

# Preserving the Region's Local Street and Road Network



**METROPOLITAN  
TRANSPORTATION  
COMMISSION**



**2007 National Conference on  
Pavement Management  
May, 2007**

# The Setting: San Francisco Metropolitan Region

- ▶ Population = 7.1 Mil
- ▶ Nine Counties
- ▶ 109 Jurisdictions
- ▶ 19,000 Miles of Roads
- ▶ 1,500 Miles of Highway
- ▶ 23 Transit Agencies
- ▶ Seven Toll Bridges
- ▶ One MPO: MTC



# Why is Local Street and Road Maintenance a Regional Concern?

- ▶ **Biggest & Most Expensive Piece**
  - ▶ \$35 - \$40 billion replacement value
- ▶ **Supports *All* Modes of Transportation**
- ▶ **Seriously Degraded and Facing Steep Decline**
- ▶ **Escalating Costs Jeopardizes Funding for *All* Transportation Interests**

# MTC's Regional Streets & Roads Program

- ▶ **Three Main Components:**
  - ▶ **Tools – Software, Training & User Support**
  - ▶ **Federal Grant Program—PTAP**
  - ▶ **Policy**
- ▶ **Each Component Essential to Program's Success**

# MTC's Streetsaver®



- ▶ **Network Level System**
- ▶ **Used by 108 of 109 Bay Area Jurisdictions**
- ▶ **First Developed 20 Years Ago**
- ▶ **Purpose:**
  - ▶ **Document Needs & Conditions**
  - ▶ **What Do I Fix First?**

# MTC's Streetsaver®



- ▶ **Streetsaver® Underlying Philosophy:**  
Keeping Good Roads Good, Costs Less Than Fixing Bad Ones.
- ▶ **Cost Effectiveness vs. “Worst First”**
- ▶ **Emphasis on Preventive Maintenance**
- ▶ **Right Treatment, Right Road, Right Time**

# Training & Support

- ▶ **Technical (Software) Support**
  - ▶ Hotline
- ▶ **Technology Transfers**
- ▶ **Training Program**
  - ▶ Distress ID
  - ▶ PMP Champions
  - ▶ Budget Analysis
  - ▶ Pavement Management Overview
- ▶ **Coordination**

# Pavement Technical Assistance Program (PTAP)

- ▶ **Federal Grant Program**
- ▶ **@\$800K Annually**
- ▶ **30 Re-Inspections/ Updates Per Year**
- ▶ **Ensures MTC Access to Good Data**
- ▶ **100% Certification**

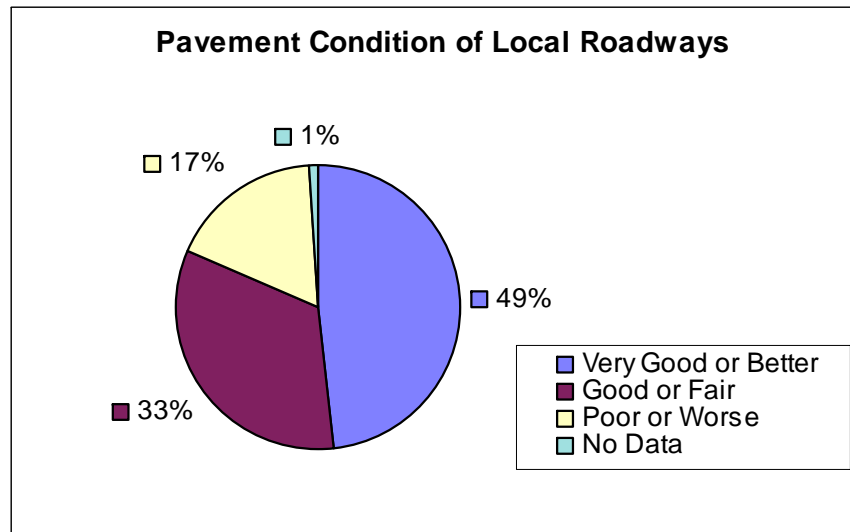


# Policy

- ▶ **Condition Summaries**
- ▶ **Needs / Shortfall Assessments**
- ▶ **Funding**
- ▶ **Local Streets and Roads  
Committee**

