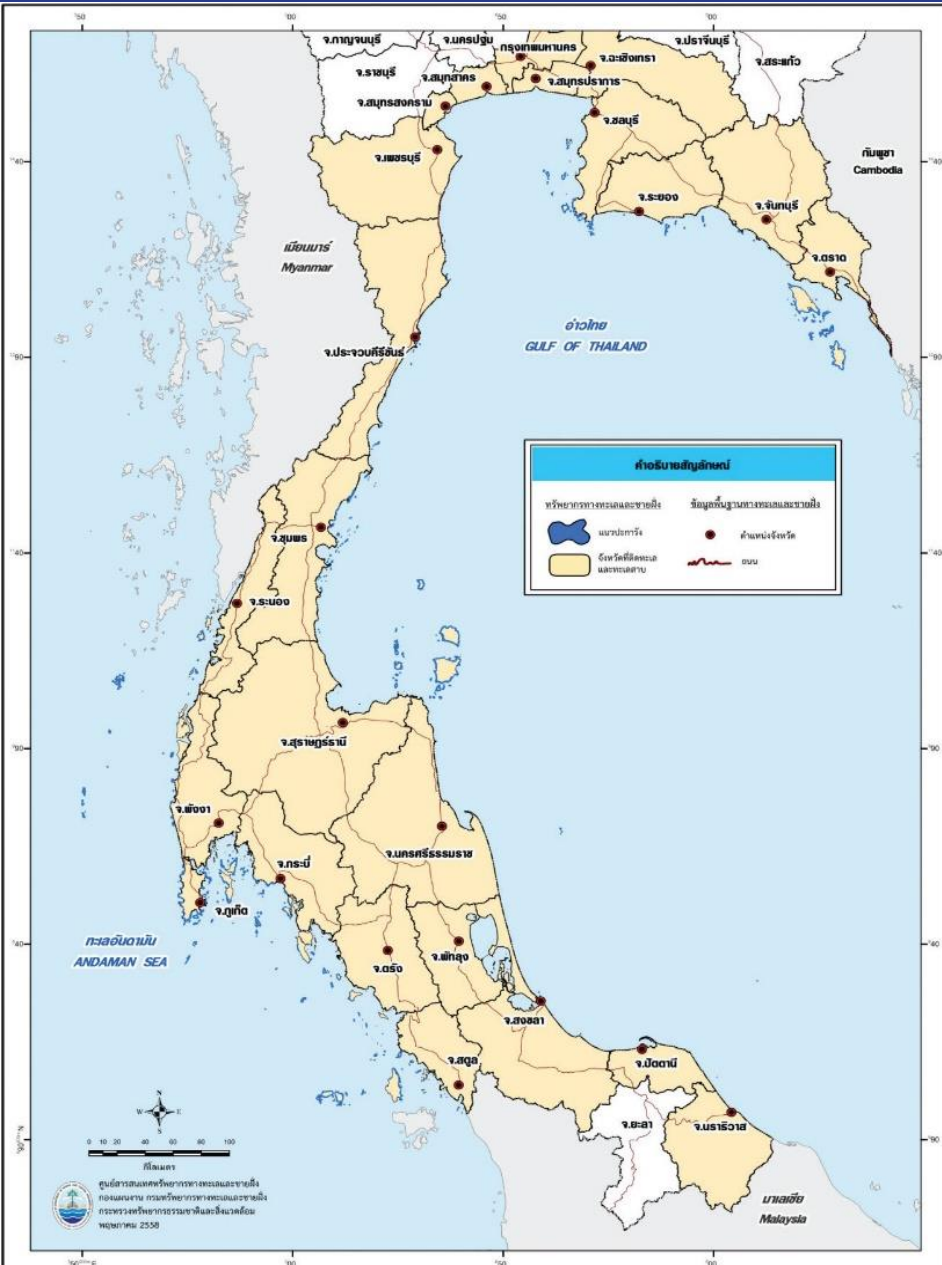




Resilience of small-scale fishers in the Gulf of Thailand

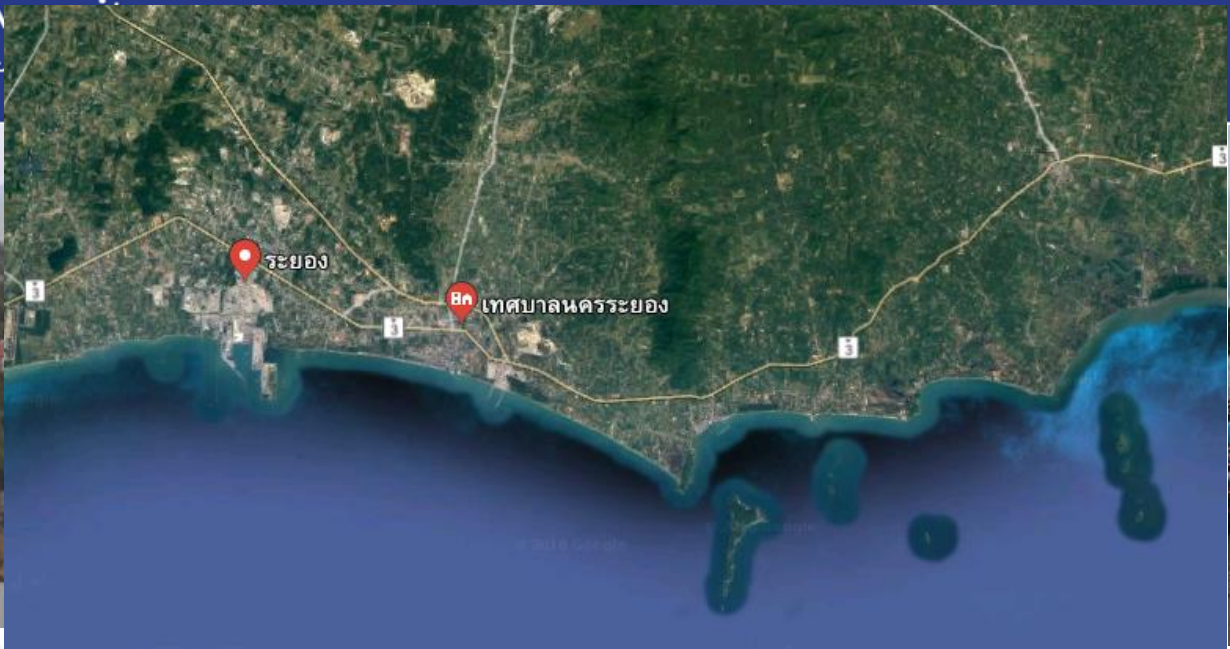
Suvaluck Satumanatpan
 Mahidol University, Thailand

