

A 3D rendering of a multi-lane highway with several cars in different colors (purple, blue, green, red). Red circles are placed on the road surface, indicating the locations of wireless sensors. The highway is bordered by a concrete barrier and a grassy area with a streetlight.

Wireless Sensor Networks in Transportation

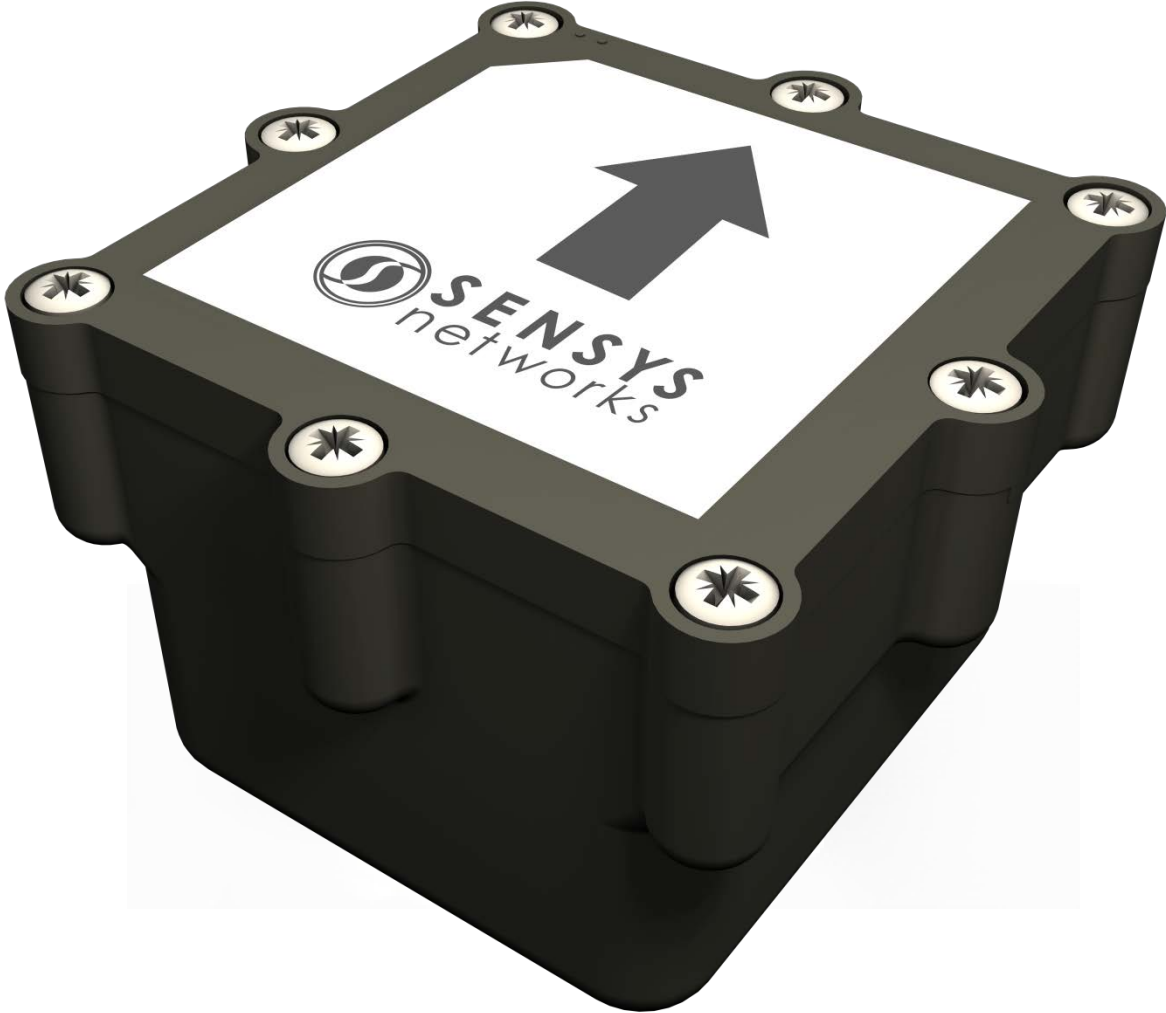
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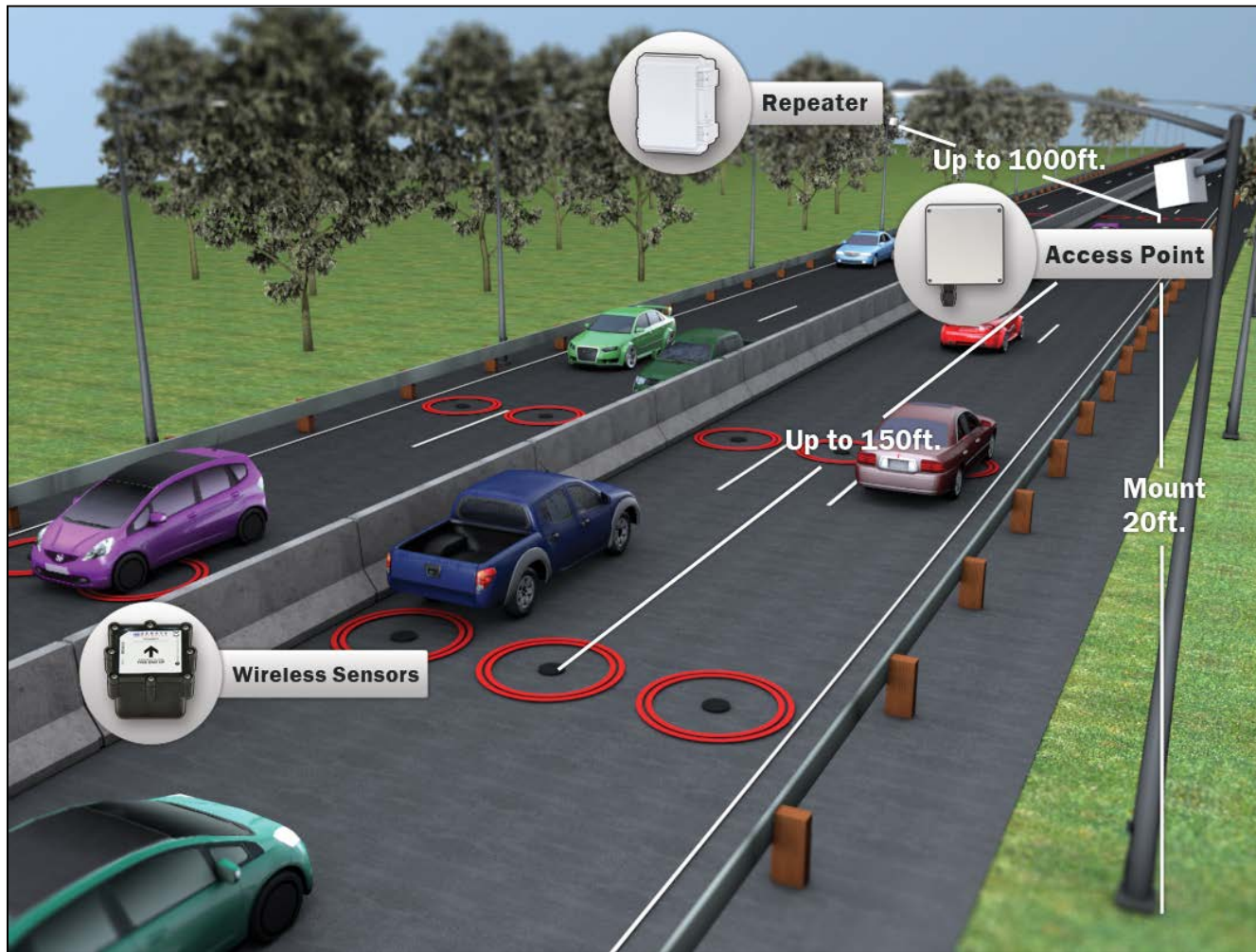
What are Those Markings in the Pavement?



