



# The Nature Conservancy's Global Aquaculture Program

Tiffany Waters, *Aquaculture Strategy Specialist*



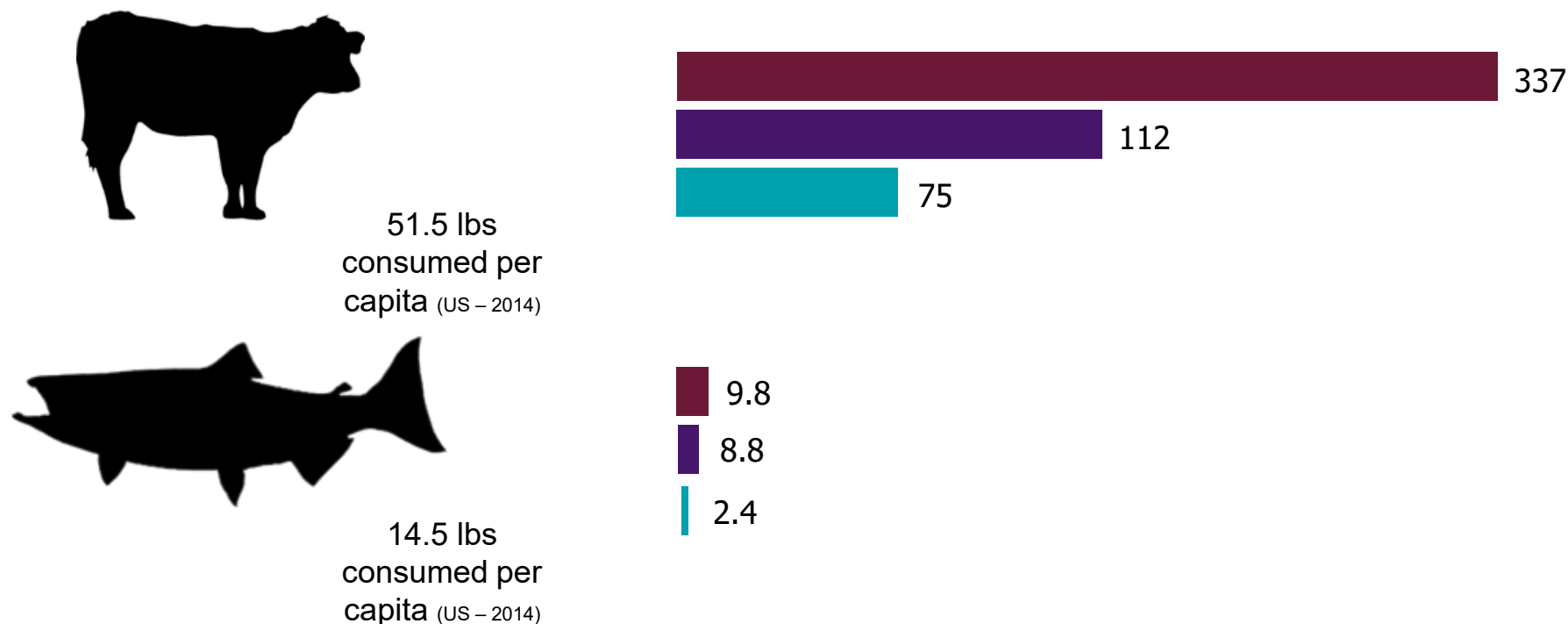
# To Conserve the Lands and Waters on which All Life Depends

*Connect  
People  
and  
Nature*

1. Protect Land and Water
2. Tackle Climate Change
3. Provide Food and Water Sustainably
4. Build Healthy Cities



# Environmental Performance of Beef vs. Salmon Aquaculture



Sources: WRI (2014) (mollusks, chicken, pork, and beef) and Pahlow et al. (2015)

