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The Geopositioning group of the Monitoring, Assessment and Computational Science (MACS) Department at IFSTTAR have been involved in the GNSS research for more than 20 years.

From 1990 to 2004, the team has developed a national and international level research activity in the field of site robotics for road construction and maintenance, together with a deep expertise on high-precision GPS systems and in particular in full-scale assessment of this type of systems.

Since 2004, the group has switched to research in Intelligent Transport Systems and has developed a new expertise in the field of quality of service of GNSS-based positioning systems for road vehicles.

For instance, the team has developed innovative algorithms for lane-level positioning systems in the frame of the FP7 CVIS Integrated Project (<a href="http://www.gsa.europa.eu/go/news/satellite-navigation-key-to-interactive-road-transport-applications">http://www.gsa.europa.eu/go/news/satellite-navigation-key-to-interactive-road-transport-applications</a>) and has published a lot of papers in this field.

Very recently, the team has supported with its expertise the people of the Ministry in charge of Transport in the bidding procedure to select a concessionaire for the French Road Tolling system that will be based on GNSS technology.

The team possesses a test vehicle dedicated to positioning systems assessment, equipped with a high-grade reference "trajectometer" capable to provide the "ground truth" in any kind of environment.

Applied research in GNSS for road transport





