

Pooled Fund Solicitation

Title: CP Road Map Operations Support
Sponsoring Agency: Federal Highway Administration
Office of Research, Development, and Technology
(RD&T)
Turner-Fairbank Highway Research Center

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Solicitation Expires: Ongoing

Commitment Start Year: 2008

Commitment End Year: 2011

Duration: 4 years (48 months), with possible extension

100% SP&R Approval: Pending

Total Commitment Required: \$300,000 total per year from States' SP&R (This funding will be combined with FHWA and industry support as outlined in the solicitation.)

Recommended Commitment Per State: \$25,000 per year per State is recommended. (Work can begin as soon as annual State commitments total at least \$100,000 and will expand as additional States join and/or commitments are made.)

Commitments Received:

Background

In March 2005, Iowa State University completed work under a cooperative agreement with FHWA to develop a Long-Term Plan for Concrete Pavement Research and Technology (www.cproadmap.org/). A comprehensive, strategic plan, called the CP Road Map, was created with the full backing and participation of the concrete pavement industry, State DOTs, FHWA, and academia. In that sense, it is the concrete pavement community's research plan.

The CP Road Map is strategic in that it guides the investment of concrete pavement research dollars toward the development of specific technologies and systems identified by stakeholders as critical for accomplishing customer-driven goals. It is comprehensive in that it helps the concrete pavement community meet today's paving needs and tomorrow's pavement challenges.

Composed of integrated research tracks, with more than 250 research problem statements, the CP Road Map is not itself a funded program. Instead, it provides a collaborative management structure for existing local, State, and national concrete pavement research programs to focus their investments (about \$300 million over 10 years) on stakeholder-identified priorities.

The CP Road Map's collaborative management structure consists of four groups:

1. The Executive Committee: representatives from the three major interest groups—Federal and State agencies and industry. It is primarily a decision- and policy-making group.
2. Sustaining Organizations: funders/sponsors of research and/or those who conduct specific elements of the research, generally through collaborative partnerships.
3. Track Team Leaders: individuals and organizations that collaborate to guide the conduct of each track.
4. Operations Support Group: paid, professional management support services to the Executive Committee and, to some degree, the Track Team Leaders. The group implements the Executive Committee's decisions and acts as the committee's hands and feet in fulfilling its responsibilities to foster collaborative partnerships and community-wide communications, prioritize tracks and organize Track Team Leaders, promote innovative and cross-track technology transfer activities, and serve as Track Team Leader for Track 11, business and economic initiatives.

This management structure is unique. With no dedicated source of funds, it broadly outlines a research funding approach by which sponsors collaborate to coordinate existing funding.

While this management structure does not interfere with the independence of various research programs, it asks them to embrace the value of working with possible competitors and to devote resources to goals identified by the broader community. And it requires new tools to overcome institutional and other barriers to inter-organizational collaboration.

The potential benefits of this collaborative management structure are significant:

- Ability to fund major research that is too expensive for any one organization or program.
- A strategic, proactive approach to optimizing pavements of the future that goes beyond knee-jerk reactions to existing challenges.
- Less duplication of effort across the country.
- Faster and broader implementation of results.
- Less waste.

The degree to which stakeholders experience these benefits, however, depends largely on the degree to which they fund the necessary operations support services. The FHWA has hired the National Concrete Pavement Technology Center (CP Tech Center) at Iowa State University as the Operations Support Group.

Objective of This Solicitation

Through this solicitation, FHWA and industry are seeking partner State departments of transportation (DOTs) to share the cost of operations support services. Continued FHWA funding is, to some degree, contingent on industry and States sharing the burden. Industry has committed to participating, as described briefly under **Contract administration** below, and also has the flexibility to provide some special-needs funds.

By participating in this pooled fund, State DOTs will help ensure that Federal support continues. They will also demonstrate their own commitment to ensuring that the CP Road Map's groundbreaking approach to research will succeed and that they will be able to reap its potential benefits.

Scope and Tasks

The Operations Support Group's tasks, generally defined in the CP Road Map report (www.fhwa.dot.gov/pavement/pccp/pubs/05052/index.cfm), have been more specifically defined through the CP Tech Center's contract and task orders with FHWA. The tasks that may be pursued, subject to funding availability and concurrence of the participating agencies, generally fall into three categories, as shown in table 1.

In addition to general tasks outlined in table 1, every other month the Operations Support Group will provide a briefing and collect feedback by teleconference with FHWA and the pooled-fund TAC (or its board). Minutes will be recorded, sent to all via e-mail, and posted on the website (www.cproadmap.org/).

State agencies participating in the Road Map will benefit from all categories of operations support. However, participating States will most directly benefit from tasks that support organizing, funding, and/or conducting research at the track, subtrack, and project level, as well as core tasks like communications, the Help Desk, and collaborations facilitation, to the extent that those tasks are funded.

