# NUTRA Ocean Passive Sensor Network

This whitepaper outlines a practical and scalable ocean surveillance concept using passive sensors. The system relies on underwater modules that detect chemical traces (e.g., fuel, pollutants) and trigger buoy deployment with GPS signaling.

## Key Features

- Passive seabed sensors (e.g., sponge, membrane)

- Mechanical buoy release system

- Surface GPS signal transmitter

## Advantages

This system is low-cost, eco-friendly, deployable without infrastructure, and ideal for remote or contested environments. Its simplicity allows for rapid prototyping, including DIY implementation.