



FATS/3 BROAD AND NARROW CAPABILITY AREAS

List of FATS/3 Broad and Narrow Capability areas for which SEA has offered evidence to the MOD as part of the FATS/3 programme.

FATS/3 Broad Capability Area	FATS/3 Narrow Capability Area
Electronic, Electrical & Electromechanical Devices	Device Concepts & Fabrication
	Device Integration & Reliability
	Electrical Batteries, Primary
	Electrical Batteries, Secondary
	Electrical Fuel Cells
	Solar Cells
	Power Sources & Devices – RF
	Power Sources & Devices – Acoustic
	Other Electrical Power Sources & Devices
	Electric Motors
	Inertial/Gravitational Devices
	Computing Technologies and Mathematical Techniques
Software, Integration	
Software, Development	
Software, Configuration Management	
Software, Requirements	
Software, Programming	
Software, Quality Assurance	
Protocol Technology	
Communication Protocols	
Networks	
Middleware	
COTS Software Assessment	
COTS Software Integration	
Software Architectures	
Hardware Architectures	
Parallel Computing	
High Integrity Computing Software	
High Integrity Computing Hardware	
Secure Computing Techniques	
Distributed Systems Security	
Network System Administration	
Encryption Software	
Encryption & Crypto Techniques	
Mathematical Modelling	
Mathematical Modelling Evaluation	
OA Tools & Techniques	
Object Oriented Techniques	
Rapid Prototyping	
Software Accreditation	
Software Verification Technology	
Information and Signal Processing	Data & Information Management

FATS/3 Broad Capability Area	FATS/3 Narrow Capability Area
Technology	Technology
	Data & Information Storage
	Digital Signal Processing Techniques
	Image/Pattern Processing Techniques
	Optimisation & Decision Support Technology
	Information & Data Fusion Techniques
	Other Information Processing Technology
Human Sciences	Human Information Processing
	Military Human Resources
	Teams, Organisations & Cultures
	Human Survivability, Protection & Stress Effects
	Performance Enhancing Techniques
	Human Performance Monitoring Techniques
Operating Environment Technologies	Oceanography
	Terrain Science
	Meteorology
	Upper Atmosphere & Space Environment
	Acoustic Propagation in Air & Water
	Electromagnetic Propagation in Air & Water
Mechanical, Thermal & Fluid-Related Technologies and devices	Fluid Dynamics Techniques
Design Technologies for Platforms & Weapons	Hydrodynamic Designs
	Structural Designs
	Mechanical Designs
	Stealth Designs
	Acoustic Designs
Electronic Warfare Systems and DEW Technologies	ECM – RF
	ECM – Acoustic
	ECM – Magnetic & Electrical
	ESM – Communications
	ESM – Non-Communications
	EPM – RF
	EPM – Acoustic
	EPM – Magnetic & Electrical
Signature Control and Signature Reduction	Radar Signatures
	UV/Visible Signatures
	Acoustic Signatures
	Electrical & Electrochemical Signatures
	Magnetic Signatures
Sensor Systems	RF Sensors/Antennas – Passive
	UV/Visible wave Sensors
	Acoustic Sensors – Active
	Acoustic Sensors – Passive

FATS/3 Broad Capability Area	FATS/3 Narrow Capability Area
	Non-Acoustic Sensors – UW Electrical & Electro-chemical Sensors CB Sensors Systems Motion Sensor Systems Environmental Monitoring Systems
Guidance and Control Systems - Weapons & Platforms	Navigation Systems Weapon Guidance & Control Systems Platform Guidance & Control Systems Display System Stores & Weapon Release/Discharge
Simulators, Trainers and Synthetic Environments	Skills Training Systems Tactical/Crew Training Systems Comms & Staff Training Systems Virtual Reality Synthetic Environments-Synthetic Force Generation Synthetic Environments-Natural Environment Generation Synthetic Environments-Management Systems
Integrated Systems Technology	Systems Engineering Integrated Systems Design Data Exchange Formats Interoperability Standards Interoperability, Software Interoperability, Telecommunications Systems Architecture Health Monitoring Systems Systems Test Fire Detection Systems System Repair Technologies Electro-Magnetic Compatibility Electro-Magnetic Compatibility Analysing & Modelling In-Service Data Capture Systems Integrated Systems Testing Integrated Systems Evaluation Middleware Systems, Applications
Communications and CIS-related Technologies	Communications Systems – below micro & mm wave Communications Systems – micro-& millimetre wave Communications Technology – IR/Visible/UV Communications Technology – Acoustic Communications & CIS Security Systems Comms & Information System Integration Comms & Information System

