



25th Oct. – 4th Nov., 2018

PICES 2018 YOKOHAMA, JAPAN

Interactions

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

Naoki TOJO¹, Takaaki MORI², Ayumi KANAYA³, Mitsutaku MAKINO⁴,

Mark WELLS⁵, Vladimir KULIK⁶, Joon-Soo LEE⁷, Shion TAKEMURA⁴, Charles TRICK⁸, Chang-an XU⁹, Shigeharu KOGUSHI¹⁰, Suhendar I SACHOEMAR¹¹

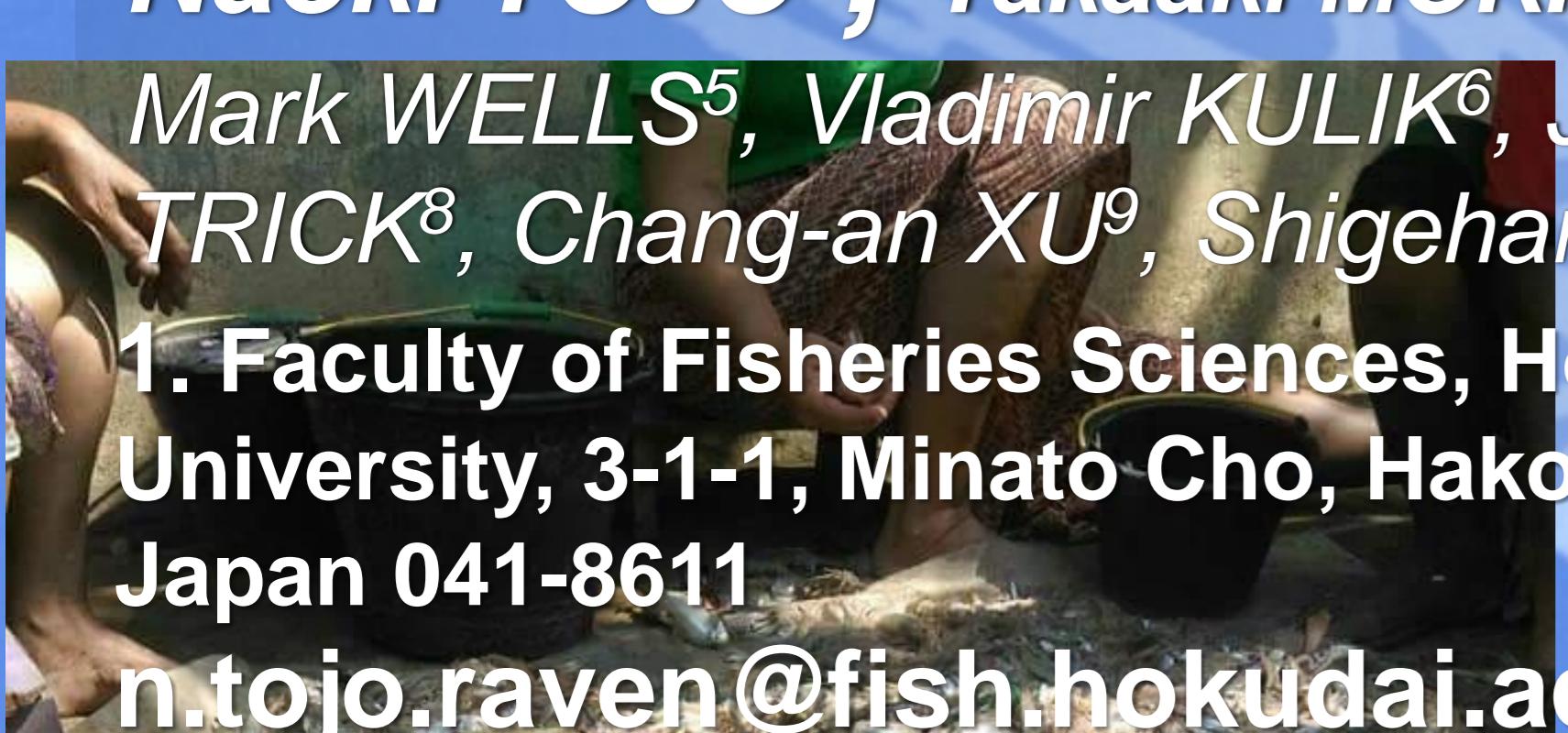
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LOFTY AMBITION HOKKAIDO UNIV.