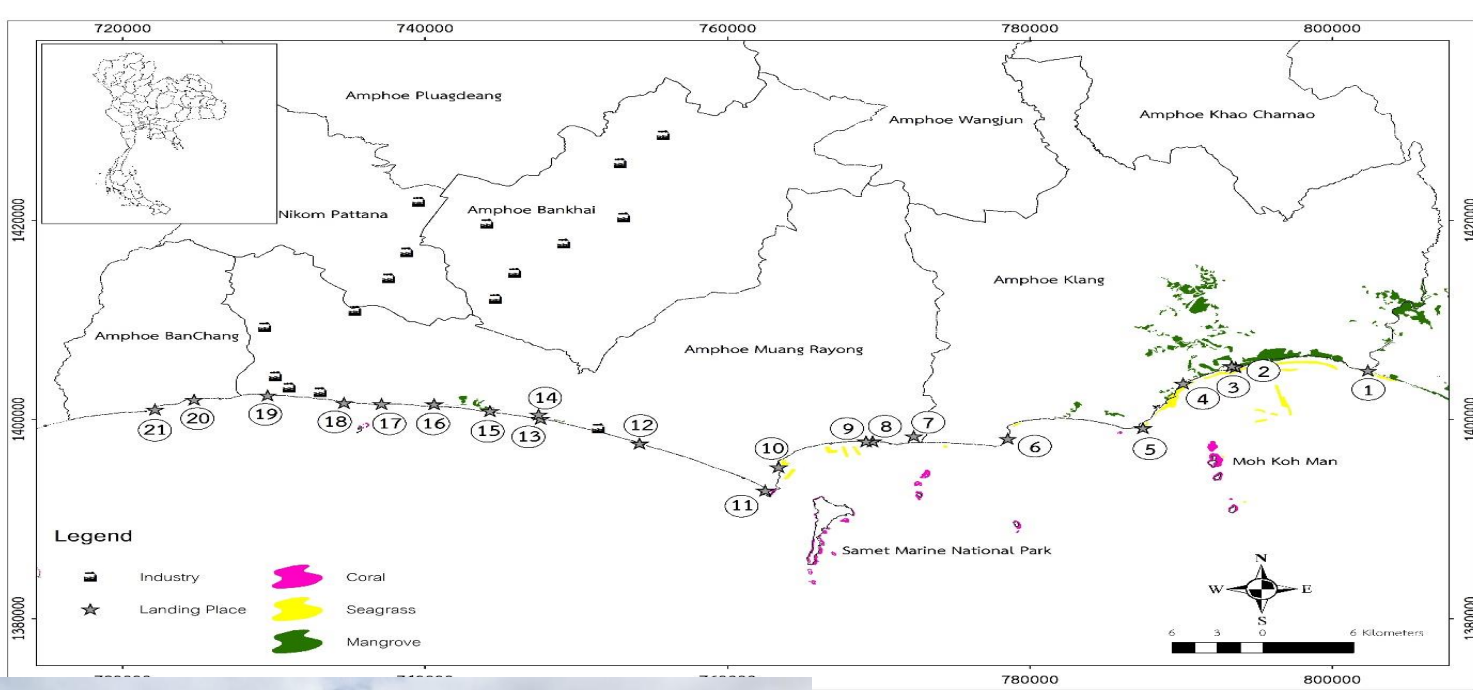


Building resilience of SSF for
 adaptation to



พจนารถป่าชายเลน อ.ตราด กว่า 3 ไร่





- A random sample of 632 fishers (about 30 per landing) were selected from 21 fish landing spots, 100 km. long
