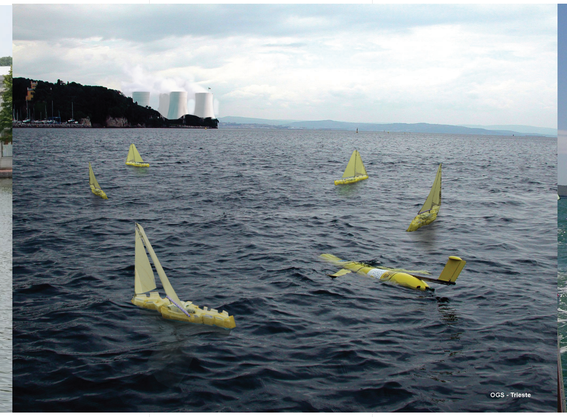
Incremental development

2012

Protei 1m Remotely controlled
For hobbyists, kids, hackers
To put our technology in the hands of our community
Sold for under 500 USD

2013

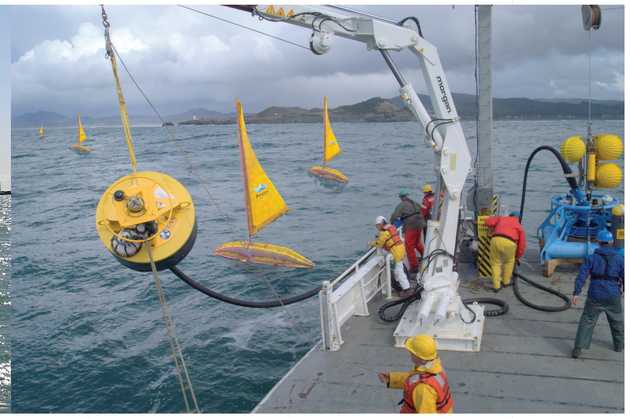


Protei 1m Autonomous
For ocean sensing, for scientists, engineers.
To detect oil spills, measure radioactivty, map coral reefs, study algae blooms, monitor fisheries, provide general ocean ographic data, communication with underwater vehicles.
Sold for under 1000 with USD

2014

Protei 6m manned
For sailors
To develop high performance hulls, pushing the limits of the technology.
Sold for under 5000 USD

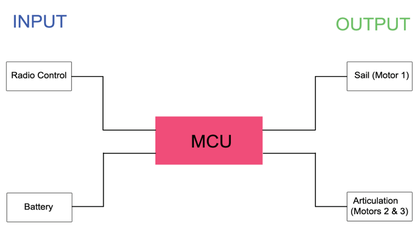
2015



Protei 6m autonomous
For ocean sensing and cleaning. Carrying large and heavy payload, cleaning oil spills, collecting plastic debris, oil spills, measure radio-activty, map coral reefs, study algae blooms, monitor fisheries, provide general ocean ographic data, communication with underwater vehicles.
algae
Sold for under 20’000 USD

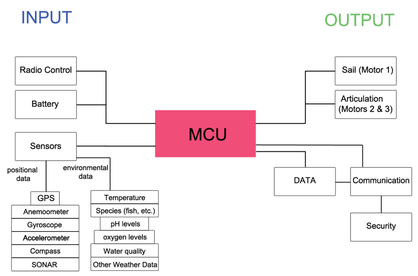
Protei architecture evolution

Remote contolled



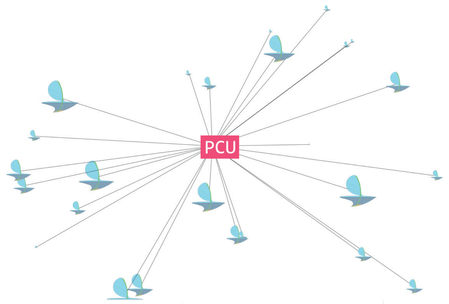
In the early stages Protei is simply remotely controlled. 2 channels going through a Micro-controller (MCU) one for the hull, one for the sails.

Autonomous



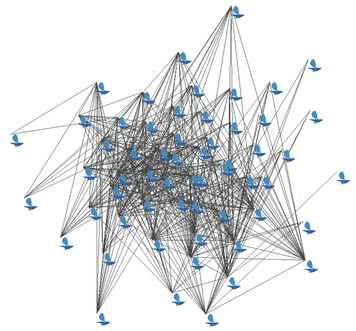
Next stage would be to implement environmental sensors on board of Protei giving it the capacity to make autonomous decisions based on real-time en-vironmental data.

Centralised



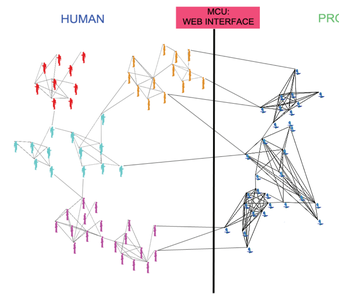
The fleet of Protei would be controlled via a central computer most likely situated on a mothership, the Programmable Coordination Unit (PCU).

De-centralised



Each Protei is capable of decision making and communicate to all other Protei. It a wireless mesh network of free agents.

Gaming network



The fleet of Protei is operating autonomously but groups of humans can overide and take control over either one or multiple Protei units to perform specific tasks.

Communications & Computation

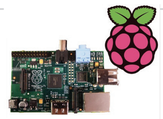
Remote control

Arduino

XBee

BeagleBone

Rasperry π



Web interface

GSM

Android

Iridium

OUYA Gamers

contact@protei.org

Protei
Open Source Sailing Drone