

# **DEVELOPING FISHERY STATISTICAL DATA FOR THE INDONESIAN ECONOMY**



**The Fifth International Conference on Agriculture Statistics  
Kempala, Uganda, 13 – 15 October 2010**



## INDONESIA

- Located between 6<sup>0</sup>08' north and 11<sup>0</sup>15' south latitude.
- Between 94<sup>0</sup> to 141<sup>0</sup>05' east latitude.
- Archipelago state and fourth-world populous country after China, India, and the United States of America.
- Around 70% area is ocean, and the rest is land
- Population was 237,6 millions (Population Census 2010)
- Around 60% people live if Java Island
- Land area is 1.9 millions km<sup>2</sup>, and waters are 5.8 millions km<sup>2</sup>, with coastal line length is 95,181 km
- Administratively it is divided into 33 provinces, and they have around 494 regencies/municipalities



## ECONOMY

- \* Contribution of agriculture sector to the national economy is around 15%
- The biggest parts of agriculture is food-crops, more than 70%
- Contribution of fishery to the national economy is 3.2% (to GDP)
- Predicted fish production at the year 2010 is 10.6 millions ton
- Predicted fish consumption per capita per year is 30 kg



## WHY FISHERY STATISTICS IS IMPORTANT?

- Limited agriculture land area for food (rice), and relatively huge area of ocean
- Substantially, there is a huge resources endowment in the sea, but less attention and usage on maritime economy
- Indonesian staple food is rice combined with others, like fish
- but in order to healthy life, generally people tend decrease rice consumption and change to others. Thus fish consumption per capita tends to increase



## **INSTITUTIONS DEAL WITH FISHERY STATISTICS**

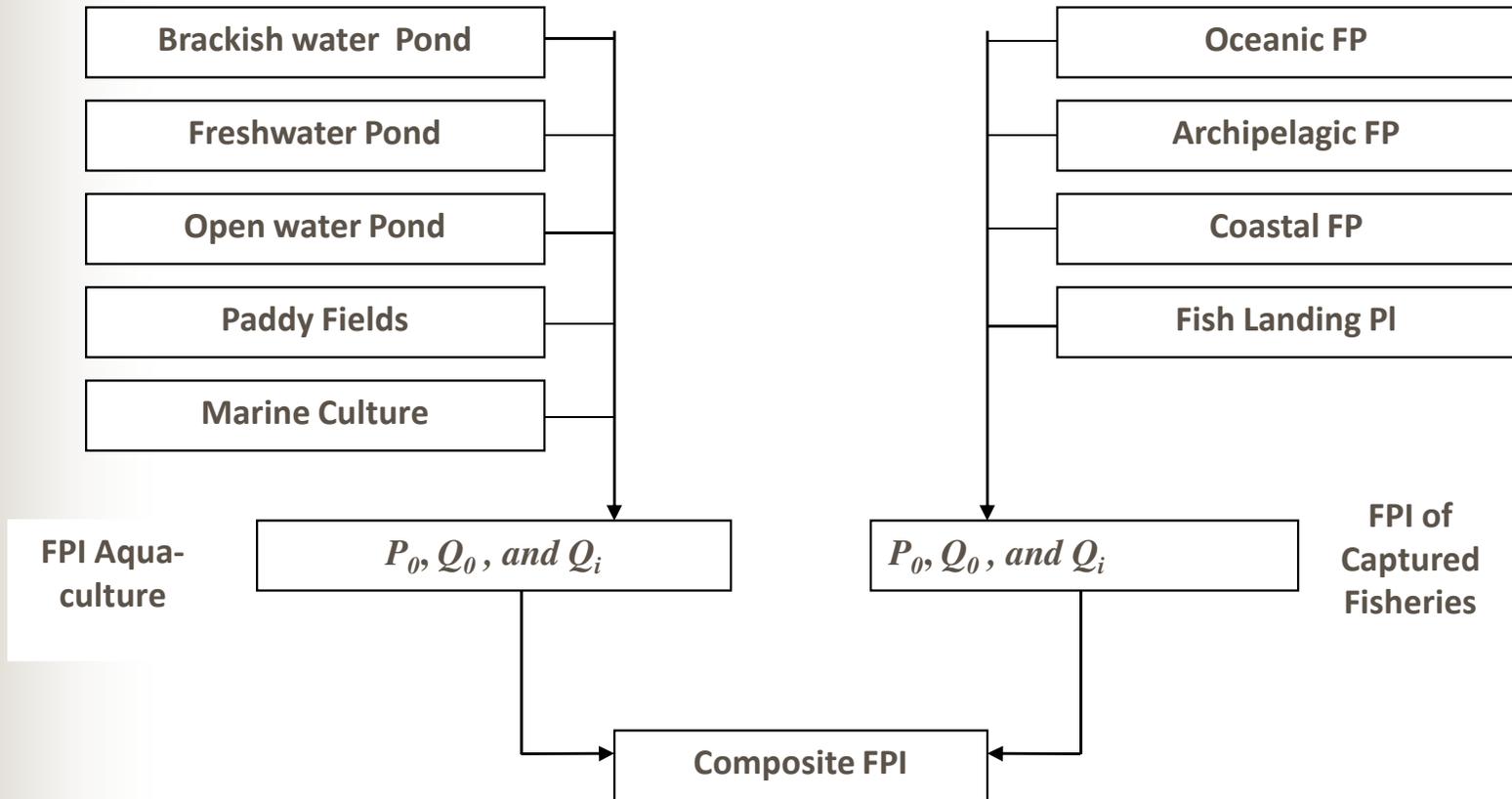
- BPS-Statistics Indonesia and MMAF
- Data from BPS based on households frame, and from MMAF based on boats/gears holding unit
- Data from BPS based on census/survey, and from MMAF based on administrative records
- Synergic combination of both will be better



## WHAT SHORT OF STATISTICS?

- Indonesia targeted to increase production
- Estimated production in the end of 2015 will be 353% as compare to 2010 (100%)
- To reache the target of production, fish production should be increase by 29%, annually
- Indicator to control the rate of increase of production should be found.
- BPS and MMAF have decided to construct Fish Production Index control rate of fish production growth

## Diagram of Constructing FPI



$$FPI = \frac{\sum_{i=1}^n P_0 Q_i}{\sum_{i=1}^n P_0 Q_0}$$

$$FPG = \frac{FPI_i - FPI_{i-1}}{FPI_{i-1}} \times 100\%$$



## Conclusion

About 70% of Indonesian area is ocean, thus fishery is important for the economy.

The importance of fishery is to feed the world. Food crops are still very important, but land stock to developed agricultures is a constraint.

Indonesia is an archipelago containing wide area of sea, and it means that the food economy should start rely on fishery.

4 To have a good administrative of fishery business, the government should supply a good statistical data system.

This paper supply one of formulas to estimate the growth of fish production as well as estimate future production. It is simple and applicable.