



MEDIA INFORMATION

EMBARGO: 00:01 (GMT) on April 25, 2013

LAND ROVER CONTINUES TO INVEST IN THE DEVELOPMENT OF INNOVATIVE FULLY CAPABLE DRIVETRAINS

- Land Rover continues to pioneer forward looking drivetrains with the aim of increasing on and off road dynamics, reducing energy consumption and improving a vehicles all-round capability.
- Working with 10 international partners on the e-vehicle initiative Land Rover continues to offer its industry leading expertise in a bid to drive advances in electric powered vehicles.
- Land Rover is heavily involved with both the development of simulations and testing of a fully functional vehicle demonstrator via the donation of a Range Rover Evoque.

Whitley, UK, April 25th, 2013 – Land Rover is continuing to champion British technical innovation and cutting-edge automotive engineering by working in tandem with 10 international partners on the e-vehicle research project. The initiative aims to increase the industry's knowledge of electric motor applications in relation to dynamics, safety and energy consumption. Land Rover's contribution to the project centres around the potentially positive benefits that electrification could bring to a vehicle's all-round capability, specifically off-road dynamics, through research into torque control systems.

"The electrification of the industry opens up exciting opportunities for vehicle capability, especially all-terrain vehicles," said Phil Barber, Land Rover Chassis and Dynamics Research Technical Specialist.

The project is committed to investigating three applications pertaining to electrically powered vehicles:

1. The investigation of yaw control systems using torque vectoring of electric motors resulting in improved dynamics.

2. The modulation of torque output of individual motors to aid brake energy recuperation and emergency braking.
3. The investigation of various electric motor powertrain configurations to establish the various performance and implementation issues for both on and off road capability.

Since the projects inception in 2011, Land Rover have donated a Range Rover Evoque as a test platform for the project. Research engineers have also offered their expertise and the use of Land Rover's industry leading infrastructure, working closely with Surrey University to develop torque management control systems.

The Range Rover Evoque is currently based at the Flanders Drive facility, Belgium and tested at the Lommel test track. It has been converted from a road going vehicle to an experimental platform by replacing the standard power unit with four electric motors coupled to single ratio step down gearboxes.

The results to date have allowed Land Rover to develop theory related to individual wheel torque management and, although it is purely a research project, it may act as a foundation for future development.

Going forward, Land Rover will be following European research initiatives in torque control systems using electric motors and their effect on vehicle capability. These topics will continue to be developed through future initiatives. Further information can be found on <http://www.e-vektor.eu/>

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For further information log onto www.media.landrover.com

Editors Note:

- Since 1948 Land Rover has been manufacturing authentic 4x4s that represent true breadth of capability across the model range. Defender, Freelander, Discovery, Range Rover Sport, Range Rover and Range Rover Evoque each define the world's 4x4 sectors. Land Rover products are currently sold in approximately 180 global markets.