

Wisconsin Highway Research Program

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Research Implementation & Project Closure

Project Information

(To be completed by WHRP staff when draft report is received) **Date completed:** May 17, 2006

Project Title: Integrated Field and Office Tools for Bridge Management	Project ID: 0092-03-10
Technical Oversight Committee: Structures	TOC Chair: Stanley Woods
Project Start Date: January 31, 2003	WisDOT Project Manager: Stanley Woods
Project End Date: January 31, 2004	Approved Contract Amount: \$ 67,538.00
Final Report Dated: January 2004	Actual Project Expenditures: \$ 67,537.99
Principal Investigator: Teresa Adams Organization: University of Wisconsin-Madison	Co-investigators (including research assistants) and Organizations: James Dzienkowski, Emil Juni, Mohshin Siddiqui, UW-Madison

Implementation / Further Research Recommendations

(Information provided by TOC and WisDOT project manager when final report is approved) **Date completed:** September 8, 2006

1. What WisDOT policy or practice does this research project pertain to? Please identify the specific section(s) of the Facilities Development Manual (FDM), Construction and Materials Manual (CMM), Standard Specifications, other manual, or accepted practice to which this research pertains.

A practical research project that studied the use of new technology with regards to hand held tablet PC's for Bridge inspectors.

2. Based on the results of this research, the following steps are recommended. (Please select either A, B or C, and provide detail in Items 3 to 7, below.)

A. No further activity is necessary. (Please skip to Item 7.)

B. Revisions to WisDOT policy or practice are not appropriate at this time. However, to gain further value from this research, we recommend follow-up research and/or validation activities as detailed in 3 through 6, below.

C. The Technical Oversight Committee recommends implementing changes to the following WisDOT policies or practices. (Please identify specific section(s) of specific manuals, where applicable):

Bridge inspection activity can benefit from tablet PC use.

3. Describe the scope and objectives of follow-up research or implementation of specific changes to WisDOT procedures.

Bridge inspectors may use recommended tablet PCs for field inspection. Many do at this time in certain districts.

4. Details of Follow-up Research or Implementation Activities:

Task	Person responsible	Target completion date
1. N/A		
2.		
3.		
4.		
5.		
6.		

5. Estimated cost, if any, for equipment, training, printing, etc.:

No additional cost; equipment in use and training was part of study.

6. Expected benefits and how they will be measured (dollar savings, time savings, etc.):

Increased efficiency of collection process, as well as efficiency of data integration into bridge management system.

7. Reasons for terminating activities related to this research project:

N/A

Project Closure

(Information provided by principal investigator and WisDOT project manager when final report is approved)

Date completed: September 8, 2006

Timeline and budget

1. Was the project completed on time (i.e., per the original contract between WisDOT and the performing organization)?

- Yes
 No

1a. If not, what additional time was needed to complete the project?

What were the reasons?

- Data access Reporting/revision delay
 Testing delay Research subcontractor delay
 Construction delay Work plan modification
 Administrative delay

2. Was additional funding sought for this project?

- Yes
 No

2a. If yes, how much?

Was the funding approved? Yes No

For what purpose?

Partnerships and facilities

3. Did this research effort include partnerships with other universities, agencies, or other stakeholders?

- Yes
 No

3a. If yes, please list. Include the locations of any out-of-state institutions.

WisDOT; Acer Inc., Taipei, Taiwan.

4. Indicate the location of facilities used:

- University
 Wisconsin DOT
 Other:

4a. Please describe the type of laboratory and testing facilities used.

At UW-Madison campus, and various bridge inspection sites around state.

Student involvement

5. Were graduate students employed for this study?

- Yes
 No

5a. If yes, how many? Not known.

Number male

Number female

6. Did any of the graduate students use this research project in a published thesis or article?

- Yes Not sure
 No N/A

6a. Citations of published theses or articles:

7. Were undergraduate students employed for this study?

- Yes
 No

7a. If yes, how many?

Number male

Number female

8. If known, please list the graduate students' current occupations or affiliations (e.g., continuing graduate education, employed at a public agency or private firm, etc.) and completed degrees and awarding institutions.

Not known.

9. If known, please list the undergraduate students' current occupations or affiliations (e.g., continuing graduate education, employed at a public agency or private firm, etc.) and, where applicable, completed degrees and awarding institutions.

N/A