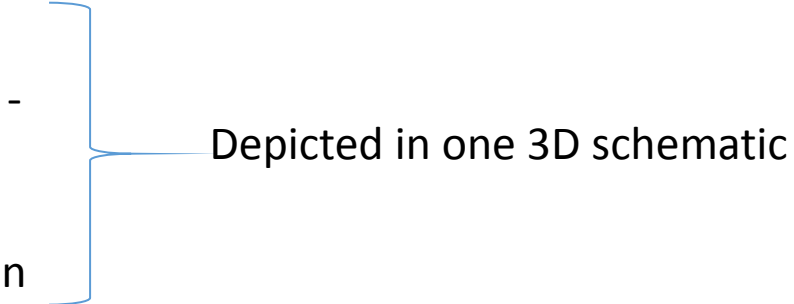- We are trying to make an overview of all developed sensors.

- It should be a 3D schematic of a sea environment, with water surface, sea bed, coast, fish, crabs etc.

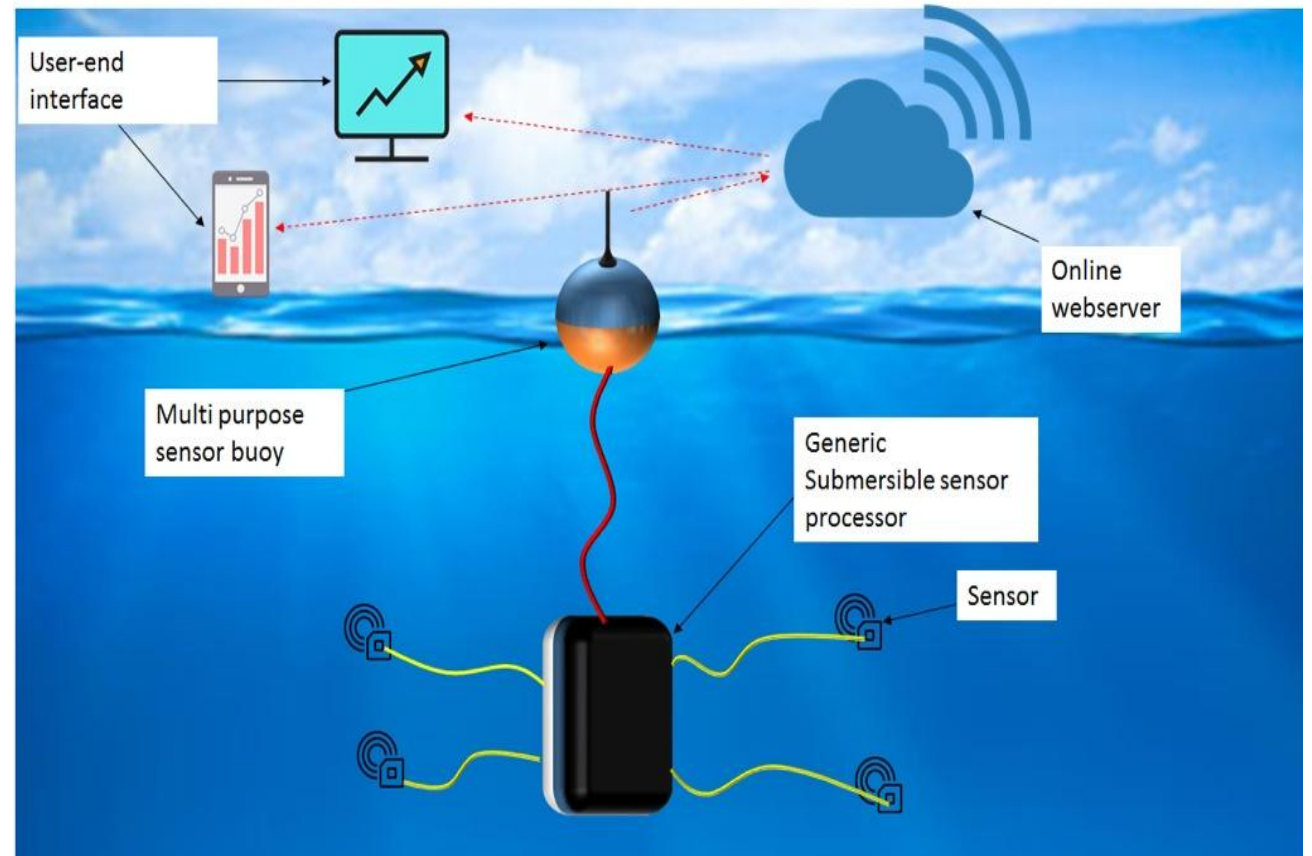- Ican be a mixture of schematic and real images of sensors.

