

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









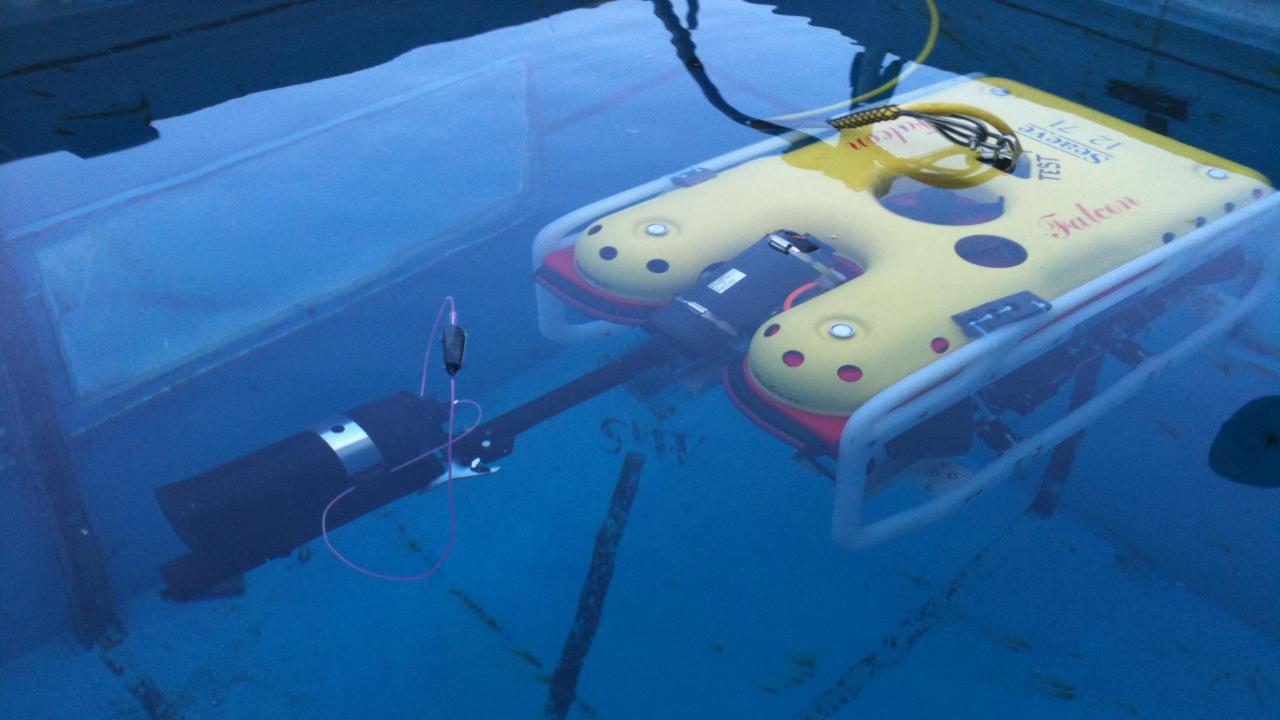


THE DIFFERENCES

- 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