

AIC and Tecnalia present the electric vehicle motor incorporated into the four wheels

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European mobility by means of [electric vehicles](#) has become a key factor in the development of the future sustainable society. Yet despite the importance anticipated, there are still some technological difficulties in terms of energy storage and the actual power drive of the vehicles. The solutions based on the in-wheel motor constitute such a great step forward that a new generation of electric cars is expected to come onto the scene.

Provided by Elhuyar Fundazioa

AIC-Automotive Intelligence Center and Tecnalia present the latest technological innovation they have developed in the field of the electric vehicle: the in-wheel motor. This technology is the outcome of the European EUNICE project (www.eunice-project.eu/), which they have been developing together over the last four years.

The aim of this in-wheel [motor](#) is to achieve more space inside the [vehicle](#), which will allow the current concept we have of the electric vehicle to be redesigned while facilitating its driveability.

So during the project, a complete in-wheel motor has been designed, developed and validated and it fits the needs of an electric vehicle; it has successfully passed all the tests carried out relating to thermal stress in extreme driving conditions, cruising and comfort, driveability, safety and durability to demonstrate the high modularisation capacity of the vehicle's architecture.

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