACIA Y DESARROLLO





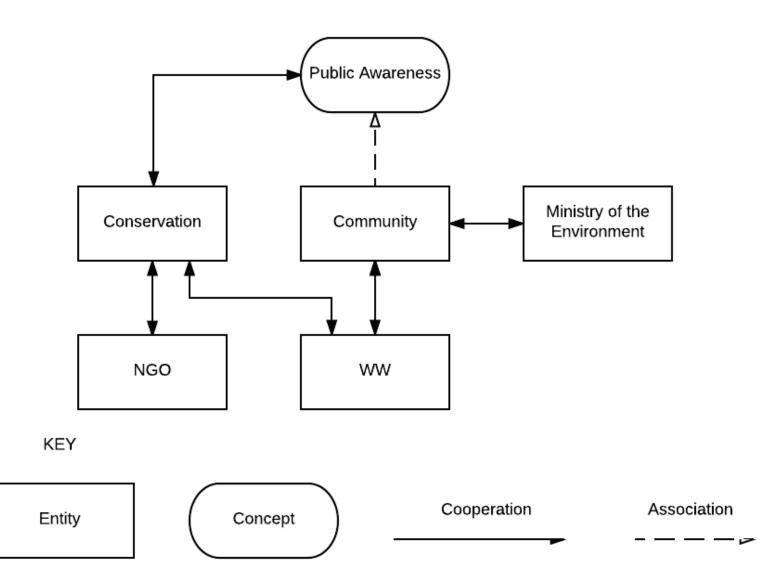
ARIZONA STATE UNIVERSITY

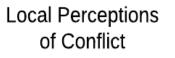


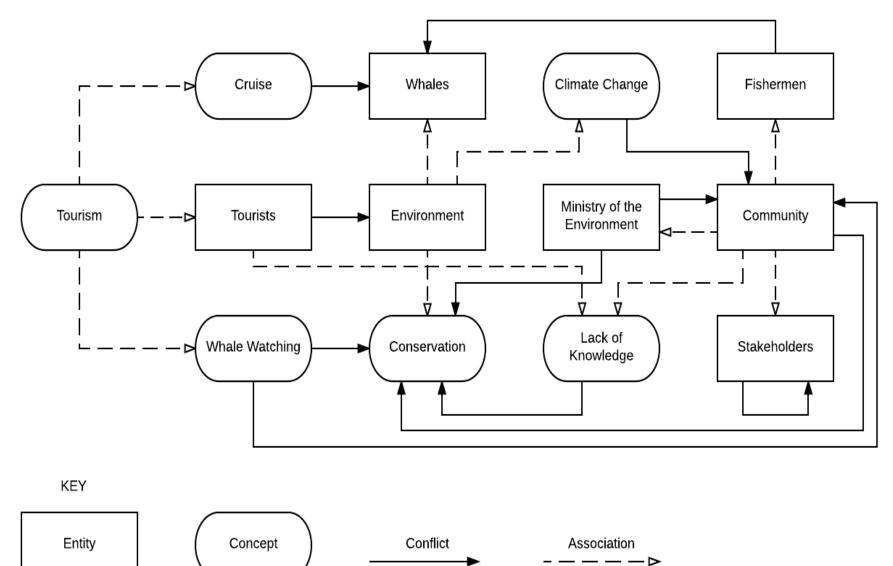


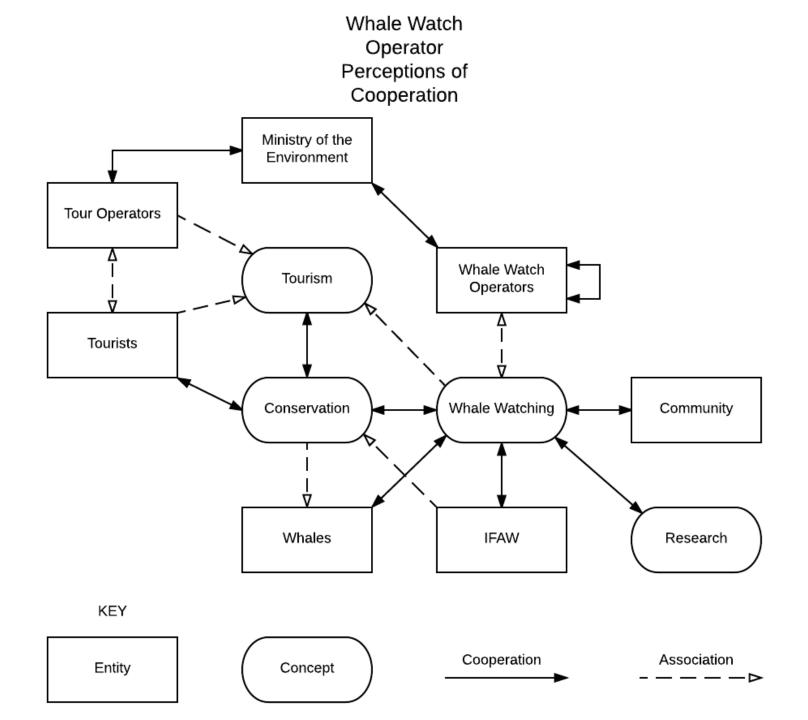


Local Perceptions of Cooperation

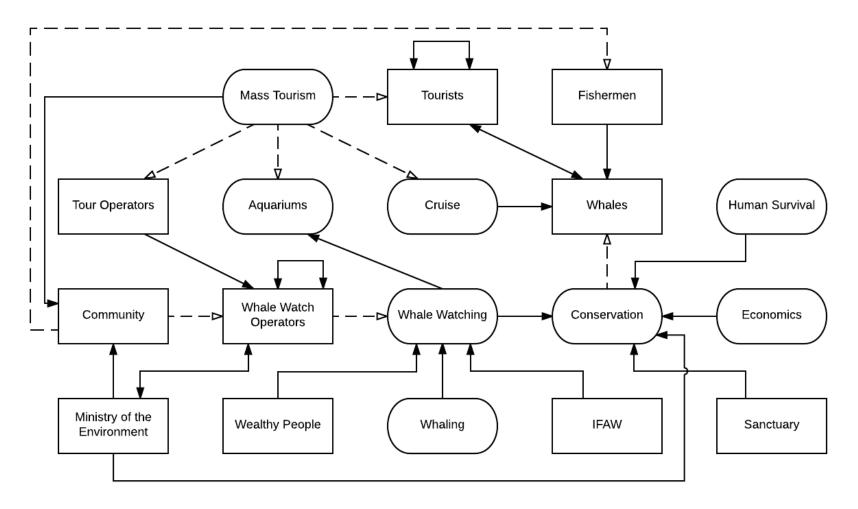








Whale Watch Operator Perceptions of Conflict



KEY



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The Role of Whale Watching

- Alternative to whaling.
- Can be designed to promote educational, scientific, and conservation goals.
- Whale watching operations can provide a means of gathering data on cetacean species.
- Significant economic benefits for coastal communities.

* When properly managed.

(Neves 2010, Hoyt 2005)



Image: http://media-cdn.tripadvisor.com/media/photo-s/01/7d/86/d9/whale-watching-sydney.jpg