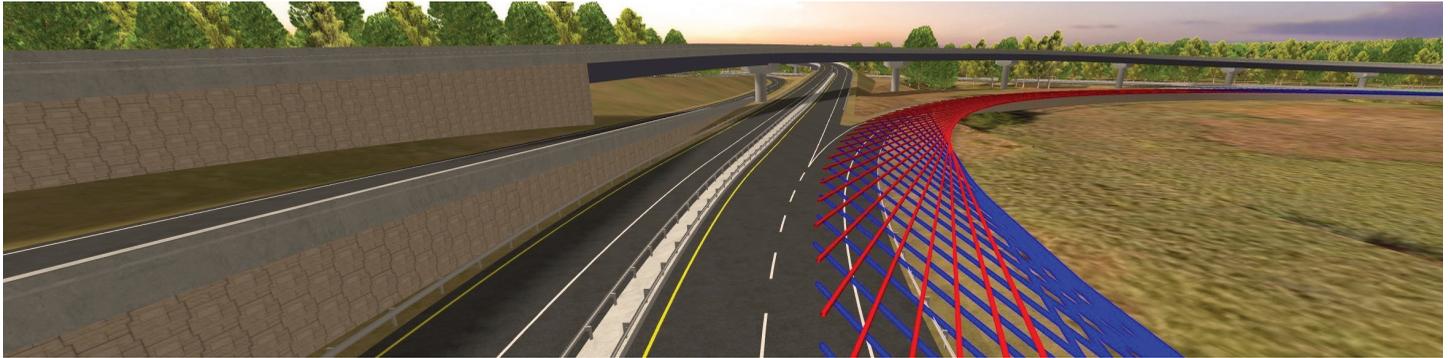# Real Image Solutions & RDV Systems, Inc.

Road Safety Audit 3D

Sight Distance - 3D Line-of-Sight Vectors

Roadway crashes in the United States account for more than 38,000 deaths and over 4 million serious injuries every year. Many of these crashes are caused by roadways which DO NOT meet the minimum safety design requirements set by AASHTO. Road Safety Audit 3D is an innovative analytic technology that tackles the engineering challenges we face using a truly revolu-tionary approach to Road Safety.
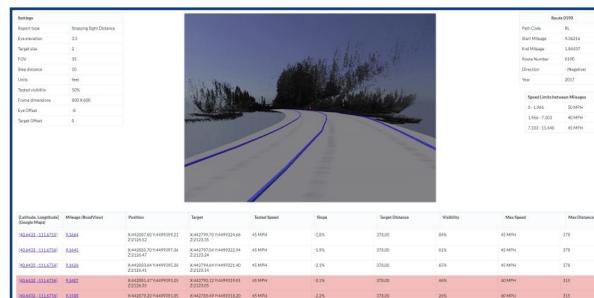
Challenging the Status Quo

AASHTO's Policy on Geometric Design of Highways and Streets provides two-dimensional schematic road safety methodolo-gies that have not changed in over 70 years, despite the fact that 3D modeling of roadways is now commonplace. While the Green Book guidelines are fundamental to roadway engineering, they do not take into account many of the environmental and man-made hazards that impact driver safety. Out of this discrepancy, Road Safety Audit 3D was born.