- Face to face interviewed, using a survey instrument devised to evaluate items of resilience (12 items).

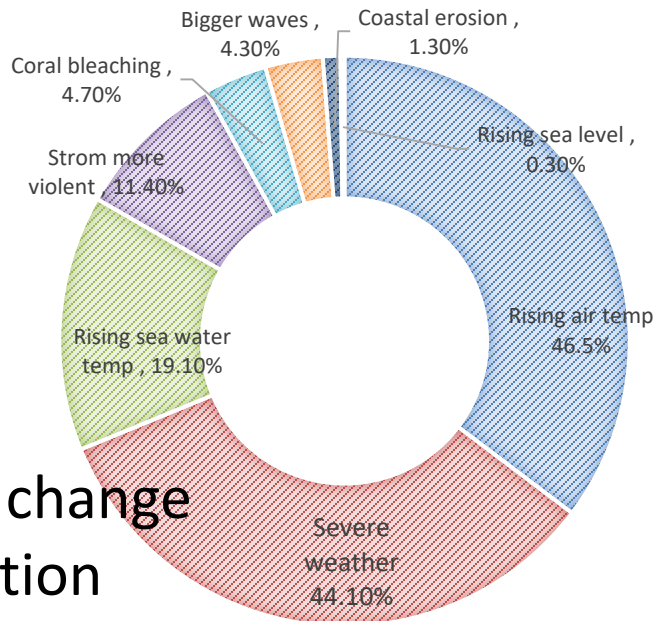
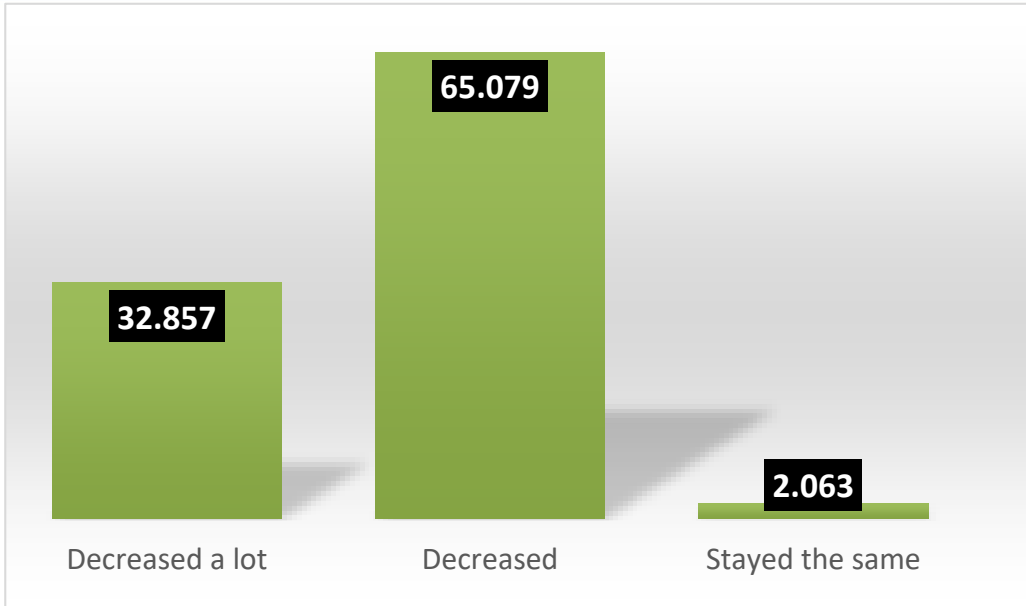