**GHG Emissions**  
(t CO<sub>2</sub>e/t edible protein)

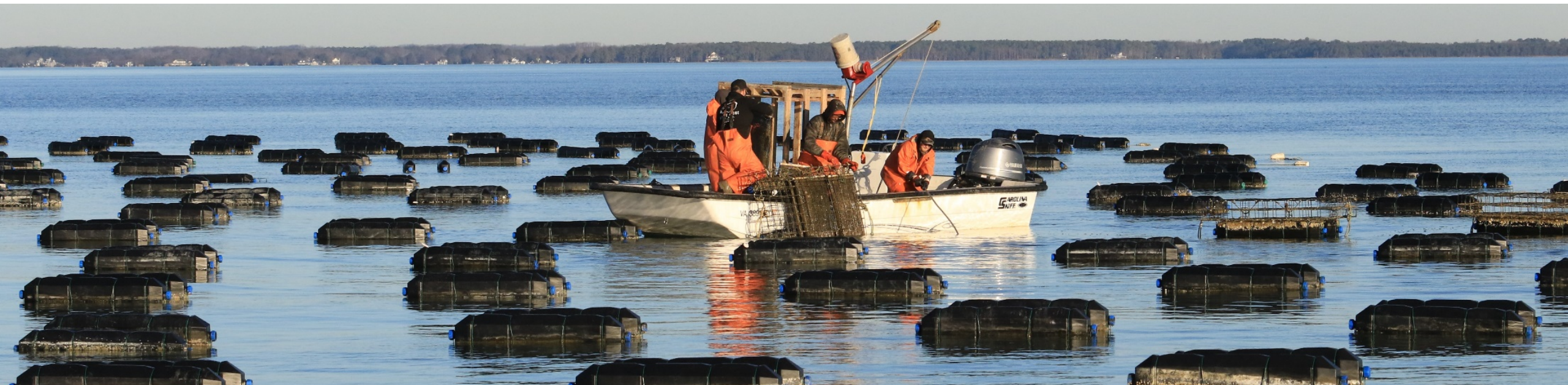
**Land Use**  
(ha/t edible protein)

**Fresh Water Use**  
(m<sup>3</sup>/t edible protein)

# TNC's Vision for Sustainable Aquaculture

## Aquaculture grows to:

- sustainably increase seafood production to meet nutritional/food security needs;
- provide livelihoods in coastal communities
- contribute to restoration and conservation efforts.



## Two Key Initiatives of our Global Program

### Restorative Aquaculture

Harnessing the potential of commercial marine aquaculture to accelerate coastal ecosystem restoration

