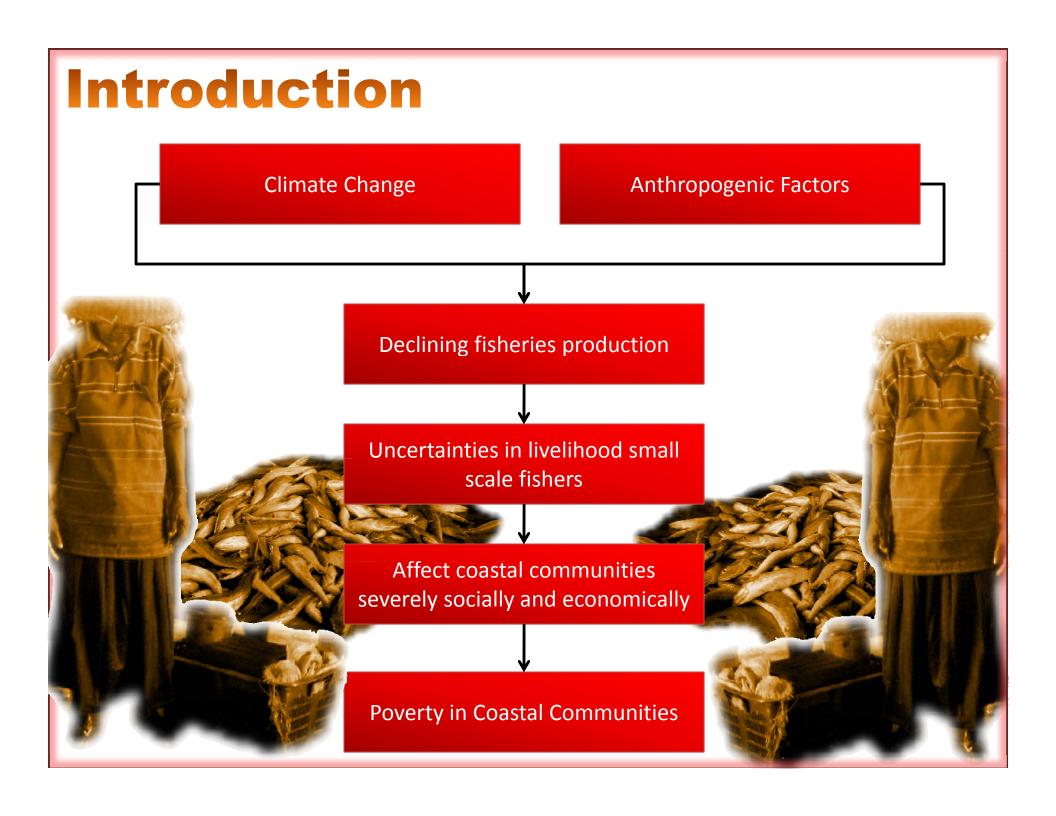
THE ROLE OF FISHERWOMEN IN THE FACE OF FISHING UNCERTAINTIES

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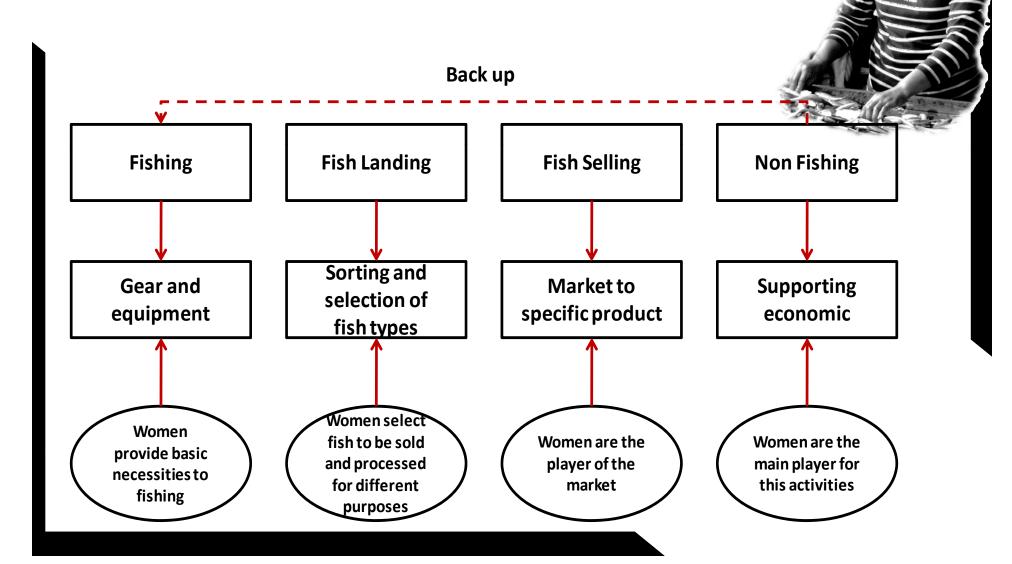


