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# <u>Newsletter</u>

Examining Technical Efficiency in Marine Captured Fisheries in Malaysia

## **The Situation**



(ii) However, empirical evidence shows that fish stocks are already overexploited



(i) Fish is an important source of protein in Malaysians' diet

(iii) The government has implemented policies to reduce overfishing problems; however, there still exists excess capacity arising from the fact that it is an open access resource



(iv) Experts believe that productivity can be increased through effective management



(v) It is important to understand the current catch and effort levels by major types of fishing gears in Malaysia

### **Research Objectives**



(i) To examine the extent of capacity utilization in Malaysian fisheries

(iii) To study the impacts of potential capacity reduction measures on the stakeholders



(ii) To measure the extent of possible capacity reductions while maintaining production levels

### **Our Approaches**



(i) Questionnaire surveys(ii) Data envelopment analysis (DEA) using the General Algebraic Modeling System

(iii) Stochastic production frontier approach (SPF)

### **Some Interesting Findings**

- Trawl net fishing had exceeded the optimum capacity by 35%
- Reducing the use of the trawl fishing method will reduce the exceeded capacity
- The above can also help to increase the optimum yield.

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