FATS/3 Broad Capability Area	FATS/3 Narrow Capability Area
	Vulnerability Non co-operative Target Recognition Geographic Information Systems Optimisation, Planning & Decision Support Systems Infrastructure to Support Info Management & Dissemination Network Management Systems Communications Networks & Services
Manufacturing Processes/Design Tools/Techniques	Design for Improved Manufacturability, Reliability & Maintainability Cost Engineering Cost Modelling Concurrent Engineering & Reduced Design Cycle Advanced Prototyping & Rapid Manufacture Lean Manufacturing Knowledge Based Engineering
Defence Analysis	Policy, Force Development Balance of Investment Combined Operational Effectiveness & Investment Appraisals Scenario Generation Tactical Development & Support to Operations & Training Other Effectiveness & Performance Studies Military Doctrine Analysis War gaming & Combat Simulation
Integrated Platforms	Undersea Platforms Unmanned L/Sea Vehicles Communications Satellites Surveillance & Navigation Satellites Fighting Sea Surface Platforms
Installations and Facilities	Ground Stations Battlefield Engineering T&E Facilities
Battlespace Information	Information Infrastructure Digitisation of the Battlespace ISTAR Military Intelligence
Business Processes	Requirements Capture Requirements Engineering Requirements, Business Requirements, User Requirements, Functional Concepts Product Definition

FATS/3 Broad Capability Area	FATS/3 Narrow Capability Area
	Business Case Support Product Supportability Contractor Logistic Support Whole Life Cycle Improvement Whole Life Cycle Improvement Support Contractor Analysis Procurement Analysis Whole Life Cycle Cost Change Management - Business Change Management - Engineering Business Process Simulation Best Practice Lean Enterprise Models Options Analysis Procurement & Contracting Processes, Pre-award Activities Procurement & Contracting Processes, Post-award Activities
Project Management and Acquisition Support functions	Logistics Logistics, Storage Logistics, Transport Risk Management, Project Risk Management Tools Risk Assessment, Fire Risk, Business Risk Consultancy Through Life Management Surveillance Quality Assurance Procedures Quality Assurance Assessments Technical Assurance Support Technology Assessment & Analysis Reliability & Maintainability Reliability & Maintainability Support Reliability Centred Maintenance Parts Management Technical Authoring Activities Technical Illustration Technical Documents, Verification & Validation Technical Documents, Support Graphics, Design Graphics, Support Inspection & Testing Environmental Testing Test Specifications Integration In Service Support Solutions In Service Support, Spares

FATS/3 Broad Capability Area	FATS/3 Narrow Capability Area
	Benefits Analysis Equipment Disposal Planning Scheduling Programme Management Earned Value Management Control Techniques
Obsolescence Management	Obsolescence Equipment Health Check Obsolescence Component Monitoring Obsolescence Programme Review Obsolescence Impact Appraisal Obsolescence Part Source of Supply Obsolescence Alternative Solution Provision Obsolescence System Sustainability Audit
Global Info Systems (GIS) Strategic & Tech Consultancy	Geospatial Data, Evaluation, Analysis & Management GIS Application & Software Development Geospatial Web Services
Through Life Support	Integrated Logistics Support Management. Logistic Support Analysis Management Availability, Reliability & Maintainability Management Technical Information Management Training Management IT Service Management Obsolescence Management Test Equipment Management Disposal Management Human Factor Integration Management Packaging, Handling & Transport Management Integrated Supply Support Management
Human Factors Integration	People in Systems - Requirements Specification People in Systems - Recruitment & selection People in Systems - Systems introduction People in Systems - Safety hazard analysis People in Systems - Safety Case People Characteristics Operations Job Design, Task Analysis, Function Allocation Training - Individual & Team Training

FATS/3 Broad Capability Area	FATS/3 Narrow Capability Area
	Training - Education Solutions
	Training - Development & Support
	Training - Collective Training
	Training & Education
	Displays, Controls, Human Machine Interfaces
	Clothing, Personal Protective Equipment
	Physical Protection Systems – Threat
	Integration Processes