

STRATEGIC PLAN — LTPP — FOR LONG-TERM PAVEMENT PERFORMANCE DATA ANALYSIS

November 9, 1999



PURPOSE AND GOAL

The purpose of this plan is to guide recommendations by the TRB LTPP Committee concerning the national-level analysis of data collected within the Long-Term Pavement Performance studies.

The goal for this plan is to develop knowledge, relationships, prototype performance models and other findings to facilitate improved pavement treatment strategy selection and reliable performance prediction.

The Committee will use this plan to help it determine whether the limited resources available for LTPP data analysis are used in the most effective manner. The Committee will evaluate newly proposed analyses, work currently in progress, and completed work for compliance with this plan. The Committee understands that the Federal Highway Administration intends to use this plan for similar purposes.

The Committee invites all agencies that are partners and participants in the LTPP studies to adopt this plan. If so adopted, this plan will provide uniform guidance for national-level LTPP data analysis.

The Committee formally adopted this strategic plan at its meeting of November 8-9, 1999. The plan is now in effect, and will be kept current by the Committee from this date forward to the completion of LTPP. The Committee will review the plan annually, and will update it when necessary.



EXPECTATIONS

It is anticipated that this plan will be used to:

1. Guide development of LTPP analysis problems by the TRB ETG on Data Analysis.
2. Guide selection of LTPP analysis problems by the TRB LTPP Committee.
3. Support the programming of national-level LTPP analysis by sponsors.
4. Guide the formulation of LTPP analysis project statements.
5. Support assessment of progress in analysis of the LTPP data.
6. Communicate products anticipated from LTPP analysis.



ANALYSIS OBJECTIVES

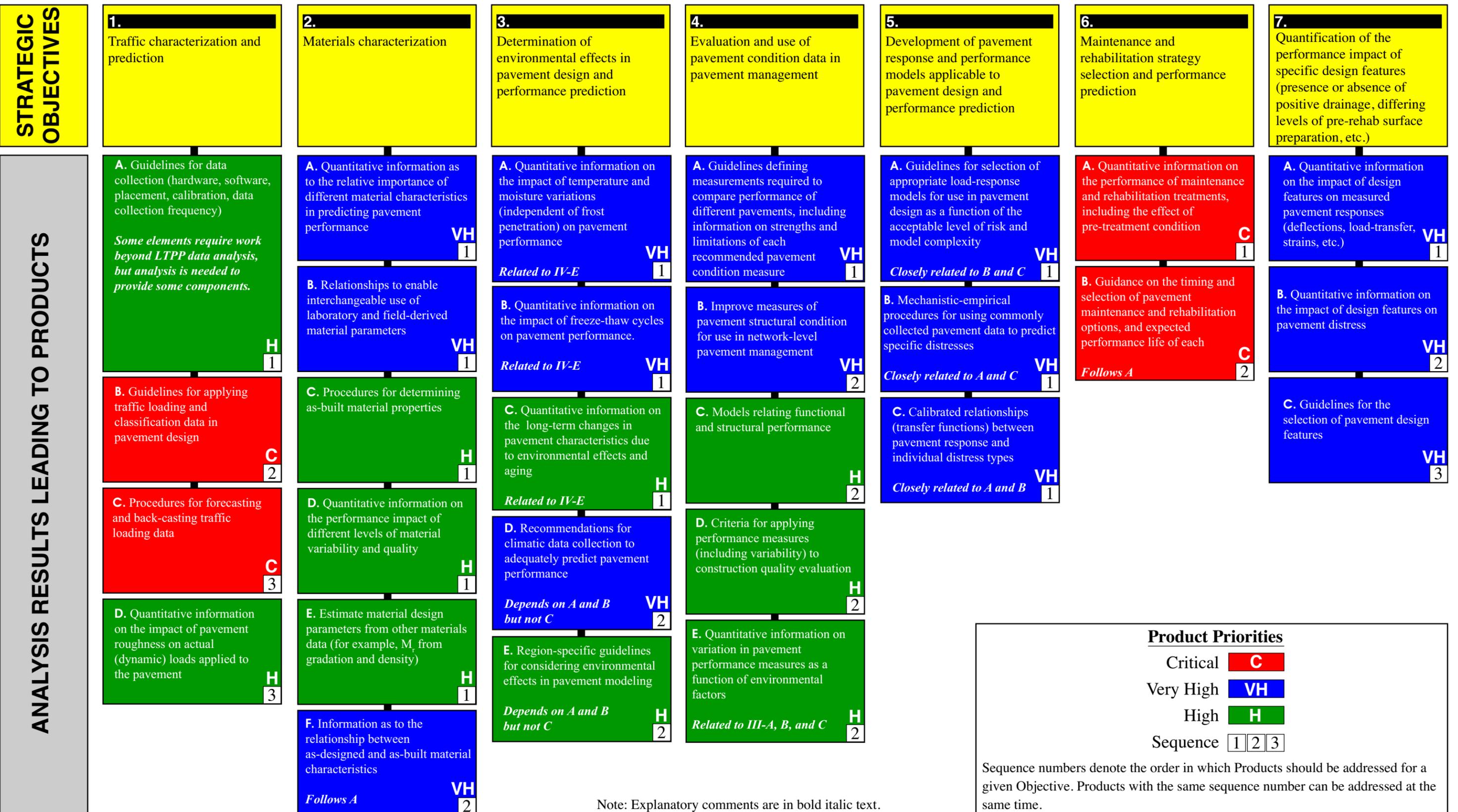
The objectives of the national-level analysis effort are as follows. Each objective is important to the achievement of the overall goal.

1. Improve traffic characterization and prediction.
2. Improve materials characterization.
3. Improve consideration of environmental effects in pavement design and performance prediction.
4. Improve evaluation and use of pavement condition data in pavement management.
5. Evaluate existing and/or develop new pavement response and performance models applicable to pavement design and performance prediction.
6. Provide guidance for maintenance and rehabilitation strategy selection and performance prediction.
7. Quantify the performance impact of specific design features (presence or absence of positive drainage, differing levels of pre-rehab surface preparation, etc.).

The specific LTPP analysis results leading to products expected to address these objectives are shown in the chart on the following page.

LONG-TERM PAVEMENT PERFORMANCE STRATEGIC PLAN OBJECTIVES AND PRODUCTS

PLAN GOAL: To develop knowledge, relationships and models to facilitate improved pavement design and reliable performance predictions.



Note: Explanatory comments are in bold italic text.

Product Priorities

- Critical **C**
- Very High **VH**
- High **H**
- Sequence 1 2 3

Sequence numbers denote the order in which Products should be addressed for a given Objective. Products with the same sequence number can be addressed at the same time.