

An underwater scene with various fish, including a clownfish, a surgeonfish, and a pufferfish, swimming in blue water. The fish are colorful and detailed, with some showing stripes and others having unique patterns.

Integrated Marine Concessions

A new approach to an old problem

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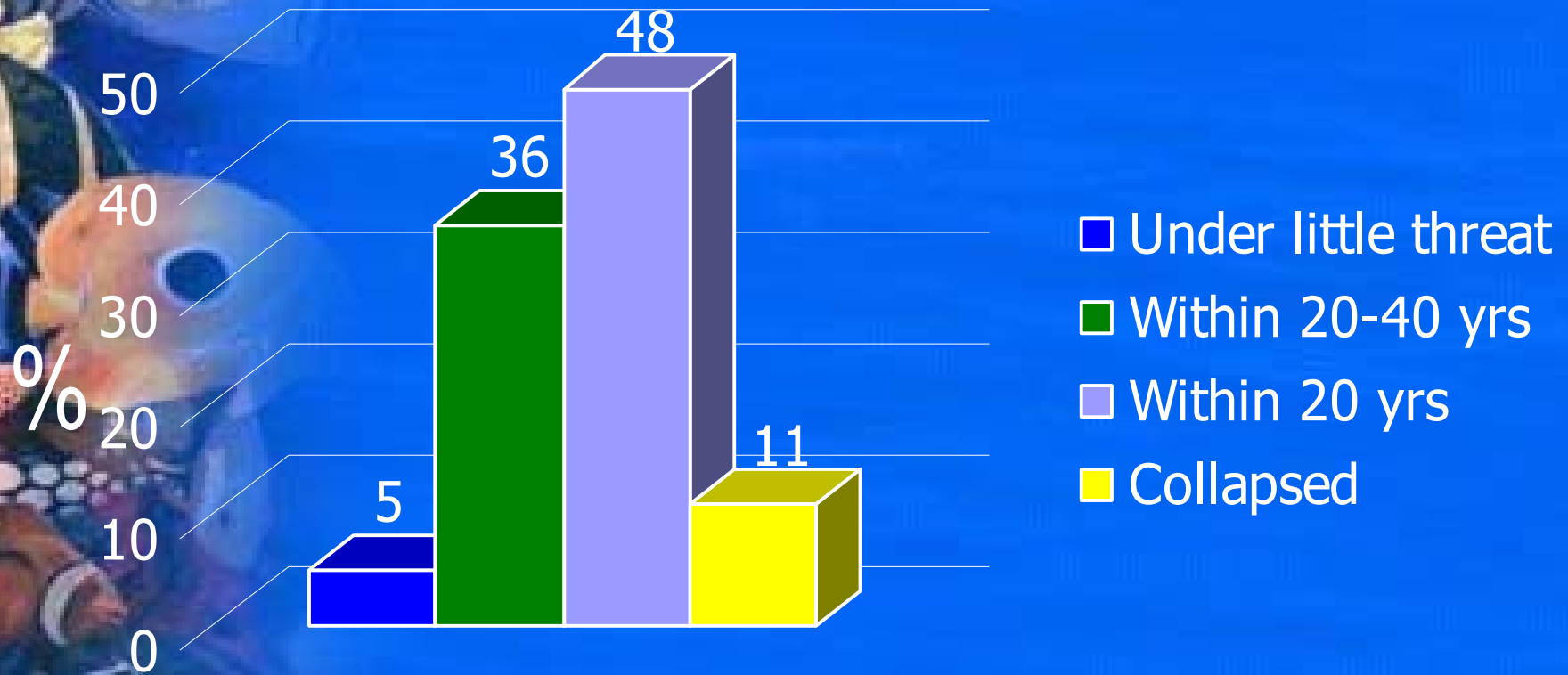
A vibrant underwater scene with various colorful fish swimming near a coral reef. The background is a deep blue, and the foreground shows a variety of fish, including a large orange and white striped fish, a yellow and black striped fish, and several smaller fish in different colors like orange, white, and blue. The fish are swimming in a clear, blue water environment.

