

The ETSI standards for intelligent transport systems (ITS) were released during 2014. This will catalyze the introduction of ITS components and applications to the traffic system. To hold Sweden's leading position in automotive and communication technologies, it is important to establish an open platform for ITS research, and to demonstrate the usefulness of ITS applications. The iTRANSIT project contributes to this by developing key enabling technologies: prototypes for mobile and stationary ITS stations with a certifiable Facilities layer, intelligent traffic-management server with logging capability, affordable positioning based on data fusion, and efficient digital maps. The usefulness of these technologies will be showed in three demonstrators, among which are an intelligent intersection and a configurable road-side unit. The intelligent traffic management server will have the possibility to aggregate local dynamic maps (LDMs) from ITS actors to a global dynamic map (GDM) used for tactical and strategic traffic decisions, as well as introducing virtual ITS actors with LDMs for stress testing and testing of complex scenarios. The content of the GDM shall be visualized in real-time using 3D graphics in a web page to facilitate different platforms.