

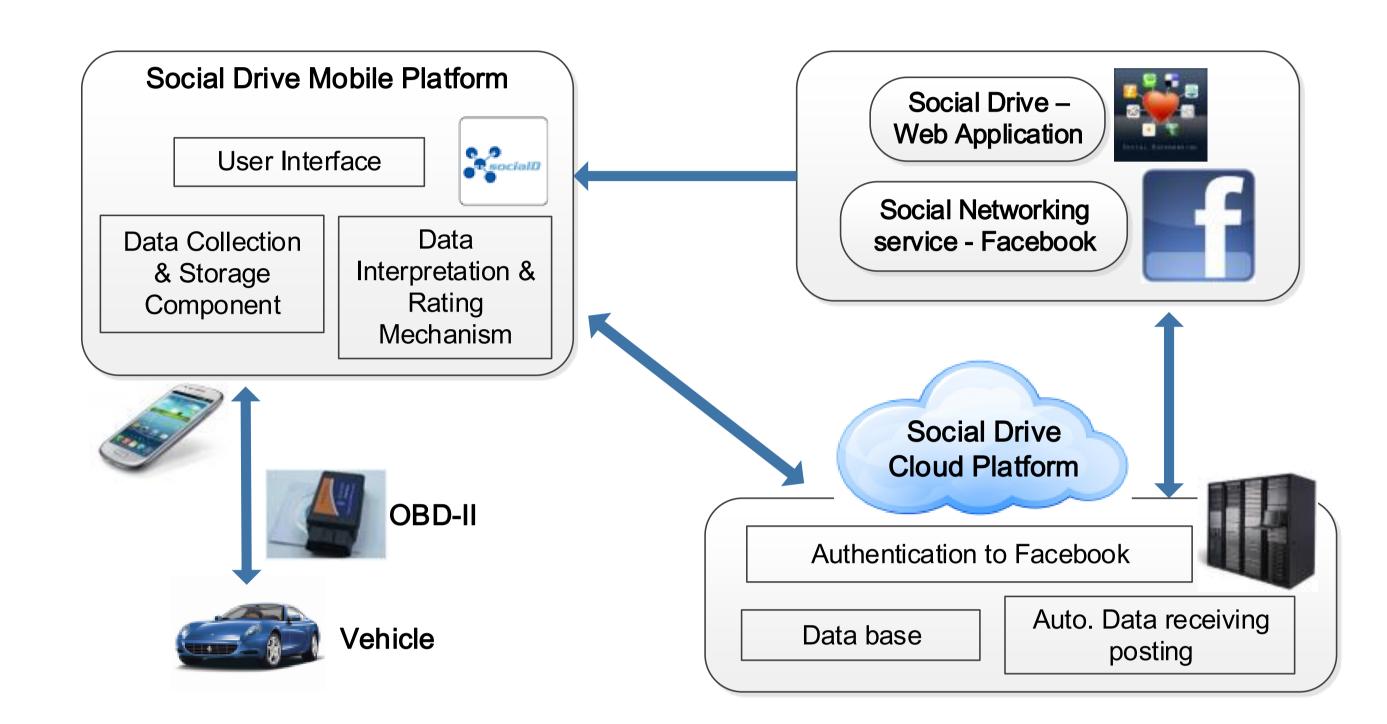
ReThinking Sustainability



Social Drive: A Crowdsourcing-based Vehicular Social Networking System for Green Transportation

