

# Battlespace Management Evaluation Centre

The Battlespace Management Evaluation (BME) Centre is BAE Systems' fully networked visualisation and experimentation hub. It plays an integral role in our capability to deliver network enabled solutions, by allowing development, analysis and testing of design concepts to the limit within a virtual battlespace.

The BME Centre is unique in the service it delivers to customers. It is composed of many sub-services, each of which strives to be world class. These services are integrated to provide a complete Network Enabled Capability (NEC) visualisation, experimentation and solution development package.

Each service provided by the BME Centre comprises of people, process and technology that utilise best practice from across BAE Systems and wider industry partners.



The sub-services the BME Centre provides include:

**Trials and Experimentation** - a team of human factors specialists focused on the design, execution and analysis of NEC style experiments, addressing the problem of how to measure the military effectiveness of different NEC concepts.

**System Integration and Software Development** - a dedicated team that build real or representative operational environments. This is achieved through integrating existing and future systems and technology, together with the rapid development of applications to fill identified functionality gaps.

**Synthetic Environment** - specialising in the representation of all battlespace elements at varying levels of fidelity. This includes platforms, decision makers, communications systems and environmental factors such as terrain and weather. This team is team dedicated to providing the synthetic war game stimulus for the required operational environments.

**Facilities Management** - providing world leading facilities that are capable of large scale, federated NEC experiments. The BME Centre in Farnborough is designed to act as the hub for experiments over many sites across the world. It is rapidly reconfigurable and has a dedicated team to ensure quick turn around of different experiments.

The BME Centre is unique in that the services it offers are from a dedicated centre by a dedicated team. It can be used at various levels to meet customers needs, as a stand alone environment or integrated with other facilities. The BME Operating Model allows the support of up to twelve projects at any one time, all able to be at different stages. This flexibility allows the BME Centre to continuously support experimentation activities week after week. The BME Centre has supported over twenty large scale NEC experiments over eighteen months across all domains, along with many smaller activities in between. This turnaround ensures the team is constantly increasing its functional knowledge across all military domains. The processes it implements are continuously being reviewed to reflect best practice and the technology portfolio is forever growing - ultimately providing a better service for our customers.

### Seeing is believing

In March 2003, BAE Systems' Battlespace Management Evaluation (BME) Centre opened its doors to UK and international customers in the world of defence and aerospace. Since then, BAE Systems has brought to life projects involving complex systems by utilising the Centre's unique levels of experimentation and visualisation. The benefits include the ability to integrate existing and future systems, evaluate complex interactions cost effectively and visualise battlespace issues more clearly.

### Making the right connections

The BME Centre is a dedicated hub with the capability to connect with other battlelabs via links secure to secret level. The 170 workstations can be staffed by the customers' decision makers, operators and engineers or a partnership team incorporating our highly skilled in-house personnel.

### Opening up a new world of possibilities

Until now, the technology to integrate such a myriad of complex systems was a pipedream. BAE Systems' investment in the BME Centre has made this dream a reality. It opens up a uniquely secure, safe, cost effective and environmentally sound experimentation environment. BAE Systems' 4D approach is the overarching enabler to create the desired virtual battlespace conditions.

### Services provided

- Design and evaluation of network enabled solutions.
- Integration of engineering models and simulations with real systems.
- Representation of real or modelled communications infrastructures.
- Multi-layer visualisation of complex issues.
- Rapid Application Development.
- Cost effective trials management.
- Experimental design and delivery.

### Facilities

- BME Centre at Farnborough is the hub of Insyte BME federated capability.
- Collaborative working area for integration and development.
- Dedicated visualisation and experimentation area.
- Triple screen presentation theatre.
- Adjacent 'meet and greet'/breakout area.
- Secured to secret level.
- Other federated nodes includes facilities at Filton, Warton, Christchurch, Frimley and New Malden.



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