



## Pavement Profile Scanner

### Phase III IMPACTS

- 4 complete units sold generating over \$946K in sales.
- Over \$295K of non-DoD contributions for further R&D.



The Pavement Profile Scanner (PPS) developed the Rolling Wheel Deflectometer concept patented by Phoenix Scientific, Inc. This resulting scanner technology proven to be ideally suited to improve the way conventional pavement condition data such as Rut and Ride indexes, are obtained. The PPS measures the profile along a 14-foot line in 0.75 milliseconds up to 1,000 times per second and produces a transverse profile covering the shoulder to the lane divider markings. The PPS consists of all solid-state electronics, cone optics, and a motor/bearing assembly. It is very reliable and rugged.

The PPS is a revolutionary new technology developed specifically for testing pavements and has been proven during five years of prototype testing and operation. In the fall of 2001, it performed the first network level production jobs, surveying over 2,000 miles of the California Forest Road Network.

It provides more accurate pavement condition data with an installation that is safer to operate and much less vulnerable to damage, all at a price that is competitive with existing technology.