The Study ...

- Explore gender dimension of fishing activities and the role of fisherwomen to cope with uncertainties in family livelihood
- Analyze uncertainties and the degree of women participation using modified Rapid Appraisal for Fisheries technique.



Gender Dimension in Fishing activities In North Coast of Central Java



North coast of central Java





Coastal communities response to the climate change in Semarang

Semarang	Fre	quen	су/ує	ear	Tim	e (ho	ours)	Sca	ale (r	n)		I	mpa	ct		Mit	igatio	n
City	1	2	3	>4	<1	24	>24	< 0,5	0,5 -1	> 1	а	b	С	d	е	х	у	z
Tugu Sub Distr	ict																	
			_	35	12	53			35	_	18	12	94					-
Flood	53%	6%	_	%	%	%	29%	59%	%	_	%	%	%	-	41%	53%	59%	_
		_	_	41		71			29	_	12	12	71	12				_
Rob	41%			%	6%	%	6%	53%	%		%	%	%	%	41%	53%	88%	
_								_			12	71	88					_
Erossion			Π						7%	-	%	%	%	6%	6%	100%	53%	
				18		47		_		71		76	53					_
Wave	29%	-	24%	%	6%	%	18%		6%	%	6%	%	%	6%	6%	35%	47%	
Drought	6%	6%	18%	6%	-	-	41%	-	-	-	-	35 %	12 %	-	18%	-	35%	-
North Semaran			L	0 /0			41/0					/0	/0		10 /0		33 /6	
North Semaran	y Sub	ווופוט		100		73					33		27	33				
Rob	-	-	-	%	-	%	27%	100%	-	-	%	-	%	%	87%	47%	7%	-
Erossion								12%	-	88 %	-	-	7%	7%	-	7%	7%	-
West Semaran	g Sub	Distr	ict															
Rob	9%	-	-	-	-	4%	7%	-	-	14 %	50 %	7%	2%	-	-	7%	_	-
Erossion								-	19 %	32 %	7%	-	-	19 %	-	-	-	-

Sources: Disaptono et all, 2009

Note: a=health, b=agriculture, c=fisheries, d=settlement, e=infrastructure, x=protection, y=accomodation, z=relocation



Coastal communities response to the climate change in Pekalongan

Pekalongan	Fr	equer	ncy/y	ear	Tim	e (hc	urs)	So	ale (r	n)		li	mpac	t		Mit	igatio	on
Regency	1	2	3	>4	<1	24	>24	< 0,5	0,5- 1	> 1	а	b	С	d	е	х	у	z
Wonokerto	Sub [Distric	t								-	5						
			13	13		38										29	47	
Flood	38%	6%	%	%	-	%	31%	56%	6%	-	59%	12%	12%	29%	41%	%	%	_
				56		69			_							35	18	_
Rob	-	25%	-	%	6%	%	_	44%	-	6%	53%	12%	12%	18%	41%	%	%	_
Facasian								-	-	4.40/	60/	000/	0.40/	400/	60/	35		-
Erossion										44%	6%	29%	24%	12%	6%	%	-	
			_			13		_								24	12	_
Wave	6%	13%		6%	6%	%	6%		6%	13%	12%	12%	18%	12%	6%	%	%	
		-						-	-		-				-	-	29	-
Drought	19%		6%				25%					29%	12%				%	
Pecakaran S	karan Sub District																	
			11			22		100								94		
Flood	67%	28%	%	-	-	%	83%	%	-	-	39%	83%	67%	56%	11%	%	-	-
			11			61										94		11
Rob	39%	50%	%		•	%	39%	89%	11%		44%	89%	61%	56%	6%	%	-	%

