CAISR

Centre for Applied Intelligent Systems Research

Knowledge Foundation

InnoMerge

Volvo Group Trucks Technology, Chalmers University of Technology and Halmstad University

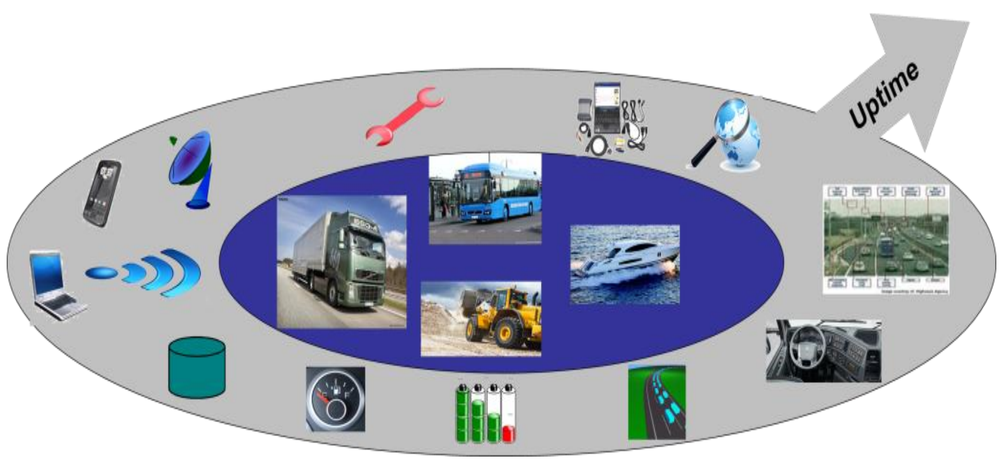
The InnoMerge project addresses the challenges related to the major growth opportunities expected to be found in emerging markets such as India and East Asia. The main objective of the project as a whole is to build knowledge on how advanced technologies and business models can be transferred to, and from, an emerging market context.

InnoMerge targets uptime and traffic safety as primary application areas, including the development and testing of business models and technology for on-board diagnostics, predictive maintenance and intelligent monitoring.

From CAISR perspective, the main challenge is how to adapt data mining algorithms to settings with a lot less data available, and a significantly less developed knowledge base. This is an interesting exercise in scalability, since where modern high-end truck in European market can have up to 50 electronic control units, in InnoMerge we expect to be working with vehicles containing 3 to 5 ECUs. Moreover, in western markets Volvo has a quite complete database of service events, going several years back, but there is no equivalent knowledge base in India or China.

InnoMerge also aims at increasing cooperation between Swedish and Indian academia and industry.

Data has so far been collected in a test driving track across a wide range of situations encountered by a vehicle operator to cover many aspects of vehicle usage and the effect on vehicle components. During 2014, the collected data will be analyzed and the possibility of usage profiling based on a limited number of sensors will be explored.



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