

HOW COUNTY DEVELOPS ROAD PROJECTS



Board of Supervisors
June 6, 2023

- Collect Data
- Consider Equity
- Analyze for Established Priorities
 - Pavement Management Program
 - Top Priority Corridors
 - Excessive Complaints/Safety First
 - Preventative Treatments
 - Sustainable Methods
 - Leverage Grant Funding



COLLECT DATA

County contracts with vendor to collect pavement condition data on all county roads every 3 years.

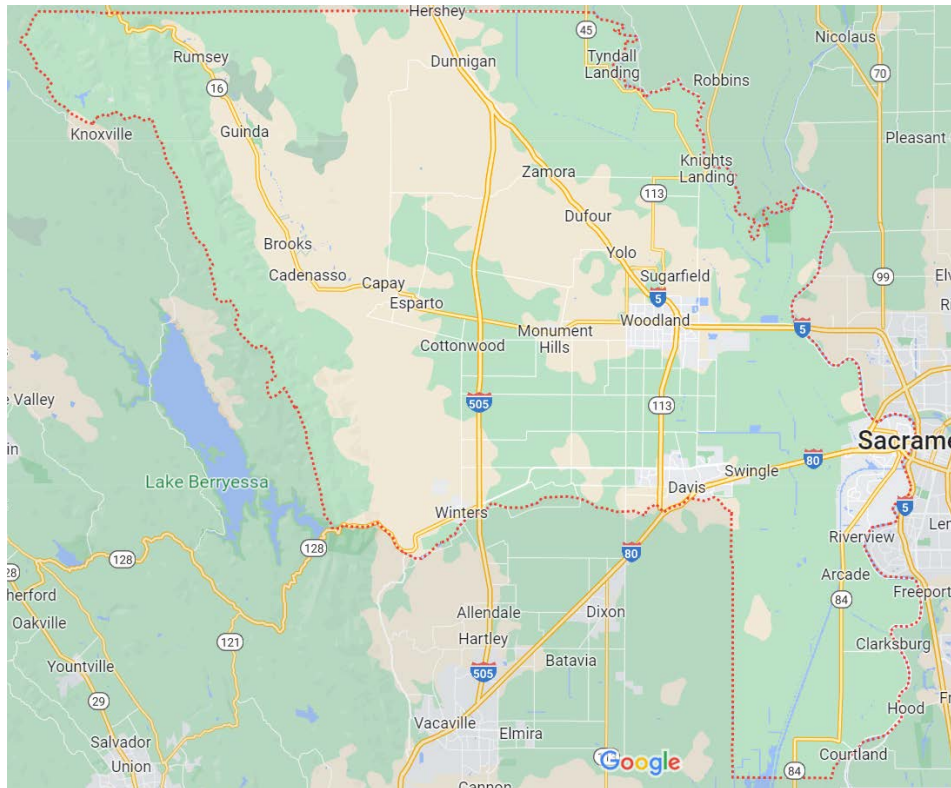
Data collected includes:

- Type of road
 - Classification
 - GPS location
 - Cracking
 - Rutting
 - IRI
- Provide Quality Control
 - Load data into Pavement Management System
 - Last assessment done winter 2020/21
 - Next assessment planned for winter 2023/24



CONSIDER EQUITY ALWAYS

- Identify and prioritize roads located in and that serve historically disadvantage communities
- Consider equity each step of the process



ANALYSIS: USE PAVEMENT MANAGEMENT PROGRAM

What is a Pavement Management System?

A pavement management system uses a variety of criteria to prioritize road projects. Some common criteria include:

- Pavement condition
- Traffic volume
- Functional classification
- Safety
- Cost-effectiveness
- Strategic importance

ANALYSIS: USE PAVEMENT MANAGEMENT PROGRAM

Yolo County uses MTC's cloud-based StreetSaver Online

➤ Inventory Management



➤ Analysis Engine

- Budget Needs
- Project Selection
- Budget Scenarios
- Target Driven Scenarios

➤ Future GIS Integration

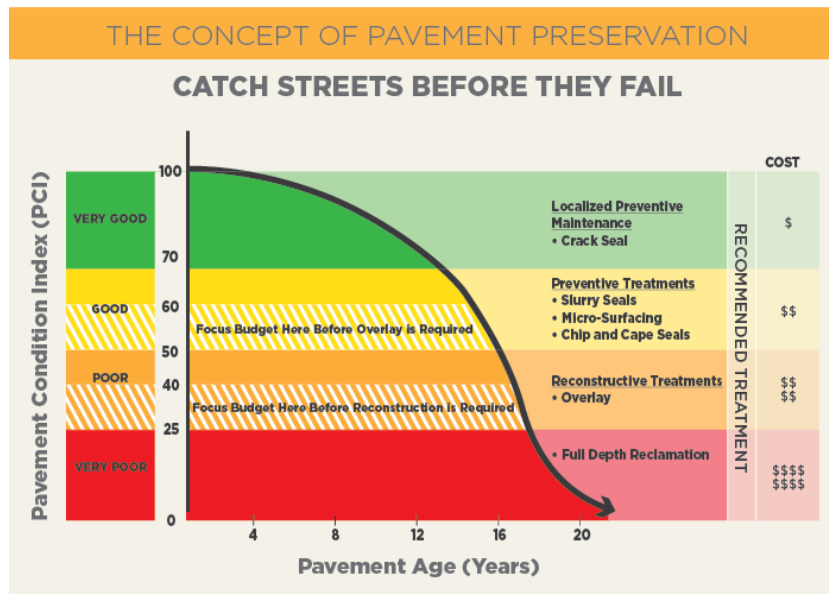
➤ Track Maintenance & Rehab Treatment History

