

# **Caltrans 5-Year Maintenance Plan**

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# 5-Year Maintenance Plan

*Streets and Highways Code Section 164.6 requires Caltrans to prepare a 5-Year Maintenance Plan to address the maintenance needs of the state highway system*

- Purpose: Needs based preservation plan Identify specific maintenance strategies that avoid increases in the SHOPP by delaying the need for rehabilitation, construction, or replacement.
  
- Goal: Balance resources between SHOPP and maintenance activities
  - Updated every 2 years
  - Transmitted to the Governor, Legislature, and Commission
  - Identifies pavement, bridge, and drainage backlogs
  - Illustrates alternatives:
    - Current funding
    - Steady State plus reduced backlog in 5-years and 10-years
  - Estimates cost benefit ratio
  - Estimates dollars and lane-miles that would be delayed in the SHOPP

# **Mission: Provide a Safe, Sustainable Integrated, and Efficient Transportation System to Enhance California's Economy and Livability**

- 50,000 lane miles of pavement
- 13,000 bridges and other structures
- 205,000 Culverts

# Asset Management Systems

## Pavement Management System (PMS)

### Types of Information:

- Description of current pavement condition
- Identification and prioritization of future projects
- Estimates of fiscal resources required to make repairs

## Integrated Maintenance Management System (IMMS)

### Types of Information:

- Asset inventory
- Work tracking
- Activity based cost information

## ASSET MANAGEMENT

- **Inventory Composition**
- **Evaluate Asset Condition**
- **Measure Performance**
  - Establish Priorities
  - Forecast Needs
  - Track Work

## Bridge Management System (BMS)

### Types of Information:

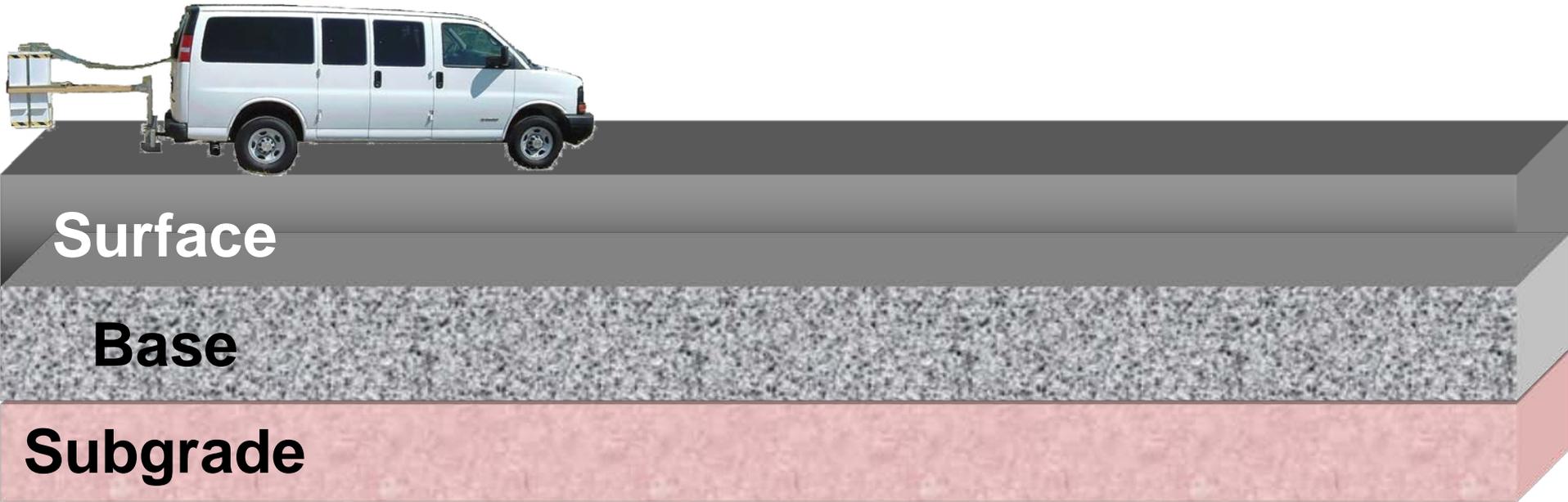
- Bridge inventory
- Bridge inspection results
- Prioritization of needs
- Record of completed and needed bridge work
- Forecasting future needs

