The idea behind this research is to develop a mobile application called Transafe, which can be used to capture and analyse public perceptions of safety to deliver ‘crowdsourced’ collective intelligence about places in the City of Melbourne, Australia, and their affective states at various times of the day. Public perceptions of crime on public transport in Melbourne are often mismatched with actual crime statistics and such perceptions can thus act as social barriers to visitors and locals traversing within and through the city. Using interactive mobile applications and social media, the visualization of this crowdsourced safety perception information will increase commuter awareness of the situations in the City of Melbourne. In addition, through social behavioral analysis and ethnographic research, the collective public intelligence will also help inform the stakeholders of the city for future policy-making and policing strategies for safety perception management. At the centre of the proposed platform is the design and development of a mobile phone application that can contribute to people feeling safer by supporting users to report crimes and misdemeanors that they witness, and provide information about transportation and emergency services around where the users are located. The proposed application can also act as a crime deterrent with one feature that enables user tracking by up to three nominated friends if the user opts to activate tracking when feeling unsafe while roaming the city. Developing the proposed Transafe mobile phone application on the iPhone and Google Android platforms are the immediate next steps in the project. Improving human-computer interactions, data collection efficiency, and user testing evaluation must also be further studied to enhance the interface design of the application and increase crowd participation in using and contributing to the Transafe database.