HEXAGON
GEOSPATIAL

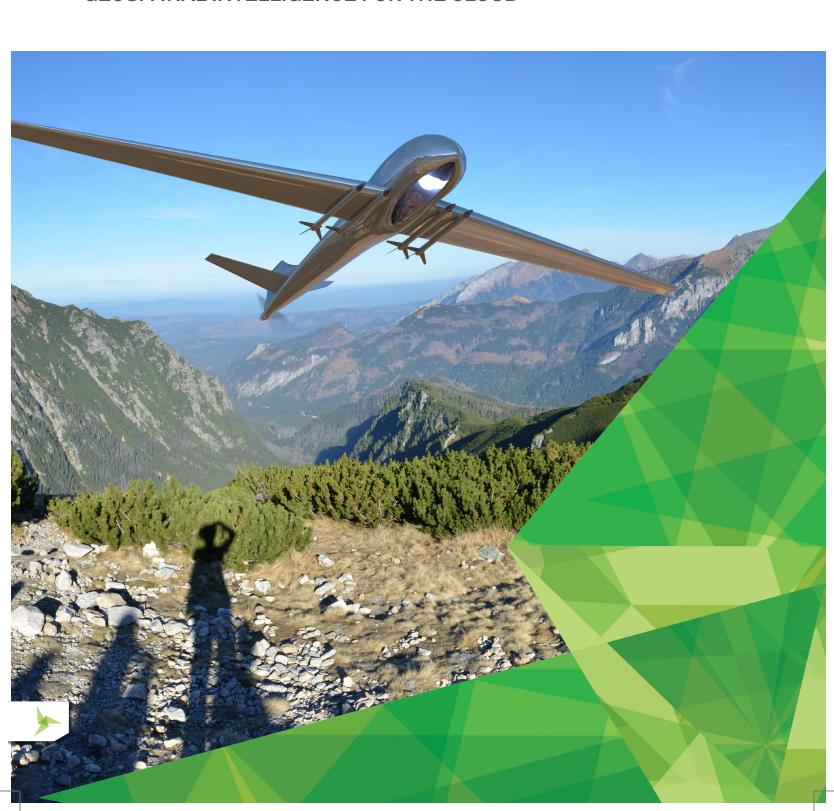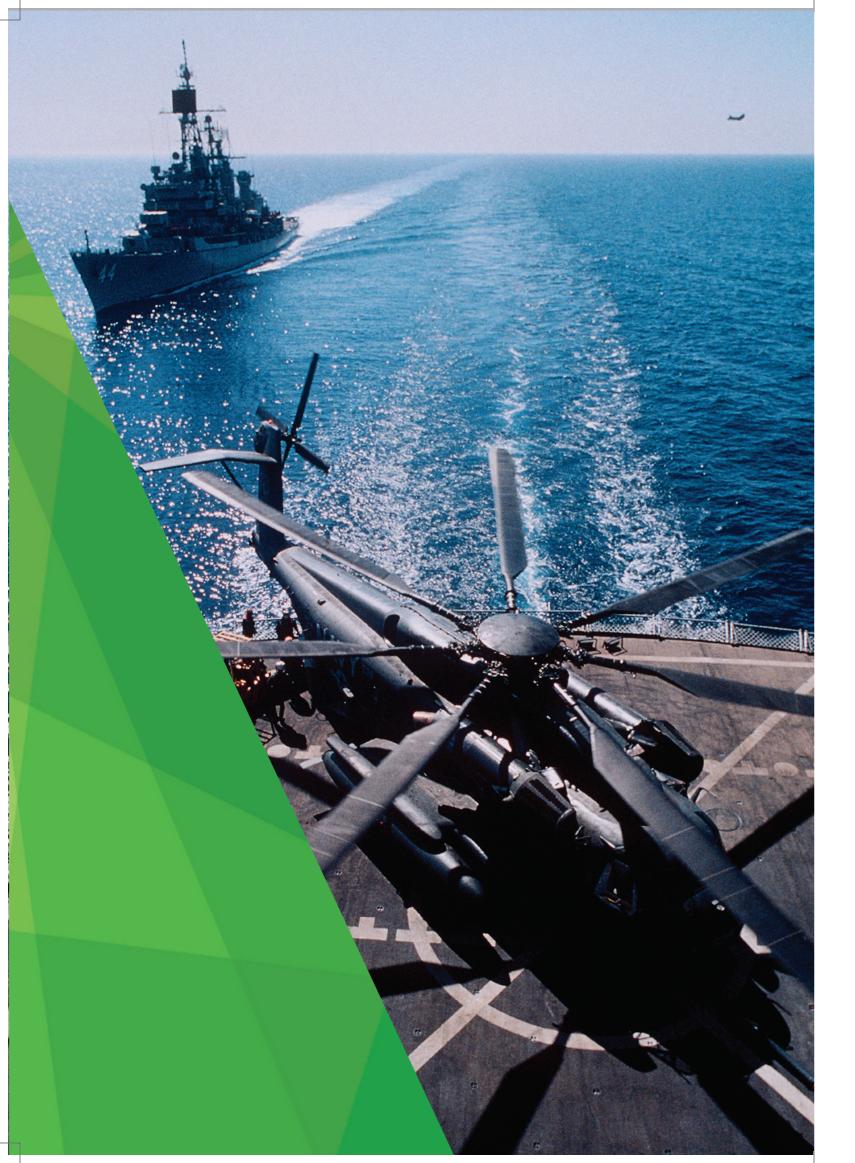# M.APP X®

