

# Highway 1

Update on Chip Seal

SLOCOG Board

April 3, 2013



# Pavement Strategies

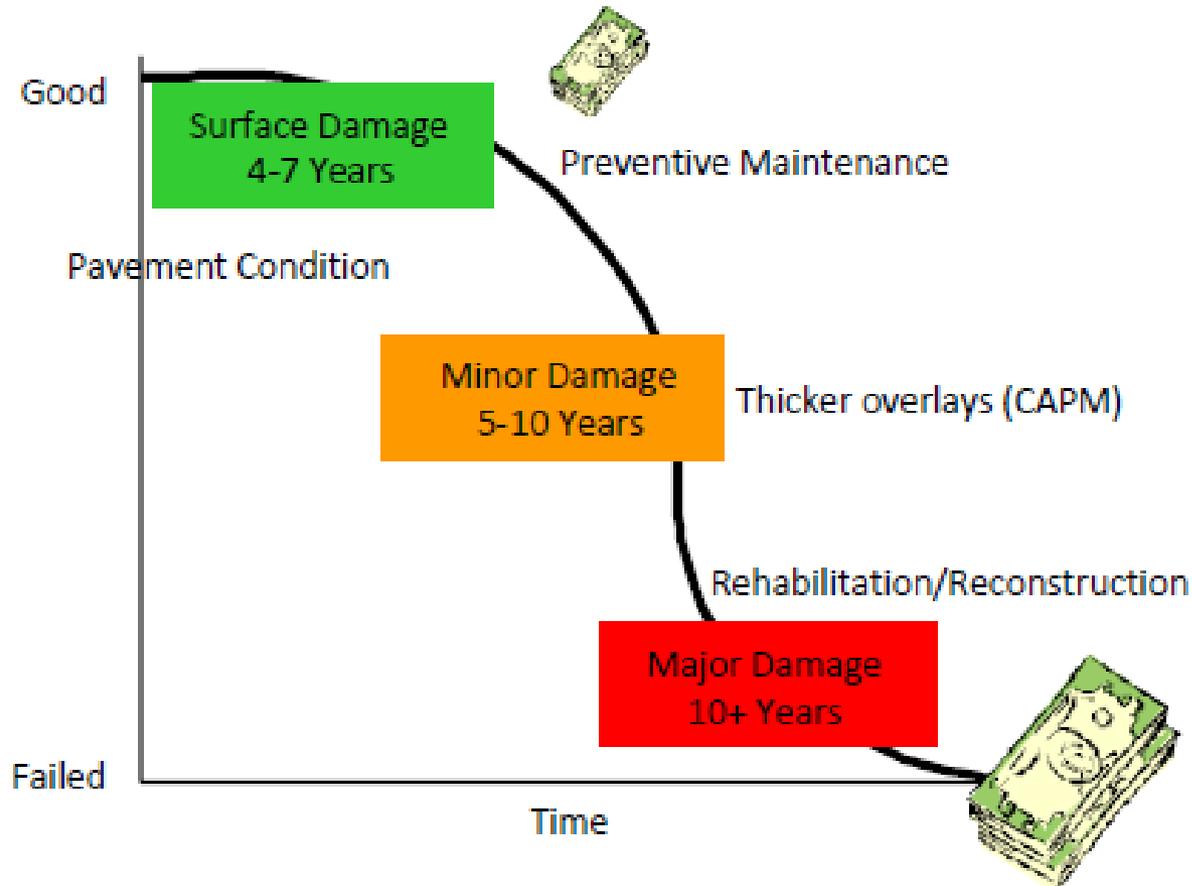


Figure 9. Cost Effectiveness of Pavement Strategies

# Pavement Maintenance on Hwy 1

- **1992 Chip Seal**
  - 25 miles (\$320,000)
  - Lanes only, shoulders not treated
- **2009 Grind & Replace Surface**
  - 1.6 miles (\$400,000) OR ~ \$250,000 per mile
  - Near Hearst Castle, distress from heavy vehicles turning
- **2012 Chip Seal**
  - 25 miles (\$2.1 million) OR ~ \$84,000 per mile
  - Lanes and shoulders

# Concerns & Response

- We've heard from the cycling community and we have responded with:
  - 1) Enhanced sweeping for loose gravel, pothole repair
  - 2) Investigate body of knowledge for acceptable ride quality for bicycles and smoothing techniques
  - 3) Outreach out to major cycling event organizers

