Press release
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Xcalibur Smart Mapping and Dronamics partner to advance natural resources exploration

Madrid, Spain, and Sofia, Bulgaria - 16th June 2026 - Xcalibur Smart Mapping and Dronamics announce a partnership to develop an unmanned aerial geophysics solution for natural resource exploration over land and oceans. The resulting drone-enabled solution will integrate Xcalibur's airborne geophysical acquisition system for magnetometry and gravity with Dronamics' Black Swan unmanned aircraft platform.

The partnership recognizes the transformative potential of Dronamics' drone technology to provide higher operational efficiency and advance Xcalibur's aerial geophysics missions. The collaboration is aimed at expanding access to safer, high-quality airborne geophysics by enabling survey operations in areas currently inaccessible or deemed high-risk for conventional crewed aircraft, while maintaining the data integrity required for exploration decision-making.

The global airborne geophysical services market, valued at over USD 1.35 billion[1] in 2026 and expected to grow by up to 10% driven by the push for critical minerals, is a cornerstone of national sovereignty and economic resilience. The industry empowers nations and local communities to identify and secure their own reserves of natural resources, minerals, rare earths, freshwater, as well as maritime exploration, supporting energy security, economic development, and resource sovereignty. Xcalibur Smart Mapping's technology delivers state-of-the-art surface and subsurface exploration to map natural resources in a responsible way, with the Black Swan's fuel efficiency further reducing the carbon footprint. Xcalibur's airborne acquisition system integrates survey planning, instrument control, positioning and timing, and quality-control workflows to support consistent data capture. Airborne magnetic and gravity surveys are essential tools, enabling cost-effective mapping of subsurface geology and helping to pinpoint areas of resource potential from the air.

Dronamics' UAV technology can significantly improve outcomes by reducing risk to crews and improving efficiencies, such as cost-per-flight, footprint and mission frequency. Its long-range drone platform, the Black Swan, has superior payload capabilities, enabling it to carry the industry-leading sensor payloads and data acquisition systems developed by Xcalibur.

[1] Global Airborne Geophysical Services Market (2026): https://www.businessresearchinsights.com/market-reports/airborne-geophysical-service-market-120185

Xcalibur and Dronamics are planning a demonstration of their joint unmanned airborne geophysics solution, showcasing system performance, data quality, and operational efficiency for mineral exploration and regional geoscience applications. The demo will combine Xcalibur's survey and sensor integration expertise with Dronamics' long-range, heavy-payload drone capabilities. The companies are scoping projects in several regions worldwide, enabling higher-quality, safer, and faster surveying and mapping in the global airborne geophysics market and expanding it to currently inaccessible and remote regions.

"Unmanned aerial vehicles are rapidly increasing in sophistication and capability, and Xcalibur is well positioned to take advantage of these developments. The Black Swan offers an opportunity to completely eliminate the risk to our aircrew in survey areas currently considered too hazardous for manned operations such as offshore surveying or extremely mountainous areas" says Teo Hage, VP of Operations at, Xcalibur Smart Mapping.

"Our Black Swan aircraft is a multi-role platform that fits the need of the airborne geophysics market for long-range, heavy-payload drones. Xcalibur is the a global leader in airborne geophysics and our partnership builds on the strengths of each company to create a transformational solution for a market that is crucial for national sovereignty and resilience. Nations with a clear understanding of their natural resource base hold a decisive advantage in securing their future. Together with Xcalibur, we deliver the solutions that make this possible," says Svilen Rangelov, Co-Founder and CEO, Dronamics.

Next steps

Xcalibur Smart Mapping and Dronamics will run an initial trial program, expected in late 2026, with results to inform future commercial deployment options for selected regions and survey types. Organisations interested in participating in follow-on evaluations or discussing project requirements can contact Xcalibur Smart Mapping using the details below.

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About Xcalibur Smart Mapping

Xcalibur Smart Mapping is a global leader in airborne geophysics and remote sensing, providing advanced survey solutions and data services to support mineral exploration and geoscience programs worldwide. The company delivers integrated acquisition and processing workflows across a range of airborne methods, combining decades of expertise with proprietary technology, satellite imagery, and LiDAR.

With a strong focus on safety, data quality, and operational efficiency, Xcalibur Smart Mapping leverages evidence-based approaches across data acquisition, management, and interpretation, enhanced by Artificial Intelligence techniques tailored to different customer needs.

To learn more, visit www.xcaliburmp.com

About Dronamics

Dronamics is an aerospace company that designs, builds and operates unmanned aerial systems (UAS) for logistics, civil protection, defense and exploration. Its multi-role drone, the Black Swan, is engineered for low-cost, long-range autonomous missions to deliver, detect and defend. Payload-agnostic, the full-sized Black Swan has a cargo capacity of 350 kg and range of 2,500km, making it Europe's most versatile drone of its size. With its market leading endurance, range and payload, the Black Swan enables logistics, special missions and serves civilian, dual-use and defense applications, truly enabling the Whole Altitude Economy.

Learn more at: www.dronamics.com

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