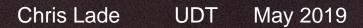


# THE MARRIAGE OF COMMERCIAL AND MILITARY UNDERWATER SYSTEMS FOR THE GOOD OF DEFENCE



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#### AIM

- In many respects the commercial world has overtaken the military in its work in the underwater environment.
- Commercial Demands on an Underwater System are very similar to the Military.
- Two examples firstly of how advanced commercial operations are and then how a commercial concept can translate into a military solution.



# COMMERCIAL VISION

1. ROV's hosted from surface (Platforms, FPSO, USV) - operator and related personnel located onshore. Vehicles located on seabed for extended periods

2. Tetherless ROV/AUV (hybrids) systems capable of performing all inspection / monitoring tasks (with and without man in the loop), Further steps to increase capability to include routine light intervention.

3. Subsea resident autonomous vehicles capable of routine field support tasks

# FIELD PROVEN TECHNOLOGY









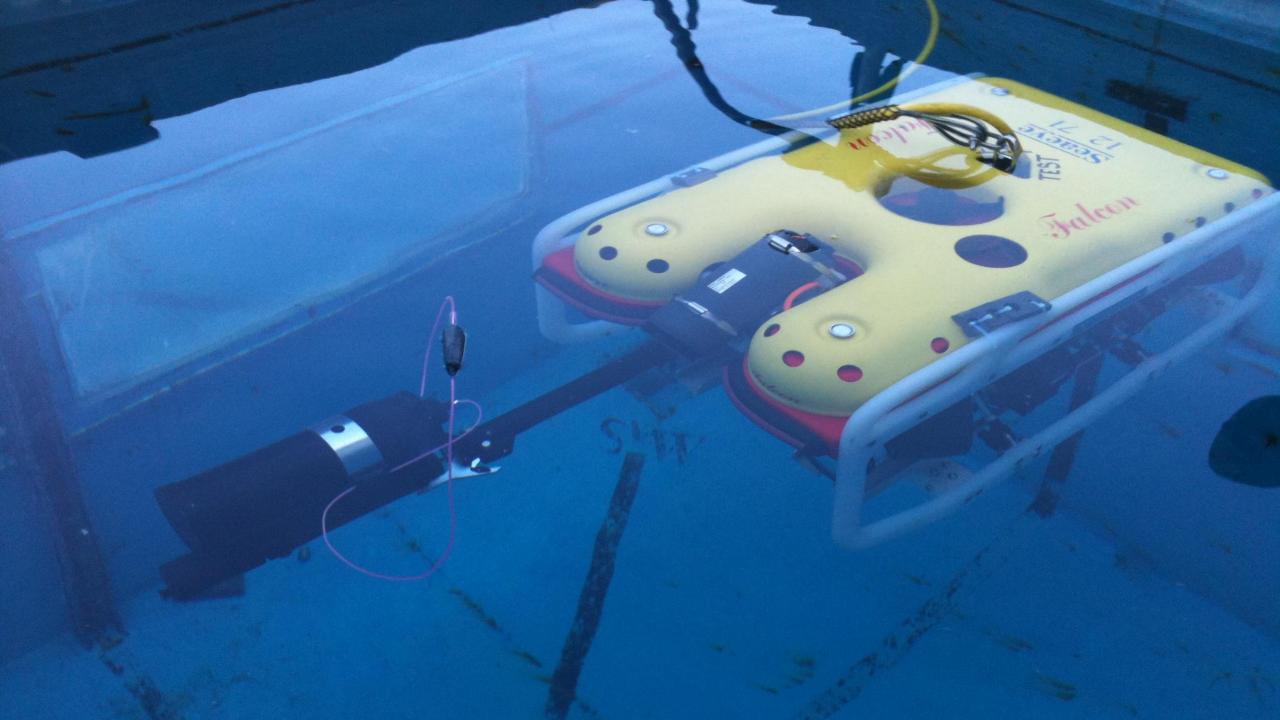


# THE DIFFERENCES

- Commercially 24/7 operations essential
- Operator/Maintainers have one role ROV pilot
- The Range of Commercial and Military Underwater Systems
- Depth
- Commercially little requirement for training
- Infrequent use by military
- Multifunctional roles of military operators
- Commercial world driven by profit and reduction in cost is key
- The Commercial world has the choice to opt out

# THE SIMILARITIES

- Efficiency and Effectiveness profit and operational tempo are closely linked
- Maintenance should be simple and defect rectification straightforward
- Resilience, systems must be able to operate from subzero temperatures to 40C in the Arabian Gulf
- Navigational Accuracy









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**Fixed Frame** Side View A Sectores S B







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## How Operator – Manufacturer Interaction can work