Dependent variables



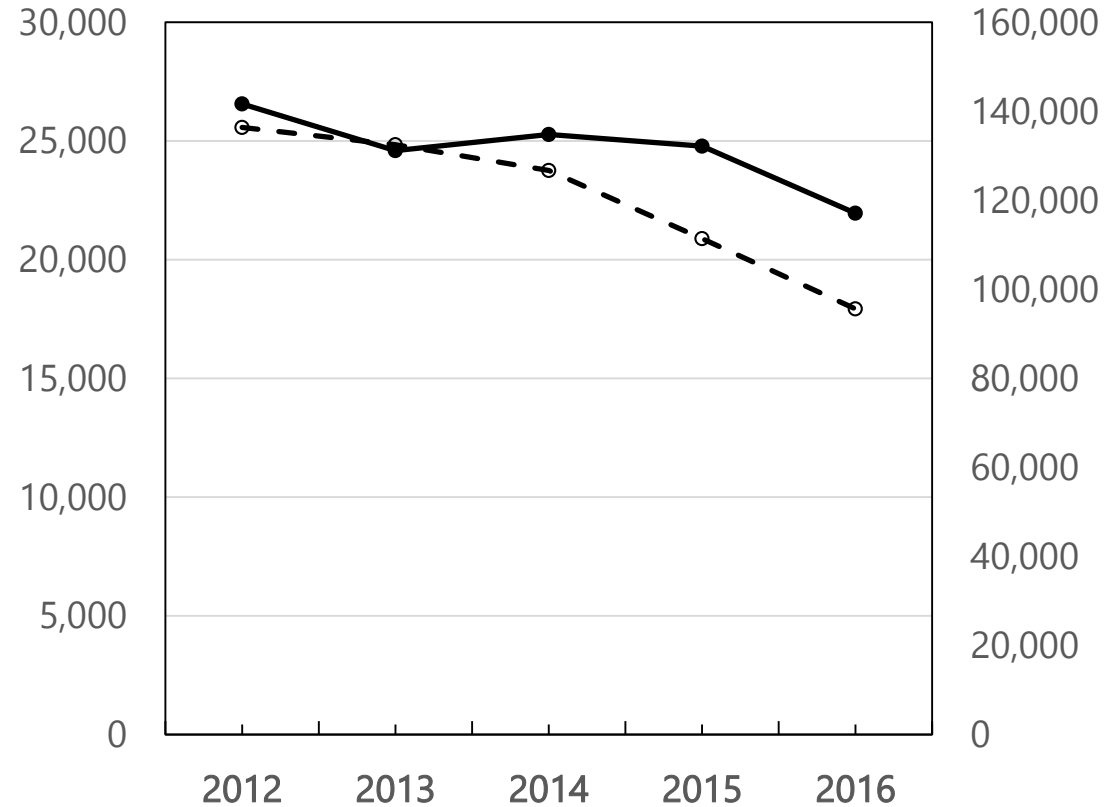
Items	Options	Ability	Plan	Cope
Confident to get work elsewhere	0.918			
Many options available	0.910			
Not Too old to find work elsewhere	0.777			
Not Nervous trying something else	0.719			
Competitive		0.674		
If more change will survive		0.653		
More likely to adapt to change than other fishers		0.508		
Confident things will turn out well			0.702	
Interested in learning new skills			0.630	
Planed for financial security			0.511	
Plan to make change work for me				0.844
Can cope with small change in fishery				0.585
Percent total variance	25.334	13.475	11.606	10.494



