Today, vehicle noise is identified in opinion pools as one of the main annoyance source in urban areas. To face this issue, truck manufacturers are today developing low noise vehicles in order to allow their customer to deliver goods in urban areas during night.

An acoustic research program has been launched by Volvo 3P (Volvo Trucks, Renault Trucks and Mack Trucks): the LUT project as Low Noise Urban Truck. The partners of the project are Michelin, the Institut National des Sciences Appliquées de Lyon (INSA) - a French university - and Marmonier - a noise shield manufacturer -. This project has been founded by ADEME

The target in terms of noise reduction is ambitious because the low noise truck will emit an acoustic power four times lower than today’s vehicles in specific rolling conditions! Methods and tools have been developed to analyze the vehicle noise sources in urban conditions and define acoustic solutions to reduce the main vehicle noise sources.