

Impacts of climate change on aquaculture and fisheries



Vietnam CC Policy

- National communications to UNFCCC (2003/2010)
- National Target Programme to Respond to CC (2009-2015)/(2012-2015) Pilot provinces: Quang Nam and Ben Tre with priority interventions
- National Action Plan on CC 2012-2020
- MONRE Climate Change, Sea Level Rise Scenarios (2009/2012)
- MONRE National Climate Change Strategy with priority (2011-2015) and plans (2016-2025)
- MARD Action Plan CC agric. dev. 2011-15 & vision to 2050

Global research & projects focus

1. Diagnosing F/A dependent communities' vulnerability to climate change
2. Understanding & documenting current F/A communities' coping mechanisms and adaptive responses
3. Identifying and testing effective measures to improving adaptability and enabling mitigation
4. Building the capacity to respond, adapt and increase resilience



Major CC Initiatives in the MD

Agency - Institute - Donor	Central	Local
CBCC project (MONRE, MARD, UNDP)	✓	✓
DANIDA CC Programme to support NTP-RCC	✓	✓
GIZ Integrated Coastal and Mangrove Forest Protection for the Adaptation to Climate Change (ICMP) Climate Change and Coastal Ecosystem Program (CCCEP)	✓	✓
CARE Integrated Community-based Adaptation in the Mekong (ICAM)		✓
AquaClimate project (NACA & Can Tho University)		✓
Research Institute of Aquaculture (1; 2); MARD; MONRE; ISPONRE; VASI;	✓	✓
NGOs and Int'l research (IUCN, WWF, CARE, OXFAM, MCD, SNV, ACIAR, etc.)		✓
NORAD; FAO; DANIDA; UNDP; JICA; World Bank; ADB; CIDA; GEF; DfID, AusAID, several governments, etc.	✓	✓

Major CC Initiatives in the MD

Province	Aquaculture	Inland Fisheries	Agriculture	ICMP	Infrastr.	Cap Building
An Giang		✓	✓			
Ben Tre			✓	✓	✓	✓
Bac Lieu			✓	✓		✓
Ca Mau	✓		✓			
Can Tho	✓					
Dong Thap						
Kien Giang			✓	✓		✓
Soc Trang	✓		✓	✓	✓	✓
Tra Vinh	✓		✓			✓

