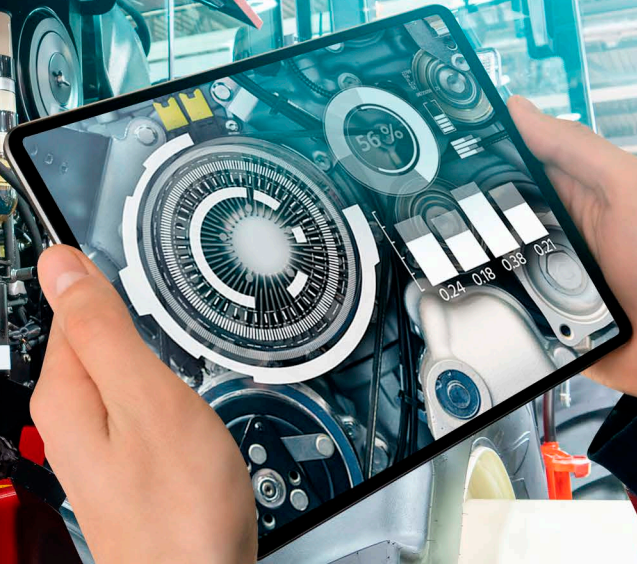


NUVE-LAB

DEVELOPING AUTONOMOUS AND
ENVIRONMENTALLY SUSTAINABLE UTILITY VEHICLES

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ENERGY EFFICIENT FUTURE VEHICLES DEVELOPMENT LAB

NUVE-LAB project builds an independent research environment for developing new energy efficient and environmentally sustainable autonomous utility vehicles. The environment is established on the Linnanmaa campus in Oulu.

NUVE-LAB is primarily funded by the European Regional Development Fund. The project is coordinated by Oulu University of Applied Sciences and is implemented in cooperation with the University of Oulu. Authority coordinating the funding is the Council of Oulu Region.

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THE ENVIRONMENT FOR DEVELOPMENT AND RESEARCH

NUVE-LAB provides development, research, and testing capabilities from passage cars to heavy utility vehicles. The equipment has been selected to be suitable for both entire vehicles, their components, and sub-assemblies.

NUVE-LAB is a unique ecosystem that offers the latest technical facilities and exceptional human resources. The location on the university campus that is one of the biggest university research communities in Northern Europe creates an outstanding opportunity for vehicle suppliers to lead the development of autonomous and environmentally sustainable vehicles.

ENVIRONMENTALLY SUSTAINABLE VEHICLES

NUVE-LAB will help autonomous and utility vehicle suppliers comply with tightened environmental requirements. There is a substantial need to reduce emissions and improve the energy efficiency of vehicles. The present combustion engine, gearing and power transmission will gradually be replaced with electric and hybrid technologies and energy reserving systems. The companies involved in the project can develop a cutting edge technology in our unique laboratory.

AUTONOMOUS VEHICLE RESEARCH

NUVE-LAB is designed to serve autonomous vehicle research and development. It contains a platform for modelling actual environments in virtual reality. Therefore, it is possible to accurately re-produce the loads simulated in virtual reality. A digital twin connected to the vehicle control system enables the development and optimization of your autonomous vehicle in controlled environment.

The technology is created in cooperation of some of the top research teams of the Nordics including teams from Oulu University of Applied Sciences, Oulu University, Luleå University of Technology and Sintef Narvik.

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Find out more information
about the project on our
website at oamk.fi/nuvelab.

