



RockSpot provides **24/7 monitoring** and **immediate alerts** of rockfalls, avalanches and debris flow

IDS GeoRadar: Innovative Interferometric Radar for Mining, Environmental and Civil Engineering Applications

[www.idsgeoradar.com](http://www.idsgeoradar.com)

### TAKE SAFETY TO THE NEXT LEVEL

RockSpot is an innovative radar system able to **locate, track and alert on rockfalls, avalanches and debris flows in real time**. Enabling earlier warning, Rockfall significantly increases protection of lives and assets across various sites, taking safety to the next level.

This small yet powerful radar picks up tiny falling object at great distances long before the human eye can see them. RockSpot is the **first end-to-end solution able to trigger alerts on fast collapse events, filling the gap in critical monitoring both on cloud and on-premises**.

### REAL-TIME ALERTS

In real time, RockSpot provides **24/7** monitoring and immediate alerts of rockfalls, avalanches and debris movement to geotechs, working crews and all other users (e.g. skiers, drivers, etc.), enabling the **quickest and most informed decision making**. Depending on the requirements, RockSpot can be connected to on-site alarms, such as sirens, automatic road closures or other alert devices. For maximum effectiveness, all processing is performed on-site. Designed to withstand all weather conditions, its **simple and compact design** allows you to install the system everywhere, in fixed or mobile stations.

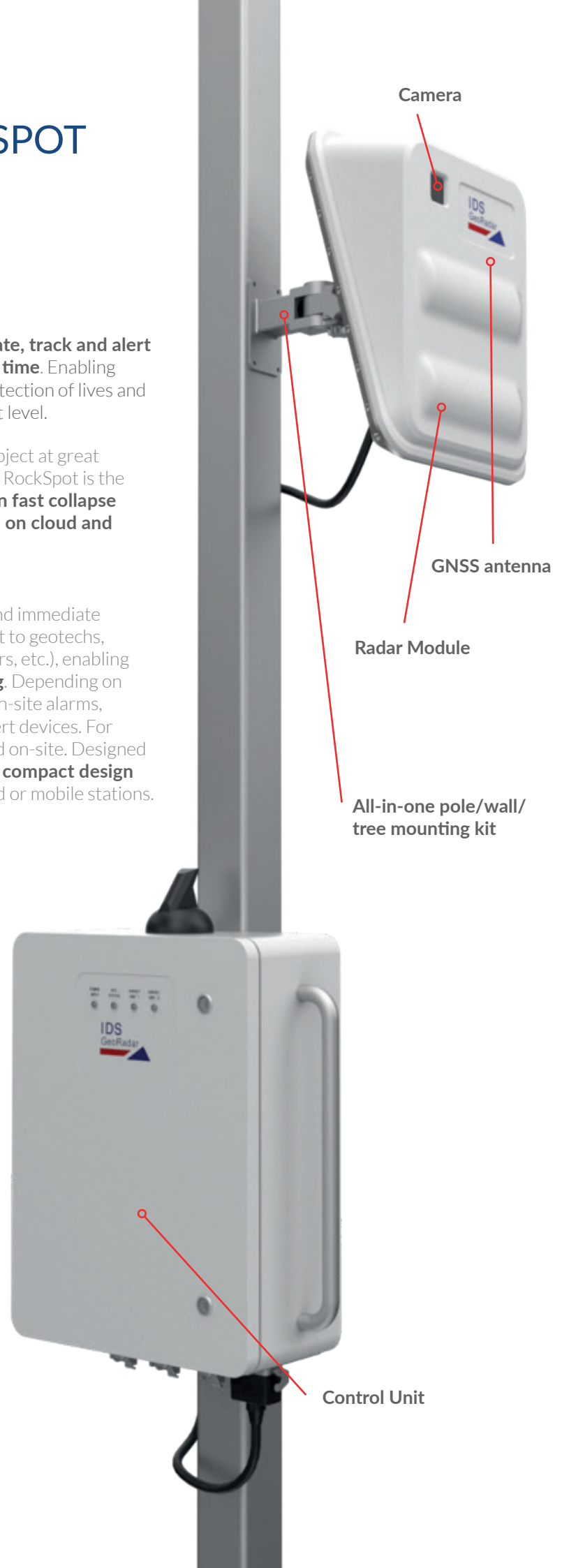
### ROCKFALL STATISTICS

Recording and georeferencing all detected events, RockSpot allows analysis to create **accurate risk assessments** and **zone maps**.

All information on each individual event are displayed and recorded in real time and stored in a **robust database** within the network. The radar can detect and record all important data, such as:

- line of sight velocity;
- travel path;
- runout distance;
- surface size of rockfall/avalanche/debris;
- time of detachment;
- source;
- deposit area.

Relevant information collected for the measured rockfall event can be visualised to create a **comprehensive and empirical hazard zonation models**. Statistical data support the proper design of fences, barriers and exclusion zones, increasing safety and cost-effective solutions.



Camera

GNSS antenna

Radar Module

All-in-one pole/wall/  
tree mounting kit

Control Unit

**INTEGRATED MONITORING SOLUTION**

Users can access RockSpot data from the innovative **GeoCloud** platform, a web-based application. Optimised for mobile devices, GeoCloud gives you immediate access to all important data relative to the events. All slope movements are **georeferenced and overlaid on a site map**.

To complete the information, an integrated livestreaming camera provides **continuous imagery of the monitored area**. The radar map is available in GeoCloud along with all the relevant statistics. GeoCloud will even send user-customised alerts and notifications via email or SMS.



Ability to double the coverage with another radar **within the same configuration** (only one control unit needed).

All RockSpot systems are controlled by GeoCloud with the possibility to create **multiple users with different levels of access**.

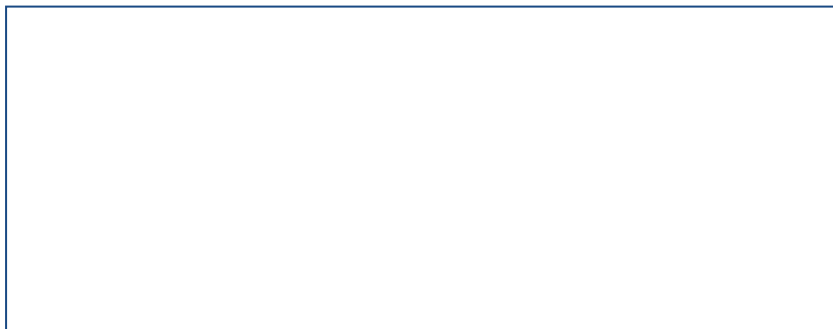
All monitoring statistics are recorded in a database, making it possible to analyse each event and to **create a proper risk zonation map**.



IDS GeoRadar, part of Hexagon, provides products and solutions, based on radar technology, for mining, civil engineering and monitoring applications. The company is a leading provider of Ground Penetrating Radar (GPR) and Interferometric Radar solutions worldwide.

IDS GeoRadar is committed to delivering best-in-class performance solutions and to the pursuit of product excellence, through the creation of application-specific, innovative and cost-efficient systems for a wide range of applications including mining, utility detection and mapping, civil engineering, geology, archaeology and public safety.

Hexagon is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at [hexagon.com](http://hexagon.com) and follow us [@HexagonAB](https://twitter.com/HexagonAB).



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