Agile Development

G-Cloud 15

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About this service

BMT provide an agile software development service, often adopting the Government Digital Service (GDS) agile methodology (and scaled frameworks including SAFe) for software design and delivery. We are highly experienced in utilising Scrum and Kanban approaches. Our service includes user research and user experience and interface design (UI/UX), DevOps practises such as automated continuous integration and delivery, and test automation.

When to use this service

Agile software development continually delivers a usable outcome that closely matches the requirements of that time; therefore, it suits:

- Responding to changing requirements or knowledge gained about the problem being solved
- Continual and early delivery of value
- Continual stakeholder involvement in decision making
- Transparency to stakeholders
- Risk mitigation of a single large deliverable with many small releases
- Problem solving with a collaborating cross-functional team

What we deliver

- User-centric approach including user research & user journey mapping
- User experience (UX) and user interface (UI) design
- User workshops, storyboarding & wireframing
- Agile software design & development
- DevOps, Continuous Integration (CI) & Continuous Delivery (CD) automation pipelines
- System testing, load testing and performance testing
- Database design & development
- Data interchange Application Programming Interface (API) design & development
- Web site Content Management System (CMS) implementation
- Agile coaching

What benefits we provide

- Responsiveness to change – better matches outcomes to current real need
- Early business benefit – continuous delivery of prioritised work
- Reduced risk – early visibility of functionality and continuous/regular engagement
- Increased quality – continuous quality review of incremental changes

- End-to-end solutions/services – from discovery to cloud hosting, support and maintenance
- Reduction of business process effort, resources and timescales
- Reduction of ongoing costs for our clients
- Informed decision making – exploitation and usage of process information
- Technology-agnostic – select preferred or best suited technologies
- Knowledge and skills transfer – with technical and usage training

How we deliver this service

BMT provide an agile software development service which can implement Scrum or Kanban frameworks. The methodology is chosen with the customer by considering their requirements, preferences and size and scale of the project. In either case we adopt an iterative process to software development whereby the customer is asked to continually assess and provide feedback on the latest developments at every stage throughout the project lifecycle.

Customer requirements are analysed and translated into a product backlog of features and user stories for implementation. In Scrum we break the work down into short sprints (typically of two-week duration) and hold sprint planning and review meetings at the start and end of each sprint. In Kanban we continuously plan and review work using customer-centric or functional milestones as review time boundaries. We seek to involve the customer in the agile process as much as possible. Typically, we ensure a customer takes on the Product Owner role, for which we can provide coaching.

We adopt modern software development practices such as test automation and automated continuous integration and delivery (CI/CD) on projects to ensure a high level of quality is applied throughout the development cycle.

BMT can host and provide User Working Groups to help elicit requirements and requirement amendments and gain further feedback to feed into the agile process.

For all web-based software development projects BMT provides secure, on-line application development demonstrations (via a secure web URL) to enable customers to securely continually review current development progress and ensure feedback can be provided as frequently as possible. This method is effective and complementary to regular face-to-face meetings.

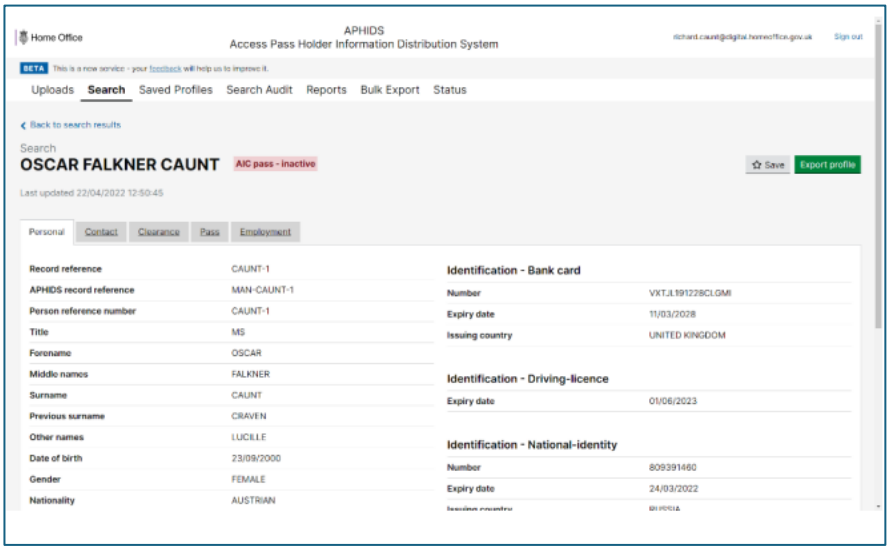
BMT's agile development approach is incremental and closely aligns a software solution outcome with the customers' continuously changing needs. This ensures a much higher probability of project delivery success, lessens the level of project risk compared to fixed requirements and can demonstrably deliver business value more quickly with incremental deliveries, if desirable.

