



HFI Defence Technology Centre

SEA is a member of the HFI Defence Technology Centre, one of the MoD's world-class virtual centres of excellence for conducting innovative science and technology research.

The HFI DTC is generating new theories, methods, technologies and tools to support the MoD's requirements in future operations and in future procurements. As part of this work, SEA is leading research to improve the current HFI process to better support the MoD Smart Acquisition process

Support to IPTs within DPA/DLO

Through the HFI DTC research programme the SEA Human Factors (HF) team has worked closely with a range of IPTs to provide HF and Human Factors Integration (HFI) guidance and training. Typically, work has included the review and analysis of HF/HFI outputs for technical assurance, expert technical HF/HFI advice on all aspects of a project including technical and process related work, and training to increase awareness of HFI to eg ensure the whole range of human related issues would be identified, managed and resolved.



The approach taken was proactive and included activities to identify the particular HF/HFI needs of IPTs. A series of meetings and presentation were conducted and geared towards enabling IPTs to integrate HF and HFI with the goals of the overall project and the systems engineering process. The SEA HF team has been involved with IPTs representing all domains including:

- Battlefield Infrastructure
- Dabinett
- AdaPT
- Maritime Composite Training System
- Future Lynx
- Military Afloat Reach and Sustainability
- Joint Sensor Enabled Network
- Ground-Based Air Defence

Network Enabled Capability (NEC) design research

Work has included the development of processes and software tools for the application of human factors within a systems engineering context. Under the new programme, SEA will extend this research to provide new ways of designing systems to take account of organisational structures and social or cultural factors that often affect the utility and user acceptance of a system. This work will be particularly important in the light of the development of network enabled capability (NEC) and will reflect the shift in focus from designing for individuals to understanding how social, organisational and cultural factors affect operational performance.