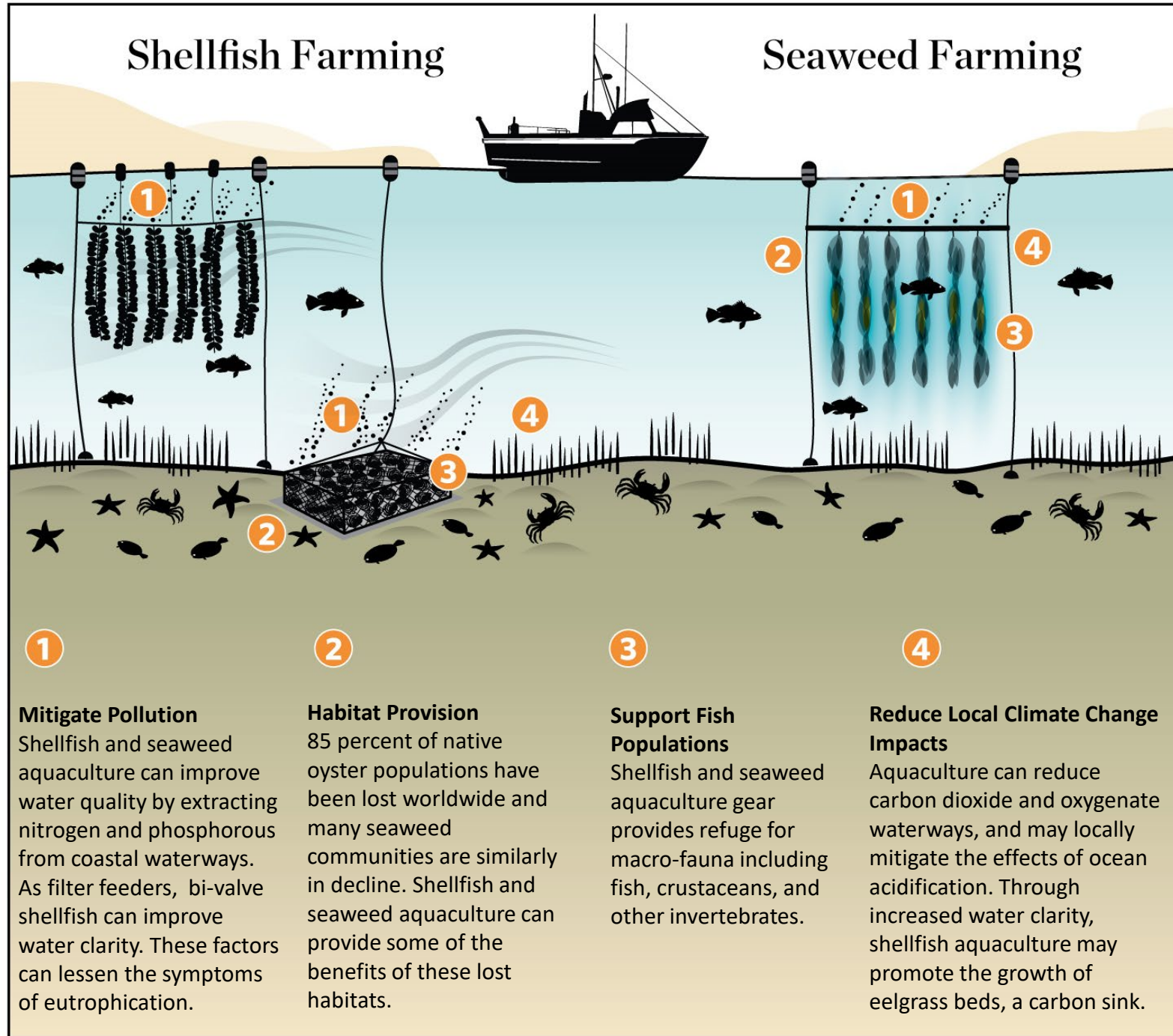
### Smart Aquaculture Growth

Improving governance and driving sustainable investment of the world's fastest growing food production sector



