

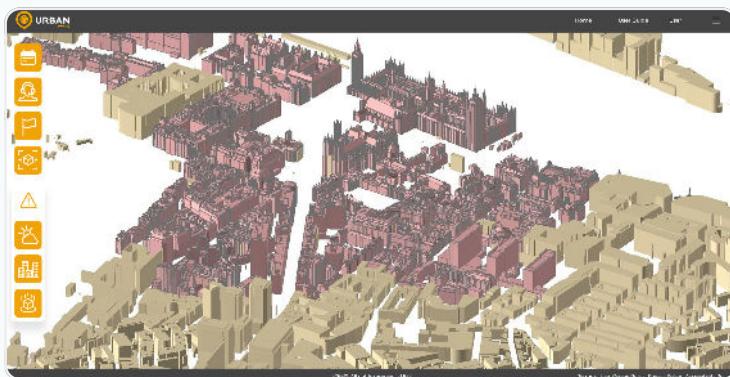


UrbanAware | CBRNE defence and urban security

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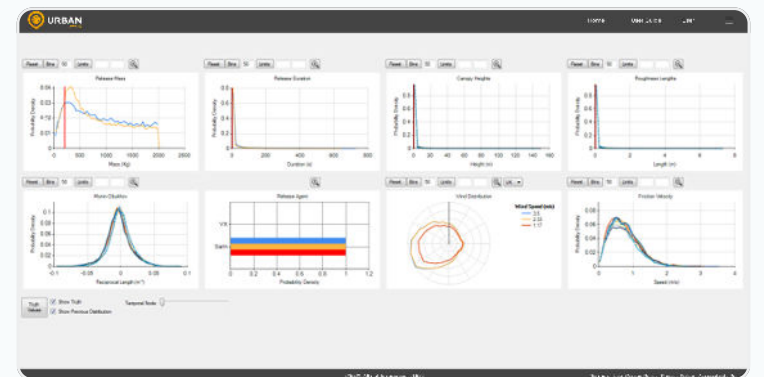
PRODUCT SCREENSHOTS



Indoor and outdoor dispersion forecasting



Hazard prediction on satellite imagery



Sensitivity analysis across hazard scenarios

UrbanAware helps stakeholders to develop more effective response processes in the context of urban CBRN and HazMat incidents.

Key features

UrbanAware leverages the latest developments in cloud computing and Modelling and Simulation as a Service (MSaaS). It uses space-based data assets, providing automated acquisition, integration and updates for the input of data streams.

- › Underpinned by Dstl's HASP Suite CBRN hazard modelling capabilities
- › Automated cordon placement advice based on predicted hazard effects
- › 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

Product overview

Optimise real-time decision making with superior situational awareness. UrbanAware is a next-generation CBRN Information Management (IM) tool for the military, first responders, and local government.

Its aim is to provide lifesaving situational awareness and decision support in the context of urban CBRN and HazMat incidents, helping stakeholders to develop more effective response processes.

UrbanAware provides users with intelligent dispersion modelling, information fusion and hazard forecasting to optimise real-time decision making. The system is designed to be accessed by multiple teams across different agencies, resulting in more integrated and optimised strategies for incident response.

UrbanAware is also highly applicable to commercial users, particularly for organisations concerned with risk management or insurance. With access to this system, organisations can better plan mitigation strategies for their business population.

Benefits

- › Flexible and cost-effective subscriptions to fit specific user needs
- › Secure cloud hosting and local installation options
- › Decision support on both desktop and mobile apps
- › Interoperability with existing GIS systems, external contaminant detection systems and health monitoring systems
- › Enhanced collaboration between key stakeholders
- › Rapid deployment with near global coverage
- › Seamless delivery and deployment
- › NATO ATP-45 template calculation and CBRN 2 / CBRN 3 message handling, with TAK server and ATAK integration

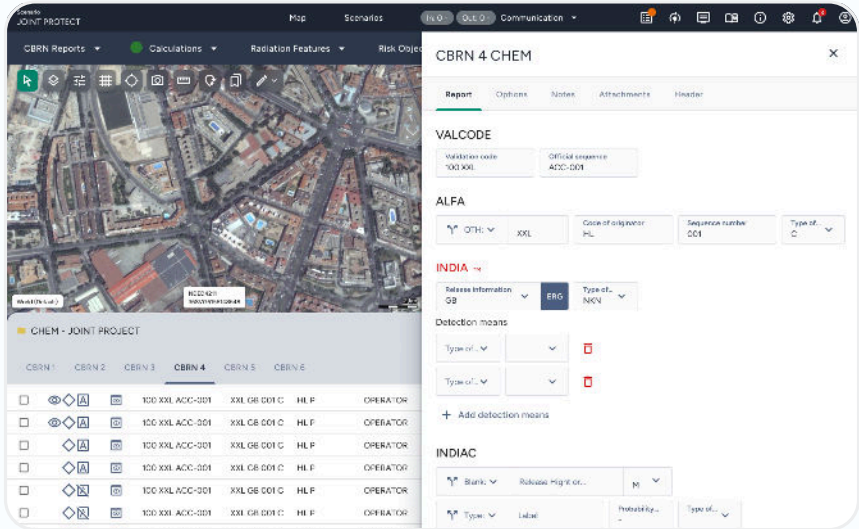
Credentials

UrbanAware is developed in conjunction with key industry stakeholders – including the UK Defence Science and Technology Laboratory (Dstl), the European Space Agency, 4 Earth Intelligence, Thales Alenia Space and Ploughshare Innovations – to address major industrial accidents and incidents of terrorism.

