



RAILROAD **ASSET TRACKING** CAPABILITIES

Virtualize the rail asset inspection process with the Allvision IO Virtual Rail Inspection service. Utilizing advanced detection methods and data analytics improves collection times and efficiency - providing insights at your fingertips for improved rail safety and real-time decision making.



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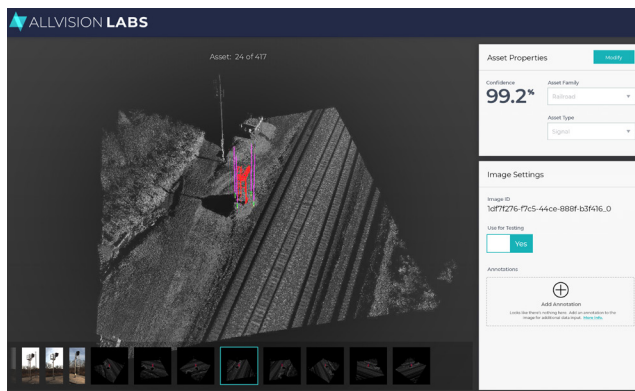
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SOLUTION

The Allvision Virtual Rail Inspector, or VRI, provides a streamlined and cost effective way for rails to be safety compliant and monitor assets in real time. Assets can include eight critical asset types: derailleurs, switches, control signs, mileposts, signals, crossing guards, rail tracks, and crossings. The resulting scanned and processed data is specifically tailored to the rail environment, and includes Positive Train Control (PTC), vegetation management, wire clearance measurement, and crossing verification. Allvision is also able to track when an asset or rail item changes, like rail obstructions or debris, cars, people on the tracks, or if a sign is misplaced after maintenance activities. Several key rail systems currently use our solutions to create 3D digital maps of their assets for optimization and safety. We deliver true insights as to what is happening on the rail at any time, and from any place in the world.



HOW WE DO IT

While other platforms rely solely on pre-existing data, Allvision has built the first true digital twin platform for rail by placing sensors mounted on rail-traveling trains or hi-rail vehicles.



We then utilize a proprietary and market-unique data processing model to fully digitize assets. The end result equals a fully functioning digital twin available on an intuitive, comprehensive browser application, accessible from anywhere. Our platform takes railways to the next generation of service.



90%
EFFICIENCY INCREASE

Unparalleled data accuracy collected in less than 10% of the time as traditional methods.



360°
DETECTION

Spherical detection provides insights and metrics not perceivable with traditional “boots-on-the-ground” solutions and allows for seamless remote inspection and management.

USE CASES

- Monitor rail assets
- Improve rail and community safety
- Track rail disruptions and obstructions
- Future-proof railway planning & expansion
- Maintain vegetation around rail access sites
- Inspect equipment and infrastructure with greater frequency and precision

BENEFITS

- Improve safety and efficiency
- Increase flexibility with faster decision making
- Regulate infrastructure and equipment
- Maximize community relations
- Comply with Positive Train Control guidelines

Contact Allvision for further details on small rail mapping and monitoring capabilities.