Types Of Destructive Reef Fishing

- Dynamite fishing
- Food cyanide fishing
- Aquarium cyanide fishing

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Likelihood of Coral Reef Collapse



A vibrant underwater scene featuring a variety of colorful fish, including clownfish, tangs, and other tropical species, swimming in clear blue water. The fish are positioned on the left side of the frame, with some appearing closer to the viewer than others.

Therefore Unless Things Change...

- Resource risk
- Market risk

A vibrant underwater scene featuring a variety of colorful fish, including clownfish, tangs, and other reef species, swimming over a coral reef. The background is a deep blue, and the fish are in various positions, creating a sense of movement and depth.

Resource Risk

- 150 million people globally – fisheries
- 600 of 800 reef building corals in SE Asia
- 53% of animal protein Indonesia – fish
- 25% of global fish diversity
- 14% of worlds reefs



Market Risk

Aquarium Trade

- 49% of retailers report customer concerns about environmental issues
- 96% of retailers are interested in learning more about the environmental impacts
- 89% of retailers are willing to pass this information onto their customers

International



FAO Code of Conduct for Responsible Fisheries (Voluntary) 1995

Rio Declaration on Environment and development 1992

World Charter on Nature 1982

Indonesia



Directorate General Decree
No. 1k/220/d4.744/91k - 1991
On Catching Fish with Prohibited
Substances/Instruments

A vibrant underwater scene featuring a variety of colorful fish, including clownfish, surgeonfish, and a larger blue fish, swimming in clear blue water. The fish are positioned on the left side of the frame, partially overlapping the text area.

Why difficult to manage?

- Demersal resources and sedentary resource base
-> locally traceable causes
- Resources depend on defined source population -
> efficient for control
- Science behind sustainable fishing exists since
early 1900
- Economic gains short term and small-scale so
easy to offset towards long term

An underwater scene with various colorful fish, including a clownfish, a pufferfish, and a blue tang, swimming in clear blue water.

Three main reasons

- Access rights
- Perverse economic incentives
- Economic progress need perception hampers area size set aside

Missing link - business approach to conservation: “purchase biodiversity and sustainability directly”



How and why?

- Access rights – no feeling of responsibility
- Economic incentives aquarium trade
 - fishers: large numbers
 - middlemen: risk factor
 - exporters: costly to transform
- Economic perception: closure is expense



Costs of transformation of destructive trade are substantial,

- Invest in product ahead of supply
- Education
- Control and surveillance
- Infrastructure

