FEI PARA EQUESTRIAN FORUM

Technological advances in our Sport

Tracking Solution

LONGINES TIMING TRACKING SOLUTION

The FEI together with its partner Longines Timing has supported the development of a athlete/horse combination tracking solution

The solution is based on remote cameras placed in high position around the arena. The solution doesn't requires the athlete or the horse to carry a tracking device.

The solution is mainly designed to be operated at Indoor arena, according to the setup requirements for the camera.

The system is already used for FEI Jumping World Cup Western European League competitions.

LONGINES TIMING TRACKING SOLUTION FOR DRESSAGE

This tracking system allow to precise follow in 2 Dimensions the location of the athlete horse/combination in the arena

It can be used as an entertainment and fan engagement tool for both the spectators in the arena and the people following on broadcast/streaming , providing them with a new dimension in their understanding of the sport

It will allow to compare live the path taken by the horse with the theoretical path that the test represents (for GP and GPS)

It can be an interesting additional element for riders and trainers when reviewing the performance

It does not take over any of the judges responsibilities

LONGINES TIMING TRACKING SOLUTION FOR DRESSAGE

The solution has been tested with FEI Dressage World Cup competitions in London and Mechelen this year as a Proof of Concept.

It requires some final developments before a potential Go Live

SAP

CHIO Aachen 2024
#3284559

Open in Admin Hub

6.4

Total accuracy mark

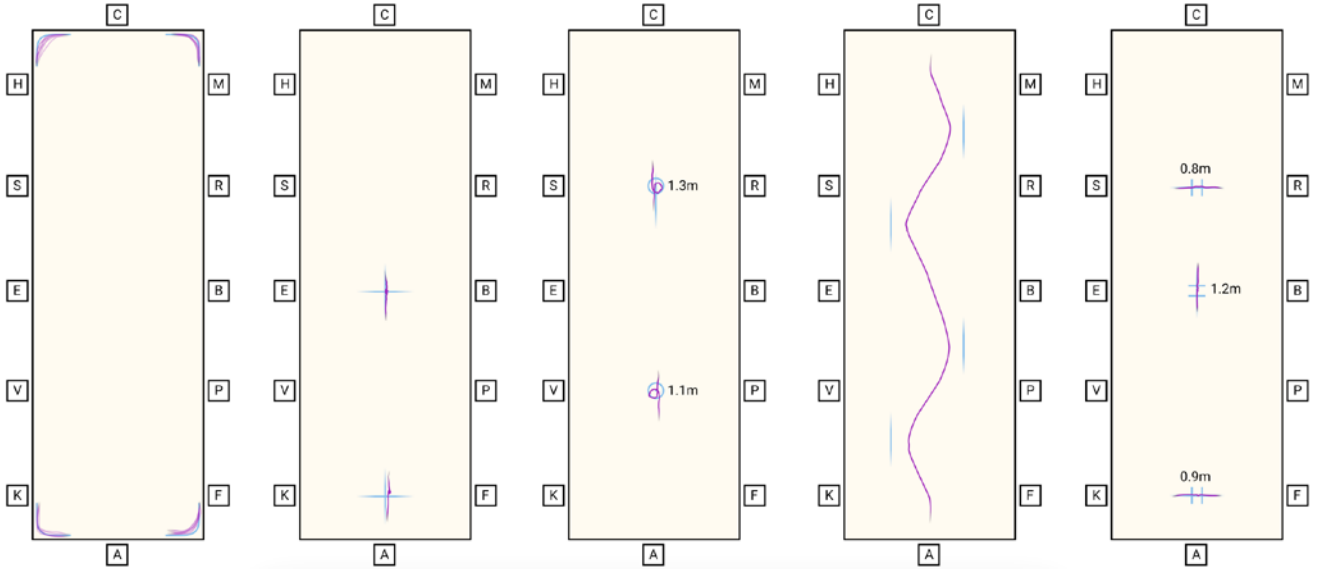
59%
Accuracy in Corners
-0.8 deduction

95%
Accuracy in Halts
-0.1 deduction

70%
Accuracy in Pirouettes
-0.6 deduction

27%
Accuracy in Zig-Zag
-1.5 deduction

72%
Accuracy in Piaffes
-0.6 deduction



Tracking Example

Judges' Supervisory Panel

JUDGES' SUPERVISORY PANEL

The JSP is responsible for overseeing the mark given by the competition judges and makes use of technical equipment to fulfil its responsibilities

Specific on screen display according to FEI guidelines, showing possible technical mistakes or calculation errors

Video recording of all rides with the possibility to rewind real time during the performance and after the performance

Direct communication with the calculation office (if possible in the same room, otherwise via phone)

Paperless judging

PAPERLESS JUDGING

With paperless judging everything from the input of the marks to the in-arena display to live online scoring and final protocols is streamlined and efficient