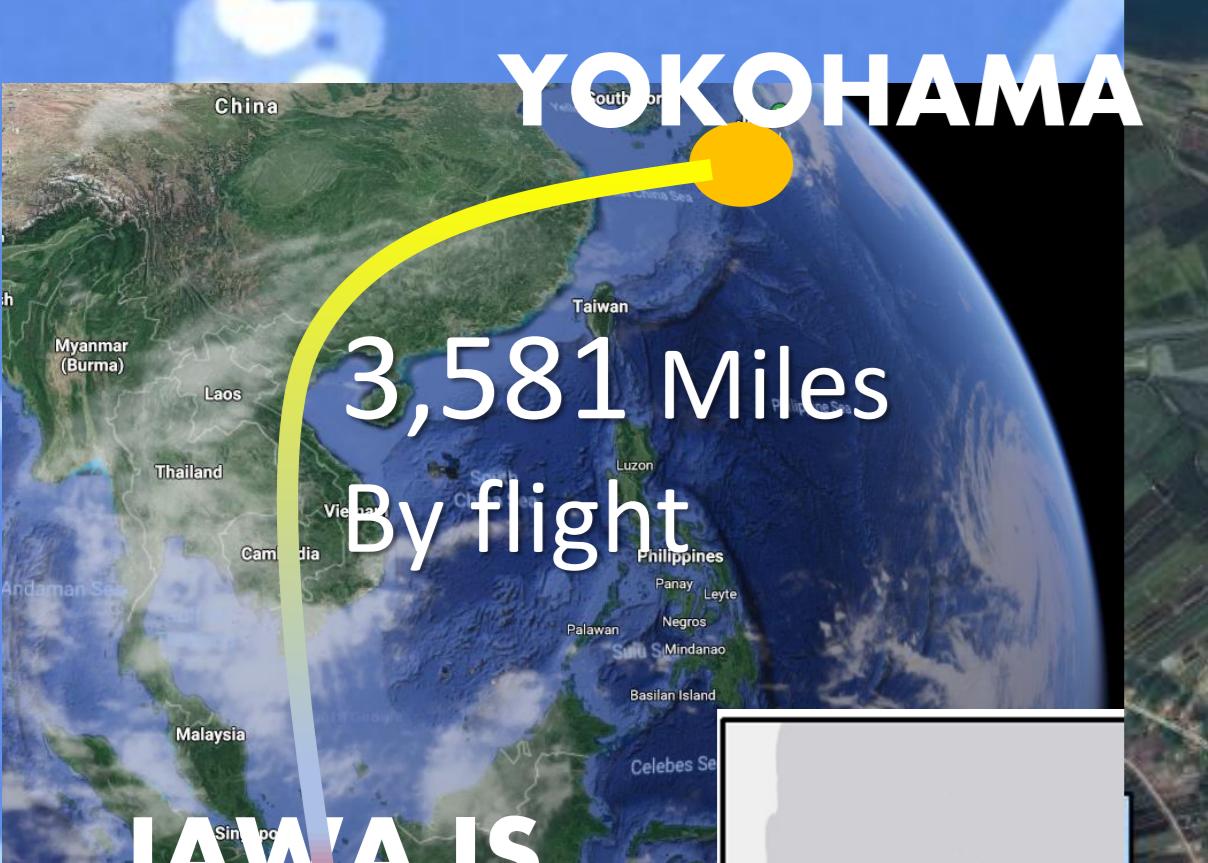
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2. SFS, Hokkaido University, 3. GSF, Hokkaido University 4. NRIF, Japan Fisheries Research and Education Agency, 5. SMS, University of Maine, 6. TINRO-Center, 7. KODC, National Institute of Fisheries Science, Ministry of Oceans and Fisheries, 8. DoB, Western University, 9. TIO, State Oceanic Administration, 10. GreenFront Research Laboratory cooperation, 11. BPPT, Indonesia



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.

