

# IDS GeoRadar Unveils New Generation of Radar Technology



IDS GeoRadar, a leading provider of interferometric technology solutions and multi-frequency, multi-channel ground penetrating radar (GPR) worldwide, has launched IBIS-ArcSAR, a next-generation slope-monitoring radar system based on the new ArcSAR technology.

As the world's first 3D SAR radar, the new system IBIS-ArcSAR introduces a "technological revolution" to support critical decisions and ensure the highest safety standards in the mining industry. According to Niccolò Coli, manager of the IDS GeoRadar mining business unit IBIS-ArcSAR is a game-changing radar designed around robustness and performance to ensure the highest safety standards and manage risk conditions with confidence. IBIS-ArcSAR delivers flexibility and performance to support

geotechnical engineers in critical decision-making, Coli added.

## Safety monitoring

IBIS-ArcSAR is among the first radars in the mining industry to provide 360° pit coverage from one single platform. The system leverages a range of 5,000 metres, and a short scan time (360° in 40 seconds; 180° in 20 seconds) as well as built-in GNSS for auto-geocoding. The system also features integrated panoramic HD camera providing real-time imagery of pit walls and immediate visualisation of critical areas.

Whether it is a strategic or tactical positioning, the radar's spatial resolution of 10 million pixels sets new standards for critical safety monitoring by covering the full scale of slope instabilities from sub-bench to broad wall movements even at long distances.

Integrating seamlessly into the Guardian FPM360 suite, IBIS-ArcSAR can dramatically expand overlap areas of multiple IBIS radars to exploit the unique TrueVector capabilities, delivering a rich geotechnical environment. One solution combines radar data, prism displacement and slow movement analysis into a single versatile platform without the need to invest in additional software.

To learn more about the IBIS-ArcSAR, [see here](https://www.gim-international.com/content/article/ids-georadar-unveils-new-generation-radar-technology).