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Spatially Integrated Street Surface Assessment Case Study

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Idea will present a case study of improvements to a manual, "windshield-survey" based Pavement Condition Assessment program at a major US City in Texas, envisioning a fully-automated solution, then designing and successfully implementing it. The solution hardware includes a van with laser profilers, GPS equipment, automatic crack detection, immersive video cameras, and more. The solution software allows the City to quickly find a street rating by segment, see condition history, view immersive video of all street segments for context and asset identification, generate reports, and soon, identify sub-surface pavement condition to identify sinkhole risks. The new SSAV (Street Surface Assessment Vehicle) owned by the City allows for efficient, non-subjective, timely assessment of roadways. Data is now accessible to the public. GIS integration and customizable pavement rating scoring improves decision-making. With this innovative new solution, the City controls its own roadway assessments, performs them faster, and saves money by not having to contract with services firms to drive the roads. They own the data visualization software Idea built for them and continue to add more functionality to it.