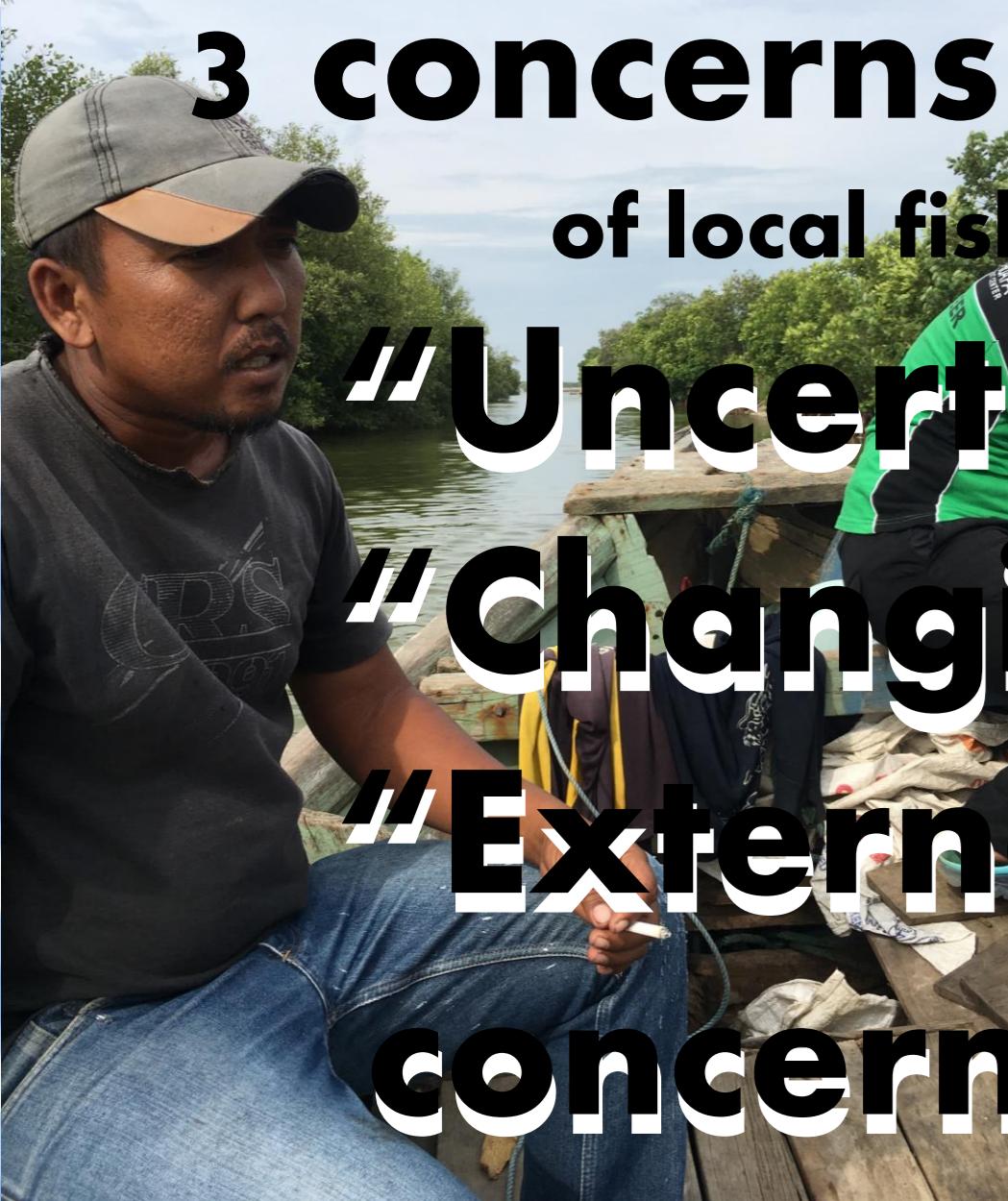
BACKGROUND



Pabean Ilir,

Indramayu, West JAVA

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



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“RESILIENCY? “

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

of fishers.

Socio-
econo
system

Distance between systems
(accessibility, interests, awareness)

Dynamic interactions

Ecosystem

Cultures

t

TOWARD FUTURE

METHOD
MODELING and

INVOLVEMENT



BEFORE and AFTER



“CITIZEN SCIENCE APROACH”

Pabean Ilir
socio-econosystem

Visualize,
Parameterize
Simulate and, Compare