## Shellfish Farming

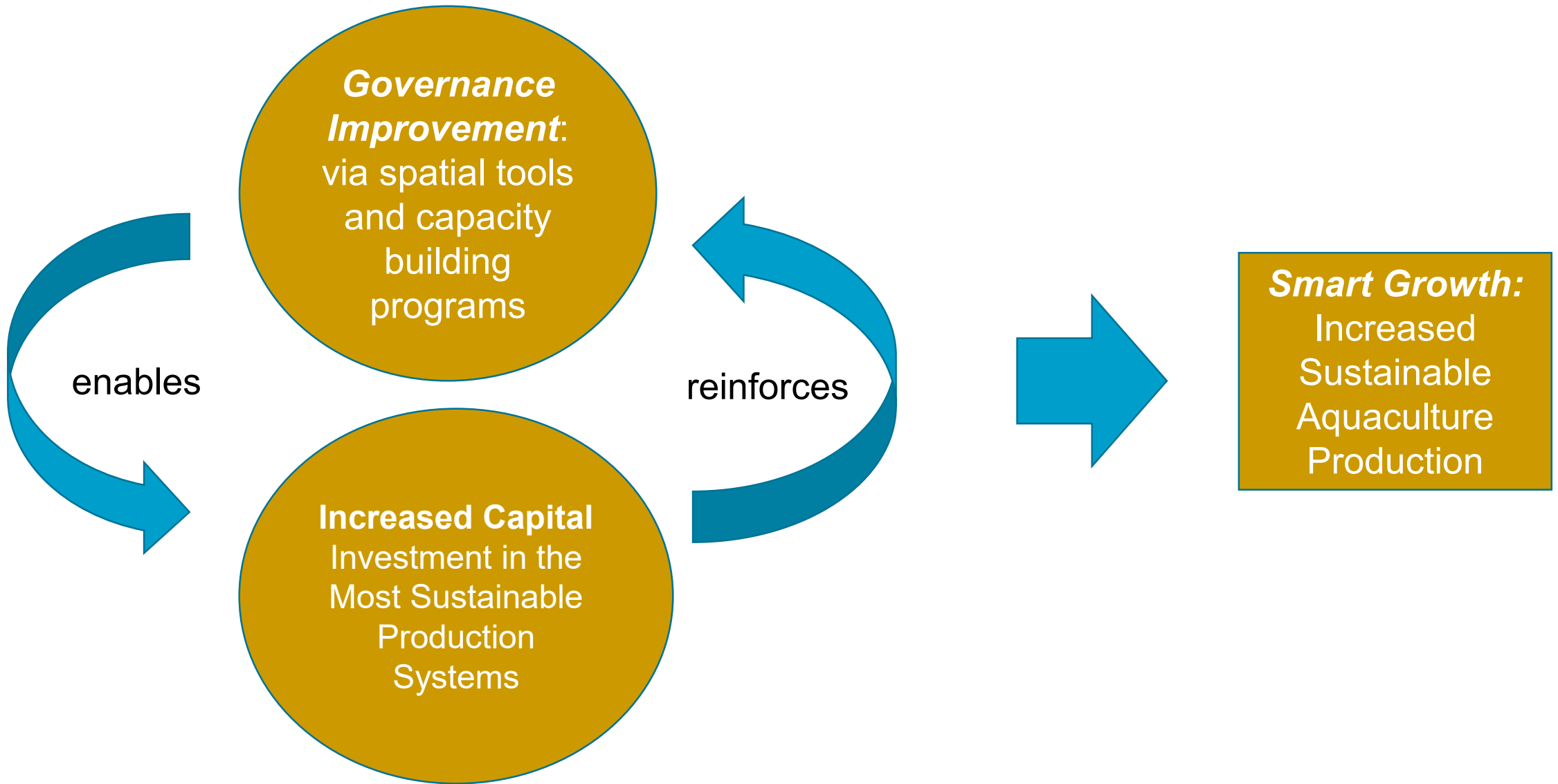
## Seaweed Farming



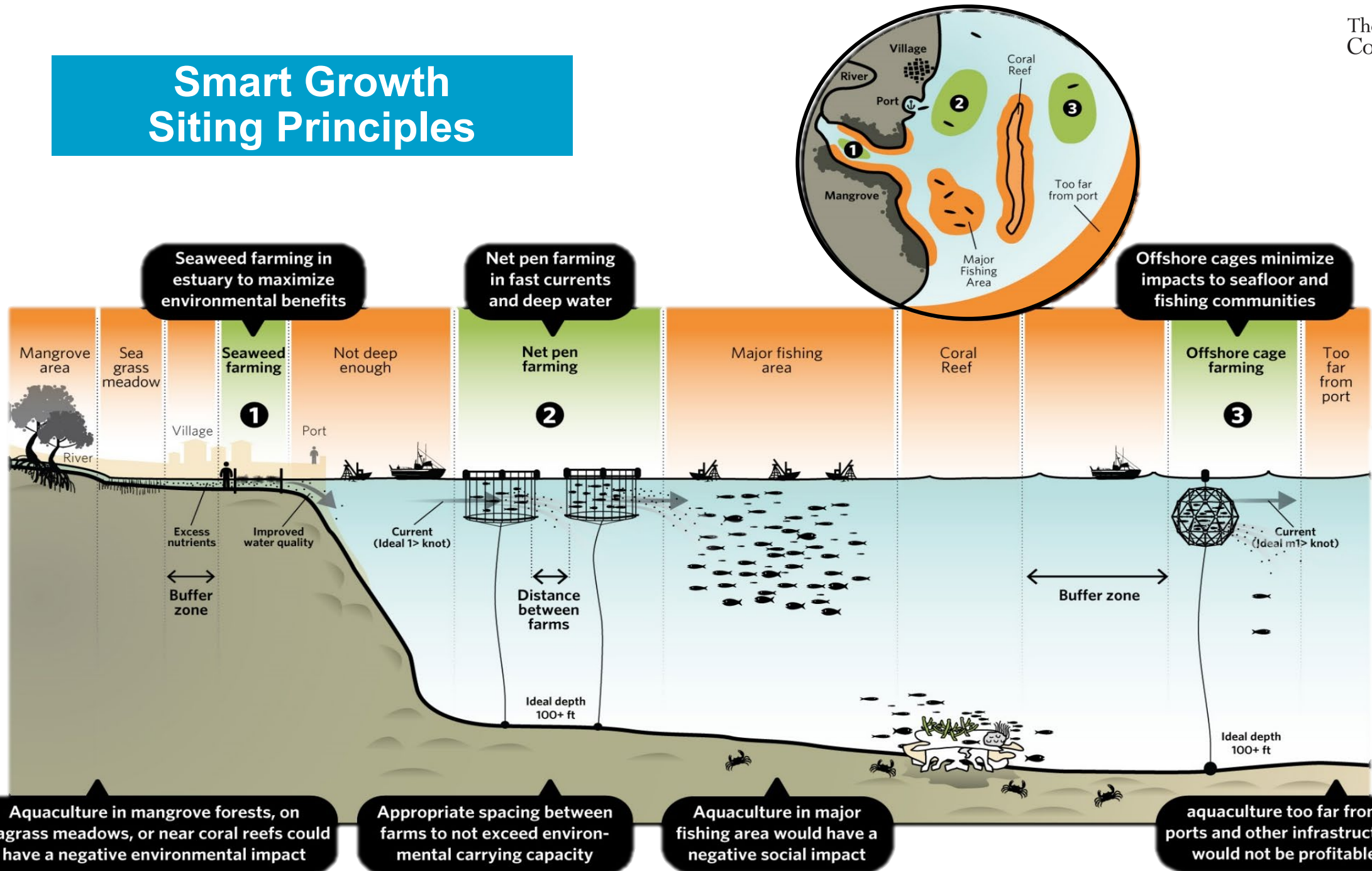
## Hypothesis

**Aquaculture  
can help  
restore  
ecosystems**

## Smart Growth Theory of Change (generalized)



# Smart Growth Siting Principles





[www.nature.org/aquaculture](http://www.nature.org/aquaculture)

# The Aquaculture Opportunity

*Can the sector grow to provide seafood and jobs in harmony with the ocean?*

## TOWARDS A BLUE REVOLUTION:

CATALYZING PRIVATE INVESTMENT  
IN SUSTAINABLE AQUACULTURE  
PRODUCTION SYSTEMS

The Nature Conservancy 

 encourage  
capital

WORLD  
ECONOMIC  
FORUM

Agenda

Initiatives

Reports

Events

About