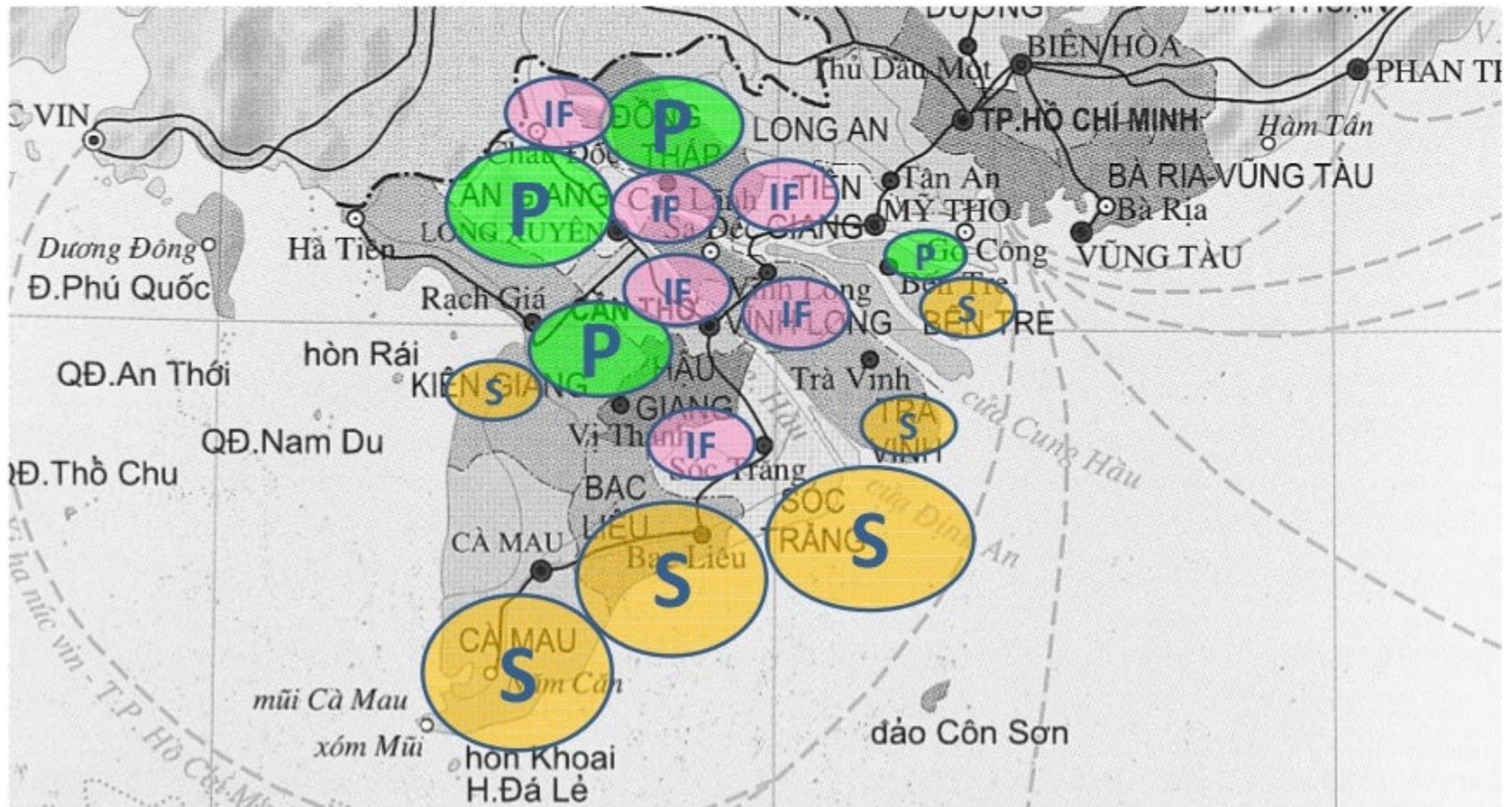


**Developing a Project to Address Climate
Change Adaptation Needs in Aquaculture and
Inland Fisheries in the Mekong Delta – Vietnam**

Key issues considered in the project development

- Aquaculture and inland fisheries have been underestimated in their contribution to food security and poverty alleviation
- Many initiatives including strategies related to CC but very few fully integrating aquaculture and even less inland fisheries
- Aquaculture and inland fisheries have not been considered in their potential for adaptation for other sectors

The Mekong Delta (potential areas of focus)



Project characteristics

Target species/systems:

