

# Personalized AI COACHING for Every Rider

*Understand Your Good Performance  
and Repeat it!*



Dressage  
course aids

Real time feedback  
of posture, balance  
and rhythm

Easy to use and  
24/7 availability

Train smarter and  
in harmony with your horse

BUSINESS  
FINLAND

LAB University of  
Applied Sciences

LUT  
University

# Revolutionizing **EQUESTRIAN TRAINING**

**In riding, balance, posture and rhythm are the key to better riding performance, healthy riders and greater welfare of the horses.**

With AI Riding coach, you will understand your performance better and have a possibility to train smarter.

Rider needs real-time feedback to understand her own actions and how to adjust communication to a horse.

Asymmetric movements and laterality can cause injuries for both the rider and the horse.

**With AI Riding Coach, we introduce a smart training system using:**



## **Inertial Measurement Units (IMU)**

for tracking posture, movement and rhythm of the rider and the horse



## **Artificial Intelligence**

for motion analysis



## **Augmented Reality**

for instant feedback

# How does AI RIDING COACH work?



## 1. Smart Sensors & AI Analysis

- Tracks rider and horse movements with IMU-based sensors.
- The application is gathering your personal data during training
- AI compares performance to reference values and detects deviations of balance, postural sway, symmetry and rhythm in real time

## 2. Augmented Reality Feedback

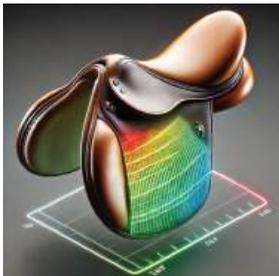
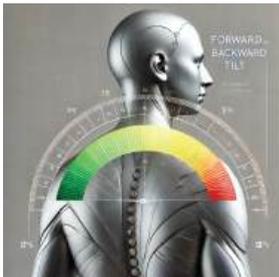
- AR overlays provide real time riding guidance of critical variables to improve your performance
- Dressage aid helps riders to follow dressage courses while training

## 3. Personalized Training Programs

- AI detects horse and rider's skill level and progress
- AI will highlight the most critical performance metrics to be visualized
- AI will provide training advice during training and supplementary exercises to be done between riding lessons
- Helps to prevent overuse injuries and supports sustainable riding

## 4. Remote Coaching Integration

- Rider and coach can analyze performance data from anywhere
- Application enables structured, data driven coaching to improve daily training and performance development over time





# Who benefits from AI RIDING COACH?

## Competitive Riders

- Gain a winning edge with AI-driven performance tracking
- Fine tune perfect riding posture, movements and dressage courses

## Riding enthusiasts

- Building understanding of your performance and improving training quality with real time guidance
- Improve your communication with your horse to be a more proactive rider
- Train safely and avoid laterality and overuse injuries for both you and your horse

## Riding Schools & Trainers and coaches

- Improve lesson quality and track student progress
- Enable better quality in independent training
- Improve your business cost effectiveness
- Follow the performance and plan the workload of your horses to enable wellbeing

## Ask for more details:



**Asko Kilpeläinen**  
Project Manager

asko.kilpelainen@lab.fi  
+358 400 254 503



**Timo Saarainen**  
Business Champion

timo.saarainen@lab.fi  
+358 400 954 744



Read more ↗

AI Riding Coach Application is a joint LAB University of Applied Sciences and LUT University Research-to- Business project financed by Business Finland

This brochure contains images created with the help of AI technology.