A More Modern Solution

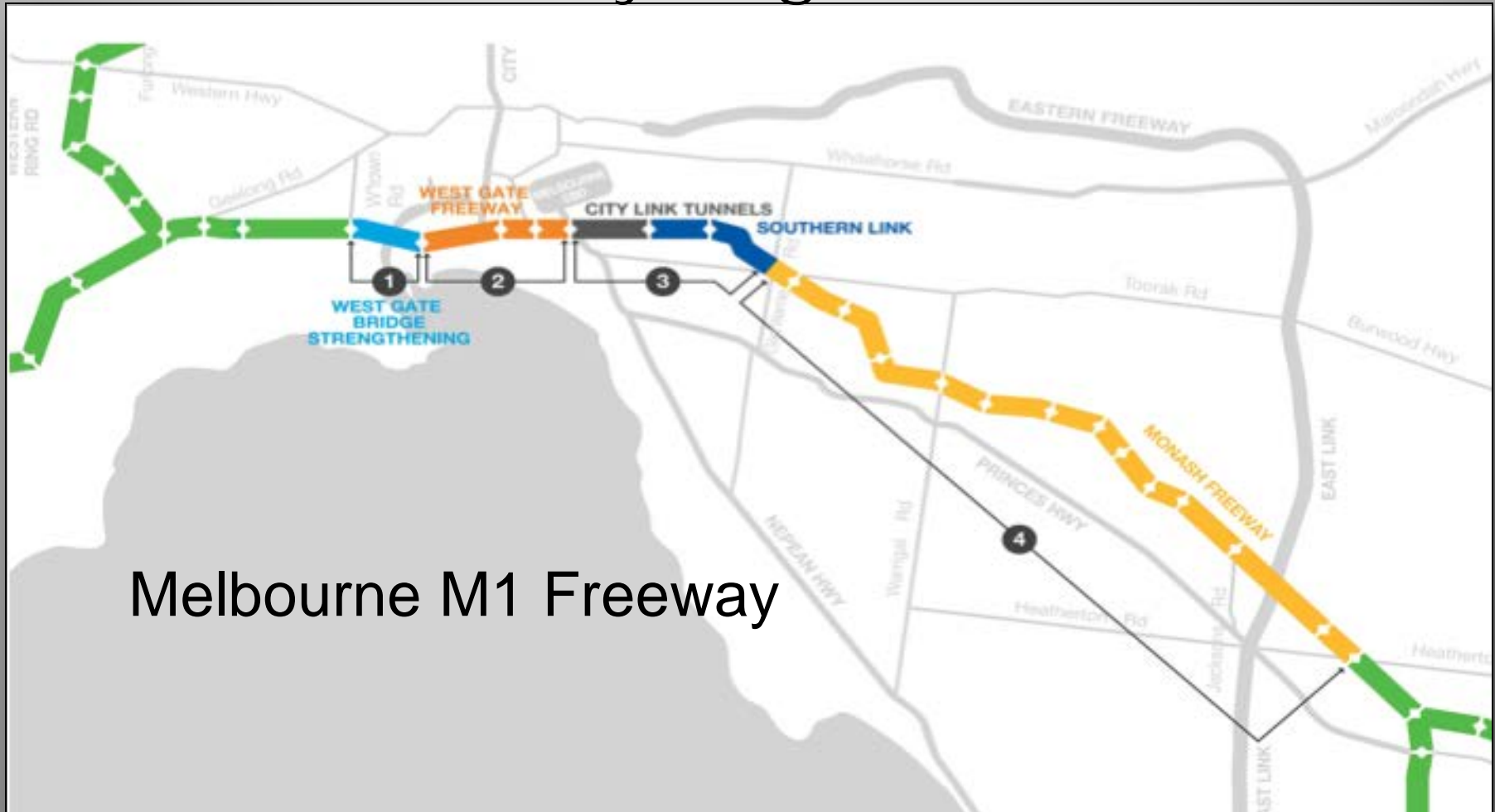


A Typical Installation



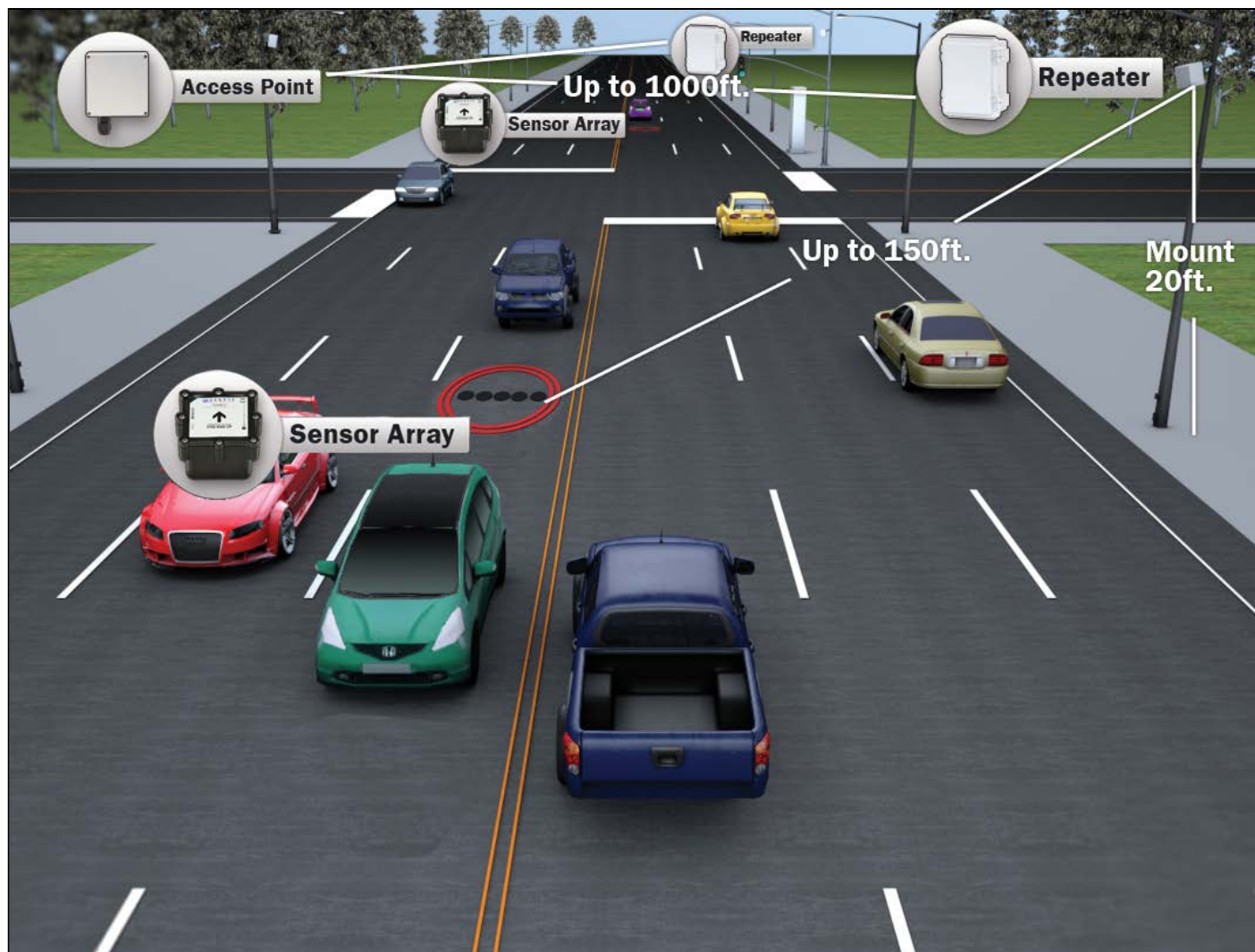
Enabling Road Management

