

# STREETSCAN intelligent pavement inspection and management service

## Why StreetScan? How is StreetScan different from/better than our current solution?

- ✓ Developed during five years of grant-funded research<sup>1</sup>
- ✓ New and unique technology earned a U.S. patent
- ✓ Mobile sensor system + GIS application facilitates budget planning and maintenance monitoring, enabling local decision-makers to implement their infrastructure plans with a data-driven approach
- ✓ Faster and more efficient process providing real savings

## StreetScan's advantages are threefold:

1. **ScanVan** – StreetScan's data collection system consists of multiple sensors that record three modalities of acoustic, optical, and electromagnetic waves and can scan more than 100 miles a day.
2. **PaveMon** – StreetScan's Pavement Monitoring System presents all the measurements and analysis in an easy-to-use, visual format that presents the "Pavement Condition Index" for each road segment.
3. **PaveMan** – StreetScan's Pavement Manager not only projects how much it will cost to repair the roads, but also takes into account other factors like weather to compute the deterioration of existing road conditions.

## Specifically, StreetScan:

- ✓ Provides 100% survey mile coverage via its patented automated data collection system
- ✓ Requires no manual field survey data collection
- ✓ Includes an online-based GIS software app tool that allows for unlimited users and software support (no servers required)
- ✓ Presents imagery of your entire road network which you can click anywhere in the web app to visualize
- ✓ Overlays data by type, e.g., potholes, metal objects, cracks, etc.
- ✓ Provides a built-in online decision/maintenance prioritization tool

Basically, StreetScan is the one-stop toolbox for planning and executing a municipality's entire road management program.

## Why did CCM partner with StreetScan?

In Connecticut's current economic climate, data-driven decisions must play a more prominent role in municipal budgeting. With StreetScan, CCM recognized:

- ✓ Better data means better planning
- ✓ Better planning means better decisions
- ✓ Better decisions mean lower costs

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<sup>1</sup> \$18 million grant from the National Institute of Standards and Technology

## Automated Pavement Management

### DATA DRIVEN DECISION MAKING

StreetScan's data collection technology consists of multiple sensors that record three modalities of acoustic, optical, and electromagnetic waves and can scan more than 100 miles a day.



## Automated Data Processing

Utilizing trained algorithms and the video imagery from the survey, StreetScan has the ability to locate, assess and extract your street assets into **PaveMON** without the need of re-sending out the **ScanVan**.



PAVEMENT  
CONDITION



PAVEMENT  
MARKINGS



STREET LIGHTS  
LUX LEVELS



TRAFFIC  
SIGNAGE



TREES



ENVIRONMENTAL  
DATA

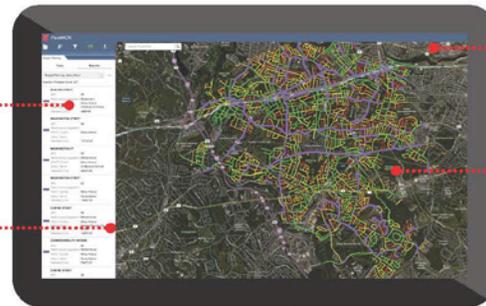
## Pavement Management Software

**PaveMON** is a web-based app which is unique by allowing you to financially plan and engineer your road improvement work within a user friendly GIS environment.

User-Friendly Dashboard



ESRI GIS Based



Web-Based App

Unlimited Users