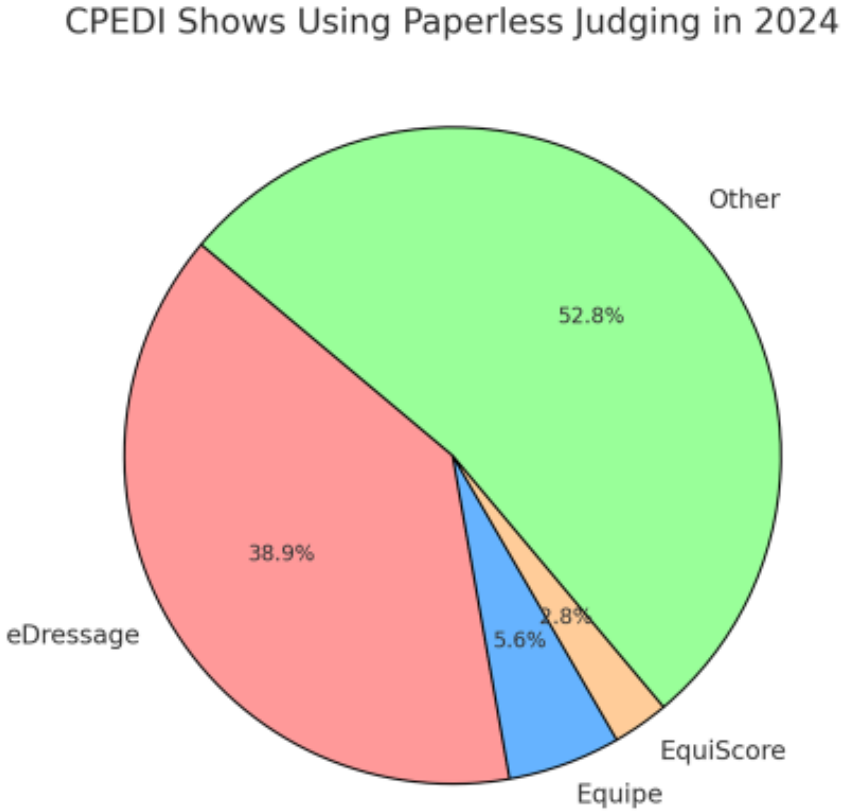
Approval of paperless judging solutions are subject to following the FEI guidelines and going through a strict approval process ensuring security and stability

Scribes use digital devices to input the scores instead of paper. The scores are immediately shared in-arena and online, as well as with the calculation office

Each athlete then can access their complete protocol online

Status Quo

- In 2024, 17 out of 36 CPEDI shows used Paperless Judging
  - 14 eDressage
  - 2 Equipe
  - 1 EquiScore
- JSP during Paralympic Games
- No further “technology” uses



Live Marks Are Essential

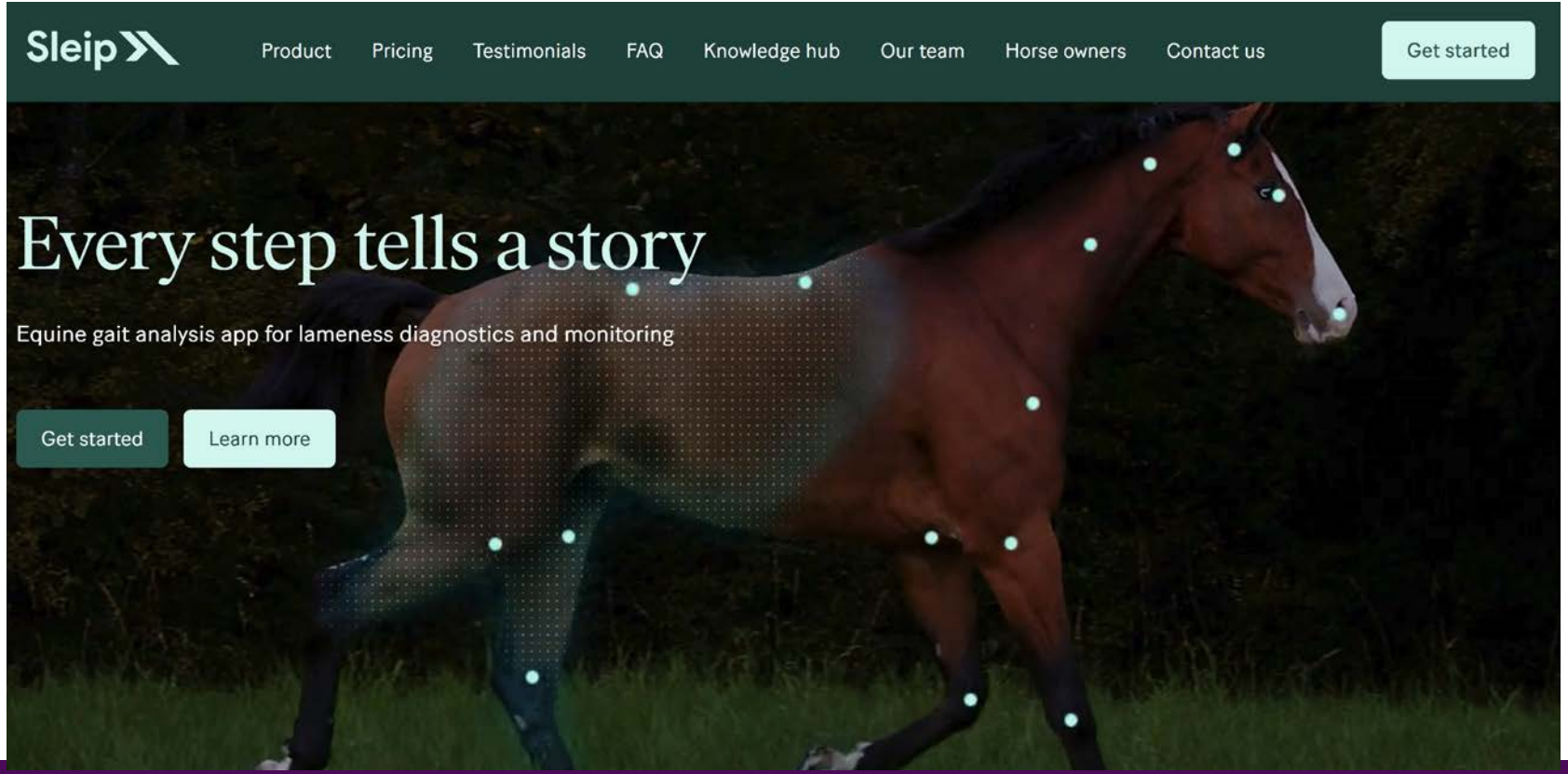
- For better communication of the sport
- For discussion between Judges right after the competition
- Enhance the spectator experience, education and spectator engagement
- Necessary for any further technology on top of marks (online live results, Television, JSP, future technologies)