Table 1. General Operations Support Group Activities

Activities	Example Tasks
Operations management	<ul style="list-style-type: none"> • Coordinate and facilitate Executive Committee's leadership and oversight activities and decisions • Oversee track- and project-level budgets • Provide detailed financial and progress reports as described under Reporting, below • Inspire and facilitate stakeholders' support for and active participation in the CP Road Map • Champion the CP Road Map to stakeholders and the public
Core support elements	<ul style="list-style-type: none"> • Develop and maintain (through at least annual surveys) the research database that composes the Road Map tracks and update the Road Map as research gaps are filled • Facilitate ad hoc and/or longer term collaborations for funding and/or conducting research, assisting in the development of tools that make inter-organizational collaborations possible • Develop and maintain project management system

	<p>for tracking project tasks, coordinating and integrating research across tracks and across projects as appropriate, broadly disseminating products of research, etc.</p> <ul style="list-style-type: none"> • Staff an expert "Help Desk" to provide one-on-one assistance to stakeholders as needed • Support communications within and among tracks and to all stakeholders and other audiences through an interactive website, targeted publications, e-newsletters, etc.
Track management	<ul style="list-style-type: none"> • Organize and support track and subtrack leadership • Develop detailed research framework for each track, identifying priority needs, timeframes, potential funding partners and/or mechanisms, etc. • Plan, coordinate, and facilitate track leaders' meetings (face-to-face and teleconference) • Annually revisit track priorities

Funding and Contracts

The total annual funding needed to fully support infrastructures and initiate/maintain work on at least five priority tracks is \$750,000. Historically, FHWA has funded these activities at \$300,000 per year. Future FHWA commitments will depend on the level of support demonstrated by other stakeholders. Industry has committed \$150,000 for FY 2008.

Flexible State participation

Note that the funding level is flexible, depending on each State's ability to contribute. Funding in the amount of \$25,000 per State per year is suggested. However, States may participate at higher or lower levels.

Work will commence when initial annual commitments to the pooled fund total \$100,000 and will expand as additional States join and/or additional dollars are committed.

All State DOTs contributing \$5,000/year or more to this pooled fund will be members of the pooled-fund TAC overseeing the States' investment. (The TAC may or may not select a smaller group, or board, to act on its behalf.) The TAC and/or its board will meet twice a year, preferably in conjunction with meetings of the CP Road Map Executive Committee. As administrator of the

pooled fund, FHWA will be an ex officio member of the pooled-fund TAC.

All State DOTs contributing a minimum of \$25,000 annually will be eligible for election by the TAC to one of two, 1-year seats on the Road Map Executive Committee. These seats will be in addition to five, 3-year State seats on the Executive Committee. The pooled-fund TAC representatives will have full rights of membership, including voting, and will act specifically as liaisons between the pooled-fund TAC and the Executive Committee. No 3-year Executive Committee member can simultaneously be liaison to the pooled-fund TAC, and vice versa. TAC liaison travel expenses for Executive Committee meetings will be reimbursed.

Contract administration

These funding sources are independent of each other. Industry, for example, has an ongoing commitment to support CP Tech Center's operations. FHWA's contributions are provided via a 5-year contract with the CP Tech Center and administered through annual task orders; the contract is currently in its second year. At the end of the 5-year contract and depending on the status and success of work and the level of interest demonstrated by pooled-fund participants, FHWA may pursue a new competitive contract for CP Road Map operations support services for the second 5 years of the CP Road Map research program.

The pooled-fund TAC will provide recommendations regarding track management tasks for FHWA's annual task orders. Because this is an FHWA-led pooled fund, annual task orders can be amended as funding and/or needs change.

Reporting

The Operations Support Group will keep records identifying how each source of funds is used (i.e., FHWA contract, pooled funds, and industry contributions) and how specific tasks are progressing and will report on the funding and tasks to all three funding sources as described below.

Quarterly reports

The Operations Support Group will complete quarterly reports for the previous 3-month period by January 15, April 15, July 15, and October 15. Electronic reports will be distributed to FHWA, the pooled-fund TAC, and the Executive Committee and will be posted on the website (www.cproadmap.org/). The reports will summarize activities during the last quarter, status of tasks

and budgets, problems that have developed, and activities planned for the next quarter.

Annual reports

The Operations Support Group will submit annual reports to the FHWA, the pooled-fund TAC, and the Executive Committee and post reports on the website (www.cproadmap.org/). The reports will summarize activities during the last year, focusing on products; status of tasks and budgets; and activities planned for the next year.

Final report

When the contract ends, a final report will be submitted to the FHWA, the pooled-fund TAC, and the Road Map Executive Committee and posted on the website (www.cproadmap.org/). The report will summarize the status and expenditures of concrete pavement research under the CP Road Map, descriptions of track leadership, research and technology transfer accomplishments under the Road Map, and remaining research needs in the Road Map. It will also include suggestions for followup (e.g., evaluation of collaborative approach to research under the CP Road Map, evaluation of the Road Map's success, continuation of the CP Road Map system and use of its infrastructure, etc.).

Estimated Project Duration

This solicitation requests, in general, up to a 4-year commitment of support from State DOTs, beginning in 2008. Work can be initiated as early in 2008 as annual commitments to the pooled fund total at least \$100,000; work will be expanded as more dollars are committed. This solicitation is ongoing, and States may join at any time for the remainder of the pooled fund.

The pooled fund may be extended for approximately 5 more years, and State DOTs will have an opportunity at that time to re-commit.