GEOSPATIAL INTELLIGENCE FOR THE CLOUD

M.App X

Defense & Intelligence agencies are faced with many challenges, such as producing and managing geospatial intelligence in the face of escalating global tensions, changing nature of threats, and limited capacity.

Providing near real-time actionable information is paramount, but the traditional desktop workstation model for analysts typically means that maps are outdated by the time they are disseminated to mobile units and decision makers.

Also, how can agencies efficiently collect, organize, process, and archive massive amounts of disparate data such as images, terrains, annotations, feature sets, and stereo pairs?

These agencies grapple with all of this while contending with limited budgets for software, hardware, and licensing needs.

The traditional workstation model is saddled with problems, the largest being the inability to keep up with constantly changing intelligence, which means maps are always out-of-date. In addition, traditional desktop-based approaches often mean massive hardware and licensing expenses, and time-consuming software and hardware administrative management.

M.App X® is an enterprise solution that fosters geospatial tradecraft creation, common usage and secure sharing of the latest intel, ultimately making the latest information accessible and reusable. Built on decades of experience in providing image analysis capabilities, M.App X contains industry-specific tools and workflows for the GEOINT community and security organizations.

WHAT MAKES M.APP X UNIQUE?

Hexagon Geospatial's spatial modeling architecture is the foundation of M.App X. A revolutionary approach to visual programming, spatial modeling provides near-immediate feedback and previews for analyzing spatial data while taking location into account. M.App X enables analysts to graphically model raster, vector, and point cloud processing workflows to create automated processes that can be executed rapidly and securely, delivering integrated information products that ensure the right individuals can make timely decisions.

Capturing geospatial tradecraft and sharing it as dynamic services across the enterprise is easy in M.App X. Image exploitation processes are performed on the M.App X server and displayed to the end user in a rich web-based client application, eliminating the costs and upkeep of multiple individually powerful comput workstations in which each must process data.

The solution can be hosted on the cloud or on-premis to meet security requirements.

TOP 5 REASONS TO CHOOSE M.APP TO DELIVER YOUR GEOINT

1. IMMEDIATE SAVINGS

Unified and centralized software management reduc administrative costs. Because M.App X's rich client is web-based, every analyst does not need an expensiv workstation, letting you stretch your hardware budge Licensing costs are also reduced, because M.App X provides all the core requirements in a single platform Because it is based on open standards, M.App X can, for example, process imagery, radar, point clouds, an features in a single environment rather than requiring licenses for multiple software packages.

