

Project Information Form

Project Title	Information Services in Social Networked Transportation
University	Georgia Institute of Technology
Principal Investigator	Prof. Hans Klein and Prof. Kari Watkins
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Funding Source(s) and Amounts Provided (by each agency or organization)	GDOT = \$146,553 USDOT UTC = \$62,856
Total Project Cost	\$209,409
Agency ID or Contract Number	RC500 (2006T07), RC500 (51266BC) and RC614 (51366BB)
Start and End Dates	5/1/12 - 6/30/14
Brief Description of Research Project	<p>Traditionally, transportation is understood as the physical displacement of people, goods, and vehicles. Information technology is often used to model the system or to optimize the system. Here, however, we see information as the essence of the system. In the social networked paradigm we reconceptualize transportation as an <i>information ecosystem</i> in an <i>institutional landscape</i>. This project will analyze information flows and institutions in surface transportation in order to promote new information services. It attempts to illuminate the evolving role of state DOTs as transportation becomes more information intensive.</p> <p><u>Objectives / Tasks:</u> Task 1: Theory: Develop a Class on Social Networked Transportation Task 2: Distill Lessons from the IT and Energy Sectors Task 3: Survey and Analysis of Transportation Systems Task 4: Toward Action: Trends, Visions and Strategies for Transportation</p>
Describe Implementation of Research Outcomes (or why not implemented) (Attach Any Photos)	<p><u>Task 1:</u> This task includes developing a conceptual framework for understanding social networked transportation and substantial literature review. The conceptual framework was finalized and presented to a professional audience at the ITS World Congress (October 2012). Based on feedback it was refined and further developed as a course taught in Fall semester 2013 called "The Internet and ITS".</p> <p><u>Task 2:</u> A paper on the Internet and the Green Button Initiative in the energy sector to distill lessons for institutional design for standards and strategies for interconnection, as well as application development is</p>

	<p>being refined for submission.</p> <p><u>Task 3:</u> For the Traffic Management Center analysis, the survey was conducted and preliminary analysis completed. A paper on open data and transit systems application developer outreach was presented at TRB in January 2013. A crowd-sourced transit ambassador program was developed to overcome data errors for the OneBusAway project in Seattle. Research is being conducted to compare the standards development processes of USDOT’s TCIP, Google’s GTFS and the SIRI standard. Researchers presented at multiple sessions at the ITS World Congress in October, including "The Internet Paradigm and ITS", moderated by Kari Watkins, with presentations on "Managing traffic using third-party data: Are TMC's ready?" by James Wong and "Real-time transit passenger information: A case study in standards development" by Landon Reed. Dr. Watkins also presented in the session "What are the Effects of Open Data on Public Transportation".</p> <p><u>Task 4:</u> Transportation Camp unconference and a civic hack-a-thon were held in February.</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>None yet.</p>
<p>Web Links</p> <ul style="list-style-type: none"> • Reports • Project website 	<p>Project is described here: http://watkins.ce.gatech.edu/node/11.</p> <p>Details about Transportation Camp South: http://transportationcamp.org/south/.</p> <p>TRB paper: http://trid.trb.org/view.aspx?id=1240398</p> <p>"Social networking and ITS: Roadmap to a revolution?" Hans Klein, 2012 ITS World Congress, http://files.2012.itsworldcongress.com.s3.amazonaws.com/pdf/141012-VIENNA-FINAL-PROGR-BD.pdf</p> <p>"The Internet Paradigm and ITS" and "What are the Effects of Open Data on Public Transportation", 2013 ITS World Congress, http://www.itsworldcongress.jp/common/pdf/preliminary/preliminary_program.pdf</p>