→ Therefore, we should have more Paperless Judging

Challenges

- Judging and Grading could be more transparent.
- Differences in Judging can be more significant in Para Dressage when compared with Dressage.
- Seminars, education and transparency could all be enhanced with technology.

Equine Gait Analysis

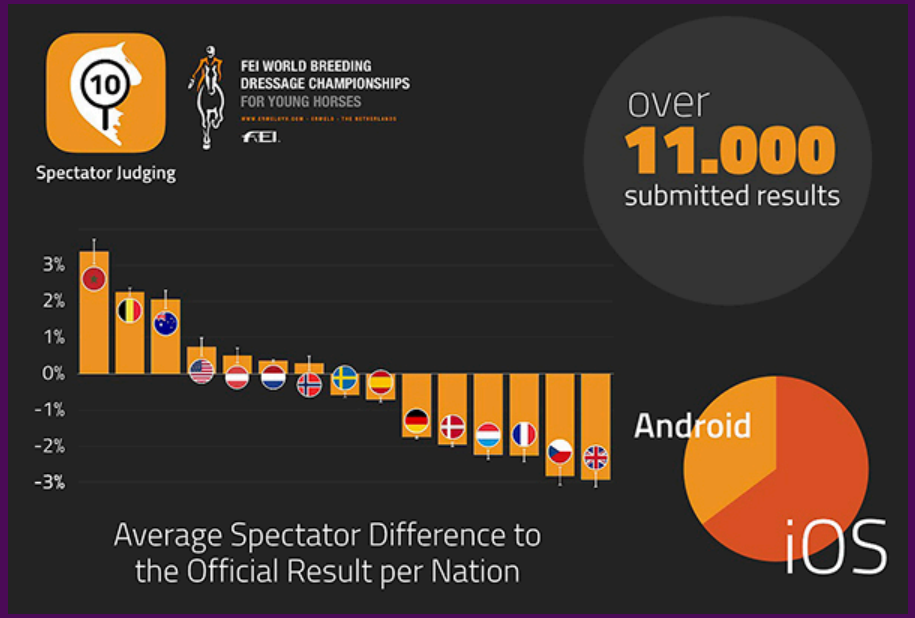


Motion analysis powered by AI

The Sleip app uses AI to track over 100 anatomical keypoints on the moving horse, quantifying gait asymmetry and detecting even small irregularities. Use Sleip to get stride-by-stride analysis results in minutes, track progress over time, and detect issues at an early stage.

Book a demo

Spectator Judging



SPECTATOR JUDGING

A unique fan engagement solution which enables the audience of equestrian competitions to get in the judge's seat and test their ability to judge

Enable the audience to score the performances real time through a mobile application with various scoring modes (full, simple, freestyle)

Add gamification and a rewards system to encourage participation, with real time feedback to the participants

A support for sponsors through application displays and during promotion of the solution to the audience

Precision Tracking

- Precision Tracking for Grade I possible in principle with existing technology.
- Online presentation of Para-Dressage could be improved by better biographies that can be provided to commentators too.
- Monthly Online Judging practice possibilities similar to IDOC Judge Education for Dressage could be established.

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THANK YOU!