These sensors has to be depicted ( More details on the next slides) :

1) **Multipurpose Marine Sensor Buoy**
2) **Marine skin**
3) **Wireless Data Acquisition**
4) **Optical Underwater Communication**
5) **A molecular sensors.** Image will be added soon

Depicted in one 3D schematic
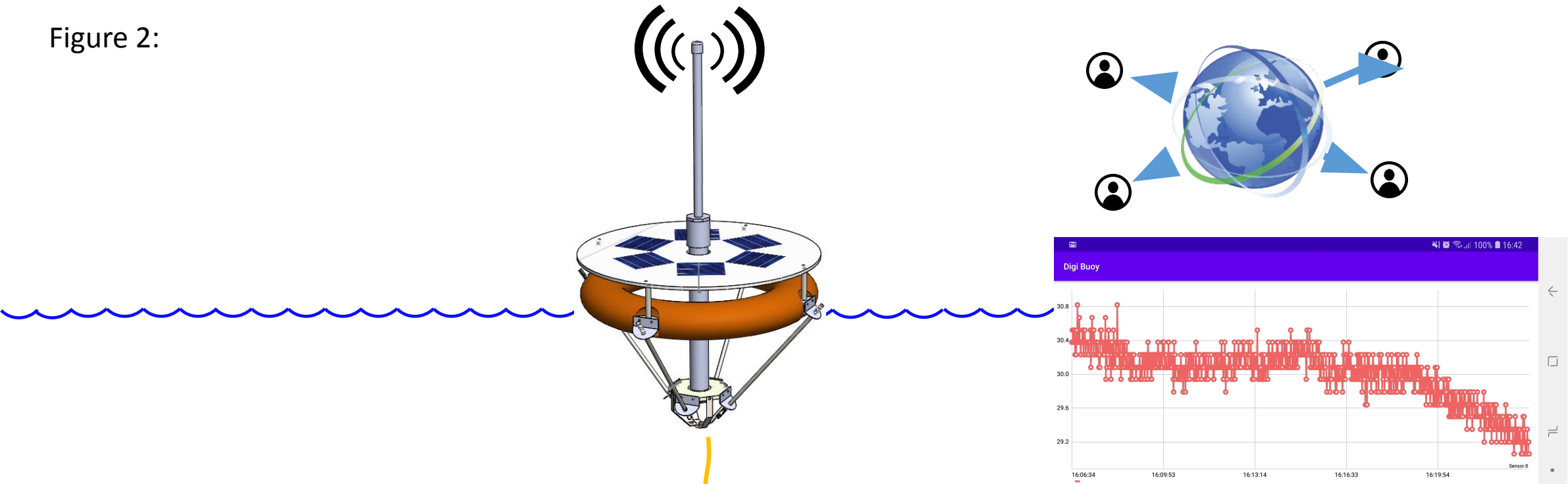
# 1) Multipurpose Marine Sensor Buoy

- Buoy with sensors attached to different things at the sea bed and communicating with the cellular network on the coast.

- The examples of this setup are shown in the Figure 1 and Figure 2.