Our agile service ensures a process of continuous product improvement through regular stakeholder feedback.

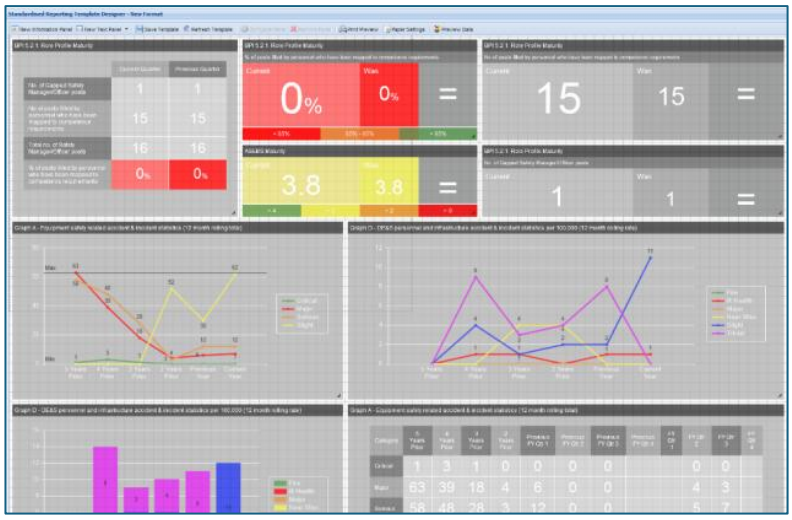
Experience

Our experience includes the full end-to-end delivery of the following projects:

- **APHIDS -** BMT have been working under the Home Office Accelerated Capability Environment (ACE) to create a central database of people who hold, or are applying for, passes to grant them airside access in UK airports. APHIDS will enable the process of more stringent and regular repeated Accreditation Checks (AC) as required by EU and UK legislation.



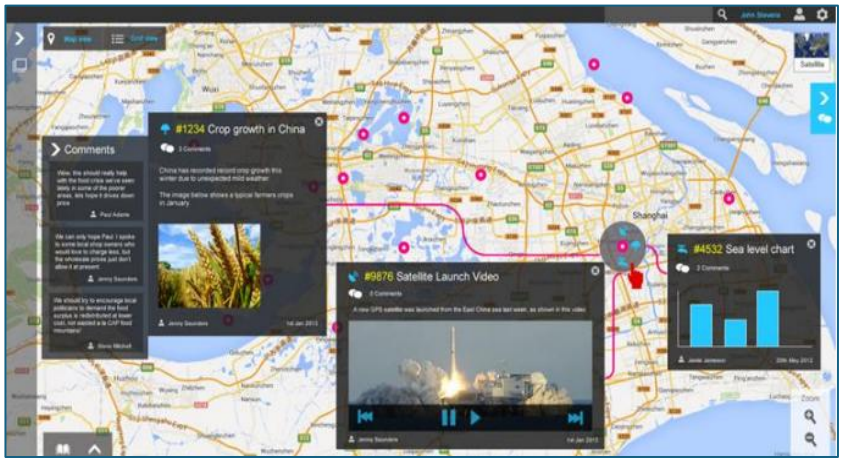
- **ASSERT** - BMT designed, developed and currently host and support a safety and environmental performance reporting tool used and mandated by all UK MOD Defence Equipment & Support (DE&S) and Information Systems & Services (ISS) Operating Centres and Teams. In addition, we provide a number of bespoke application modules for the Defence Safety Authority (DSA)



