HFI DTC Overview

MINISTRY OF DEFENCE

Prime Contractor

BAE SYSTEMS

Industrial

MBDA MISSILE SYSTEMS

SEA

LOCKHEED MARTIN

Academic

UNIVERSITY OF BIRMINGHAM

UNIVERSITY OF Southampton

Cranfield UNIVERSITY

The **Human Factors Integration Defence Technology Centre (HFI DTC)** is concerned with improving the application and integration of human factors throughout defence Capability planning, delivery and generation.

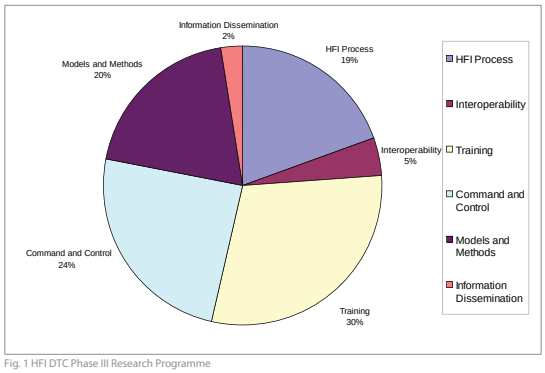

Fig. 1 HFI DTC Phase III Research Programme

Fig. 2 HFI DTC Newsletter *Frontline* Issue 10

The HFI DTC research programme, led by BAE Systems AeI, focuses on the integration of Human Factors across the Ministry of Defence (MOD) Unified Customer. Our partners are from defence industrial and academic organisations including Lockheed Martin UKIS, MBDA, SEA Ltd and the Universities of Birmingham, Cranfield (Bedfordshire & Shrivenham sites) and Southampton.

In 2009 the MOD announced an extension to the HFI DTC programme. The new research programme, will run until September 2010, and includes a range of pure and applied human-centred research themes aligned to the Defence Technology Plan and thus the needs of the MOD and the wider defence community.

The HFI DTC is currently running 22 research themes across five strategic areas (see Fig. 1):

- **Training**

Current research themes include: Collective Training Needs Analysis; Human Factors of Interactive 3D and Gaming Technologies; and Development of best practice in After Action Reviews.

- **HFI Processes**

Current research themes include: 'Risk-based' HFI Processes for Urgent Operational Requirements (UORs); and Processes and Methods for considering people factors in Through Life Capability Management (TLCM).

- **Command and Control**

Current research themes include: HFI Guidance to support the digitisation of Command and Control; and Development of common Human Machine Interface (HMI) design concepts for Uninhabited Vehicles.

- **HFI Models and Methods**

Current research themes include: Use of Cognitive Work Analysis (CWA) for requirements analysis and system specification; Development of models of Command and Control for Network Enabled Capability (NEC).

- **Multi-Agency/Multi-National Interoperability**

Current research themes include: Application of Crew Resource Management to aid in the training of Military Stabilisation Support Teams.

The results, progress and impact of our research can be found on our website www.hfidtc.com and in our newsletter *Frontline* (see Fig. 2).

Dr Karen Lane, HFI DTC Director, BAE Systems AeI
Contact: karen.lane@baesystems.com, Tel: 07736 379917

Prof Robert J. Stone, HFI DTC Research Director, Birmingham University
Contact: profbobstone@aol.com, Tel: 07740 858901

Debbie Webb, DTIC, sit-opsdticc41@defence.mod.uk

HUMAN FACTORS INTEGRATION DEFENCE TECHNOLOGY CENTRE HFI