Sources: Disaptono et all, 2009

Note: a=health, b=agriculture, c=fisheries, d=settlement, e=infrastructure, x=protection, y=accomodation, z=relocationi



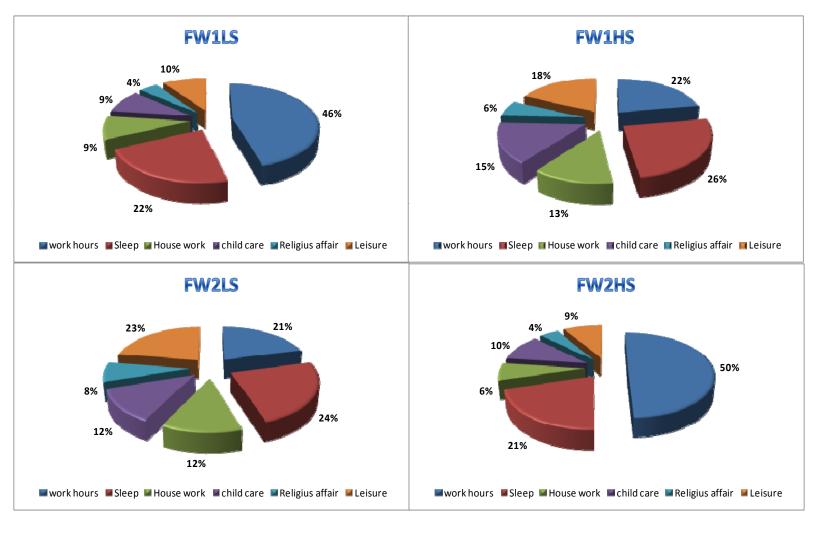
• Includes 100 respondent, divided in two groups from two coastal cities, Semarang and Pekalongan

• 1st group is the wives of traditional fishermen<10 GT, 2nd group is the wives of non fishermen, but engaged in traditional fishery related activity.

• Husbands of second group include, "ojek" (motor taxi driver) trader at local market, workers in property and road development, home builders, and other non formal jobs, including unemployee

Ages of respondent are between 30-50 years old.

Gender Daily Activity Pattern



Note: FW1LS= Group 1 Low season FW1HS=Group 1 High season FW2LS=Group 2 Low season FW2HS=Group 2 High season

