Abstract: Inefficient use of drayage trucks results in pollution and congestion. A full measure of the current state of drayage efficiency and future changes as trade volume grows can only be obtained through detailed tracking of drayage activities. Tablet computers provide an ideal platform for the design of an electronic on-board recorder for such tracking. In this seminar, we will present our experience with the development of such a device and finding from the data collected.

A thorough understanding of truck flow inefficiencies and freight flows patterns not only provides useful data for the trucking industry to devise strategies for productivity improvement, but also helps stakeholders in supply chain management, including the ports and terminal operators, to identify the sources of inefficiency in drayage, quantify the impacts of these inefficiencies, and develop solutions. This is especially important in Southern California, home to the largest port complex in the United States and a large and growing population.

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