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Interactions

within fisheries eco-/econo-system and impact of participatory research in a coastal community: in the model area of Indonesia

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More than 90 percent of world population is depending upon the capture fisheries or fisheries industries based on the small-scale fisheries in developing countries. Many livelihoods of the population face to the dynamics of the coastal marine environment and under influences of human activities.

"RESILIENCY?"

have not really been made in the levels of self-involvement

of fishers.

Distance between systems (accessibility, interests, awareness)

Socio-econo system

Ecosystem

METHOD MODELING and INVOLVEMENT

Dynamic interactions

Cultures

TOWARD FUTURE

BACKGROUND



Pabean Ilir, Indramayu, West JAWA

Population (Fisherman)	250 residents
Area (km ²)	20.8
Latitude	-6.2683°
Longitude	108.3297°
Major income source	Fishing
Number of offsprings	4 to 5 children
General monthly income	5,000,000 IDR
General daily catch	5kg/person
Confirmed target species	Milkfish (<i>Chanos chanos</i>), Shrimp, Crab, Oyster



Visualize, Parameterize, Simulate and Compare

BEFORE and AFTER



Other services

Catch and R_p

Fishes

Bio/Ecological parameter

Mysids

Oyster

Phyto planktons

Mangrove

Distances

Lagoon ecosystem

Social structure, Discount rate, Satisfaction

Cooperation

Pabean Ilir socio-econosystem

3 concerns of local fishers

"Uncertainty"

"Changing in resources"

"External environmental concerns"

"CITIZEN SCIENCE APPROACH"