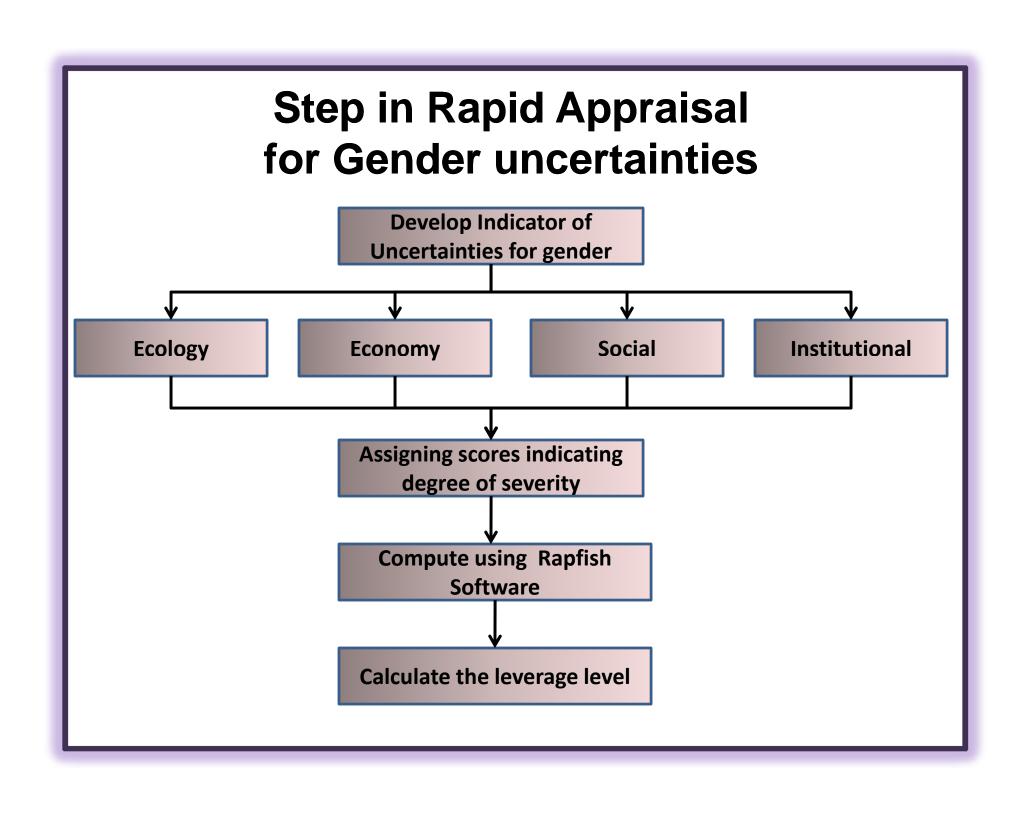


Income and Expenditure Profile of Coastal Communities

Group	Women's Income (WI)	Husband's Income (HI)	Total Expenditure(TE)	Ratio WI to HI	Ratio WI to TE	Ratio HI to TE
	(US Dollars)	(US Dollars)	(US Dollars)	***************************************	WIWIE	111 (0 112
FW1SHS	50	157.5	220	0.32	0.23	0.72
FW1SLS	75	83	127.5	0.90	0.59	0.65
FW2SHS	120	180	300	0.67	0.40	0.60
FW2SLS	80	160	250	0.50	0.32	0.64
FW1PHS	62	148	250	0.42	0.25	0.59
FW1PLS	70	102	170	0.69	0.41	0.60
FW2PHS	138	180	310	0.77	0.45	0.58
FW2PLS	89	150	216	0.59	0.41	0.69

^{*}income/month





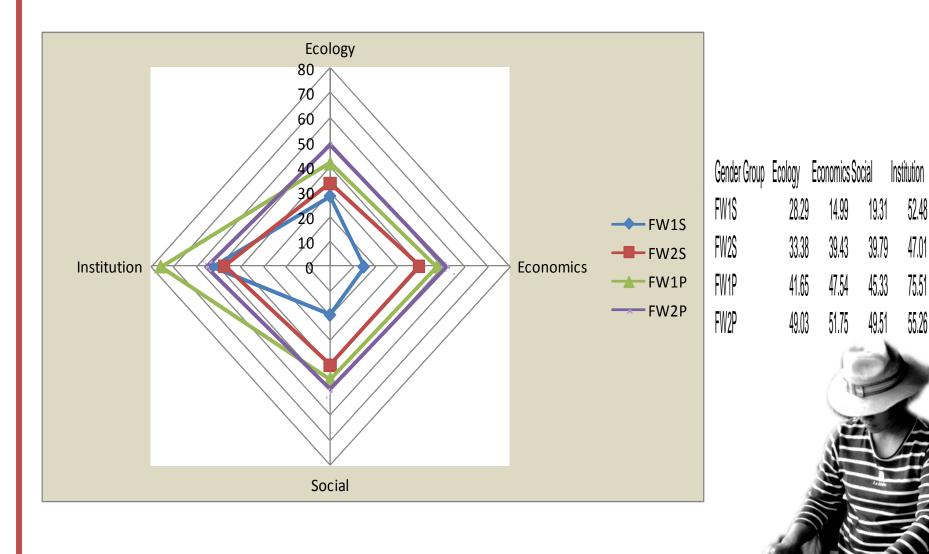
Indicators or Gender Uncertainty

Dimension	Indicators of Gender Uncertainty
Ecological	 High frequency of flood Seasonal factor/tide Coastal erosion pollution Stock availability Impact of drought Coastal degradation
Economic	 Volatily in husband's income Volatily in women own A ceesibility to resources Production volatility/input volatility Volatility in price Volatility in input prices Volatility in market
Social	 Instability in local politics Husband's income Crimery Family instability Unemployment of family member Health condition Conflict status
Institutional	 •Uncertainties in government support •Women participation •Dependency in local financier •Depedency in credit and saving •Dependency in social network •Dependency on other family member to support

