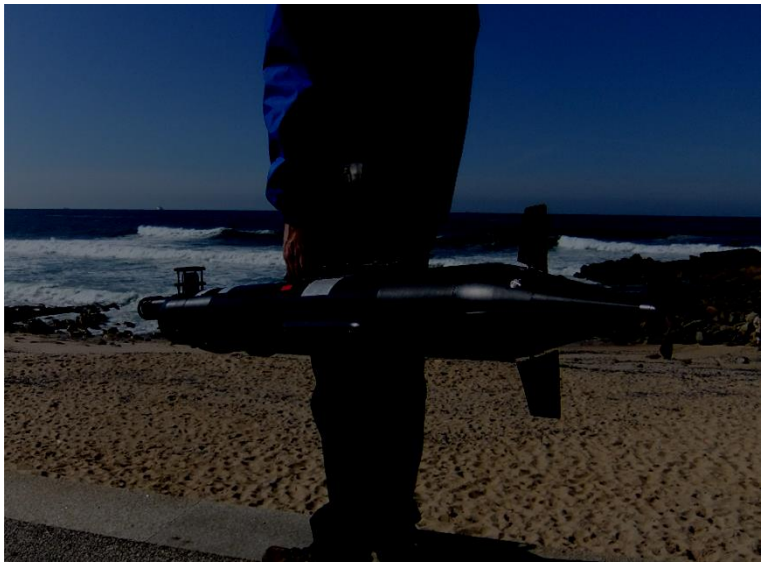
LAUV SYSTEM OVERVIEW

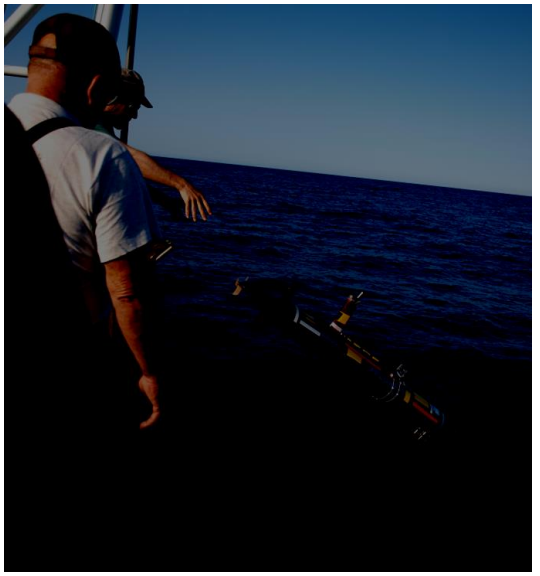
Light Autonomous Underwater Vehicle

THE LAUV CONCEPT

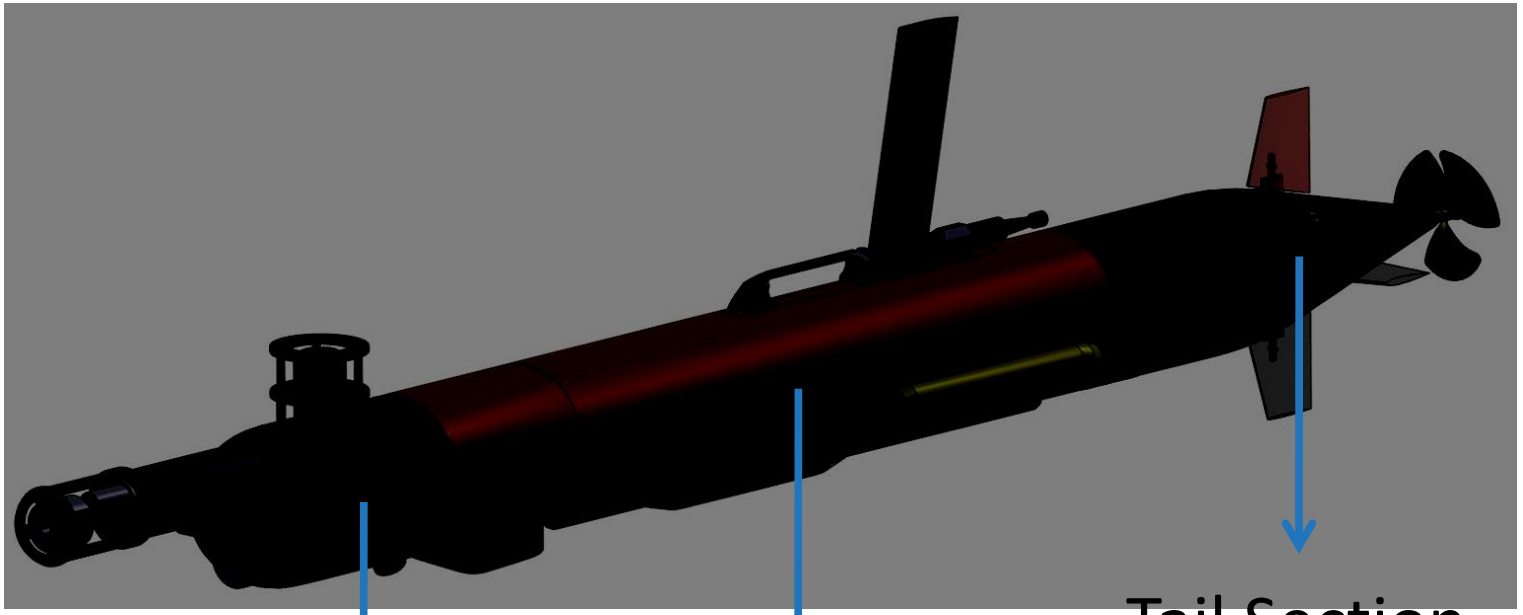
Continuous and sustained presence in the Ocean

- Lightweight/small size
- Affordable
- Robust & Reliable
- Low logistics
- Modular design
- Open system