## Level of Service (LOS)

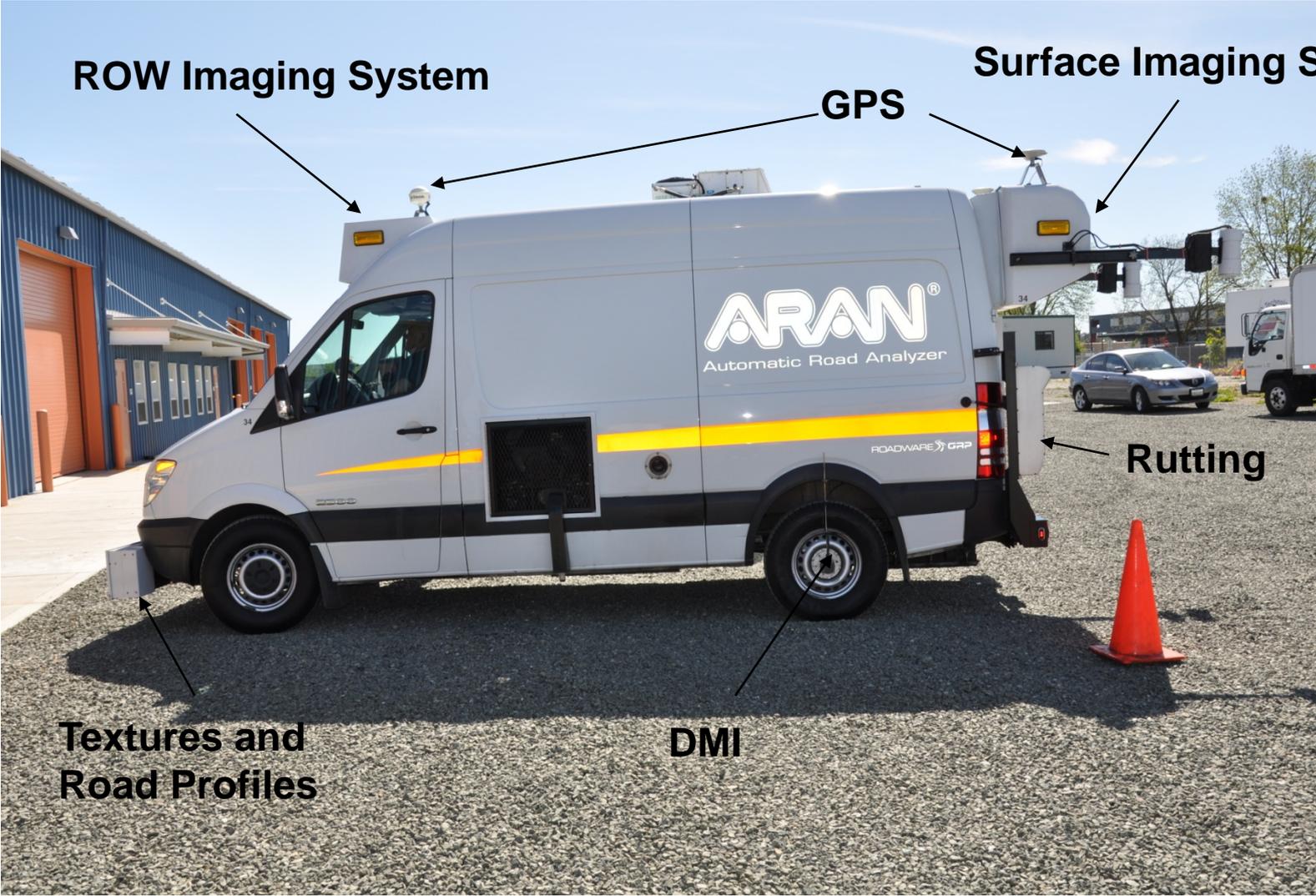
### Types of Information:

- Level of Service rating summaries
- Attribute summary analysis
- Maintenance needs

# Ground Penetrating Radar



# APCS Vehicle



ROW Imaging System

Surface Imaging System

GPS

Rutting

Textures and Road Profiles

DMI

# Maintenance Program Funding

Baseline Funding for maintaining pavement, bridge and drainage is \$433.5 Million per year

Pavement Program: \$234 Million per year

Bridge Program: \$176.5 Million per year

Drainage Program: \$23 Million per year

**Thank You**