FISH-I

The Problem

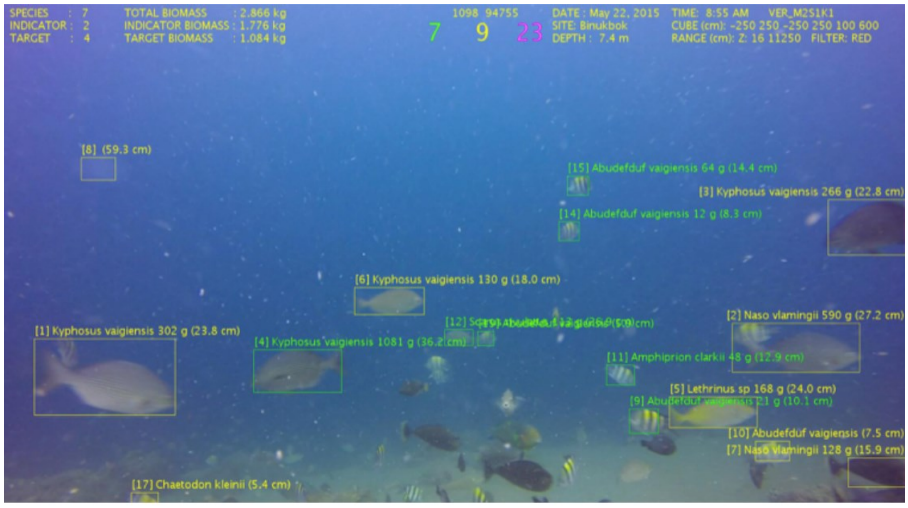
The current practice in conducting fish census involves manual fish counting and species determination by fish experts. This process requires high level of Marine Science expertise and cannot scale to thousands of sites.

The Solution

Fish species count and biomass estimation are used in the health assessment of a tropical marine environment. Fish-I is a patent pending hardware-software technology that allows for rapid reef fish assessment. It automates the process of performing fish census which otherwise requires high level of domain knowledge and expertise in the Marine Sciences. With Fish-I, users with minimal knowledge of fish can obtain highly accurate fish population density, biomass, and species

The Market

The target market of Fish-I include the academe, Department of Environment and Natural Resources (DENR), Local Government Units (LGUs), Private Organizations (POs) and Non-governmental Organizations (NGOs) who are tasked to monitor, evaluate and manage Marine Protected Areas



Solution Features

Automated data generation for:

⇒ Fish Count
⇒ Fish Identification
⇒ Fish Population Density
⇒ Fish Length
⇒ Fish Biomass

- Data gathering takes ten (10) minutes and covers a total distance of fifty (50) meters (Two (2) minutes for every ten (10) meters; five (5) sampling points).
- With less cost, no expertise required for fish census and a permanent

Current Status

Fish-I has been tested for portability and ease of use in more than twenty (20) different sites across the Verde Island Passage and other MPA's throughout the Philippines. It is now under market validation, task optimization

What We Need

We need partners who can help us commercialize this technology more strategically, as well as connect us to potential customers of our product.

Collaborators:

For more information:

DR. PROSPERO NAVAL JR.
Professor and Laboratory Head
Computer Vision and Machine Intelligence Group
University of the Philippines
Diliman, Quezon City
Tel. (632) 4343877
Email: pcnaval@dcs.upd.edu.ph

Or **MS. AGNES MAY B. BANTIGUE**
Intellectual Property & Technology Transfer Officer
Office of the Vice Chancellor for Research & Development
University of the Philippines Diliman
Tel: (632) 981 8500 loc. 8763/(632) 434 0650
Email:abbantigue@up.edu.ph