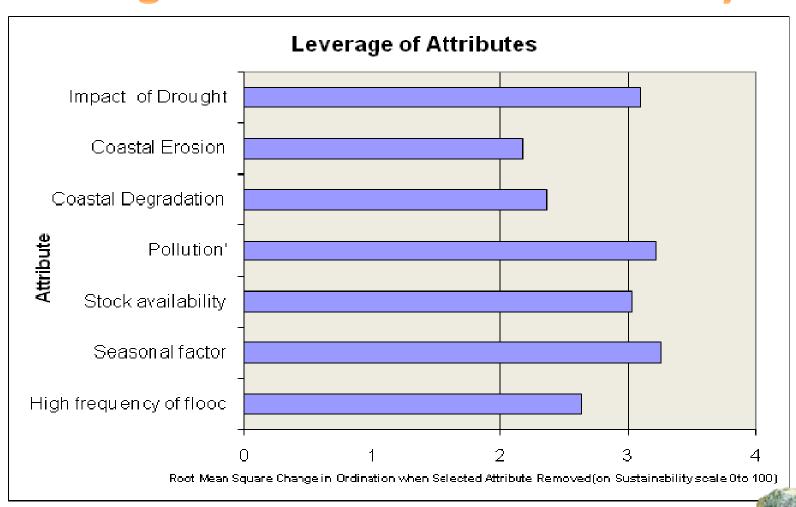
•Participation in local organization

•Uncertainty in cost of children education

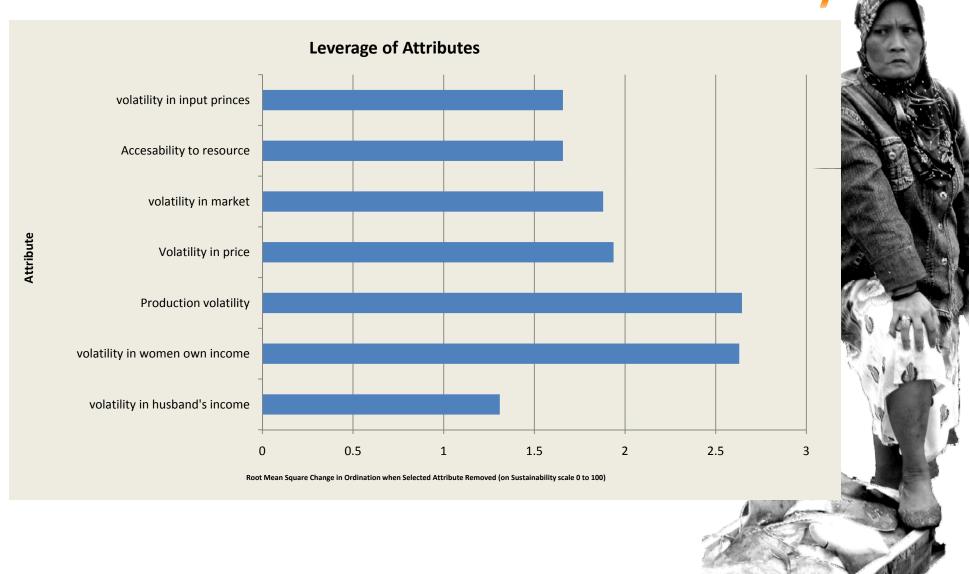
Kite diagram representing the relative position of uncertainties faced by fisherwomen