Fishery Zone 1
(Tons/year)

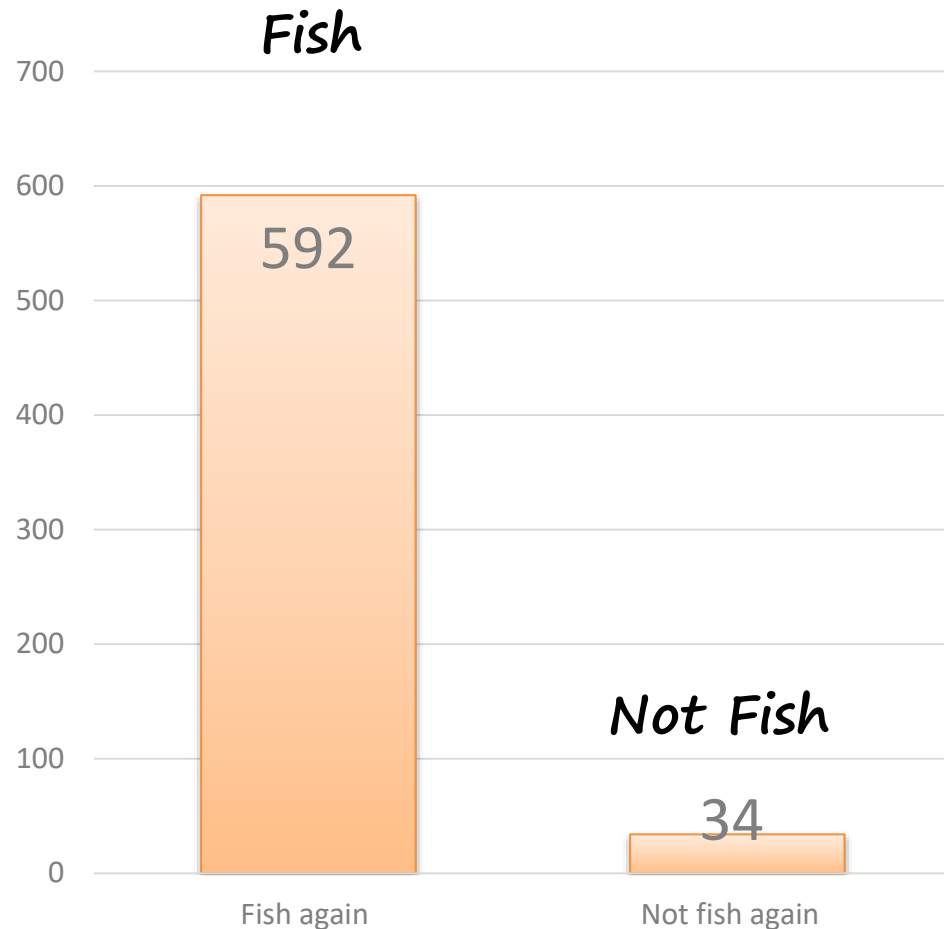
Gulf of Thailand
(Tons/year)

Artisanal Fishing Catch



—●— Quantity of marine fishery of Zone 1 (Rayong, Chanthaburi and Trat)

Climate change observation



- *SSF expose to resources limit, (industrial pollution, climate change impact) but preferred continue fishing*
- *Thus they may be experiencing lowered levels of resilience*
- *What factors might be related to their resilience.*



Variables	N	Min.	Max.	Mean	SD
Age	632	18	80	45.88	12.087
Years education	632	0	18	6.21	3.043
Years fishing	632	1	60	21.88	13.770
Fishers in household	632	1	8	1.13	1.007
Members in household	632	1	13	4.54	1.939



SSF adaptation



- Multi gears, depending on fish season
- Fish harder, go fishing farther than regular distance
- Have alternative income such as fish processing, agriculture, employee, food selling, nypa cigarette
- Members of fishery association (fishing gears, loans, communicate significant information and etc.)

