

StreetSaver Plus

A Regional Approach to Asset Management

Sui Tan, PE
Arterial Operations Committee Meeting
March 11, 2014



Why is Local Street and Road Maintenance a Regional Concern?

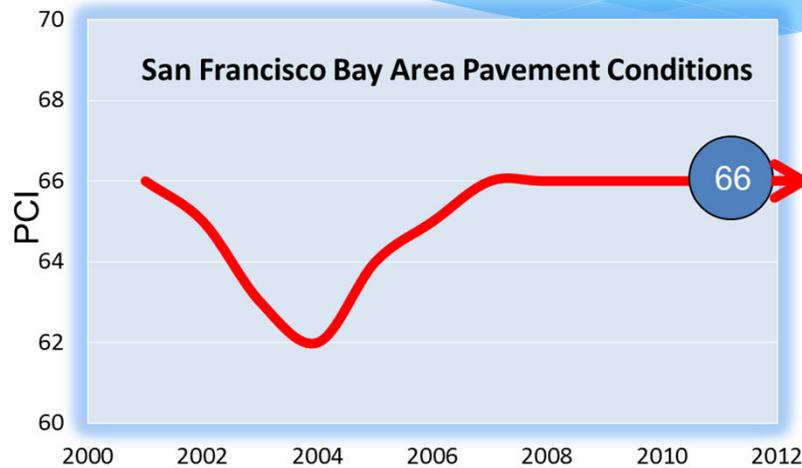
- *Biggest & Most Expensive Piece
- *\$40 billion replacement value (2012)
- *42,800 lane miles 

Why is Local Street and Road Maintenance a Regional Concern?

*Support ALL modes of Transportation

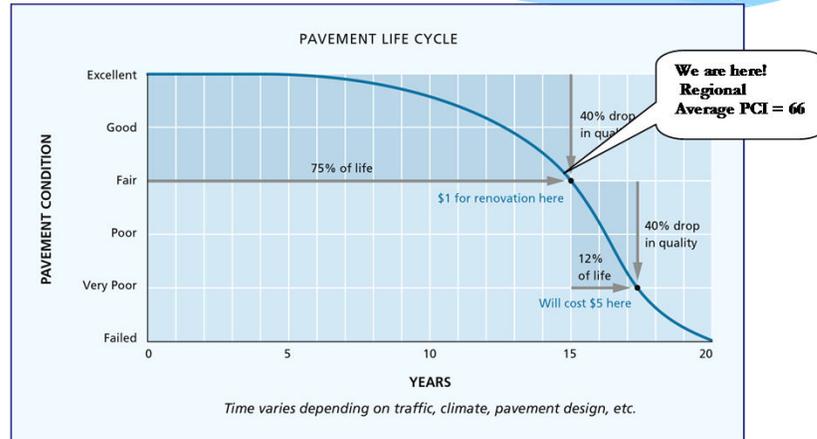


Why is Local Street and Road Maintenance a Regional Concern?



Why is Local Street and Road Maintenance a Regional Concern?

Pavement Life Cycle



Assessing Local Streets & Roads Needs

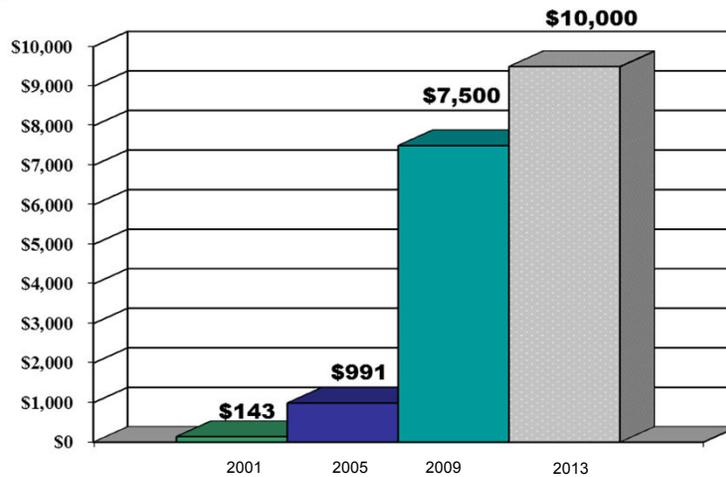
- * How much do we need to spend as a region?
 - Pavement
 - Non-Pavement
 - Bridges
- * Regional “What-If?” for Regional Transportation Plan scenarios
- * Exclusive use of StreetSaver®

28-Year Needs Assessment

County	Available Revenues	Pavement Needs	Non-Pavement Needs	Total Capital Needs	Total Remaining Capital Needs
Alameda	\$ 2,148	\$ 3,715	\$ 4,082	\$ 7,798	\$ 5,650
Contra Costa	\$ 2,915	\$ 3,111	\$ 2,674	\$ 5,786	\$ 2,871
Marin	\$ 655	\$ 865	\$ 641	\$ 1,506	\$ 852
Napa	\$ 219	\$ 1,087	\$ 429	\$ 1,516	\$ 1,297
San Francisco	\$ 2,299	\$ 2,416	\$ 2,363	\$ 4,778	\$ 2,480
San Mateo	\$ 1,440	\$ 1,929	\$ 1,984	\$ 3,913	\$ 2,473
Santa Clara	\$ 3,374	\$ 5,776	\$ 5,118	\$ 10,894	\$ 7,520
Solano	\$ 488	\$ 1,906	\$ 1,289	\$ 3,195	\$ 2,707
Sonoma	\$ 994	\$ 3,699	\$ 1,319	\$ 5,018	\$ 4,023
REGION	\$ 14,531	\$ 24,504	\$ 19,899	\$ 44,404	\$ 29,872

(\$ in Billion)

Impact of Needs Assessment on Regional Policy



MTC's StreetSaver

- Used by all 109 Bay Area jurisdictions
- 300 nationwide
- Network-level Pavement Mgt
- Designed for local agencies
- Minimize costs - maximize benefits
- Purpose:
 - Document conditions & needs
 - Promote pavement preservation



Better Pavement Management in Bay Area



Recognized by the FHWA as “one of the first regions in the country to implement a pavement management system— Office of Asset Management

Communicating the Need

- * Pothole Report
- * Annual press release
- * Countywide efforts
- * Statewide Needs Assessment

The Pothole Report:
Can the Bay Area Have Better Roads?

