



6th Annual Entrepreneur's Forum
WHOI Center for Marine Robotics
26th August 2020

Introduction

Cellula Robotics Ltd. is a privately owned and operated Canadian business providing turn-key robotic solutions to the subsea industry. Cellula focuses on developing autonomous subsea technology platforms to increase the efficiency of current processes and pave the way for new capabilities.



Core Technology Platforms



Geotechnical Tools



Fuel Cell Powered, Long Range AUVs



Hovering AUVs

Solus-LR Pilot Program

- Contracted by Defence Research and Development Canada under the All Domain Situational Awareness program
- Mission to cover 2000km submerged, without refueling
 - High pressure H₂/O₂ fuel cell: 250kWhr usable energy
 - Suction anchor to hold station
 - Variable buoyancy engine
 - Flooded payload bay
- 10km test range in Burrard Inlet, BC
 - Buoy with LTE / USBL / Blue light communications bridge
 - LBL beacon at north end for navigation update



Imotus Hovering AUV

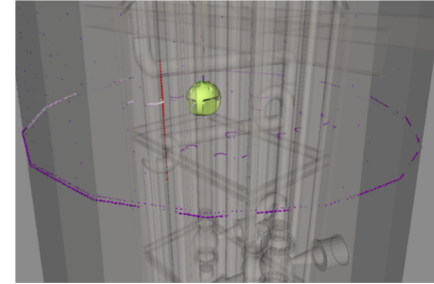
- 6-Degree of Freedom HAUV
- 150msw (3000msw option)
- Redundant vectored thrusters design
- Reconfigurable structure & sensors



Confined space and online
tank inspection



Mobile Ranging & Ship Hull
Inspections



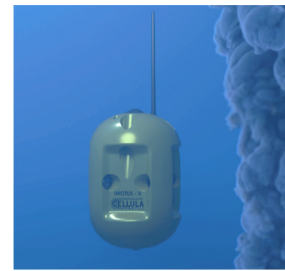
SLAM Navigation &
Simulation



Subsea surveillance



Seabed Residency



Vertical Profiling

Thank-you!

Cellula Robotics Ltd.
B109 9000 Bill Fox Way
Burnaby, BC
Canada V5J 5J3

Tel +1-604-540-5530
info@cellula.com

