

National Asphalt Roadmap

This document is the result of public-private partnership and presents the shared vision of the Asphalt Community for research and technology in the field of asphalt pavement and material technologies. This was a combined effort of the National Asphalt Pavement Association, Federal Highway Administration, the American Association of State Highway and Transportation Officials, the National Stone, Sand, and Gravel Association and the Asphalt Institute. In compiling information for this document, the writers have received consultation from the National Center for Asphalt Technology, the FHWA Expert Task Groups on Asphalt and reviewed research initiatives from the International Center for Aggregate Research, the European Asphalt Pavement Association, the South African Asphalt Pavement Association, problem statements from TRB committee Websites and the NCHRP Website. All of these contributions are valuable and are greatly appreciated. All of the organizations and individuals worked hard to make this report a valuable resource and are proud to call it our "commitment to the future." It is our hope this report will be used often in shaping the future of asphalt technology in the United States.

This Roadmap presents the needs and state-of-the-art of asphalt pavement technology.

The National Asphalt Roadmap is structured into programs and projects. Seven (7) program areas are chosen to frame the major components of asphalt technology: Workforce Development, Long-Life Pavements and Pavement Performance, Improved Structural Design of Pavements, Materials Characterization and Mix Design, Construction Practices and Quality Management Systems, Innovative Contracting Approaches, and Surface Characteristics. Each program area has an introduction to provide insight into the current status of products, equipment and technology and the major challenges in that area.

The National Asphalt Roadmap identifies a number of general research projects in each of the program areas. There is a total of sixty-nine (69) projects identified. The selection of projects is based on a consensus of experts from all segments of the Asphalt Community. The research projects contained in the Roadmap are broad in scope. Each of the projects includes a brief problem statement that provides an introduction and background information related to the research needed in that project area. It should be remembered the intent of the problem statement is to provide an overview of a research topic and not necessarily to completely define a specific research project. It is likely a number of actual research projects with more specific scopes can be identified within each problem statement.

The tasks enumerated under each project are structured to result in clear and useful outcomes. The projects are presented in a format that includes: title, objective, introduction, background, expanded objective statement, and a work plan consisting of anticipated tasks. Download Document: [Complete Report with Research Problem Statement Executive Summary](#)