



# Bermuda elysia battery intelligence

What is Elysia's battery intelligence?

Elysia's battery intelligence involves algorithms on the battery for "state estimation". This provides "understanding what energy's available with that battery at any given time", according to Wallace, including the current health status. The true value for this may vary greatly from what the in-vehicle system reports.

What is Elysia battery balancing?

Elysia offers a step change in performance for high-utilisation battery systems. Unlike traditional approaches to balancing, Elysia balances cells during operation and by SoE (state-of-energy), removing the need for battery downtime and resulting in best-in-class cell-to-cell imbalance.

What is Elysia battery monitoring?

This includes both the algorithms operating locally on the battery and remote monitoring in the cloud, which is what Elysia supplies to customers. The aim is to prioritize safety but also make the most efficient use of batteries, including longevity.

How can Elysia improve battery life?

The aim is to prioritize safety but also make the most efficient use of batteries, including longevity. "With the intelligence that we have with Elysia, we know we can stretch batteries safely beyond the typical end of life. We can also make them charge faster, or slower to re-balance elements within the system."

Will JLR use Elysia battery intelligence on EVs?

JLR will be applying Elysia battery intelligence to forthcoming EVs like the Range Rover Electric. Elysia might not be a name you're familiar with. However, it used to be Williams Advanced Engineering and changed its name after being purchased by giant mining company Fortescue.

Will Elysia's in-race rapid charging work for Formula E's t264 truck?

The work Elysia has done on Formula E's yet-to-be-implemented in-race rapid charging will contribute to the 6MW speed that is planned for the T264 truck. This is where Elysia's work with software comes in, which will be applicable to more consumer-oriented vehicles than the T264.

Elysia Cloud Platform helps battery system Original Equipment Manufacturers (OEMs), battery operators and financiers turn data into actionable battery insights, designed to forecast and extend battery life and enhance safety; Elysia Embedded is a suite of battery management algorithms that can allow OEMs to increase discharge and recharge rates ...

Elysia by Fortescue's mission is to unlock the full potential of every battery on the planet. Elysia is Fortescue's Battery Intelligence software division. Drawing on over a decade of high-performance battery expertise, Elysia provides OEMs, battery owner-operators and asset financiers with unprecedented battery insights,



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transparency on battery state-of-health and battery ...

Elysia brings game-changing battery insight, management, and optimisation of batteries to the mass market for the first time, from the automotive, commercial vehicle and e-mobility sectors to stationary energy storage and beyond, unleashing the potential of the most fundamental component of an electric vehicle: the battery. Elysia draws on WAE ...

Elysia's battery intelligence technologies comes from WAE's experience in high-performance batteries from supplying the electric motorsport series, and the development of batteries for electric hyper-cars and mining trucks. Joe Jones, Commercial Lead at Elysia, said: "With increased utilisation of an electric shared vehicle, it becomes ...

Elysia's cutting-edge battery intelligence software, shaped by over a decade of motorsport expertise, enhances battery longevity, performance and safety. Our unique software and cloud tools provide OEMS, operators and financiers the insights to manage, optimise and enhance battery performance throughout its entire life cycle.

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Elysia Battery Intelligence. Boston House, Grove Business Park, Downsview Road, Wantage OX12 9FF. Battery Test & Development Centre . Unit 5 Technology Dr, Kidlington OX5 1GN. 1 hour 30 mins from Central London via car from M4 or M40. 1 ...

Gaydon, UK - 20 May 2024: JLR has signed a multi-year deal to use Fortescue's advanced battery intelligence software, Elysia, in its next-generation electric vehicles. The software will help enhance JLR's luxury vehicles with improved battery longevity, safety, and performance. Starting with the new Range Rover Electric, launching later ...

What's Happening: WAE Technologies has launched Elysia, a cutting-edge battery intelligence software designed to significantly enhance the life, safety, usable energy, power, and rapid charging capabilities of any battery system. Elysia will offer unprecedented battery insight, management, and optimization to various industries, including automotive, ...

WAE Technologies (WAE), the world-leading technology and engineering services business, today launches Elysia, its Battery Intelligence software offering designed to unlock significant improvements in the life, safety, usable energy, power, and rapid charging times of any battery system. Elysia brings game-changing battery insight, management, and ...

Elysia's Embedded algorithms enable fast charging of the 1.4MWh battery system within 30 minutes, whilst ensuring minimal downtime through always-on balancing. The Elysia Cloud Platform supports remote



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monitoring of battery health and life forecasting, whilst safety is ensured through advanced prognostic algorithms which analyse every ...

Technology and engineering services company WAE Technologies (WAE) launched Elysia, its mass-market Battery Intelligence software offering designed to unlock significant improvements in the life, safety, usable energy, power, and rapid charging times of a

EVs with Elysia charge 30% faster and gain 10% more battery range. Elysia also provides software to analyze battery data for fleet managers, investors, and OEMs. WAE Technologies launched a new battery-management system to speed EV charging and storage. Elysia will allow the e-mobility sector to extend EV battery life through its cloud-based ...

Senior Data Scientist at Elysia Battery Intelligence from WAE. Applying a variety of computational methods to resolve real-world issues. Writing metrics to analyse and predict properties of batteries from large fleet data. Implementing these metrics into Elysia's orchestrated cloud offering. Prior to joining Elysia, I completed a PhD in ...

Elysia Embedded is a suite of state-of-the-art battery management algorithms, which run locally on the Battery Management System (BMS) - for example directly on an EV's battery or on a stationary energy storage system. Its best-in-class BMS algorithms help OEMs to increase vehicle range, enable faster charging, and maximise battery power ...

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Tuesday, 13 th June 2023: WAE Technologies (WAE), the world-leading technology and engineering services business, has recently launched Elysia, its Battery Intelligence software designed to unlock significant



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improvements in ...

Through the Elysia Embedded suite of best-in-class BMS algorithms and a powerful battery analytics Cloud Platform, Elysia unlocks the untapped potential of batteries - enhancing safety, extending lifetime and optimising performance from any battery system and cell chemistry.

Web: <https://www.mzanzipestcontrol.co.za>