On A Very Large Scale



Melbourne M1 Freeway

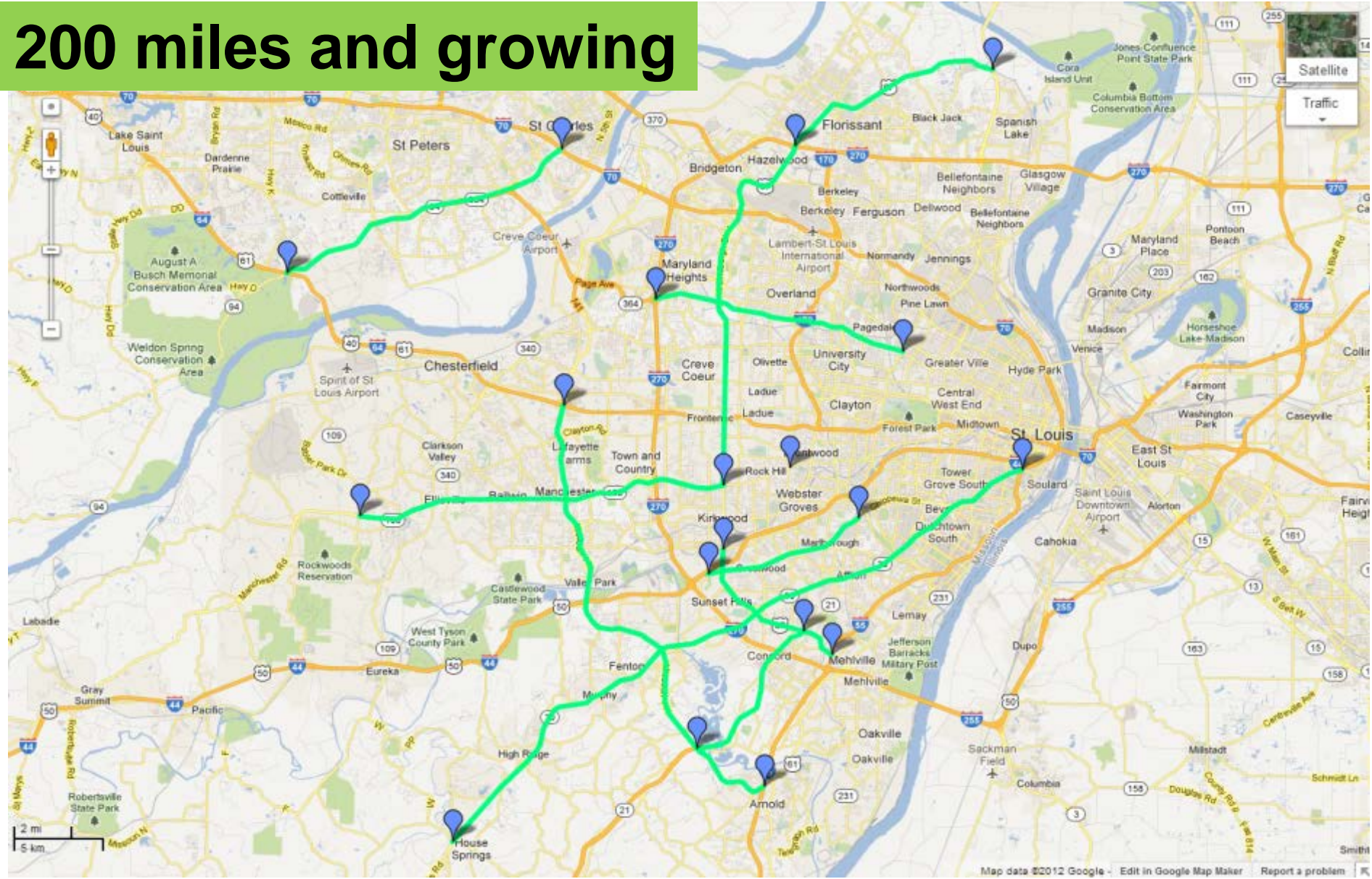
Vehicle Re-Identification



St Louis Arterial Travel Time System