- **StanMIS -** BMT won competitive tenders to develop, and then further enhance an on-line Through Life Standardization Management Toolset to improve the DE&S approach to standardisation management and the process for identification, selection and production of standards to meet UK MOD capability. In addition to the core system hosted on the MOD RLI, we have also provided a publicly accessible, cloud-hosted version on the Internet – accessed via the Defence Gateway. To support on-boarding of new users to the system we designed and developed a set of interactive, SCORM-compliant training modules – accessed from both the of the cloud-hosted systems

- **DE&S Management Information Systems (MIS) -** BMT have supported the UK MOD Defence Equipment and Support (DE&S) Chief Information Officer (CIO) Management Information Systems Team (MIST) with enhancing a number of key MOD software tools including the Corporate Management Information System (CMIS) and e-Solutions (a central system used throughout DE&S used for a variety of functions including event management and management of Government Procurement Card transactions). In addition, BMT have worked with CIO to produce an architecture to rationalise and integrate a large number of MOD Management Information Systems

- **Defence Human Capability Science & Technology Centre (DHCSTC)** - BMT have developed a web-based central database and dashboard portal (which incorporates a Google Maps interface) to enable effective aggregation, communication and sharing of information that is captured by Military Stabilisation Support Group (MSSG) staff in the field - in addition to a mobile, tablet-based application for MSSG staff out in the field to capture and retrieve information regarding local projects and organisations



- **Naval Authority System (NAS) -** For over 10 years, BMT have been further developing and hosting a web-based naval safety certification management tool

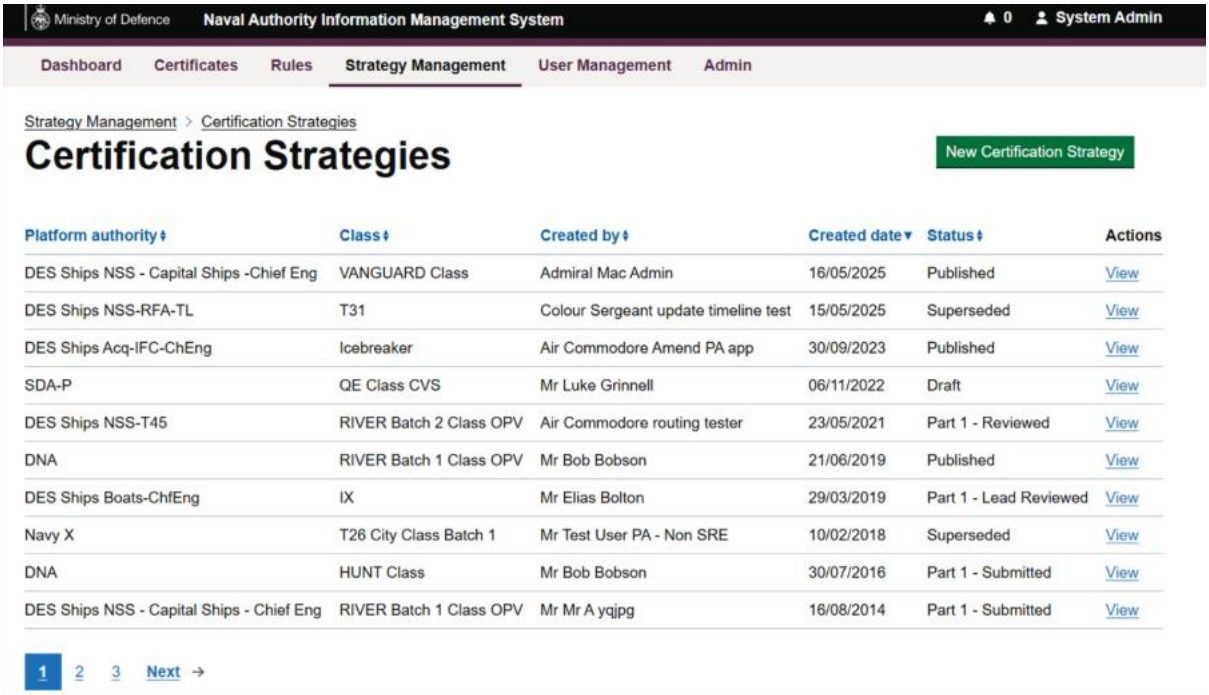
for the UK MOD. In addition, BMT provide the MOD Naval Authorities and Duty Holders with a knowledge management service - of which the NAS helps support