# Why no immediate re-paving?

- Estimated cost \$7-8 million
- Information is needed to:
  - Address surface roughness for bicyclists
  - Explore cost-effective techniques to achieve a smoother surface

# CT/UC Davis

## Pavement Research

- Phase 1

- Test smoothing techniques
- Quantify measurements for bicycle ride quality
- Evaluate cost-effectiveness
- Results in May

- Phase 2

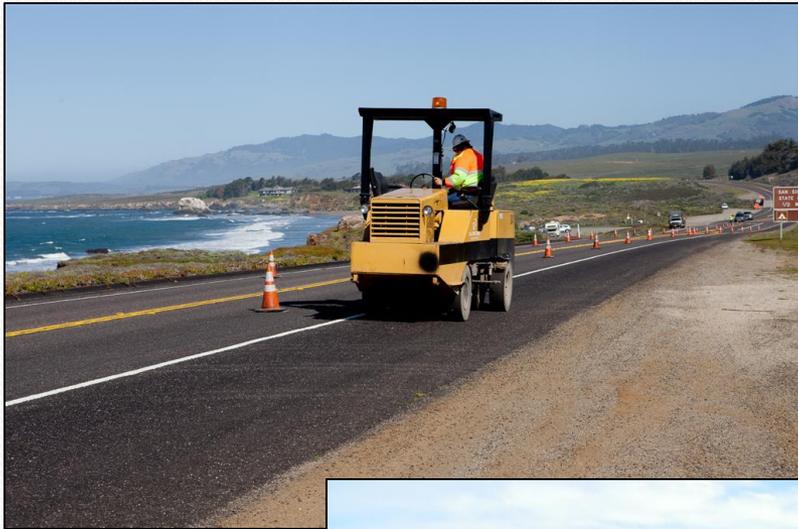
- Develop recommendations for statewide pavement program to account for bicycle ride quality
- Recommendations in Fall

# Test Rolling

1000' test section

Pneumatic roller on  
northbound shoulder

Southbound traffic shift to  
shoulder



# Current Condition

- Highway 1 is safe for all users
- Major events are not cancelling
- Continue to encourage visits to the central coast and Highway 1

# www.dot.ca.gov/dist05

Windows Internet Explorer window showing the website [http://www.dot.ca.gov/dist05/projects/chip\\_seal/index.htm](http://www.dot.ca.gov/dist05/projects/chip_seal/index.htm).

The website header includes the logo for **CALIFORNIA DEPARTMENT OF TRANSPORTATION DISTRICT 5** and navigation links: [Home](#), [Travel](#), [Business](#), [Engineering](#), [News](#), [Maps](#), [Jobs](#), [About District 5](#), and [Contact District 5](#). A search bar for Caltrans is also present.

The main content area displays the breadcrumb trail: [Caltrans](#) > [District 5](#) > [Projects](#) > [Hwy 1 Chip Seal Project](#).

## Highway 1 - Chip Seal Update

Caltrans and UC Davis are partnering to find an effective and affordable way to make cycling a smoother experience along a recently paved section of Highway 1 in northern San Luis Obispo County. The Caltrans Division of Research and Innovation and the University of California, Davis Pavement Research Center are researching smoothing techniques, such as applying heavy rollers and conducting test trials involving surface treatments. Results of this research will guide short-term improvements at this location and longer-term recommendations for the statewide pavement program.

This effort is in response to local cyclists who say a recently completed 20-mile long chip seal project along Highway 1 from Cambria to the Monterey County line resulted in a rougher-than-usual ride in sections of this scenic route.

Caltrans will inform the public, elected officials and the cycling community regarding this research effort. Caltrans will share plans for a treatment strategies for Hwy. 1 when this research and on-site testing has been completed.

- [Frequently Asked Questions](#)
- [Photo Gallery](#)
- [Map](#)



On the left sidebar, there is a link to [Adobe's Acrobat Reader](#) and a note: "You will need Adobe's Acrobat Reader ver 4.0 or better to view or print Portable Document Format (PDF) files". Below this is the Caltrans logo.

The Windows taskbar at the bottom shows the Start button, several open applications (C, R, 2, 2, p, H, H, 2, S, S), and the system tray with the time 2:50 PM.

# Looking forward...

- Caltrans is committed to addressing the needs of bicyclists
- Caltrans is a good steward of taxpayers dollars
- Results of research will determine next steps for Highway 1 and influence statewide practices