➤ More staff training to realize potential of technological tool



ANALYSIS: TOP PRIORITY CORRIDORS

- Safety First: Needed Primary/Emergency Access Routes
- Most traffic volume as measured by Average Daily Traffic (ADT)
- Higher speeds
- Mainly Arterials and Collectors



ANALYSIS: EXCESSIVE COMPLAINTS

- Safety Paramount
- High Speeds
- High Traffic Volume
- Road Maintenance Requests

The screenshot shows the Yolo County website with the following elements:

- Logo:** YOLO COUNTY
- Navigation Tabs:** ABOUT US, LIVING, BUSINESS, GOVERNMENT (highlighted), I WANT
- Left Sidebar (Public Works Division expanded):**
 - + Environmental Health Division
 - + Integrated Waste Management Division
 - + Natural Resources
 - + Planning Division
 - Public Works Division (highlighted)
 - + Bicycle Transportation
 - County Surveyor
 - Disadvantaged Business Enterprise (DBE) Program
 - Improvement Standards
 - + Public Works Project Updates
 - Public Works Permits
- Main Content Grid:**
 - RFP/RFQ BID RESULTS:** Represented by a clipboard icon.
 - PERMITS:** Represented by a document icon with a keyhole.
 - ROAD MAINTENANCE REQUEST:** Represented by a car icon.
 - ROAD CLOSURES:** Represented by a road sign icon.
- Contact Information:**

292 West Beamer Street
Woodland, California 95695
PHONE: (530) 666-8775
FAX: (530) 666-8156
[E-Mail Us](#)

Public Counter Hours:
Mon-Fri, 8am - 12pm
Appointments Available

ANALYSIS: PREVENTATIVE TREATMENTS

- Use Pavement Preservation Treatments
 - Slurry Seal Residential Local/Residential Roads
 - Microsurfacing Seal Higher Traffic Roads
 - Chip seal roads that have a competent structural section
 - Cape Seals = Chip + Slurry/Micro
 - Apply enzyme treatments to gravel roads with base failure



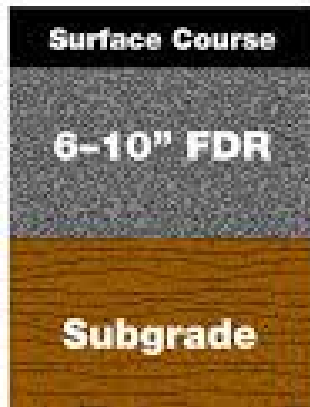
ANALYSIS: SUSTAINABLE METHODS

➤ Use sustainable methods where possible:

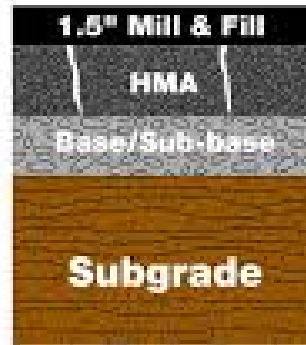
➤ Examples:

- Full Depth Reclamation (FDR)
- Cold-in-place Recycling(CIR)
- Rubberized Chip Seals (using recycled rubber including used tires)

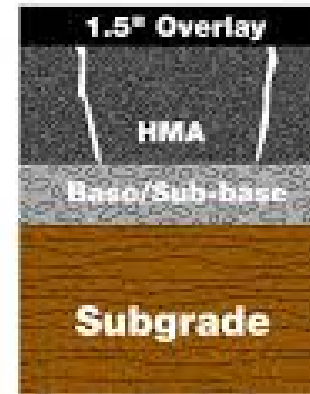
Full Depth Reclamation



Mill & Fill



Overlay



ANALYSIS: LEVERAGE GRANT FUNDING

➤ Funding Sources

➤ Total \$14.1M

- Highway User Tax Account (HUTA) / Gas Tax \$6.4M
- Senate Bill 1 (SB1) \$5.9M
- Transportation Development Act (TDA) \$1.8M
 - Local Transportation Fund (LTF)
 - State Transit Assistance (STA)



➤ Reserve as local match to leverage grants

- Federal grants require 11.47%
- Apply for all appropriate grants incl. those for underserved communities
- Focus Safety and Bike/Ped Improvements
- Project designs that minimize environmental impacts and shovel-ready



SUMMARY

PROJECTS ARE CREATED BASED ON:

- Collected Data
- Equity Considerations
- Established Priorities:
 - Pavement Management Program
 - Top Priority Corridors
 - Excessive Complaints/Safety First
 - Preventative Treatments
 - Sustainable Methods
 - Leverage Grants

PROJECTS APPROVAL PROCESS:

- Informational Update to
 - Committee on Capital Improvements (CCI)
 - Yolo County Transportation Advisory Committee (TAC)
- Board of Supervisors