- Shrimp and clams systems
- Pangasius *et al.*
- Inland fisheries

Project components: 4

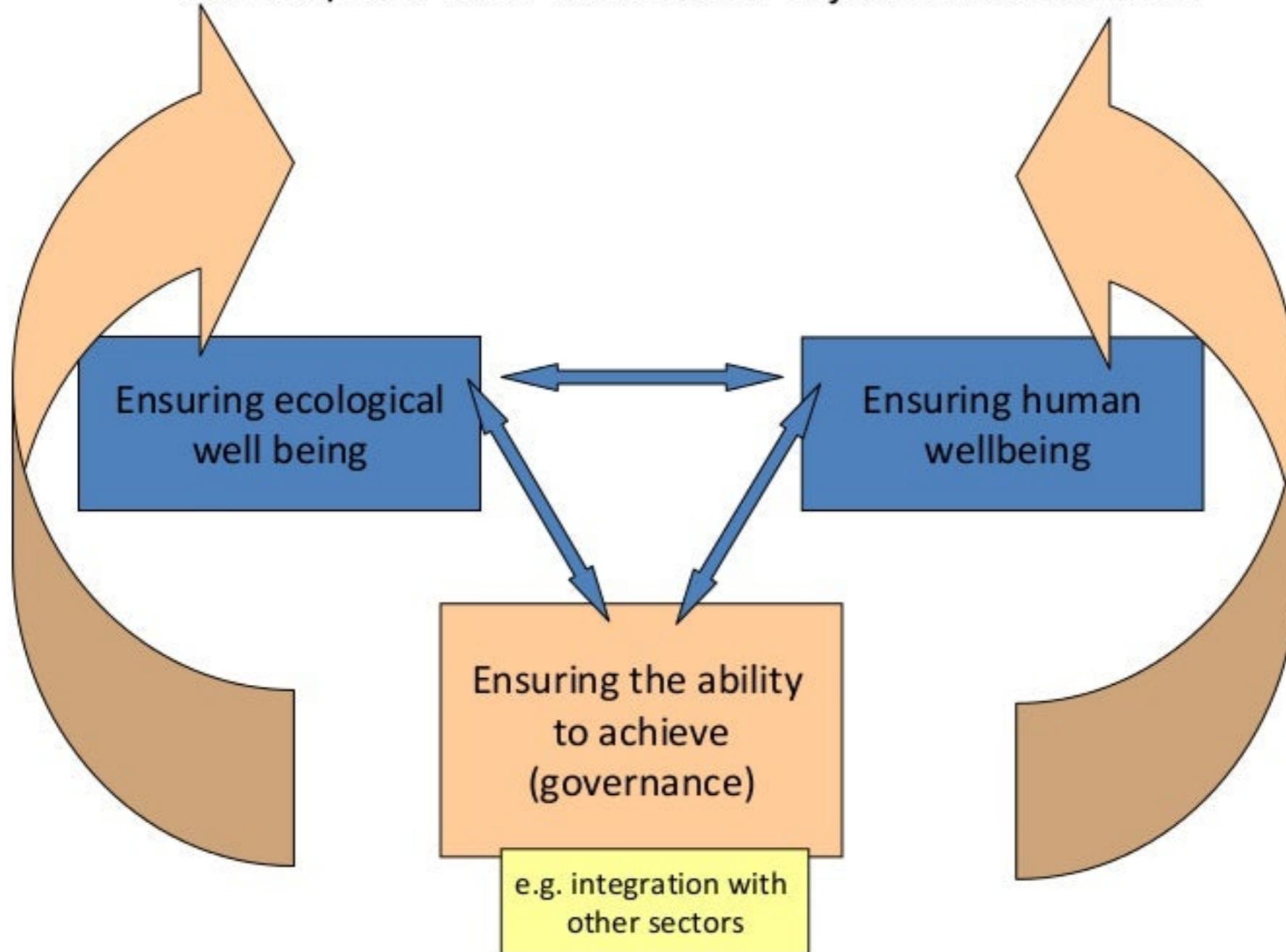
Time frame: 5 years

Overall development goal: Poverty alleviation and food security focus including gender and ethnicity

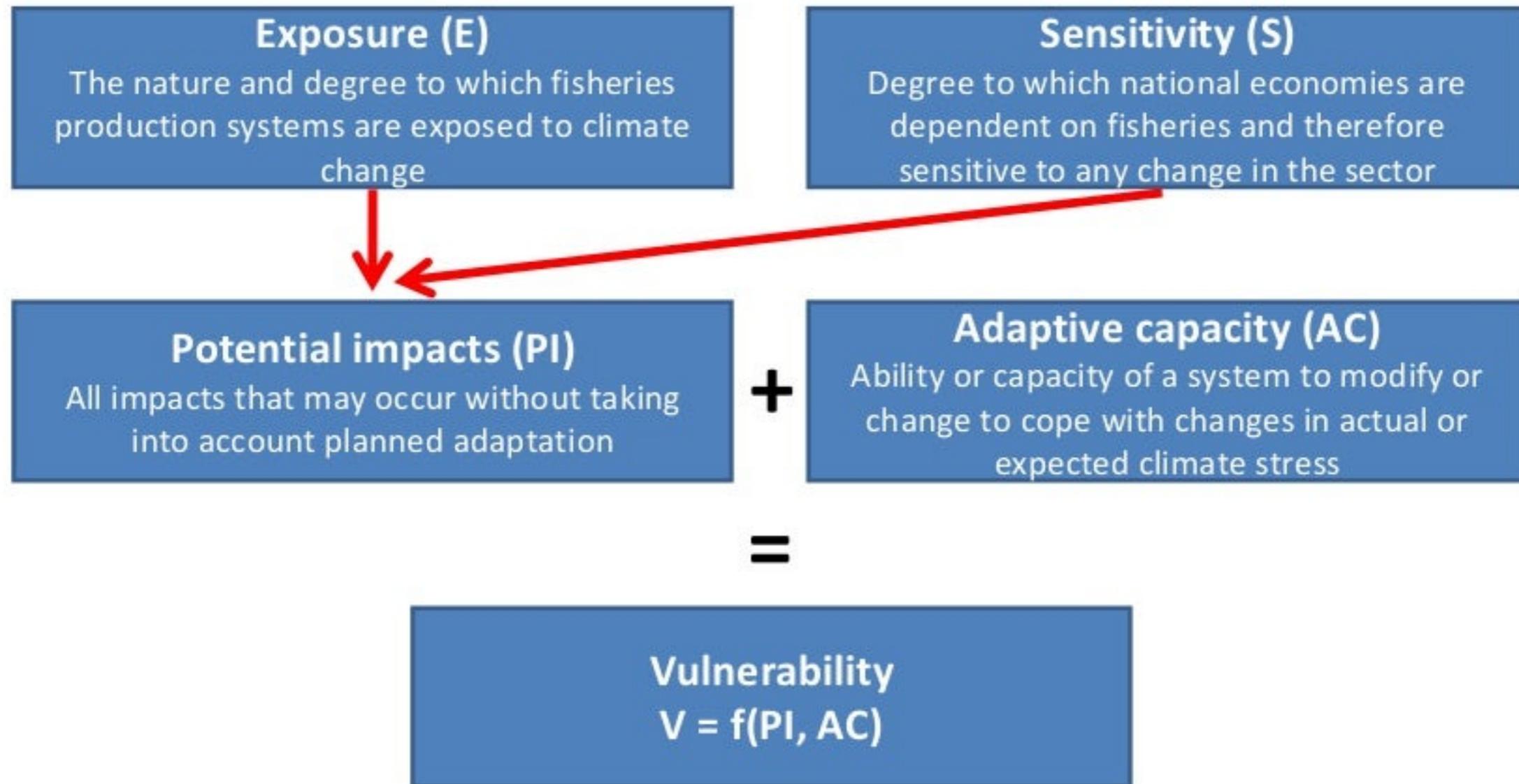
Implementation Strategy: Ecosystem approach to fisheries and aquaculture

EAF & EAA

The EAF/EAA have these three objectives at the core



Vulnerability framework



(adapted from Allison et al., 2005)