



Leveraging Next-Gen IoT for Equine Welfare and Performance

About Horseware Ireland

The Horseware Ireland Horsepal Edge is a market-leading Internet of Things (IoT) solution for the equestrian industry and represents the next generation in the Horsepal series. The Horsepal Edge enables a “connected horse,” allowing health, activity and behavior to be monitored in real time. The Horsepal Edge ensures professional knowledge to optimize the wellness and performance of the horse through evaluation and management of activity, rest, sleep and environment.

Taoglas Next Gen IoT has worked with Horseware Ireland to provide the critical infrastructure and technologies to realize the solution. Based on the Taoglas EDGE IoT hardware and software platform, Horseware and Taoglas worked together to develop a custom solution incorporating metrics that include motion detection, movement style, sleep tracking and more. Each Horseware Ireland customer has secure access to a unique platform that presents the data in an easy-to-understand format. Using the Taoglas EDGE IoT hardware allows a cost-effective short and long range wireless platform for IoT. Combined with **Taoglas® EDGE Insights™**, this provides a scalable end-to-end solution for easy control, maintenance and secure management of many different connected devices.

The Challenge:

Having real-time data and a more holistic view of horse health and activity is something that the industry had been lacking and proved technically challenging to develop. Digital transformation with 24/7 monitoring helps horse owners make more informed decisions about health, exercise and care and will ultimately lead to improved health and quality of life for life for the horse.

The Solution:

Taoglas worked with Horseware to augment and innovate technologies specifically designed to detect reliable heart rate signals through horse hair, train algorithms to work for horses and develop an ultra low-power device to allow for required battery life along with sensor optimization, edge computing and firmware optimization to achieve a world-class product. Additionally, the Horsepal Edge ensures professional knowledge to optimize the wellness and performance of the horse through evaluation and management of activity, rest, sleep and environment.

The Outcome:

The Horsepal Edge can continuously collect data 24/7 and has a battery life of weeks rather than days. Horseware is leading the digital transformation of the equestrian industry with the Horsepal Edge and IoT helps owners make even more insightful decisions. Horsepal Edge is an essential tool for both the experienced equestrians who want to get real verifiable data or for the novice owner seeking peace of mind determining the right care for their pony