200 miles and growing



- Real time
- Accurate
- Reliable
- High praise from traveling public



Performance Measures

Travel time for U.S. 67 - South

Map List

Segment 163

SB Eddie and Park to Gravois

Median Travel Time: 177 sec

80th Percentile: 184 sec

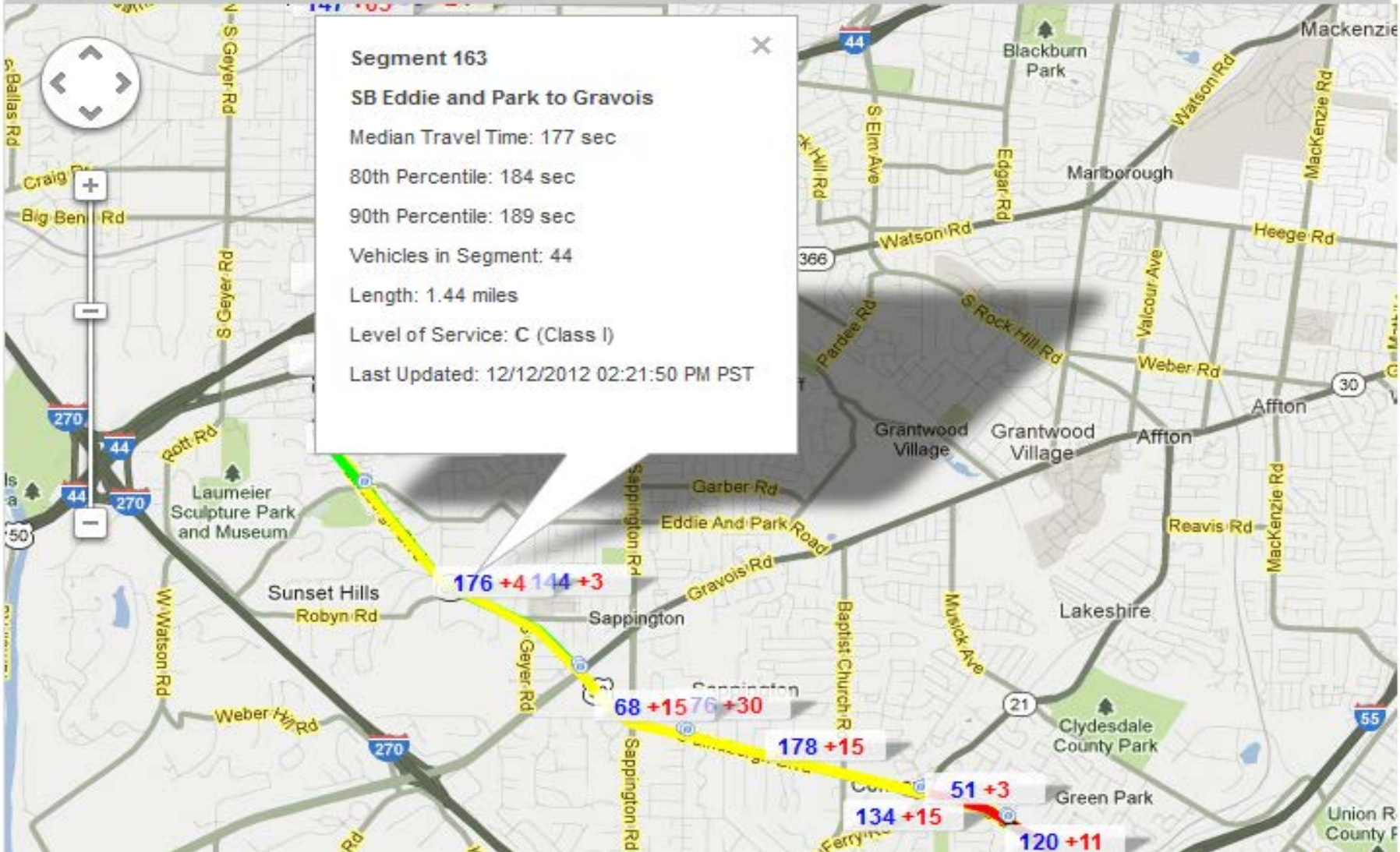
