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**Neuroscience-based shooting skill training - Neuroshooting**

The Neuroshooting (NESH) System enables the user to get a real-time biofeedback on the process of shooting, including analytical action tracking and brain activity.

During the Crossbow Europe Cup, an athlete has been given a continuous feedback on the real-time brain activity at the times of shooting and before shooting.

**EEG-pattern for the best scored shots is identified.**

**AI technology creates an aggregate shooting-readiness index from the wave ranges of the brain via EEG technology.**

**The time-related data line of this index is examined by another AI algorithm (Robotic Eye) which can detect the most characteristic moment of the data line: the point of shooting.**

**For every best shot there is a 100% objectively recognizable pattern.**

Cognitive performance indicators have a direct impact on current performance. It was found that before shooting, an alpha phase activates and in low SMR range a top-performance peak frequency is detected.

This being taken into consideration, an individual-specific EEG pattern can be detected for top performance, which is the ideal state of mind during practices.

NESH enables athletes to be professional shooters in a quicker and more effective way and fine-tuning their skills.

The future development plan includes a real-time biofeedback system with an integrated aiming - movement – neurological data analytical software.

The system can be used for other sports.