# Regional Condition Summaries

	Centerline Miles of Local Street & Road Pavement								Avg. PCI
	Excellent PCI = 90-100	Very Good PCI = 75-89	Good PCI = 60-74	Fair PCI = 45-59	Poor PCI = 25-44	Very Poor PCI = 0-24	No Data	Totals	
Bay Area	2650	5259	2949	2514	1593	1405	2632	19002	64
Percent	10%	39%	20%	13%	10%	7%	1%	100%	



# Local Streets & Roads Needs Assessment

- ▶ **How Much Do We Need to Spend to Maintain the Street and Road Network?**
  - ▶ Pavement – Reconstruction, rehabilitation and preventive maintenance of the street surface and/or sub-grade.
  - ▶ Non-Pavement – All of the items in addition to pavement that are necessary for a functioning street & road network
- ▶ **Exclusive Use of Streetsaver® in the Region Makes This Easy**

# Local Streets & Roads Needs Assessment

## 25-Year Local Street & Road Shortfalls

Jurisdiction	Total Need	Revenue	Shortfalls
Alameda	\$ 3,211,497,606	\$ 1,837,608,171	\$ 1,373,889,435
Contra Costa	\$ 2,575,509,231	\$ 1,285,503,979	\$ 1,290,005,252
Marin	\$ 1,169,630,529	\$ 486,827,532	\$ 682,802,997
Napa	\$ 866,252,240	\$ 317,247,354	\$ 549,004,886
San Francisco	\$ 2,268,882,679	\$ 1,065,156,075	\$ 1,203,726,604
San Mateo	\$ 2,325,103,049	\$ 1,081,589,012	\$ 1,243,514,038
Santa Clara	\$ 4,372,399,438	\$ 2,391,317,434	\$ 1,981,082,004
Solano	\$ 1,387,724,521	\$ 369,740,349	\$ 1,017,984,172
Sonoma	\$ 2,214,831,687	\$ 642,751,396	\$ 1,572,080,291
<b>Total</b>	<b>\$ 20,391,830,980</b>	<b>\$ 9,477,741,301</b>	<b>\$ 10,914,089,680</b>

# Funding Policy

- ▶ **Regional Policy -- “Fix it First”**
- ▶ **Regional Funds Conditioned on Performance**
  - ▶ PMP Certification
  - ▶ Projects Recommended by Streetsaver®
  - ▶ Performance Based Allocation Formula

# Funding Policy

- ▶ **Allocation Formula**
  - ▶ 31% Population
  - ▶ 31% Miles
  - ▶ 31% Shortfall
  - ▶ 7% Preventive Maintenance Performance
- ▶ **Performance Score Determined from Streetsaver® Data**
  - ▶ PM Score = Recommended PM vs. Actual PM

# Local Streets & Roads Committee

- ▶ **Regional Public Works Officials**
- ▶ **Advises MTC on Policy**
- ▶ **Advocates for Better Funding**
- ▶ **Works to Improve Project Delivery**
- ▶ **Encourages Best Practices Among Peers**

# Conclusion

- ▶ **Maintenance Funding Will Never Be Sufficient**
- ▶ **A Regional, Concerted Effort to Improve Maintenance Practices is Needed to Make A Difference**
- ▶ **A Multi-Faceted Regional Program Dedicated to Local Streets & Roads Will Yield Long Term Benefits**



# Conclusion

**Metropolitan Transportation Commission:**

**[www.mtc.ca.gov](http://www.mtc.ca.gov)**

**MTC Pavement Management:**

**[www.mtcpms.ca.gov](http://www.mtcpms.ca.gov)**

**Questions?**