.....but worth it if,

Address access rights so as to
safeguard investment over long-term



Conservation Concessions

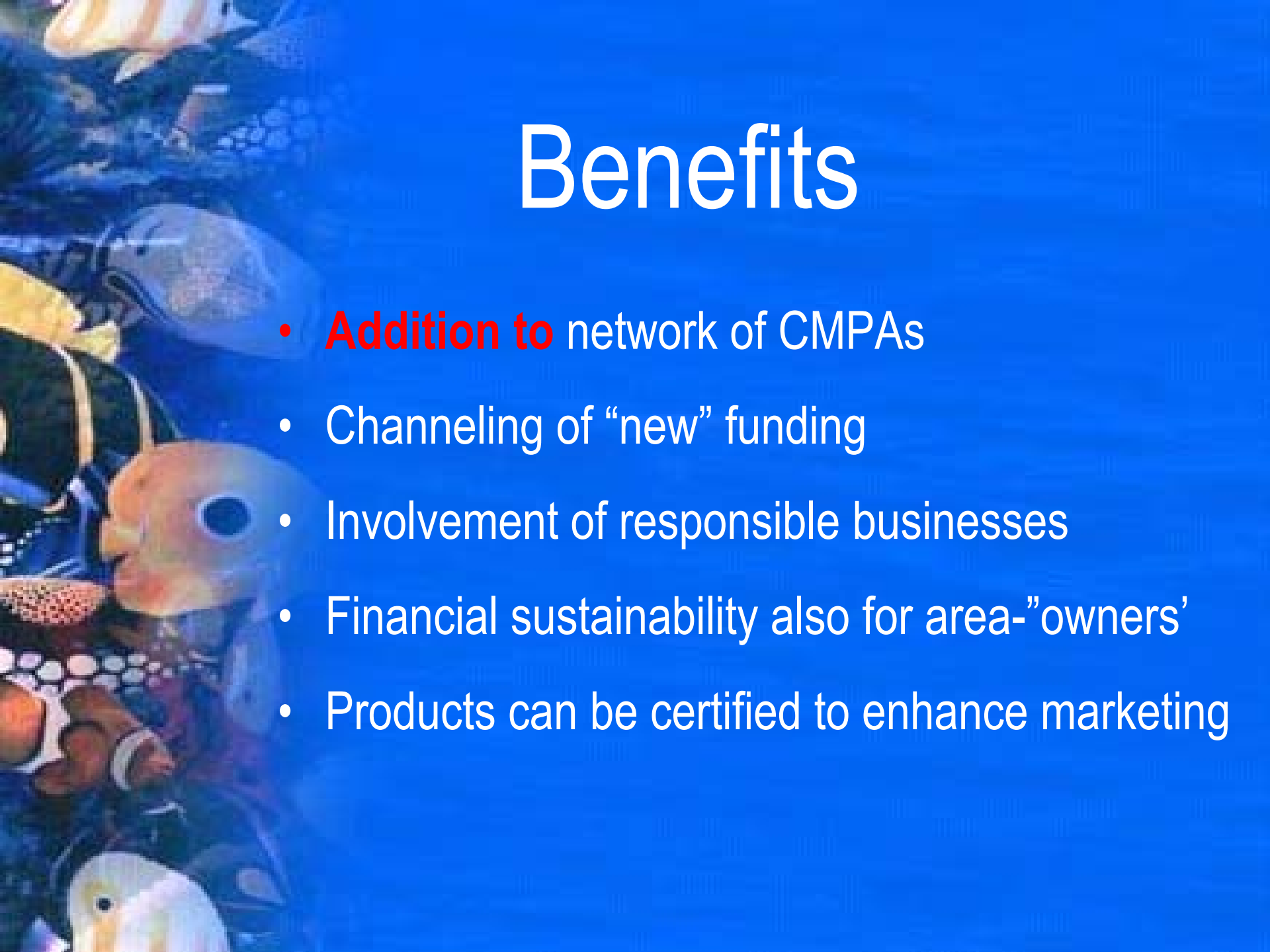
Lease to use (non-use) of an area - **forestry**

- Green services
- Legal agreements and economically similar to harvest licenses
- Equivalent income, often more stable
- Dispel notion that habitat destruction is inevitable in generating financial benefits



What Needs to Happen?

- Study the legal basis – national, local
- Study social basis – national, local
- Select area with firm criteria (similar CMPA)
- Establish who “owns” area right
- Establish price based on current value and future ambitions and sustainable enterprise development
- Negotiate roles and responsibilities
- Propose suitable profiled sites – cost/benefit

A vibrant underwater scene featuring a variety of colorful fish, including a large orange and white striped fish at the top left, a yellow and black striped fish, a blue and white striped fish, and several smaller orange and white striped fish. The background is a deep blue, suggesting an underwater environment.

Benefits

- **Addition to** network of CMPAs
- Channeling of “new” funding
- Involvement of responsible businesses
- Financial sustainability also for area-”owners’
- Products can be certified to enhance marketing

A vibrant underwater scene with various colorful fish swimming in blue water. The fish include a yellow and orange striped fish, a black and white striped fish, a blue fish, a yellow fish, a black and white striped fish, a red and white striped fish, and a white fish with a black stripe. The background is a deep blue with some lighter blue patches.

Ideas for Finance Sources

- Multilateral Organizations
- Foundations
- Venture Capitalists
- Individual private investors
- ??!!



CCIF

Conservation and Community Investment Forum

Who are we?

- A non profit organization
- Provide technical expertise to enhance sustainability
- Collaborate through partnerships at existing efforts
- Help clients find environmentally beneficial investments
- Research/ design investment opportunities
- Assemble/ identify key stakeholders