Providing risk management stakeholders with trusted, effective, and accessible tools, the platform will significantly improve situational awareness for better response and mitigation strategies.

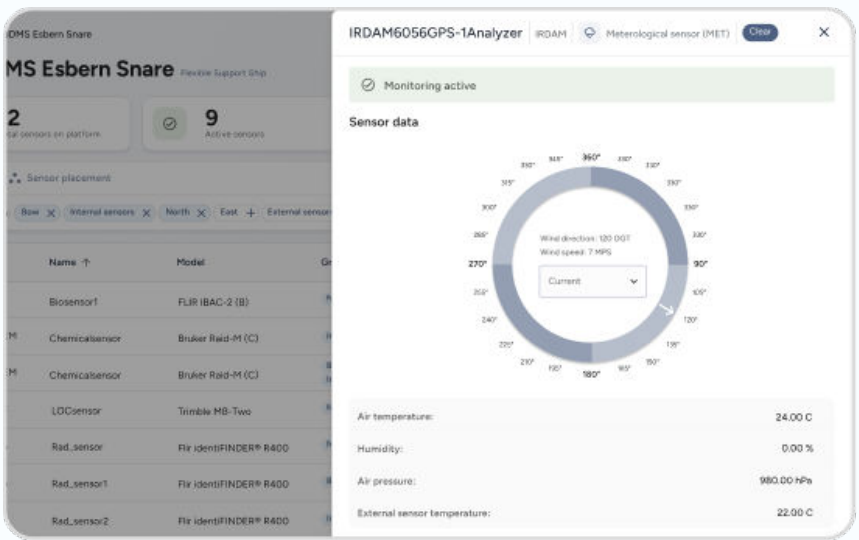
Alongside end users, several use cases were developed for application to possible real-world incidents. UrbanAware supports these use cases providing the required situational awareness tools. The software is trialled with end users and continually refined to provide state-of-the-art capabilities.

Related products



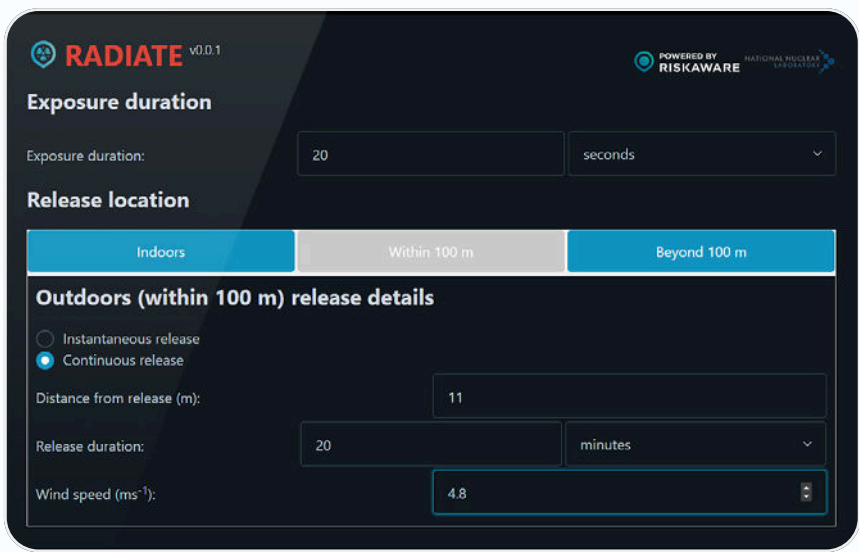
CBRN-Analys NG

- CBRN-Analys is an advanced, off-the-shelf software-based CBRN Knowledge Management Application that includes Hazard Prediction and Warning and Reporting.
- Configurable and modular, it provides commanders with rapid and accurate information to increase their CBRN situational awareness within an area where CBRN materials may be used.
- CBRN-Analys effectively supports and enhances risk-management in all phases of an operation, both in the planning and pre-deployment phase, in-theatre and in the post-conflict or recovery phase.



SCIM®

- SCIM® stands for “Sensor Connectivity Information Management” and is a software hub that provides sensor connectivity to multiple sensor types and brands in a single and effective display.
- The system allows collection of sensor data and formatting of that data into standard CBRN messaging for further dissemination via built-in communication applications. The software enables the capture of sensor data that can then be transmitted for further investigation. SCIM® is futureproofed as it allows any sensor or instrument to be replaced or added as technology advances.



RADIATE

- Riskaware works with the UK National Nuclear Laboratory (UKNNL) to modernise legacy nuclear safety case modelling capabilities. RADIATE is a nuclear safety case toolbox providing an up-to-date framework to inform decision-making for multiple safety cases.
- With nuclear energy and the use of co-generation sites set to play a key role in addressing climate change, we need to consider how the proximity of nuclear plants to other energy production sites will impact the risk environment. As a result, there is a greater need for combined radiological and chemical hazard analysis in modern safety cases. Moreover, for advanced, reliable, and validated tools to facilitate such analysis.

More information can be found at: www.bruhn-newtech.com.