The Road Safety Audit 3D platform uses a systemic approach to road safety based on precise virtual models of roadway geom-etry for both designed and existing roads. Data-driven analysis of LiDAR and other 3D scanning technologies is used to identify deficiencies for a variety of safety parameters. Traditional RSA approaches rely solely on historical crash data, showing the WHAT of road safety, but without giving insight as to the physical causes at the root of the numbers. RSA 3D focuses on the WHY, revealing substandard safety-related conditions that underlie crash statistics.
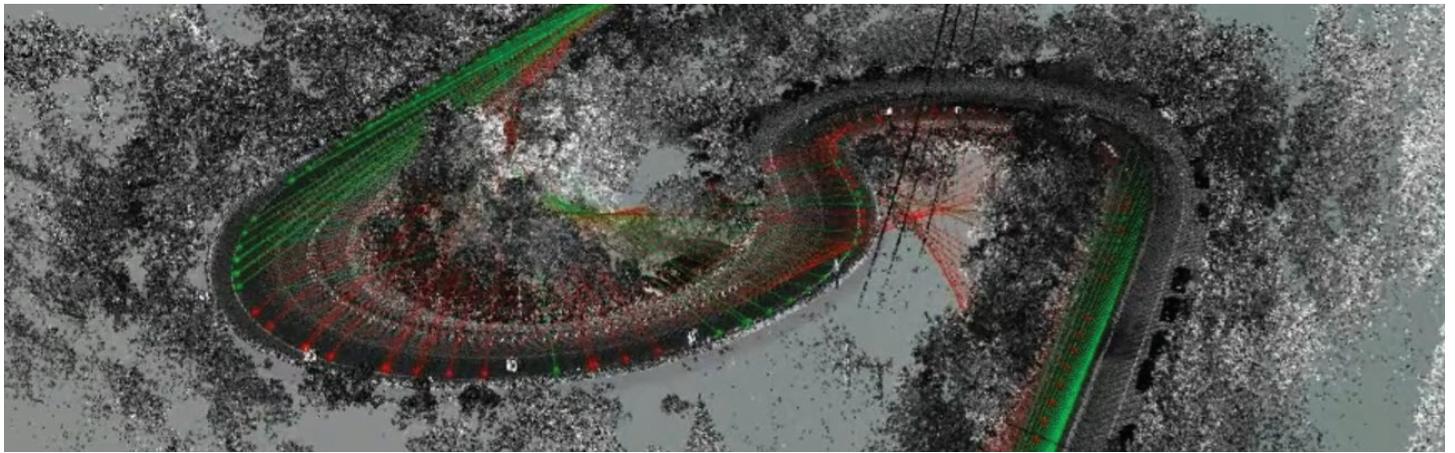
RDV's Road Safety Audit 3D technology analyzes the complete roadway environment to detect deficiencies in:

» Sight Distance (stopping, passing, and decision)
» Intersection Sight Distance
» Drainage / Ponding
» Pedestrian and Cyclist Safety
» Bridge Clearances
» Clear Zones, Glare, and more.

> **"We had no idea that a company that was coming to us to do 3D visualizations had the ability to give us this product."**
>
> - Carlos Braceras, Executive Director of Utah Department of Transportation

www.realimagesolutions.com

Point Cloud Sight Distance Analysis - SR-190, Utah

The RDV Advantage

Comprehensive – Our automated and rigorous analysis provides a clear image of the inherent flaws found in the geometry of any road or highway network. RSA 3D takes a "leave no stone unturned" approach that analyzes every lane, ramp, and inter-section in your entire network. A full report is provided in HTML and is ready to export for total integration with your existing solutions.

Cloud-Based – Our cloud computing platform handles all of the processing and heavy-lifting, eliminating the need for high powered in-house hardware. Our user-friendly web applications are accessible via desktop browsers and mobile devices, making it simple and convenient to review results and share with colleagues.

Cost-Effective – RSA 3D significantly reduces the cumbersome manual labor associated with traditional road safety processes. Our software completes the analyses in a fraction of the time, keeping you within your budgets and on schedule.

See Road Safety Audits in Action!
Scan the QR codes with your phone or tablet

Carlos Braceras Executive Director, Utah DOT	Road Safety Analysis Examples	RSA 3D Product Information
Click Here	Click Here	Click Here

or visit **www.123bim.com/a**

RDV Systems has been delivering innovative visualization and BIM software products since 2005. Our mission is to provide tools for project visualization and road safety audits that dramatically expand the capabilities of engineers, designers and safety officials, and allow for new ways to cooperate and communicate effectively at a cost feasible for projects of any size . Consult-ants and public agencies around the world rely on RDV software products and services to visualize, analyze and communicate their designs.

REAL iMAGE SOLUTIONS

Road Safety Audit 3D

RDV Rapid Design Visualization

For more information, project examples, and case studies contact us today!

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