90th Percentile: 189 sec

Vehicles in Segment: 44

Length: 1.44 miles

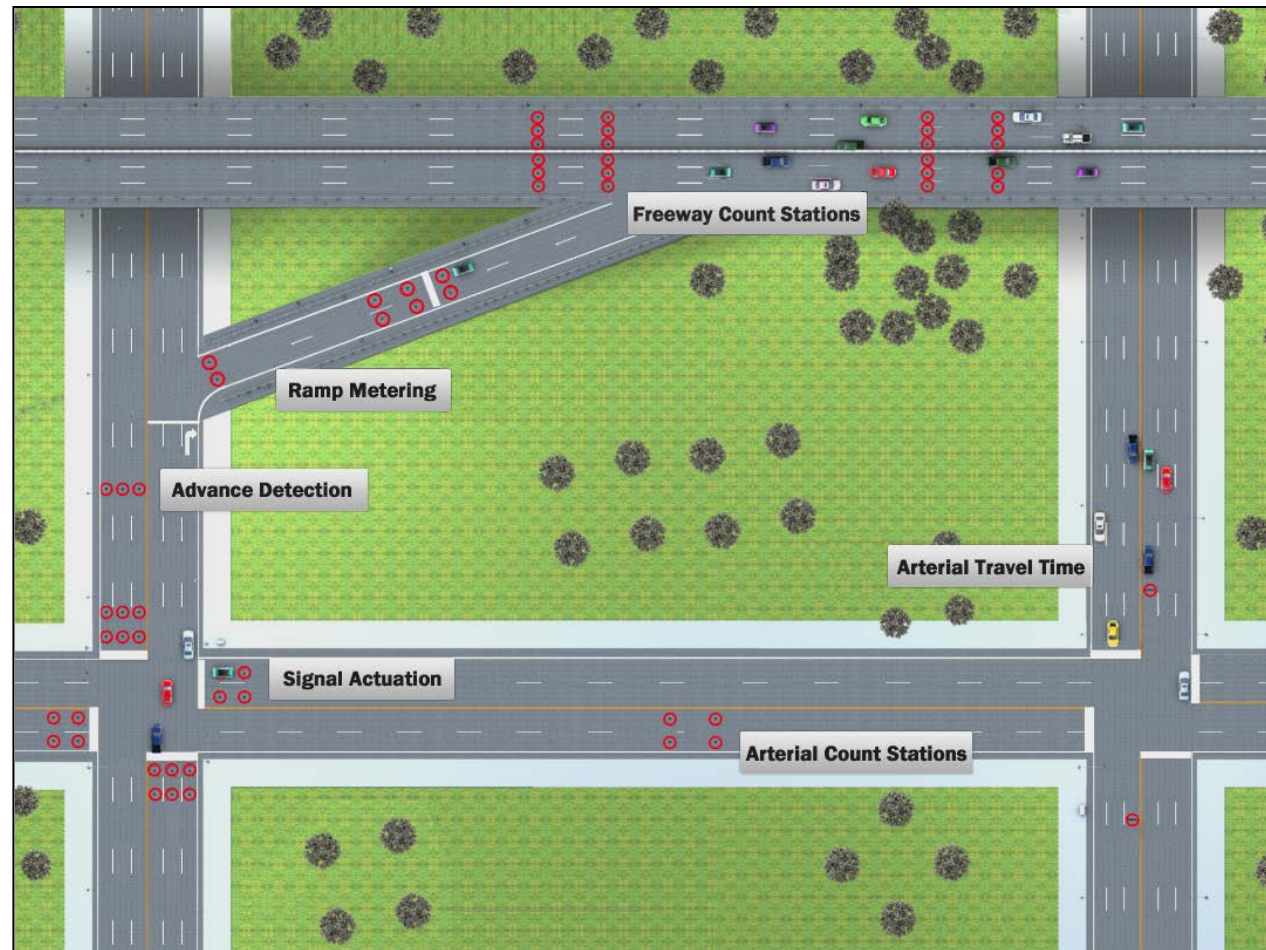
Level of Service: C (Class I)

