



## **JAGUAR LAND ROVER USING AEROSPACE TECHNOLOGY TO DEVELOP FUTURE LIGHTWEIGHT VEHICLES**

- **Technology developed for aerospace is repurposed to accelerate Jaguar Land Rover's testing and development programmes**
- **Jaguar Land Rover to take part in pioneering all-weather, all-terrain tests of new metals and composites**
- **Two-year project will ensure new body materials deliver a longer-lasting, high-quality finish**
- **Jaguar Land Rover is working with industry leaders in quality assurance and advanced manufacturing to develop future lightweight materials**
- **Optimising the use of lightweight materials to improve efficiency and reduce emissions is a key part of Jaguar Land Rover's commitment to Destination Zero**

**Thursday 22 October, Whitley, UK** – Jaguar Land Rover is taking part in pioneering research trials to test the capability of advanced lightweight metals and composites to be used in future vehicles.

As part of a two-year project, the company will use technology developed for the aerospace industry to understand how materials respond to corrosive environments, in global markets and over rigorous terrains.

Samples of new metals and composites planned for use in future Jaguar and Land Rover vehicles will be built into aerospace-grade sensors and put through their paces in some of the world's most extreme physical conditions, tested for over 400,000km across North America.

The sensors will continuously measure the performance of the materials and share data with the Jaguar Land Rover's product development team in the UK. With this information, the engineers can accurately forecast the material's behaviour in the development of future



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vehicle programmes to ensure that next-generation lightweight metals meet the company's stringent standards, delivering a longer-lasting, high quality finish.

Matt Walters, Lead Engineer, Metals and Process Materials for Jaguar Land Rover, said: "This research project is a prime example of our commitment to developing lightweight, durable and robust materials for our future vehicles. Using advanced aerospace-grade technology, such as these sensors, is testament to the quality and standards we are achieving.

"We are working alongside world-class partners on this ground-breaking research project and will improve the correlation between real-world and accelerated testing as we continue to raise the bar for quality and durability."

The research forms part of Gesamtverband der Aluminiumindustrie (GDA), a consortium of aluminium manufacturers and car makers researching the longevity of materials and how they can be made lighter and more durable.

Working with industry leaders across quality assurance and manufacturing to develop future lightweight vehicles, increasing efficiency and reducing emissions further is a key part of Jaguar Land Rover's Destination Zero vision - a future with zero emissions, zero accidents and zero congestion.

The project builds on continued research into future materials, from the [REALITY project](#), a pioneering recycling process which gives premium automotive-grade aluminium a second life, [to the development of printed structural electronics](#), which can reduce the weight of in-car electronics by up to 60%.

**ENDS**

**Editors' notes:**

For more information about Destination Zero please visit:  
<https://www.jaguarlandrover.com/2019/destination-zero>

For more information about Gesamtverband der Aluminiumindustrie (GDA) please visit:

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<http://www.aluinfo.de/mobility.html>

## About Jaguar Land Rover

Jaguar Land Rover is the UK's largest automotive manufacturer, built around two iconic British car brands. Land Rover is the world's leading manufacturer of premium all-wheel-drive vehicles. Jaguar is one of the world's premier luxury marques, as well as being the first ever brand to offer a premium all-electric performance SUV, the Jaguar I-PACE.

At Jaguar Land Rover we are driven by a desire to deliver class-leading vehicles, providing experiences people love, for life. Our products are in demand around the globe and in 2019 we sold 557,706 vehicles in 127 countries.

At heart we are a British company, with two major design and engineering sites, three vehicle manufacturing facilities, an Engine Manufacturing Centre and soon to be opened Battery Assembly Centre. We also have vehicle plants in China, Brazil, India, Austria and Slovakia. Three of our seven technology hubs are in the UK – Manchester, Warwick (NAIC) and London – with additional sites in Shannon, Ireland, Portland, USA, Budapest, Hungary and Changshu, China.

We have a growing portfolio of electrified products across our model range, embracing fully electric, plug-in hybrid and mild-hybrid vehicles, as well as continuing to offer the latest diesel and petrol engines, giving our customers even more choice.

We are confident that our comprehensive strategy, exciting pipeline of market-leading vehicles and innovative approach to technology and mobility will see us continue to progress towards Destination Zero, our mission to shape future mobility with zero emissions, zero accidents and zero congestion.

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