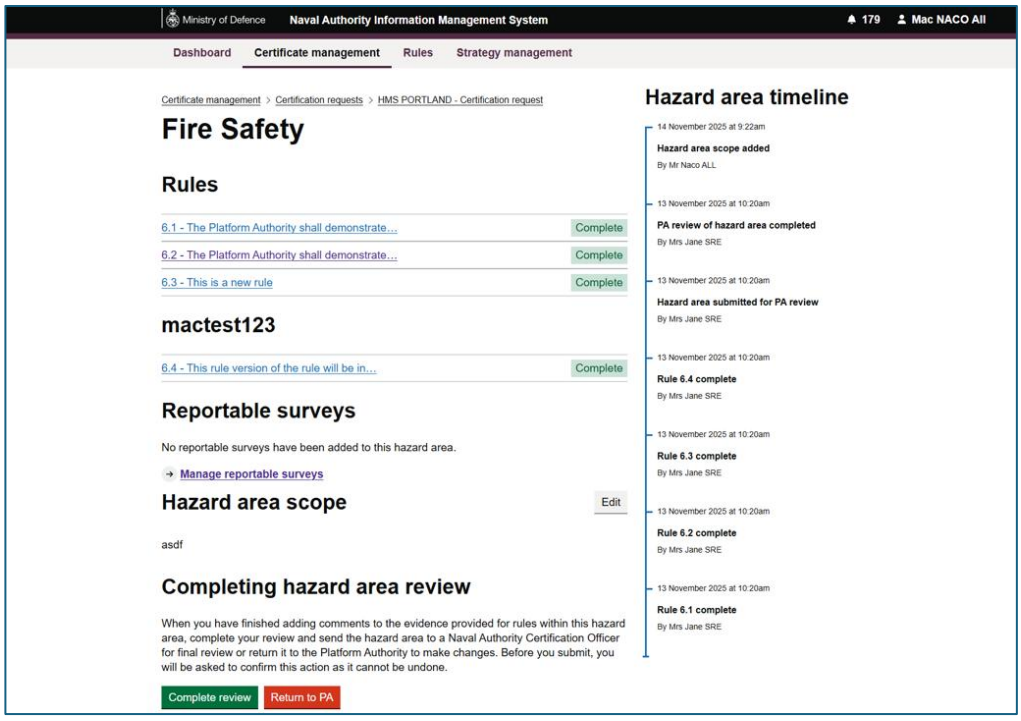
- **Naval Authority Information Management System (NAIMS)** is an web-browser-based platform that transforms how the Royal Navy manages Naval Authority information. By replacing manually maintained Word documents with an auditable and structured system, NAIMS streamlines certification requests and reviews, supports systematic certificate-strategy planning, and enforces rules management to safeguard fleet safety and operational readiness. Every change is tracked, and users can propose and manage rule updates directly, laying the foundation for future integration of naval regulations into a central database that feeds downstream systems.

  Our multi-skilled user experience designer guided the look and feel from end to end: conducting user research, crafting wireframes, building interactive prototypes, and running usability tests to refine each interaction for clarity and accessibility. Drawing on roles defined in the government service manual; content design, graphic design, accessibility, interface and interaction design, and service design.

  Our full-stack software developers handled DevOps, front-end, and back-end responsibilities, using version control to manage code, integrating external services, and fine-tuning performance and security. In parallel, our test engineers and test manager devised comprehensive plans covering every feature and scenario with both manual and automated cases, logging defects with precise reproduction steps and executing rigorous regression suites to uphold our quality standards.