Because M.App X is cloud-based, all analysts have access to the same version of software. Very little administrative management is required, because onl the server needs to be updated; no more updating individual workstations. This makes it easy to stay up date with the latest features.

2. FASTER RASTERS (AND VECTORS)

M.App X's unique spatial data modeling environment provides near-immediate feedback and previews so y can analyze and geo-fuse data and events in real tim provide actionable intelligence.

Using the most advanced web technologies, the M.App X environment delivers desktop-like performance, quickly updating your view and dynamic experience with real-life visualizations.

3. CUSTOMIZE YOUR EXPERIENCE

The geoprocessing environment is also extensible, letting domain experts plug in their best-practice capabilities within a common user experience.

Software providers, even third parties, can use open standards to deliver new capabilities to a cloud-based platform in a timely fashion.

4. EFFICIENT USE OF SYSTEM RESOURCES

This cloud-based technology helps Defense agencies

NOTEWORTHY FEATURES

- **Apply Enhancements to Imagery on the Fly** – With dynamic imagery adjustment, you can immediately make your imagery more interpretable. Enhancements include band selection, adjusting resampling methods, brightness, contrast, and color balance using an interactive histogram. Use image processing chains that meet the United States National Geospatial-Intelligence Agency (NGA) SIPS (Softcopy Image Processing Standard) specifications.

- **Precise Mensuration** – Precise positioning is critical to accurate intelligence. Measure position, height, bearing, angle, polygon area, perimeter, and more using rigorous sensor models that incorporate precise elevation and sensor position information.

- **Up-to-Date Feature Repository** – Keep your centralized geospatial data repository current so everyone in the organization has the latest information. Create, replace, update, and delete features using the enhanced transactional Web Feature Service (WFS-T). Collect in 2D or 3D coordinates and edit feature attributes.

- **Smart Data Management** – Collect your working data in one place and easily share it with colleagues. Using "Shoebox" lists of all the working data associated with your open project or projects, you can organize data such as images, terrains, annotations, feature sets, stereo pairs, and documents. Use multiple Shoeboxes to organize data any way you want.

- **Concentrate on Specifics using Map Layers** – Identify features that have changed over time by grouping features into separate layers and adding those layers to your maps. You can turn layers on or off as needed, swipe layers away from others, or change the transparency of a layer to see the layer beneath.

- **Easy to Understand Maps and Reports** – Make your maps and reports more illustrative and interpretable using a rich styling library of symbols, lines, brushes, polygons, and text to identify features. Annotation positions are reported and stored in map space to facilitate overlay on other imagery.

> M.App X includes the top features that users of geospatial data require for viewing, analyzing, and reporting geospatial information. It offers simplified data access, defense workflows, and on-premises (private cloud) or public cloud hosting to provide centralized storage and computation."

ABOUT HEXAGON GEOSPATIAL

Hexagon Geospatial helps you make sense of the dynamically changing world. Known globally as a maker of leading-edge technology, we enable our customers to easily transform their data into actionable information, shortening the lifecycle from the moment of change to action. Hexagon Geospatial provides the software products and platforms to a large variety of customers through direct sales, channel partners, and Hexagon businesses. For more information, visit hexagongeospatial.com or contact us at marketing@hexagongeospatial.com.

Geospatial is part of Hexagon, a leading global provider of information technologies that drive productivity and quality across geospatial and industrial enterprise applications. Hexagon's solutions integrate sensors, software, domain knowledge and customer workflows into intelligent information ecosystems that deliver actionable information. They are used in a broad range of vital industries. Hexagon (Nasdaq Stockholm: HEXA B) has more than 18,000 employees in 50 countries and net sales of approximately 3.3bn USD.