Economic incentives







Buyouts reduce pressure on habitat and resources by removing harvest capacity.

users for giving up unsustainable practices.

activities.

Buyouts, conservation agreements, and alternative livelihoods provide economic incentives

Economic incentives differ in the way that they affect resource use. Three approaches to providing economic incentives to conserve natural resources are buyouts, conservation agreements, and alternative livelihoods. These approaches are tools used by conservation investors (e.g., nongovernment organizations, government, private sector) to engage resource users (e.g., local residents, fishers, developers).

TYPE OF INCENTIVE	Pnhont2	Statuation agreement.	Sternative livelihoo a
DEFINITION Reward	Purchase of resource rights or equipment.	Direct compensation for behavior change.	Income or subsistence from new livelihoods.
Behavior change	Reduce harvest levels.	Halt ecosystem-damaging activity.	Halt reliance on unsustainable resource use.
MECHANISM	Reward compensates for reduced harvest capacity. Enforcement maintains the change.	Reward provided only if behavior changes.	Reward follows when alternative livelihood becomes economically viable.
REWARD	Usually cash.	Social benefits (e.g., health, education, transportation). Cash.	Income or consumption of goods from new livelihoods.
MAINTAINING CHANGE	Government agencies must continue to provide monitoring and enforcement.	Conservation investors must ensure continued monitoring for compliance and delivery of benefits.	Resource users must continue to engage in new activities and avoid unsustainable resource use.
COST STRUCTURE	Large, initial cost. Ongoing enforcement cost.	Ongoing cost of benefits and monitoring.	Cost of training, technical assistance, and initial funding for new livelihoods. New activities designed to become self-sustaining.
ESSENTIAL FOR SUCCESS	Well-defined access rights over the resource. Effective enforcement.	Long-term commitment from conservation investor.	Becomes and remains more profitable than unsustainable resource use.
EXAMPLE PROJECT	Purchase and retire fishing licenses to reduce total harvest in an area.	Cover annual teacher salaries as long as no-take zone is observed.	Provide skills-training and start-up funds for ecotourism venture.



Twenty-seven cases were selected to examine the role of economic incentives in driving behavior change. Three of the studies are highlighted below.

Type of incentive: Buyout

Morro Bay, California, USA



Challenge:

Bottom-trawling, causing habitat destruction.



Incentive:

The Nature Conservancy purchased six federal trawling permits and four trawling vessels.

Conservation action:

A network of no-trawl zones in approximately 1.5 million hectares of ocean.

The future:

Plan to lease back the permits to fishers, restricting them to sustainable harvesting methods.

Type of incentive: Conservation agreement

Laguna San Ignacio, Mexico



Challenge:

Coastal development, threatening gray whale habitat.



Incentive:

International Community Foundation provides US\$25,000 for small-scale development each year the community complies with the agreement.

Conservation action:

Protection of approximately 48,500 hectares of gray whale habitat.

The future:

The contract between Ejido Luis Echeverria and nongovernment organizations is permanent, including monitoring by a third party, Pronatura.

Type of incentive: Alternative livelihood

Kubulau, Fiji



Challenge:

Overfishing and unsustainable methods, resulting in fishery decline.



Incentive:

Kubulau communities collect dive tag fees from tourism operators, which fund management activities and community benefits.

Conservation action:

With support from the Wildlife Conservation Society and others, communities maintain a network of 13 marine managed areas to protect dive sites.

The future:

The Kubulau communities intend to become more directly involved in tourism enterprises.

Designing an incentive approach



To choose sustainable management and conservation of marine biodiversity and natural habitat, resource users and decision makers need to see tangible rewards for changing resource use behavior.

- Incentive-based conservation approaches all recognize that potential loss of income and access to resources must be offset.
- Project design must consider links between incentives and behavior to draw on strengths of each approach.
- Buyouts and conservation agreements in many instances will need to incorporate alternative livelihood investments into the overall strategy.
- Some buyouts provide ongoing rewards, thus resembling conservation agreements.



- Formal enforcement and rule of law are critically important for buyouts.
- Acute threats require a direct incentive response—a buyout if possible, or else a conservation agreement.
- In sites with weak regulatory context, buyouts will not be possible.



- Agreements can overcome enforcement challenges relating to buyouts and alternative livelihoods.
- A community must be able to act collectively as an effective counterpart in a conservation agreement.
- A conservation agreement should not be pursued if desired behavior change cannot be monitored, as there will be no way to determine whether reward is justified.



- Market requirements for alternative livelihoods are often demanding; private sector involvement can help meet those requirements.
- External financing should not be needed once the livelihood activity becomes self-supporting.
- When unsustainable activities are very profitable, competitive alternatives may not exist.
- Alternative livelihood projects can face a challenge in demonstrating clear links to conservation outcomes; such outcomes must be defined and monitored.

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For further reading:

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