Xiping Hu, Victor C. M. Leung

Social Drive System



System architecture of Social Drive

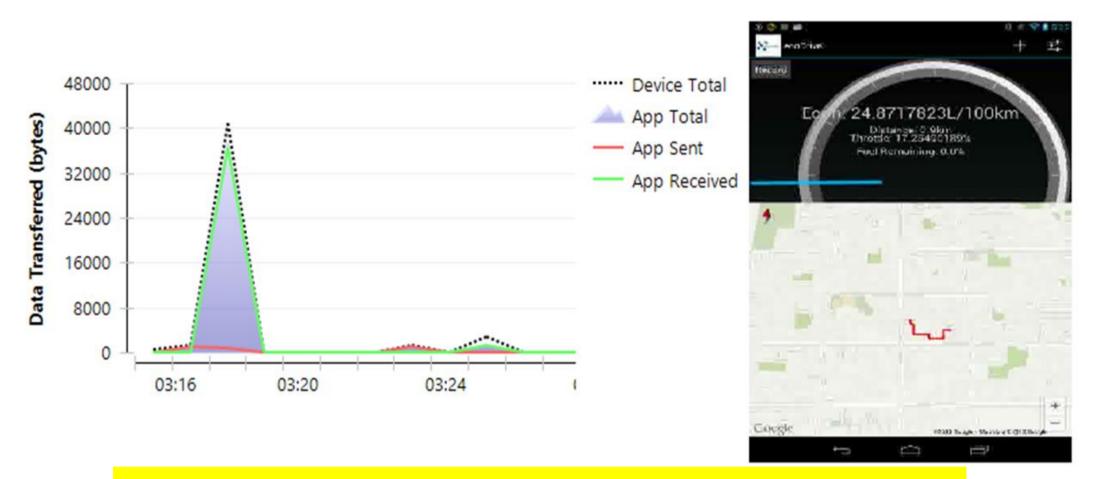
Social Drive: a novel crowdsourcing-based vehicular social networking system for green transportation.

Object

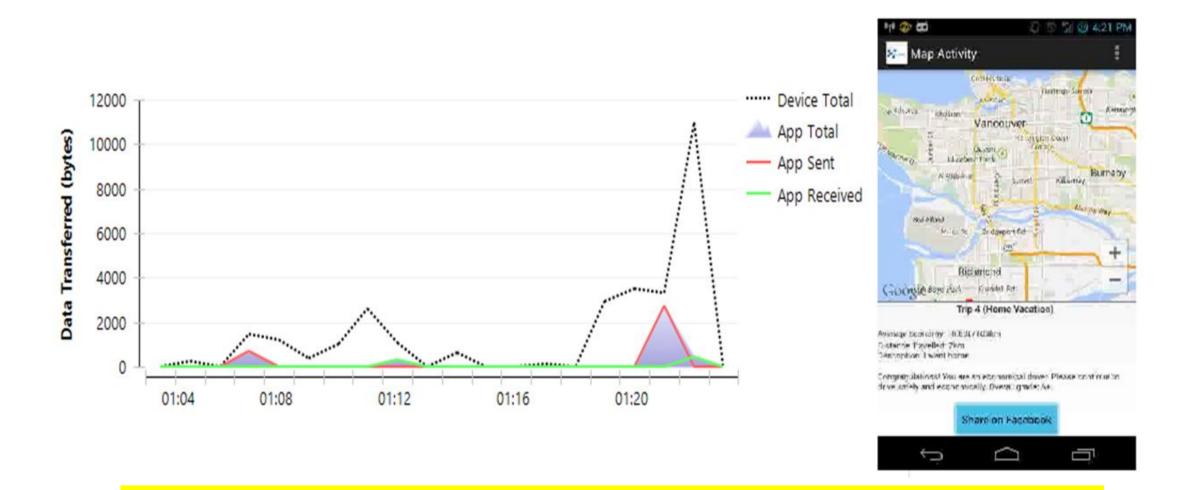
- Provide a seamless and comprehensive solution that could support real-world deployment of vehicular social networking (VSN) applications.
- Leverages advantages of OBD-II and popular social networks with friendly user interface (UI), so as to help the drivers to improve their driving behaviors with an easy and pleasure with their friends, that towards green transportation



Evaluations



Networking overhead of social drive – in driving period



Networking overhead of Social Drive - posting trip

Contributions

Social Drive provides the first seamless solution with a user friendly mobile application

- Provides drivers with feedback about their driving behaviors
- Supports sharing of users' trip information via widely used social networks, to stimulate people to improve their driving habits for better fuel economy with friends

We deploy and evaluate Social Drive through a set of real-world scenarios

- Verify the feasibility of Social Drive.
- Provide practical experience that inspire future research and development of mobile social networking applications for green transportation.

X. Hu, V.C.M. Leung, et al, "Social Drive", ACM MobiCom Mobile App Competition finalist, 2013 (acceptance rate 19.2=10/52)

X. Hu, V.C.M. Leung, et al, "Social Drive: A Crowdsourcing-based Vehicular Social Networking System for Green Transportation," *In Proc. ACM DIVANet 13*, Barcelona, Spain, 2013. (acceptance rate 14.5%=16/110)





















