



The Automotive Research and Development Laboratory (ADL) was founded in October 2005, with the aim of creating new technologies for automotive systems in Europe.



The Laboratory has two locations; Munich and Paris, where the Automotive System technical and business staff are located.



ADL's main mission is to support automotive business in Europe through R&D in order to develop new products.

The laboratory also aims to utilize state-of-the-art technologies through joint research projects with universities, consortiums, and through conference activities.

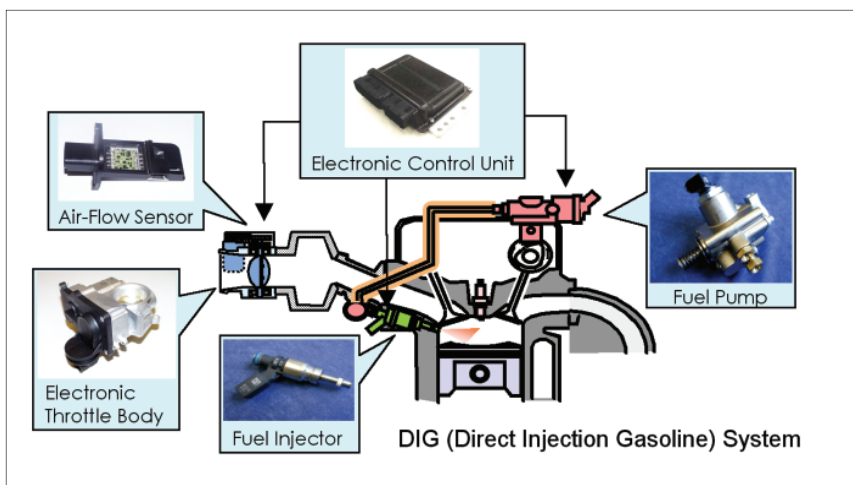
Main research subjects include:

- Engine Management Systems
- Electric Powertrain Systems
- Drive Control Systems
- Car Information Systems
- Electric/Electronic Platform

Engine Management Systems

Hitachi supplies DIG (Direct Injection Gasoline) engine systems and components, which allow lower emissions, higher fuel efficiency and higher performance required for the internal combustion engines.

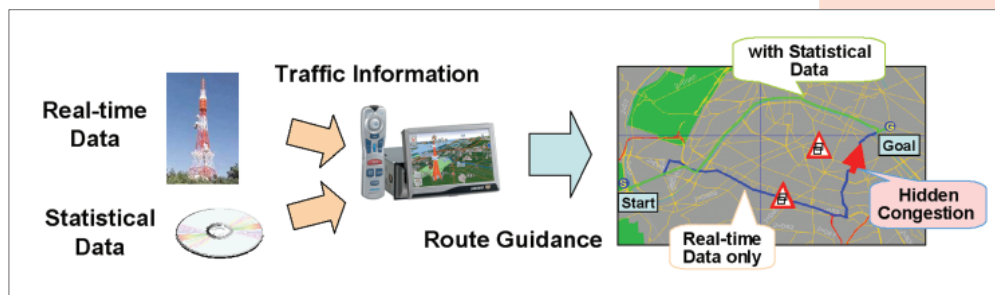
ADL supports the development of new components and systems on the technical and theoretical side with simulations and experiments.



Car Information Systems

Car navigation systems are becoming popular in Europe. It has become an important and effective method for drivers to plan their journey.

ADL is developing a new navigation system using traffic information. By utilising statistical analysis of historical traffic data, traffic delays can be forecast, allowing drivers to navigate their fastest route, avoiding the hidden traffic jams.



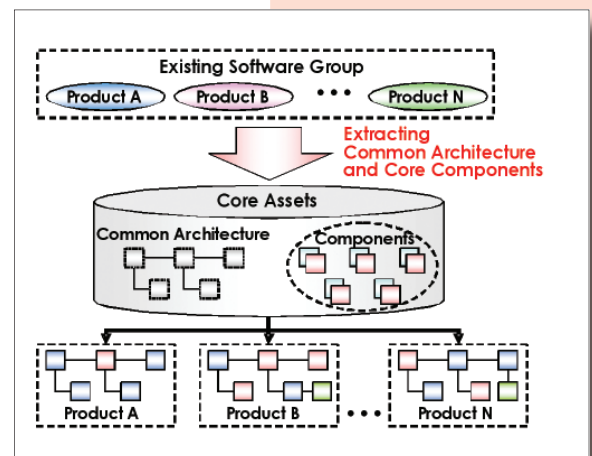
Route Guidance based on Statistical Traffic Information

Electric/Electronic Platform

More and more electric/electronic components are becoming used in automobiles. It is important to prepare reliable platforms of both hardware and software for improving development efficiency.

Hitachi is a premium member of AUTOSAR (AUTomotive Open System ARchitecture), one of the major standardizing consortiums for automotive software.

As for software reusability, ADL is conducting a joint research project with Fraunhofer IESE for the use of Software Product Line technologies.



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