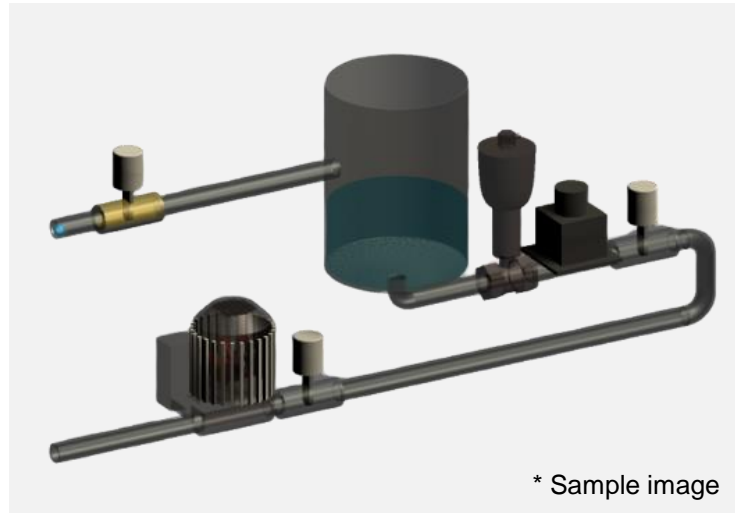


# Ship P. Counter

*Ship P. Counter enables to obtain the number of phytoplankton continuously by automatic inspection monitoring system and receive the result from a sample of ballast water*

## Features

- Automation & Reduced inspection time
- Cost reduction
- Fast: Results are delivered in 3 minutes
- High sensitivity: Counting Individual Living Cell
- No dye-substrates
- Easy sampling & counting

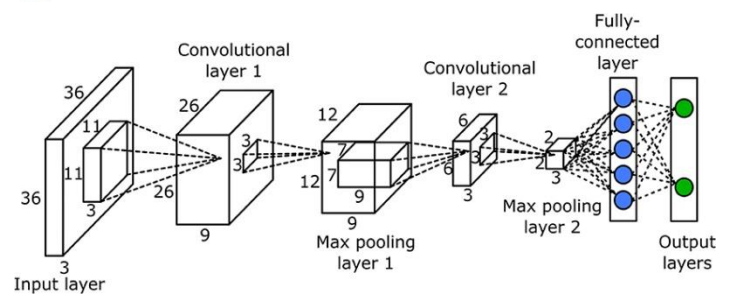


## IMO Agenda Proposal

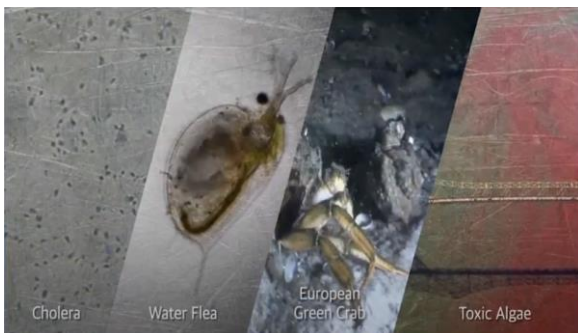


MEPC 74-INF.18 agenda proposal

## Deep Learning Algorithm for Inspection

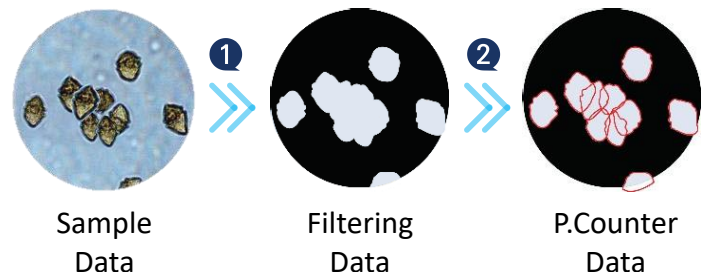


## Prevent disturbance in marine ecosystem



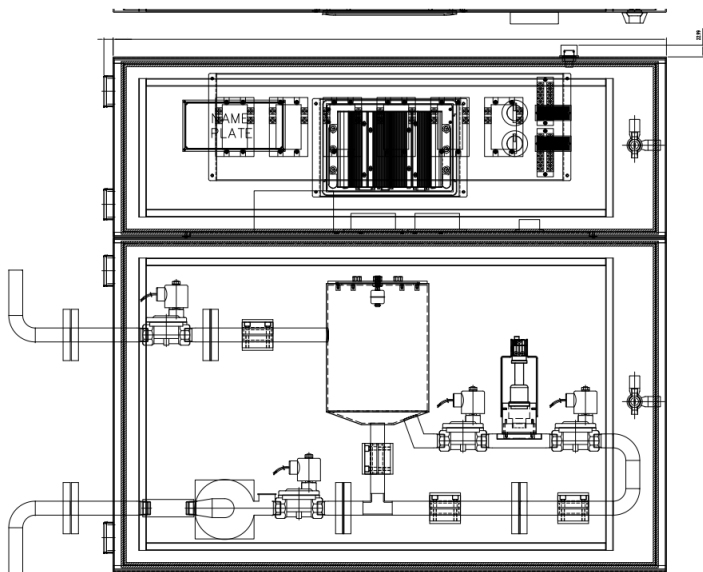
Ballast water, representative medium of exotic species inflow

## Detecting algorithm



1. Images Filter Process
2. Deep Learning Algorithm Process

## Specification






## Sequence of operation

1. Drain water from inside
2. Open valve 1 to store water in the water tank
3. Open valves 3 and 4 for air discharge at the rear end of the water tank when the water tank reaches the intermediate level (from 1 to 1.5L)
4. Close all valves and start filming
5. Drain the area (600ml~1.2L) and close the valve again.
6. Repeat movement 4 and 5
7. Drain all water after 8 shots
8. Go back to the movement 2 and repeat the whole thing

## Switch & Mode

Ship P.Counter	
Interrogated Volume	1.4mL * 8times
Sensitivity	< 1cell / mL
Dynamic Range	0-1000cell / mL
Time to result	< 3minutes for 1Cycle
Power	AC 220V / 50, 60Hz
Connectivity	USB or Ethernet or LTE(option)
Dimensions	700 * 700 * 400 mm
Operating Temperature	0 ~ 50°C
Storage Temperature	-10 ~ 55°C

Switch Status	Mode
 <ul style="list-style-type: none"> <li>• Valve Switch Off</li> <li>• Control Unit Switch Off</li> </ul>	Power Off
 <ul style="list-style-type: none"> <li>• Valve Switch ON</li> <li>• Control Unit Switch Off</li> </ul>	Water Circulation (Cleaning) Mode
 <ul style="list-style-type: none"> <li>• Valve Switch ON</li> <li>• Control Unit Switch ON</li> </ul>	Automatic Check Mode

\* The above specifications are subject to change depending on the company's circumstances