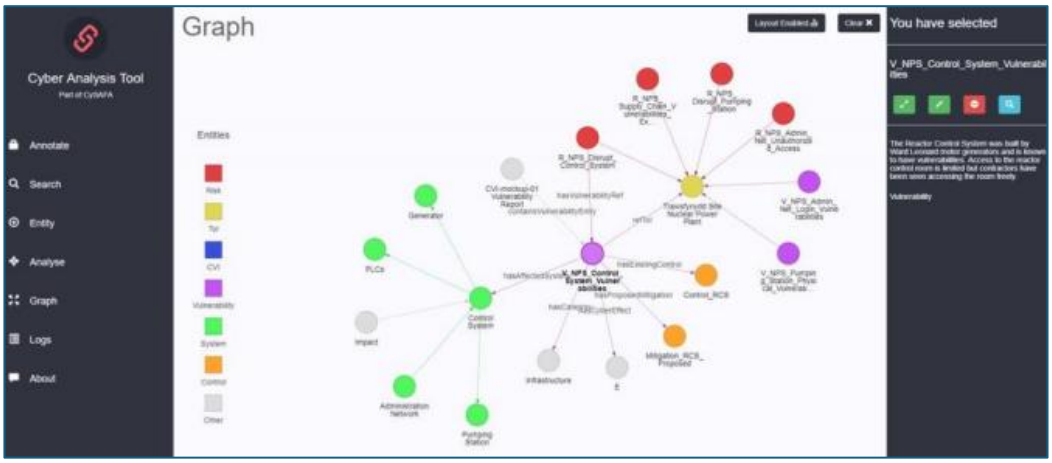
  Designed for a lifespan exceeding ten years, NAIMS scales effortlessly to accommodate growing user numbers and evolving technologies. It has already undergone successful Alpha and Beta reviews with the Cabinet Office and Government Digital Service, marking a significant milestone in the Royal Navy's digital transformation.





- **Joint User Mission Planning (JUMP) -** BMT have developed a system on behalf of the UK MOD to integrate cyber threat analysis and mission planning with traditional land sea and air planning. We combine geographic intelligence integrated with Intelligence, Surveillance & Reconnaissance Systems and seamless linkage of physical terrain to cyber terrain. JUMP allows the cyber analyst to understand cyber assets within the wider context of the mission. https://www.youtube.com/watch?v=AcjucKPe7TA&feature=youtu.be

- **Maritime Assurance Support Tool (MAST)** is a browser-based application designed to manage ship interior and exterior surface material surveys. Developed in close collaboration with customers, it has been built from the ground up incorporating extensive user experience (UX) processes along with modern design and accessibility practices. Regular user feedback has been crucial to the tool's incremental improvements, resulting in the development and implementation of new functionality and optimisation. An iOS mobile app is currently under development to facilitate on-location surveys, further extending the tool's capabilities.
- **Cyber Intelligence Analysis -** BMT have developed systems to query semantic rules that are been automatically extracted from unstructured text (e.g. case intelligence reports). We have produced a web application that ingests entity and relationships outputs into an RDF Triplestore (Blazegraph). We also developed a web application with REST API to allow the user to discover and search the entities and relationships. BMT tested the tool by processing a portion of Wikipedia using Baleen. In addition, we have further expanded the system for Cyber Vulnerability Investigation (CVI) processing and analysis



- **Red Alert** - BMT collaborated to design and develop a system which combines autonomous UAVs (such as Blue Bear's RISER) with modern web technologies to produce a real-time and portable solution that delivers information to emergency responders. UAVs collect aerial imagery (including high fidelity point clouds) to build a detailed 2D and 3D view of a scene and responders can use our system to bound and annotate areas within the aerial imagery using Civil Protection Common Map Symbology. The toolset is highly flexible and can be used for disaster response, incident investigation and counter terrorism.
  https://www.youtube.com/watch?v=hhfzJW3-dg0

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