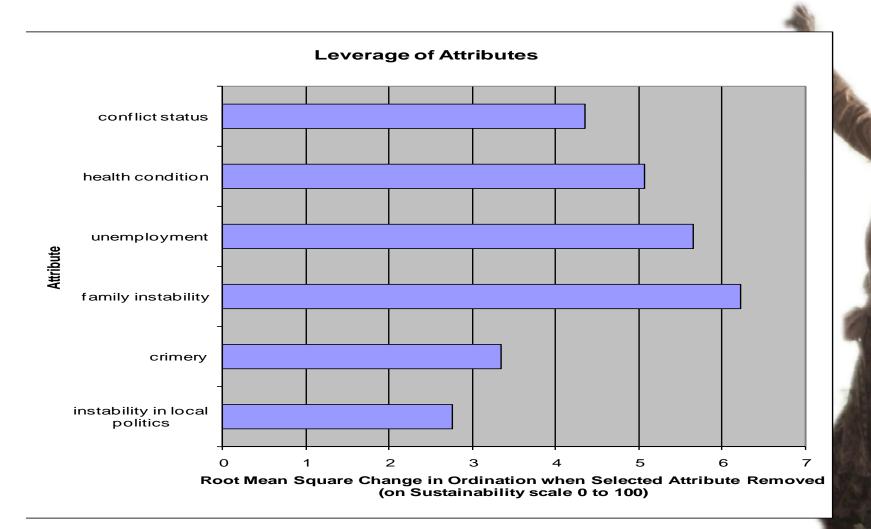
Leverage of Attributes for Ecological dimension of uncertainty



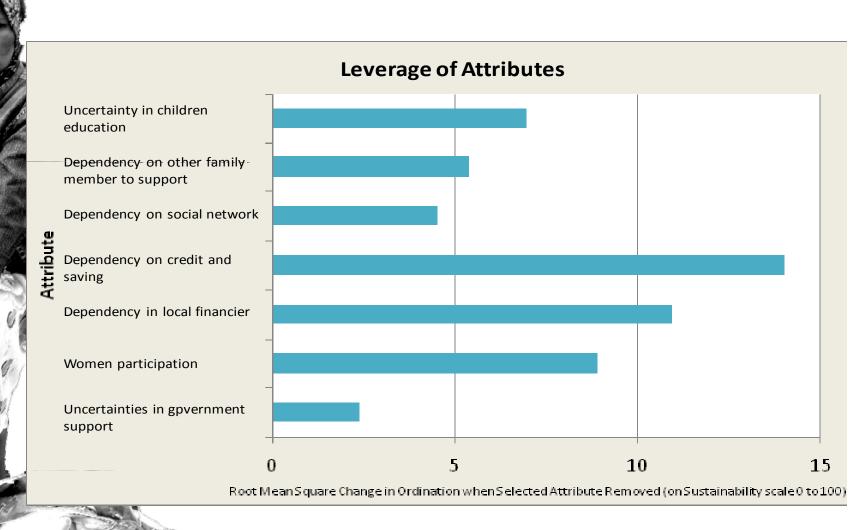
Leverage of Attributes for Economic dimension of uncertainty



Leverage of Attributes for Social dimension of uncertainty



Leverage of Attributes for Institution dimension of uncertainty



Women's strategies to cope with uncertainties

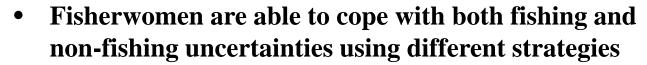
Internal Family livelihood (as a manager of family livelihood,)

External Forces: ecological disturcances, Uncertainty in husband's productivity, family instability, poor government assistance

- Arisan
- Develop their own"credit system"
- Borrow and lending money from neighbour, "hard to make and meet" mechanism
- Go to pawn Shop to obtain cash to buy basic need
- Maximized labor family member, part time house maid
- Being thrifty:
 - spend less on food, clothing and leisure.

- Direct selling fish or fish product
- Invest to open a kiosk/coastal café (kedai pesisir).
- Work as a picker jasmine flowers at jasmine plant
- Work as a worker at fish or shrimp ponds harvesting
- By catch collectors
- Traditional massagers
- Life goes on buzzword





- This study shows that using modified rapfish technique, we are able to identify the degree of uncertainty as well as identify variables which are sensitive to women's role in economic and social activities
- These variables could be used as policy guidelines to improve fisheries management in developing countries
- Government must pay attention to women's role when they develop fisheries program since they are capable of sustaining livelihood under the presence of uncertainties
- Women in coastal areas must be given the same opportunities to develop their business skill and credit schemes, as well empowerment program



Thank you



