

EarthWorks Rail

Stop Soil Moisture Risks in Their Tracks



EarthWorks Rail is the world's first L-band SAR satellite-based solution for detecting subsurface soil moisture risks along rail infrastructure. With patented technology and unmatched accuracy, EarthWorks provides high-resolution insights into actual soil moisture levels, enabling early detection of potential risks to support safer, more resilient railways.

Long-Lasting Infrastructure Starts with EarthWorks Rail

Don't let moisture risks bring your railways to a stop. Rail safety starts with early detection, addressing problems like poor drainage before it turns into dangerous and costly damage. With our satellite view of subsurface risks, you'll keep your operations on track.

Why Choose EarthWorks Rail?

EarthWorks Rail gives you a system-wide view of moisture risks across your tracks, adjacent slopes, and third-party land enabling you to:

- ✦ **Maximize ROI** by preventing costly failures
- ✦ **Extend asset lifespan** by detecting issues early
- ✦ **Track moisture trends** to monitor changes for proactive decisions

Other Industries Served by EarthWorks

Dams and Levees | Roads | Mining | Property

Key Features



Trend Analysis

Monitor moisture changes over time



Alert & Alarm Grid

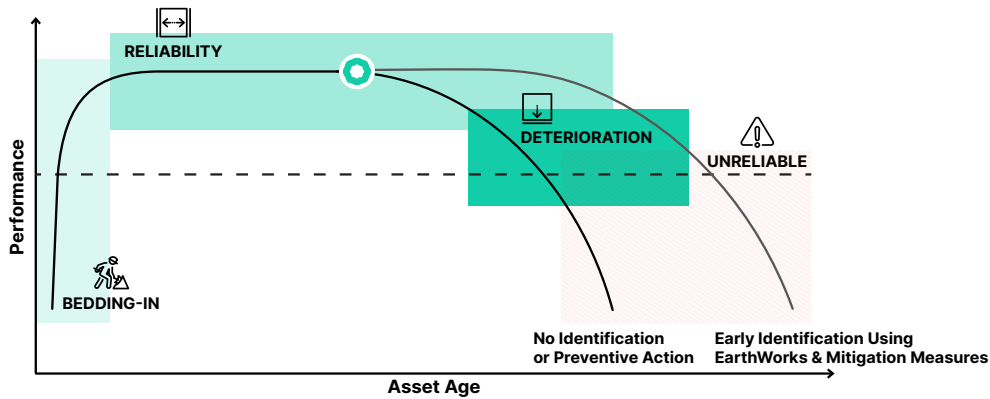
Categorize at-risk areas to identify sections that need closer inspection



Mobile-Optimized Reporting

Access digital reports on the go via mobile apps for faster response times

ASTERRA EarthWorks Contributes to Extended Asset Lifespan



Something for Everyone

EarthWorks Rail serves every level of your organization. From decision-makers seeking to extend railway lifespan, to managers improving efficiency, to field crews identifying moisture risks along tracks and adjacent slopes—our solution meets the needs of all teams.

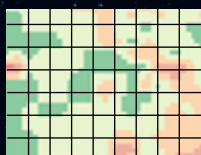
How it Works



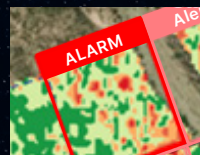
1 Provide Your Map
Share your area of interest



4 Track Moisture Trends
EarthWorks monitors moisture changes over time



2 Grid Division
We'll break it down into smaller sections



5 Act on Insights
Receive targeted insights for informed action



3 Prioritize Risks
Define high-risk zones with our guidance

ASTERRA

For more information: inquiry@asterra.io