- Please feel free to substitute all the drawings. The real images has to be left as it is.
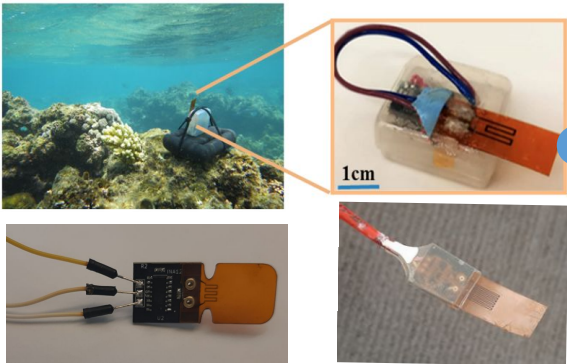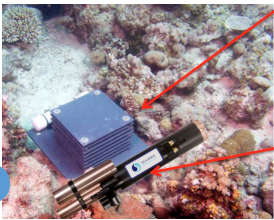
Figure 1:

# 1) Multipurpose Marine Sensor Buoy
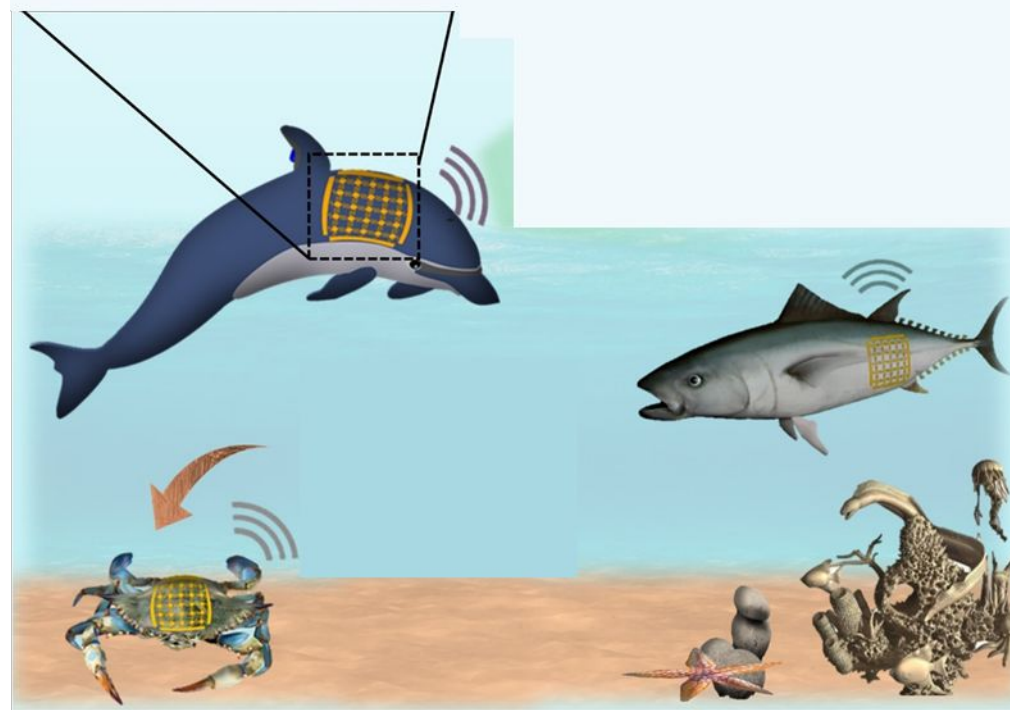
Figure 2:
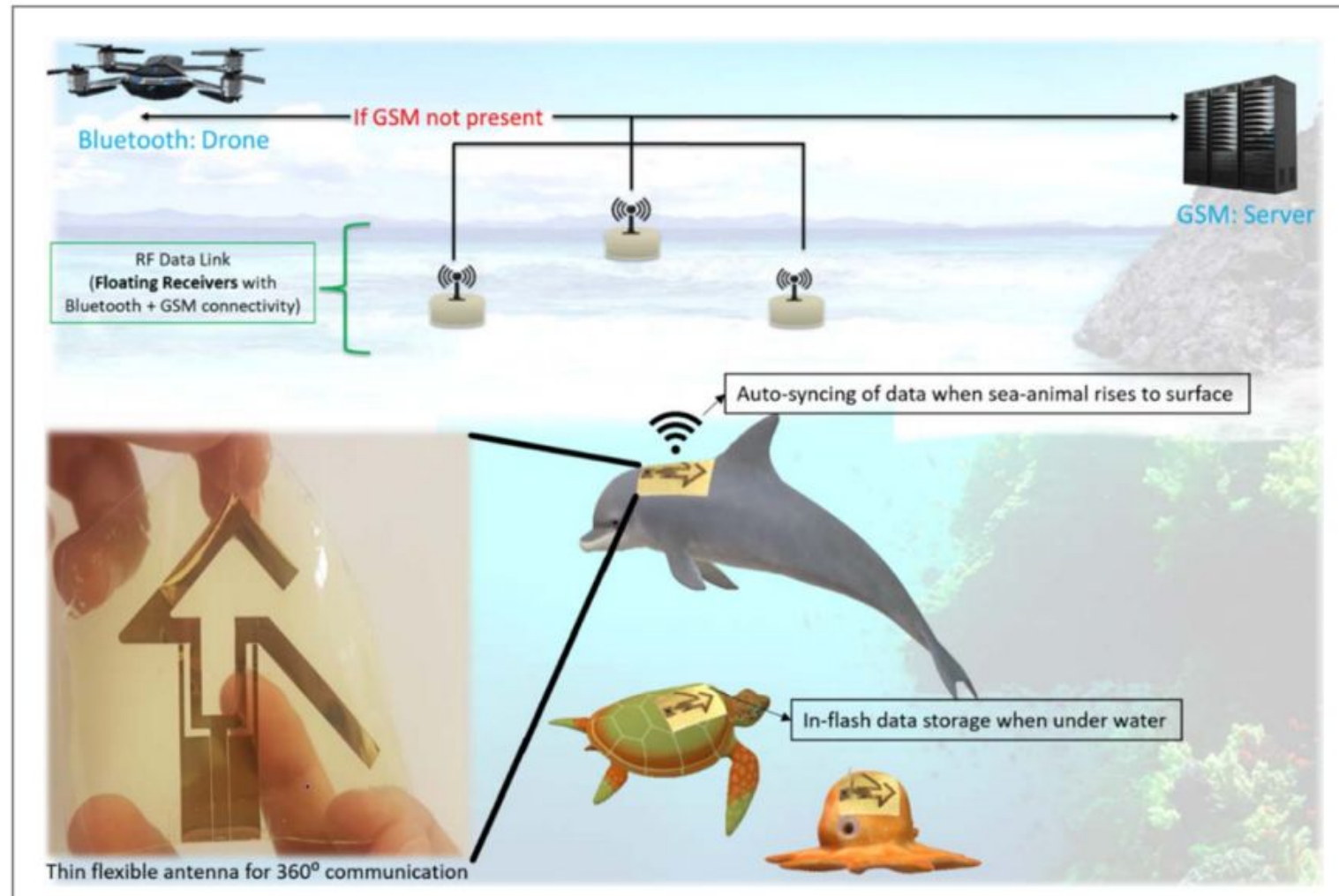
**Research prototypes**