LAUV – Sections



Nose Section

(Flooded)
WQ Sensors
Acoustic Txd

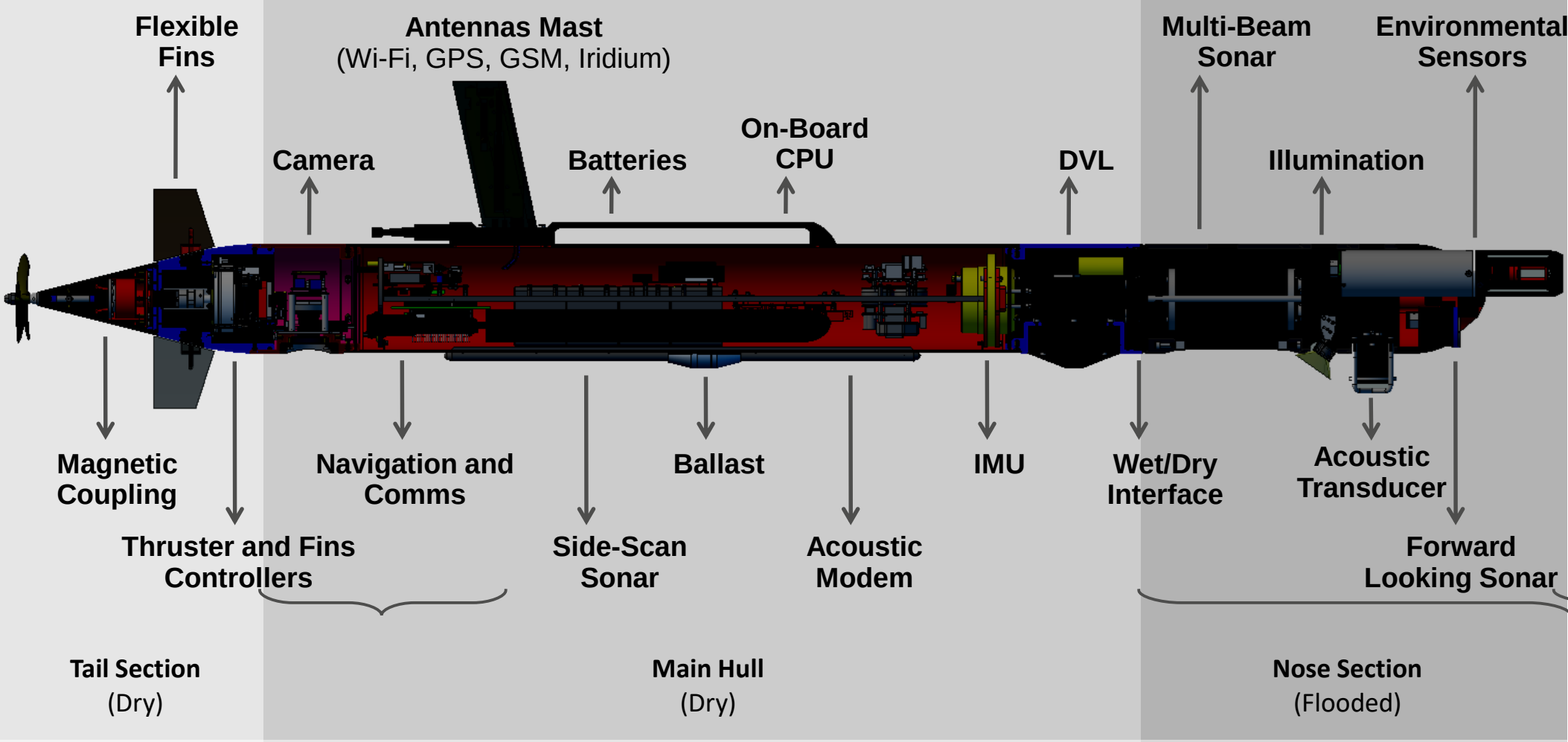
Main Section

(Dry)
Electronics
Batteries

Tail Section

(Dry)
Servos+Motor
Drivers

LAUV – Internal Overview – 5th generation



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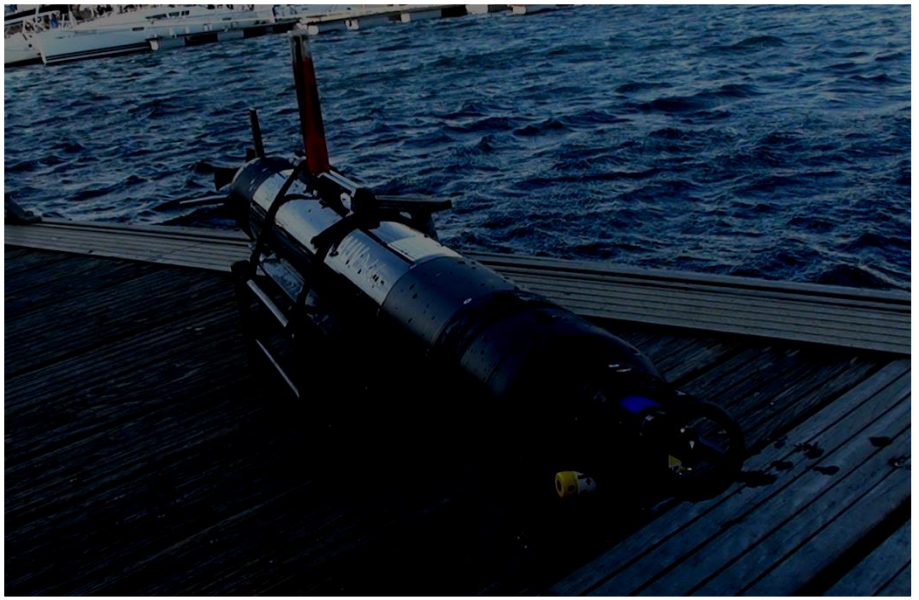
LAUV
Basic Configuration



- Length: 110 – 230 cm
- Weight: 15 – 30 kg
- Hull Diameter: 15 cm
- Depth Range: 100 meters
- Endurance: up to 8 hours @ 3 knots
- Speed: up to 4 knots
- Navigation: GPS, AHRS, Depth sensor
- Wireless Communications: Wi-Fi, GSM/HSDPA
- 546Wh Li-Ion batteries + Charger + External Power Supply
- Command and Control Software

LAUV
Software Configuration

- Developed and maintained by the University of Porto (LSTS) and OceanS
- Supports AUVs, UAVs, USVs, and ROVs
- Mature, proven, and modern toolchain
- Free (as in freedom) to non-commercial use
- Includes tools for simulation, navigation, control, guidance, communicat
- Source code available at **http://github.com/LSTS**