TopLin

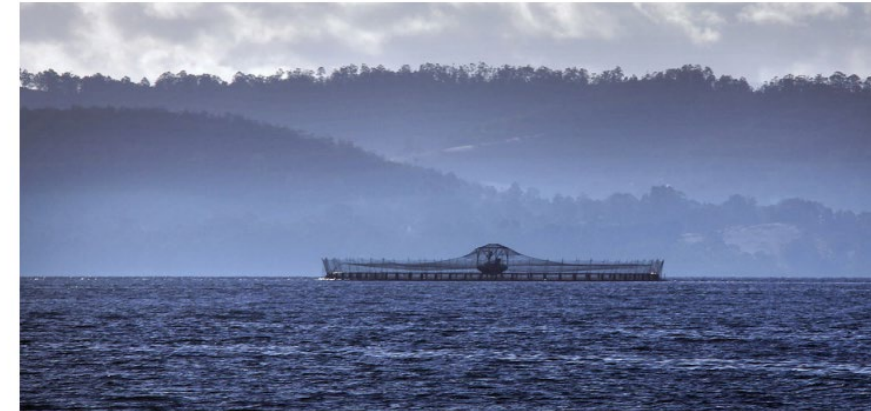
Industry Agenda

Food Security and Agriculture

Oceans

Population

## Aquaculture could feed the world and protect the planet - if we get it right



With arable land in limited supply, is aquaculture - the practice of growing food in water - a viable solution?

Image: REUTERS

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**Robert Jones**  
Global Aquaculture Strategy Lead, The Nature Conservancy

What if we had the chance to reinvent the world's food system and make more sustainable food the norm rather than the exception?

It might seem like a crazy idea, but with 9 billion people expected on earth by 2050, it's a necessity.