

Protection of personal privacy was built into the very core of the reporting technology used in Mobile Millennium. From inception, researchers built safeguards into the system, such as stripping individual device identifiers from the transmitted traffic data, using banking-grade encryption techniques to protect the transmission of data, and drawing data only from targeted roadways where traffic information is needed. This Privacy By Design(TM) system continuously filters information to remove data that can be tied to a particular phone, minimizing the

amount of sensitive information ever created, transmitted or stored.

"Berkeley is contributing our expertise in traffic modeling and systems engineering to help make this complex system come to life," said Alexandre Bayen, professor of civil and environmental engineering at UC Berkeley. "As part of a public university, we are thrilled to be working on a project with such enormous potential for public benefit," Bayen said.

Mobile Millennium is being funded in part by a grant award from the US Department of Transportation under the SafeTrip-21 initiative. Locally, Caltrans, who is also assisting in the logistics of trial and enabling comparison with the data collected by the existing sensor networks, aims to find a lower-cost and more reliable solution than that which is available today. "Real-time traffic information collected through this community-based technology is of great interest to transportation agencies, "noted Randell Iwasaki, Chief Deputy Director of Caltrans. "Our goal is to increase information flow to and from travelers in a costefficient, effective manner. We are excited about the potential benefits of a system such as Mobile Millennium," Iwasaki added.

Information about Mobile Millennium, supported devices and the software download can be found at http://traffic.berkeley.edu.

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