June 2011



Napa Valley Register.com

Times-Herald LOCAL NEWS

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St. Helena tied for worst Area roads report

CITY OF NAPA CONTINUES TO IMPROVE IN REGION

Vallejo's street conditions still some of the Bay Area's worst

By Sarah Rohrs Times-Herald staff writer
POSTED: 10/24/2013 01:03:37 AM PDT

Report lists Sonoma County roads as Bay Area

DAILY REGISTER

Solano roads mostly in good condition

By Melissa Murphy/ MMurphy@TheReporter.com
POSTED: 10/24/2013 01:01:48 AM PDT



Tuesday, October 29, 2013 FAIRFIELD-ST

Pavement survey shows room for improvement



Countywide Needs Assessment

- * Solano Transportation Authority – started in 2011

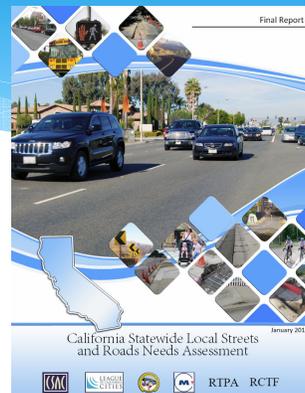


- * Napa County Transportation Planning Auth. (NCTPA) - started in 2013

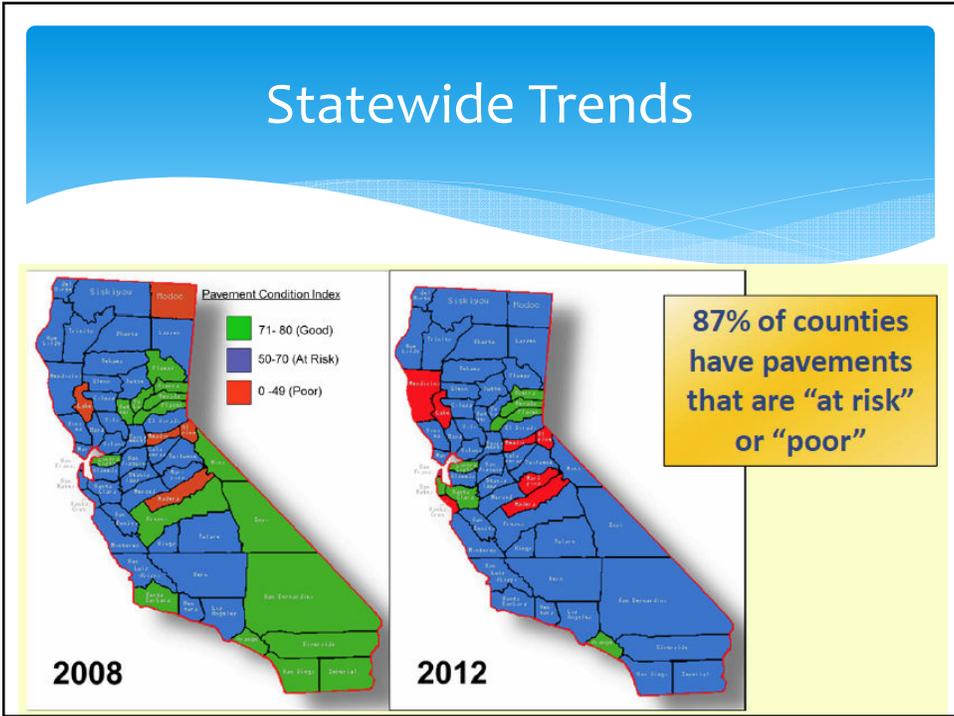


Statewide LSR Needs Assessment

- * Powered by StreetSaver[®]
- * Conduct every 2 years
- * 2012 Final Report
 - SaveCaliforniaStreets.org
- * 2014 underway soon



Goal - Inform legislature and public the need to preserve and augment funding for road maintenance



It's Not Just Roads & Bridges

- Sidewalks
- Curb ramps
- Curb & gutter
- Storm drains
- Street lights
- Signs
- Retaining walls



StreetSaver Plus

- * Network-level needs assessment
 - Useful life
 - Replacement costs
- * Not Maint. Mgt System
- * Integrated with street network

First Phase

- *Traffic Signals
- *Signs
- *Sidewalk
- *Curb Ramps

Traffic Signals

- * Include all Bay Area Signalized Intersection System (BASIS) attributes
- * Challenges –
 - * Useful life as a system?
 - * Useful life as individual components?
At what level?

Traffic Signals

- * Challenges (cont'd) –
 - * Replacement Costs
 - * Maintenance Plan
 - * Preventive, Responsive, Emergency
 - * Annual Maintenance Costs – avg. \$1,000/device?

Schedule

- * Beta Testing – March 31
- * Full launch – July 1

Beta Testers

- *3 local agencies
 - 1 county
 - 2 cities
- *2 consultants

Questions

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