PRODUCT SHEET

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TRANSFORMING DATA INTO ACTION THROUGH ADVANCED MODELLING AND SITUATIONAL AWARENESS

UrbanAware is a next generation simulation and modelling software for chemical, biological and radiological threats designed to support a wide range of operational needs — from emergency planning to disaster response and defence operations. Providing advanced incident modelling, information and data fusion and hazard forecasting capabilities, UrbanAware helps users to plan, prepare and respond to CBRNE and Hazmat incidents.

KEY BENEFITS:

- Ease of use
- Flexible deployment
- Informed decision-making
- Increased efficiency
- Interoperability
- Cost effective

Optimise real-time decision making with superior situational awareness

UrbanAware offers a highly adaptable deployment strategy, designed to harness the most recent innovations in cloud computing and Modelling and Simulation as a Service (MSaaS). This flexibility allows the system to be easily tailored to diverse operational environments and requirements. With the capability to ingest, process, and display a broad spectrum of data feeds, UrbanAware integrates information from multiple sources, including space-based data, to provide comprehensive situational awareness. The system automates the acquisition, integration, and updating of these data feeds, reducing manual intervention, and increasing efficiency.

By incorporating a wide range of data inputs, such as CBRNE (Chemical, Biological, Radiological, Nuclear, and Explosive) sensors and other critical information sources, UrbanAware delivers real-time situational awareness and robust analysis. This dynamic capability empowers decision-makers with the necessary insights to respond swiftly and accurately to emerging situations. UrbanAware's ability to handle complex data streams ensures that users can quickly process vast amounts of information, transforming raw data into actionable intelligence.

> **UrbanAware enables organisations to maintain continuous, up-to-date understanding of their environment, providing the analytical tools needed to navigate complex scenarios with confidence.**

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Comprehensive support for every stage of the incident lifecycle

This comprehensive and adaptable intelligence solution offers a broad range of applications within the defence and security sectors, making it a valuable asset in various operational contexts. Its powerful capabilities provide end-to-end support throughout the entire incident lifecycle, addressing everything from early-stage training and simulation exercises to the formulation and implementation of sophisticated emergency response strategies. By supporting every phase of this process, the solution enhances preparedness, responsiveness, and effectiveness in handling incidents.

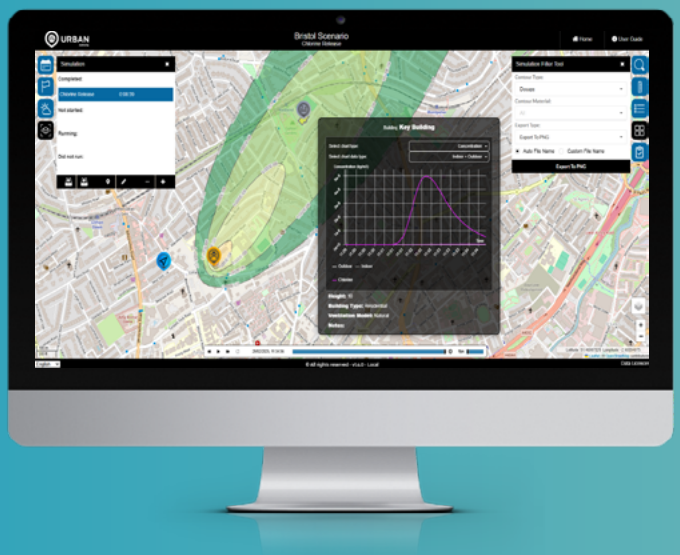
One of its key strengths lies in its design, specifically tailored for use in complex and densely populated urban environments. These environments often present unique challenges, such as high population density, intricate infrastructure, and unpredictable variables, all of which require advanced intelligence solutions to navigate successfully. The solution is built to manage and analyse the vast amounts of data generated in such settings, ensuring that decision-makers have access to real-time, actionable insights. This not only improves the coordination of response efforts but also helps mitigate risks and minimise the impact of incidents.

Example scenarios:

- Analysing evacuation route plans
- Modelling the spread of an airborne threat
- Training response teams on simulated situations
- Optimising sensor placement for advanced warning
- Determining optimal cordon areas based on predicted hazards
- Estimating casualties and human impacts in a population

KEY FEATURES:

- Underpinned by Dstl's* HASP Suite CBRN hazard modelling capabilities
- Incident management tools to aid response planning
- Indoor and outdoor dispersion forecasting
- Key asset identification and tracking
- Evacuation route planning
- Dynamic population density for accurate casualty estimates
- High-resolution satellite imagery to improve situational awareness



* Defence Science Technology Laboratory (Dstl) — a UK Ministry of Defence Executive agency

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If you would like to know more about UrbanAware and how we help make the world a safer place, you can get in touch at:

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