

# FY 2009 RESEARCH PROBLEM STATEMENT

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## TITLE

CM-09-02 Develop methods for accurate construction durations for DAP/Scoping

## PROBLEM (Description of need)

Mobility planning and region commitments for project delivery are highly dependant on a wide variety of methods for developing work durations that impact the public, especially at the earliest stages of project development. Those durations are often are "guessed" and have little basis for accuracy.

## PROPOSED RESEARCH, DEVELOPMENT OR TECHNOLOGY TRANSFER ACTIVITY

Emerging technologies for parametric estimating are now being implemented within ODOT to provide a basis for reasonably accurate development of construction durations at the DAP and Scoping level of design. Existing problems with longer term commitments to the public and overlapping contract work proposals cause missed opportunities for work coordination, project delay, and public disgruntlement. These conditions can now be reasonably addressed with emerging technologies. There are a number of methods that exist today to develop reasonable construction time periods for project development over the lifetime of project development. The purpose of this research is to develop a model for integration of the diverse technologies available, into a unified model for scheduling at the scoping and parametric stages.

## BENEFITS

Provides an automated and consistent modeling process for developing parametric project schedules to increase the accuracy in project planning and development. Centralizes the data storage for project scheduling—creating more objective results--and provides an automated process for updates to the planning of projects. Supports the overall coordination of planning for projects across multiple regions and on a statewide basis and provides a schedule audit trail across the project timeline. Ultimately, improves the accuracy and efficiency of project delivery.

## CONTACT PERSON:

## FOR RESEARCH UNIT USE ONLY

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*NCHRP*  
*SPR*  
*POOLED FUND*  
*STATE*  
*OTHER*

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