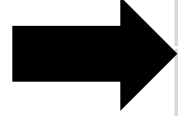
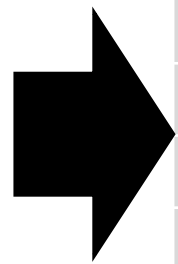




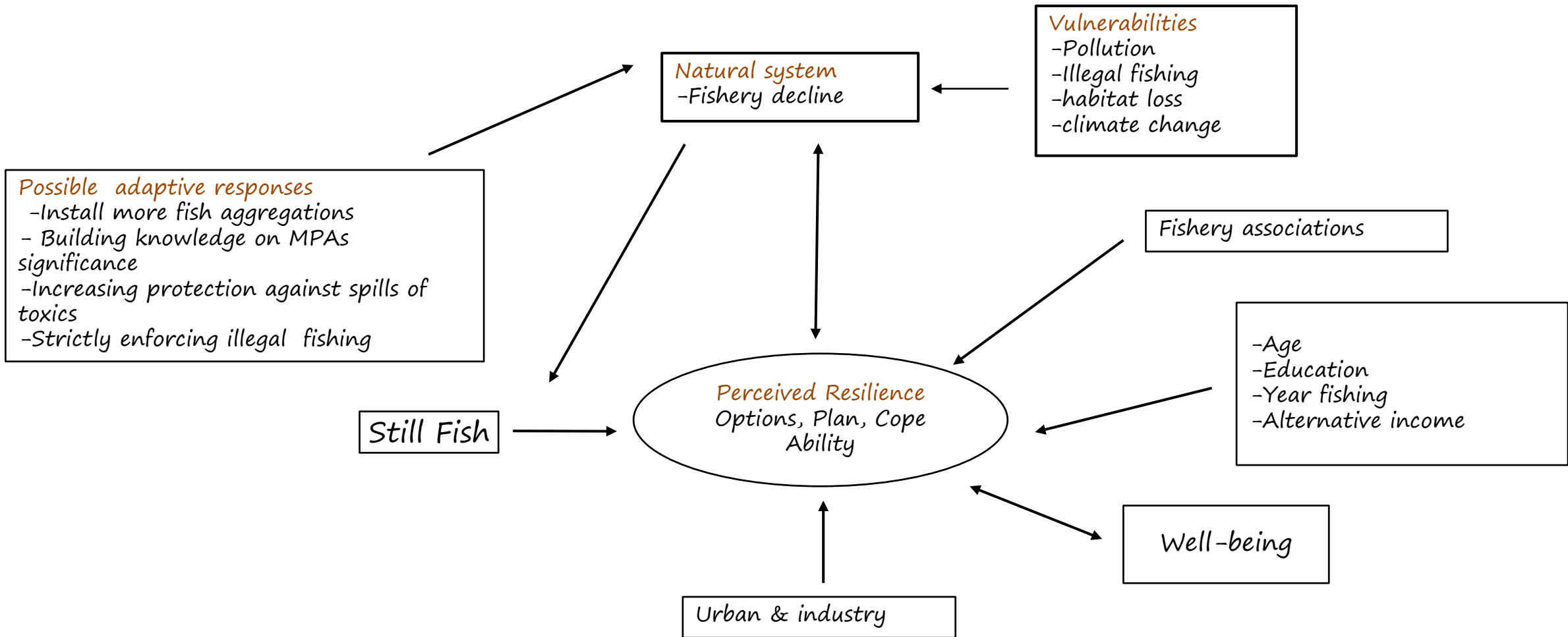
Nypa sprout







Variables	Options	Ability	Plan	Cope
Age	(-) ^{***}		(+) [*]	
Years of education	(+) ^{***}			
Years of fishing	(-) ^{***}	(+) [*]	(+) ^{**}	(+) [*]
Income only from fish	(-) ^{***}			
Boat owner	(+) [*]		(+) ^{***}	
Fishery association		(+) ^{**}		(-) ^{**}
Community with pollution		(+) ^{***}		(-) ^{***}
Major urban	(+) ^{**}	(+) ^{***}	(-) ^{**}	(-) ^{**}
Environment Well-being			(+) ^{***}	
Individual Wellbeing	(+) ^{***}			
Basic-Needs	(+) ^{***}		(+) ^{***}	
Self-actualization		(+) ^{***}		(-) ^{***}
Still fish	(-) ^{**}	(+) ^{***}		
Adj R2	33.9%	5.7%	8%	4.5%



Resilience of small-scale fishers, dynamic and context dependent