ONE-PAGE SUMMARY OF

FHWA Cooperative Agreement 693JJ31950004 (2019-2024) *Summary of Accomplishments in Support of Advancing Concrete Pavement Technology Solutions*

Under the 2019–2024 Advancing Concrete Pavement Technology Solutions cooperative agreement with the Federal Highway Administration (FHWA), the National Concrete Pavement Technology Center (CP Tech Center) undertook the task of bringing the latest innovations, knowledge, and technologies to state highway agencies (SHAs). The cooperative agreement was divided into the following six work areas:

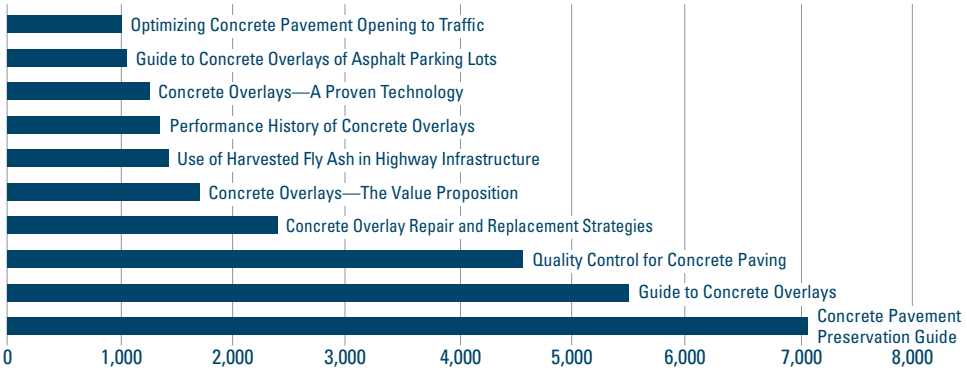
1. Deployment of new, cost-effective designs, materials, recycled materials, and practices to extend pavement life and performance and to improve user satisfaction.
2. Reduction of initial costs and life-cycle costs of pavements, including the costs for concrete pavement rehabilitation and maintenance.
3. Deployment of accelerated construction techniques to increase safety and reduce construction time and traffic disruption and congestion.
4. Deployment of engineering design criteria and specifications for new and efficient practices, products, and materials for use in highway pavements.
5. Deployment of new nondestructive and real-time pavement evaluation technologies and construction techniques.
6. Effective technology transfer and information dissemination to accelerate implementation of new technologies and to improve life, performance, cost-effectiveness, safety, and user satisfaction.

SUMMARY OF ACCOMPLISHMENTS

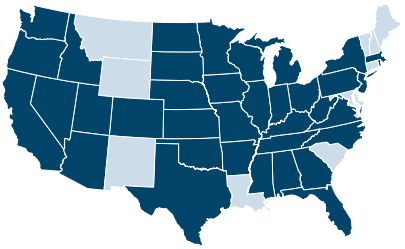
The cooperative agreement included the development and publication of 5 guides and manuals, 15 tech briefs, 8 tech summaries, 19 case studies, 11 one-pagers, 5 reports, 3 American Association of State Highway and Transportation Officials (AASHTO) products, 2 white papers, 4 videos, 4 spreadsheets, 11 demonstration project or field reports, and a draft model specification. Cooperative agreement documents were downloaded from the CP Tech Center's website more than 35,000 times during the contract period.

In addition, the CP Tech Center delivered between 40 and 60 presentations and workshops across the country each year on topics related to the six work areas to an average of about 115 attendees/participants per workshop. Over the five-year span of the cooperative agreement, CP Tech Center staff reached roughly 28,000 people via these in-person training events.

A total of 40 different webinars related to cooperative agreement topics were also delivered as part of the CP Tech Center's technology transfer efforts. An average of 408 attendees participated in each webinar, for a total of over 16,000 attendees.



Top 10 most frequently downloaded cooperative agreement publications from https://www.cptechcenter.org/ since March 2022



States where presentations and workshops were held between 2019 and 2024

Finally, six Concrete Pavement & Materials Stakeholder Feedback meetings were held across the United States between 2022 and 2024, enabling discussion of program-level challenges and opportunities concerning the performance and sustainability of concrete pavements and providing technical information to FHWA. Participants included representatives from owner agencies, industry, and academia.

RESEARCH PARTNERS NATIONWIDE

The CP Tech Center partnered with experts in their respective fields across the nation to develop the various publications and presentations under the five-year agreement. Guides and manuals were also peer reviewed by a large pool of representatives from academia, FHWA, consultants, state agencies, contractors, trade associations, and other entities depending on the subject.

View the complete summary brochure

National Concrete Pavement Technology Center

Tech Center

IOWA STATE UNIVERSITY
Institute for Transportation

cptechcenter.org | 515-294-5798