

Ground Penetrating Radar Soil Sensor Global Market Report 2025 | Business Growth, Current and Future Drivers till 2029

*The Business Research Company's
Ground Penetrating Radar Soil Sensor
Global Market Report 2025 – Market Size,
Trends, And Forecast 2025-2034*

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/EINPresswire.com/ -- How Much Is The
[Ground Penetrating Radar Soil Sensor
Market](#) Worth?

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The market size for ground penetrating radar soil sensor has witnessed a significant growth in the past few years. Its worth is projected to rise from \$0.91 billion in 2024 to \$1.04 billion in 2025, implying a compound annual growth rate (CAGR) of 13.7%. Factors that contributed to this

growth during the historical period include growing demand for precision agriculture, escalating need for non-invasive soil examination, increased urbanisation leading to the need for detecting underground utilities, augmentation in construction activities, and the launch of more environmental monitoring initiatives.

The market size for ground penetrating radar soil sensors is predicted to undergo swift expansion in the coming years, escalating to a value of \$1.72 billion by 2029, with a compound annual growth rate (CAGR) of 13.5%. This anticipated growth during the forecast period is significant

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due to several factors including increased governmental financing for monitoring soil health, a wider application of smart city programs, the growing utilisation of sophisticated soil analysis instrumentation, a rising need for effective evaluations of construction sites, and heightened consciousness of the dangers posed by soil contamination. The forthcoming period is also expected to see the advent of trends such as advancements in multi-frequency antenna technology, the development of compact and lightweight sensor technology, incorporation of GPS with GPR systems, improvements in 3D visualization software, and innovations in drone-

mounted GPR technology.

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What Are The Factors Driving The Ground Penetrating Radar Soil Sensor Market?

The increasing development of infrastructure projects is predicted to fuel the expansion of the ground penetrating radar (GPR) soil sensor market. The term 'infrastructure projects' indicates large-scale construction and development activities including roads, bridges, tunnels, railways, and utilities which need in-depth subsurface scrutiny to guarantee efficiency and safety. The urgency for modernizing outdated infrastructure, demanding high-tech solutions for long-lasting safety, resilience, and efficiency, contributes to the escalation of infrastructure projects. Ground penetrating radar (GPR) soil sensors aid these projects by supplying non-destructive subsurface mapping, identifying concealed utilities, and evaluating soil conditions to sidestep construction hazards and delays. For instance, the Office for National Statistics, a UK-based authority on statistics, stated in February 2023 that in 2022, the yearly construction output growth was at 5.6%, stimulated by a 3.8% boost in new construction projects. As a result, the burgeoning infrastructure projects are fueling the expansion of the ground penetrating radar (GPR) soil sensor market. The high-quality GPR systems for utility locating lead to improvements in subsurface exploration.

Who Are The Major Players In The Ground Penetrating Radar Soil Sensor Market?

Major players in the Ground Penetrating Radar Soil Sensor Global Market Report 2025 include:

- Hexagon AB
- Leica Geosystems AG
- Screening Eagle Technologies Inc
- Guideline Geo AB
- Geophysical Survey Systems Inc
- Sensors & Software Inc
- Edaphic Scientific Pty Ltd
- Radiodetection Ltd
- Stanlay Instruments Pvt Ltd
- Suncon Engineers Pvt Ltd

What Are The Key Trends Shaping The Ground Penetrating Radar Soil Sensor Industry?

Leading firms in the ground penetrating radar (GPR) soil sensor industry are prioritizing sophisticated advancements, such as high-resolution GPR systems, for utility location to improve precision, boost productivity, deliver instant feedback, and secure a safe subsurface examination on varying landscapes. High-resolution GPR systems for utility finding are compact, easily transported devices engineered to identify and plot underground metallic and non-metallic utilities accurately. For example, in October 2022, Sensors & Software Inc., a GPR tech company from Canada, rolled out the LMX150 FINDAR GPR system, a streamlined, high-definition device specifically designed for shallow utilities. This system comes with features such as field

interpretations, MapView, and geographically-reference outputs, making it highly compatible for utility finding in narrow or intricate scenarios. It facilitates speedy data gathering, immediate visualization on-site, and smooth report generation, epitomizing a contemporary technique for enhancing underground examinations and utility mapping in the field of infrastructure creation.

Which Segment Accounted For The Largest [Ground Penetrating Radar Soil Sensor Market Share](#)?

The ground penetrating radar soil sensor market covered in this report is segmented as

- 1) By Product Type: Handheld, Cart-Based, Vehicle-Mounted, Drone-Based
- 2) By Technology: Single Frequency, Multi-Frequency, 3D Ground-Penetrating Radar (GPR)
- 3) By Frequency Range: Low Frequency, Mid Frequency, High Frequency
- 4) By End-User: Agriculture, Construction, Environmental, Research Institutes, Utilities, Other End-Users

Subsegment:

- 1) By Handheld: Compact Units, Multi-Frequency Handheld, Single-Frequency Handheld
- 2) By Cart-Based: 2D Cart Systems, 3D Or Multichannel Cart Systems, Modular Cart Systems
- 3) By Vehicle-Mounted: Utility Vehicle-Mounted, Truck-Mounted, All-Terrain Vehicle (ATV) Or Utility Task Vehicle (UTV)-Mounted
- 4) By Drone-Based: Fixed-Wing Drone Ground Penetrating Radar (GPR), Multirotor Drone Ground Penetrating Radar (GPR), Hybrid Drone Ground Penetrating Radar (GPR)

View the full ground penetrating radar soil sensor market report:

<https://www.thebusinessresearchcompany.com/report/ground-penetrating-radar-soil-sensor-global-market-report>

What Are The Regional Trends In The Ground Penetrating Radar Soil Sensor Market?

In the Ground Penetrating Radar Soil Sensor Global Market Report 2025, North America held the position of the most significant region in 2024. It is forecasted that the quickest growth will come from the Asia-Pacific region. The report encompasses several regions, namely Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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