1cm

**Commercial devices**

- Autonomous Reef Monitoring System (ARMS) – units already in place within the NEOM region)
- Environmental variables
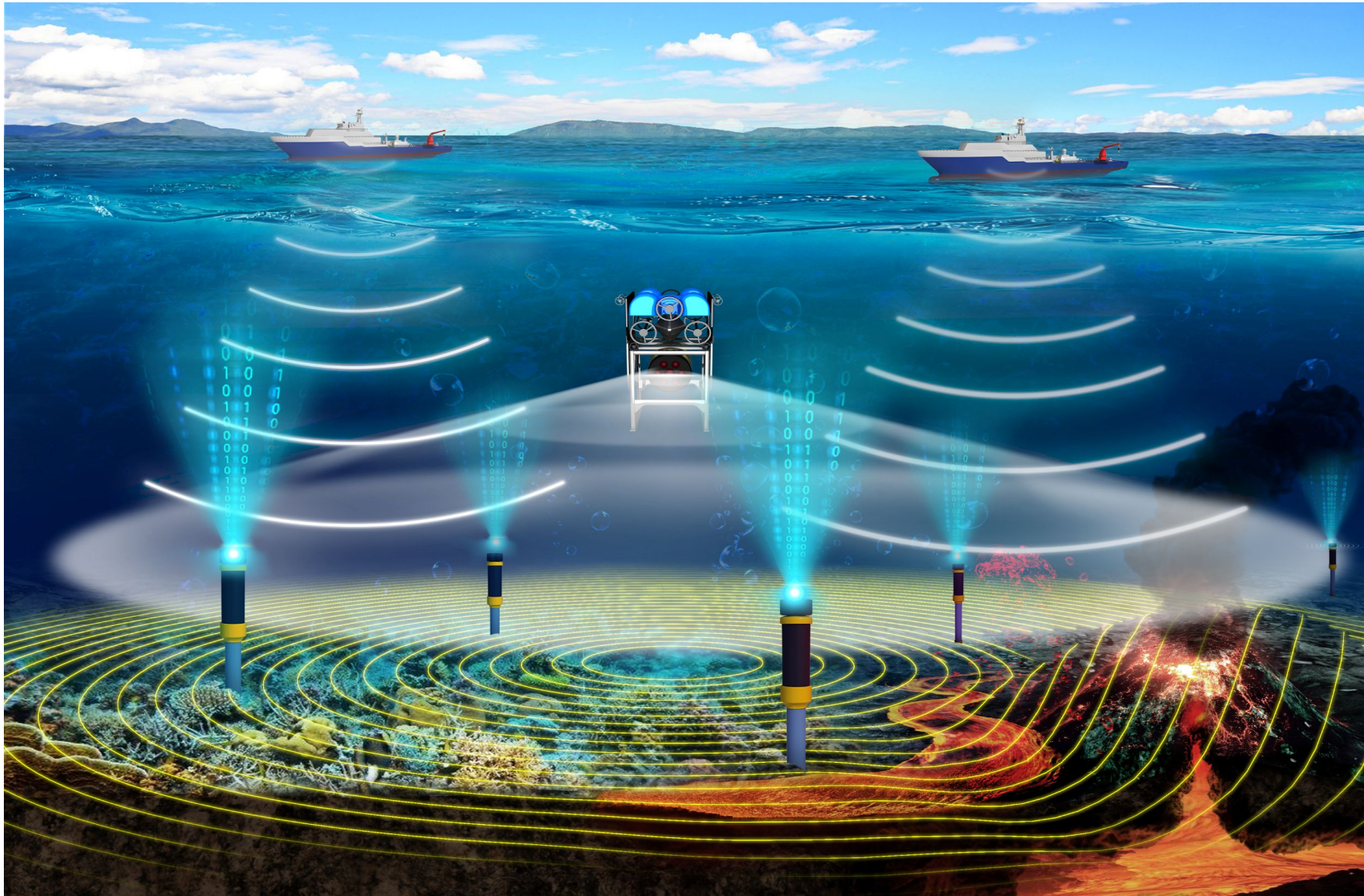  - T, S, O2, pH, Chlorophyll, turbidity

# 2) Marine Skin

# 3) Wireless Data Acquisition

# 4) Optical Underwater Communication

This is ROV
Remotely
operating
underwater
vehicle

# 5) Molecular sensors

This part will be a zoom-in on a fish.