Communicate with your horse
Agenda

- Presenting & explaining the metrics
- Short recap of June event
- Short recap of Sept. EC event
- First observations
- Next steps
The way it works

Only one sensor needs to be placed on the girth. Riders can visualize the following data:

- 3D trajectories
- HD GPS Path mapping
- Roll, pitch, yaw angles
- Strike power
- Speed
- Energy consumption
- Cadence
- Regularity
- Weather
- and up to 40 functionalities
June 2021

Configuration

- 3'750m
- 570m/min
- 25Nr. / 34 efforts

Data collected

- 21 horses
- Switzerland, Italy, France
EC Sept. 2021

Configuration
- 5'768m
- 570m/min
- 32 Nr. / 40 efforts

Data collected
- 17 horses
- Ireland, Italy, Switzerland, Finland, Danemark
- MIM/PIM clip concern

Thank you!
## Stride analysis

One rider did 2 strides instead of 3 or 4 in the combination 28AB. Comparison on 1min30 mid-course VS at the end of the course (when there was the unusual jump on 28B).

<table>
<thead>
<tr>
<th></th>
<th>Timelapse 1</th>
<th>Timelapse 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Speed</strong></td>
<td>424 m/min</td>
<td>398 m/min</td>
</tr>
<tr>
<td><strong>Next Stride Length (first after jump)</strong></td>
<td>1.70m</td>
<td>2.36m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+ 66 cm</td>
</tr>
<tr>
<td><strong>Strike Power</strong></td>
<td>4.9G</td>
<td>4G</td>
</tr>
<tr>
<td><strong>Energy</strong></td>
<td>4.13 kcal</td>
<td>4.03 kcal</td>
</tr>
</tbody>
</table>
**Stride analysis**

Stride height increasing at the end of the course is related to the speed.

### Mid-course 1m30 vs. Last 1m30

<table>
<thead>
<tr>
<th></th>
<th>Rider 1</th>
<th>Rider 2</th>
<th>Rider 3</th>
<th>Rider 4</th>
<th>Rider 5</th>
<th>Rider 6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stride Length</strong></td>
<td>5m39 4m79</td>
<td>5m46 5m08</td>
<td>5m12 5m09</td>
<td>5m35 5m03</td>
<td>5m34 5m22</td>
<td>5m56 4m54</td>
</tr>
<tr>
<td><strong>Stride Height</strong></td>
<td>16cm 17cm</td>
<td>15cm 16cm</td>
<td>15cm 15cm</td>
<td>16cm 18cm</td>
<td>14cm 14cm</td>
<td>17cm 19cm</td>
</tr>
<tr>
<td><strong>Last Stride Height (before jumps)</strong></td>
<td>14cm 17cm</td>
<td>9cm 13cm</td>
<td>12cm 13cm</td>
<td>12cm 12cm</td>
<td>9cm 14cm</td>
<td>10cm 15cm</td>
</tr>
<tr>
<td><strong>Strike Power</strong></td>
<td>3.2G 7.1G</td>
<td>3.3G 3.1G</td>
<td>2.9G 2.9G</td>
<td>4.9G 4G</td>
<td>3.2G 2.9G</td>
<td>3.7G 3G</td>
</tr>
</tbody>
</table>

Great consistency!
Results EC Jump Safety Analysis

Length
- of the 5 strides before
- of the jump
- of the 5 strides after

Variation...

Outliers...

Key for combinations & for being on time
Results EC Jump Safety Analysis

**Speed / jump**

**Variation...**
- individual

**Outliers...**
Results EC Jump Safety Analysis

Strike power/ jump

Variation...
- individual
- increasing during cross

Outliers...
Next steps

Association of variations with

- Fatigue (HR, lactate, muscle enzymes, rectal T)
- Speed & topography, strides before and after jumps
- Fence construction
Thank you for your attention

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