



Byerley Technologies Ltd

Byerley Technologies was founded in 2015 with Welsh Government support, after the creation of a product by SPS Ltd necessitated the foundation of a new company. Byerley Technologies creates and sells monitoring products for the horse racing industry, which provides trainers with the required information to prevent lower leg injuries and to help horses to recover from injury.

In 2015 SPS Ltd launched the product 'Tendon Manager' with support from Welsh Government innovation funding backed by EU funds. Trainers walk their horse into the device, which uses thermal imaging to detect damage to muscles and ligaments in a horse's leg. The thermal imaging cameras are of the highest quality, and can display 19,000 pixels at 100 frames per second.

The machine is used to detect the cool-down rate of a horse's muscles after being exercised. If they take a long time to cool after a training session this indicates strain or damage. The very best horse trainers can usually detect a difference in leg temperatures of around 3 degrees, while the machine is much more precise, able to detect temperature differences of 0.2 degrees. The sophisticated machinery is also able to detect unwanted movement by a horse that might obscure the reading, and informs the user of the issue.

This information is used by the trainer to decide whether or not a previously injured horse has fully recovered. The vastly increased level of precision provided by Tendon Manager has led to a large degree of interest by the horse racing community.

There has been interest in Tendon Manager from Germany, Australia, and Dubai, while functioning units are in use in Wales, Ireland, and Newmarket. The interest is so high because racing horses can be valued up to tens of millions of pounds, and Byerley's products help reduce the risk each time a valuable horse is sent out onto a race track.

Byerley Technologies has also received funding to begin the research and development phase of new products. Byerley



is currently working on a new product that will help trainers to avoid overworking horses in training, and monitor the impact of training sessions on them.

Steve Hudd, managing director of Byerley Technologies Ltd, said: "Welsh Government funding has been superb, and of all the grants I've ever been involved with the R&D grant is certainly the best. It allows us to be able to conduct proper and thorough research and think outside the box."

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To find out more about funding and support from the Welsh Government:

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