Last Updated: 12/12/2012 02:21:50 PM PST

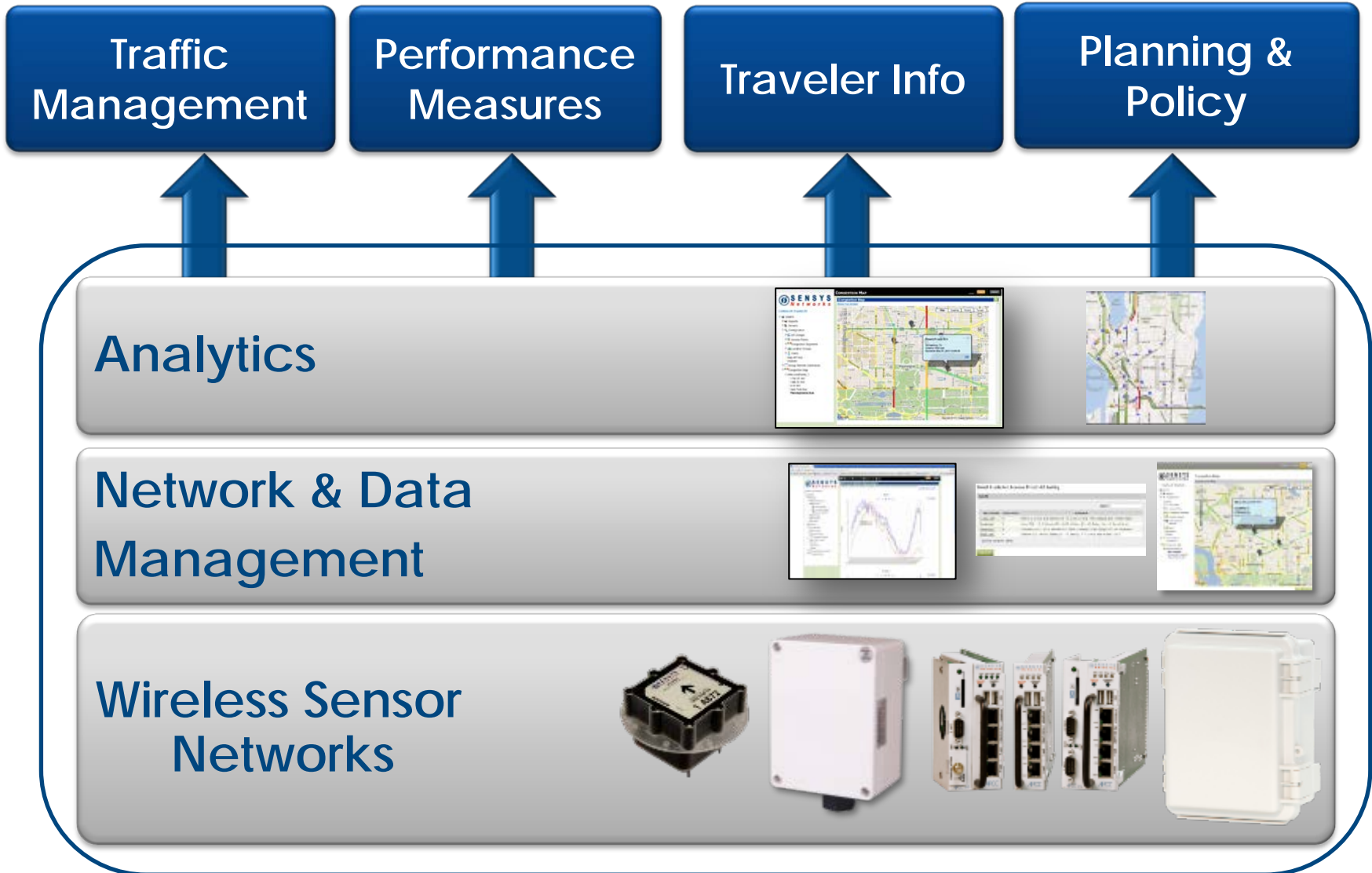


New Reality: Data Poor to Data Rich

- Instrument entire regions in weeks
- Rich new set of data
- Near-zero maintenance



Analytical Foundation for Smarter Transportation



Thank You

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