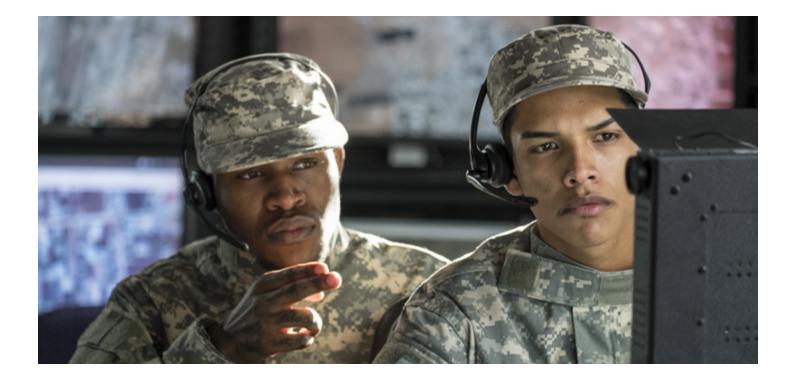**HEXAGON**

Strengthening Operation Planning for Nato Forces with Geospatial Data Visualization

Military leaders must make decisions quickly. They have lives at stake and depend on accurate information. NATO Field commanders have more confidence thanks to Luciad solutions. NATO employed LuciadLightspeed, and its Web Map Server (WMS) suite to create the tool iGeoSIT - short for interim Geo Spatial Intelligence Tool. iGeoSIT delivers a powerful Common Operating Picture (COP) solution that is easy to deploy.

Officers in the field access iGeoSIT with a standard Web browser and simple hardware. The solution works well with limited bandwidth. iGeoSIT gives officers a better handle on the situation they face in battle. And they are able to make decisions more quickly.

The Creation of iGeoSIT

While conflicts escalated in Kosovo, Bosnia and Afghanistan in the late 1990s, NATO military officers demanded more geographical information about the foreign lands in which they fought. The Geoteam at the NATO Communications and Information Agency's (NCI Agency) turned to Luciad for help in developing a real-time situational awareness solution.

The product requirements included:

• Quick turn-around from development to deployment

• Easy to learn in the field

• Inexpensive to launch

• Ability to handle multiple large data sets in various formats

• No problems visualizing a wide array of geographical references

• Simple process for overlaying important data for operational purposes.

Luciad's technology handles all of these requirements -merging geographical data from multiple sources stored in different formats. iGeoSIT then integrates the geo-data with the rest of the data available for a complete situational analysis. Field officers receive a Common Operating Picture (COP) that presents near real-time locations of their own troops, aircraft tracks, and maritime tracks all set against the core foundation mapping and imagery. This rich picture can also incorporate many other Standards-based services such as intelligence information and live incident updates from systems such as JOCWatch.

Analysts and operators use iGeoSIT to visualize terrain, nearby military outposts and obstacles facing troops on the ground. For example, if troops are involved in a traffic accident, their commander can look at critical information all in one place. He can plot the hazardous objects data, find the nearest medical facility and plan the best place to land a helicopter to rescue the injured. In the past, this work could only be done using paper maps and traditional plotting.

Another plus, iGeoSIT allows NATO commanders in different places to monitor military operations looking at the same live situation map.

What's Next?

Nearly two decades after its launch, iGeoSIT is more than ever the preferred common operational picture tool for NATO and many NATO member countries, and NATO is adding more data to its situational awareness reports all the time. Field officers, as well as humanitarian aid workers, now receive information about roads known to be planted with land mines. Coordination between aid workers and the military is critical. Thus, data about convoys of combat, transport and supply vehicles is included in reports. This helps commanders avoid traffic jams on winding mountain roads and more. Nearly two decades after its launch, iGeoSIT is still a powerful operational tool.

Luciad technology is scalable for any size project. With our long-term track record, we are perfect for decades-long projects like support of NATO troops. Learn how to partner with us by contacting a local Luciad representative. With offices around the globe, we are ready to roll up our sleeves and change the world with you.
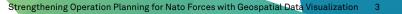
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HEXAGON

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's Geospatial division creates solutions that deliver a 5D smart digital reality with insight into what was, what is, what could be, what should be, and ultimately, what will be.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 4.3bn USD. Learn more at hexagon.com and follow us @HexagonAB.