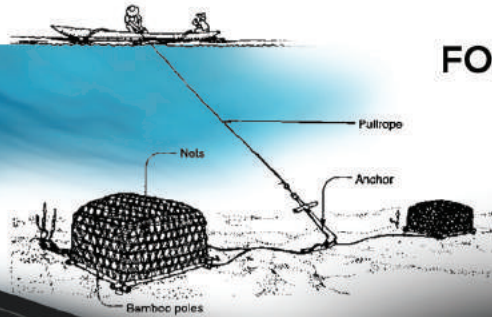




# AUTONOMOUS FISH TRAP

FOR COASTAL FISHERIES



## INTRODUCTION

- Inshore fisherman risk their life delivering, installing and retrieving fish trap.
- The installed fish trap sometime stolen and retrieval failure rate is high due to inefficient retrieval mechanism.
- Installation of 1 fish trap takes up to 1 hour and small boat (<10GRT) could carry up to 4 fish traps per trip (1 day 1 trip).
- Retrieval process is inefficient, lowering down steel hook to catch the trap. Very high failure rate and result in losing the trap and the fishes.

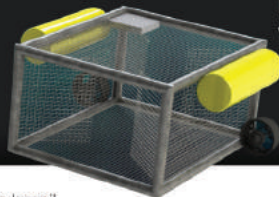


## NEEDS

- A new method to install and retrieve the fish trap without having to risk their life at sea.
- Minimize the effort to operate the fish trap.
- Automated and self navigated with efficient handling method that improve fish collection.

## APPROACH

- Introduce an Unmanned Aerial Vehicle (UUV) to carry fish trap to the predefined location, submerge and resurface according to the preset time, and swim back to the shore. All operate using mobile apps.



## BENEFITS PER COST

- Minimize the effort and time to operate fish trap.
- One fisherman can now own and operate large number of fish trap.
- Improve fish collection.
- Eliminate risk of accident and fatality at

## COMPETITORS

- Competitors are not focusing of process of delivering, install and retrieve of fish trap, but rather focus on designing system which could lure more fish into the trap.



**PROJECT LEADER** : Dr. Kamarulafizam Bin Ismail  
**PHONE NO** : +607-5534760  
**EMAIL** : kamarulafizam@utm.my