

# UAEERF ANALYSIS REPORT

7 & 8 April 2018



اتحاد الإمارات للفروسية والسباق  
UAE Equestrian and Racing Federation



## **OUR MISSION STATEMENT**

is to use data to help equestrian federations bring another level of insight into the decision-making process. We work to ensure horse welfare is protected, that rules make an impact on culture and behaviour and the positive aspects of the sport are championed.



## ABOUT US

Sam Watson is a four star event rider with a first class honours degree in management science and information systems.

Diarmuid Byrne is a former commercial lawyer and now managing director of EquiRatings.

EquiRatings works with major federations around the world across eventing, endurance and racing.

## **OUR OBJECTIVE**

in this analysis was to ascertain if key indicators around risk management could be identified in the UAE data and if solutions could be developed at national or international level.

## SCOPE OF REPORT

We were provided with almost 8 seasons of UAEERF data - the incomplete season being all data received up to October 2017. We analysed 62,288 results, 618 competitions, 13,288 horses.

## **OUR TARGET**

is to reduce catastrophic injuries in this region by over 50% within the next three seasons.

## DATA ANALYSIS ON ENDURANCE

The analysis on the Endurance data, either in the global dataset or in the EEF dataset will start with the standard metrics which are available:

- Horse age
- Days between competitions
- Speed (in competition and historic)
- Competition distances
- Regions
- Weight Collected, Pending Database delivery
- Gate Recovery time Collected, Pending Database delivery

## DATA ANALYSIS ON ENDURANCE

-  Lower Risk
-  Normal Risk
-  High Risk
-  Unacceptable Risk



## KEY CONSIDERATIONS

We believe there are two critical risk factors which are harder to read from a database:

- Behaviour
- Ability

To make a meaningful change in the understanding and management of risk, we believe that first we must understand the different behaviours in the sport (even in the same competition) and also understand the different levels of ability.

## BEHAVIOURS

- Participation – Athlete wants to be there
- Completion – Athlete wants to complete
- Qualification - Athlete wants to qualify
- Performance - Athlete wants to win

## BEHAVIOURS

- Participation – Athlete wants to be there – could be higher risk
- Completion – Athlete wants to complete – should be lower risk
- Qualification - Athlete wants to qualify – should be lower risk
- Performance - Athlete wants to win – could be higher risk

**THE BIGGEST RISK FACTOR IS ABILITY**



## ESPG RECOMMENDATIONS

25 Ride qualification standards to be monitored and closely linked to increased levels of horsemanship

26 Rules adjusted to ensure only “competent” riders may compete at each level of competition

## SYSTEM-BASED SOLUTION

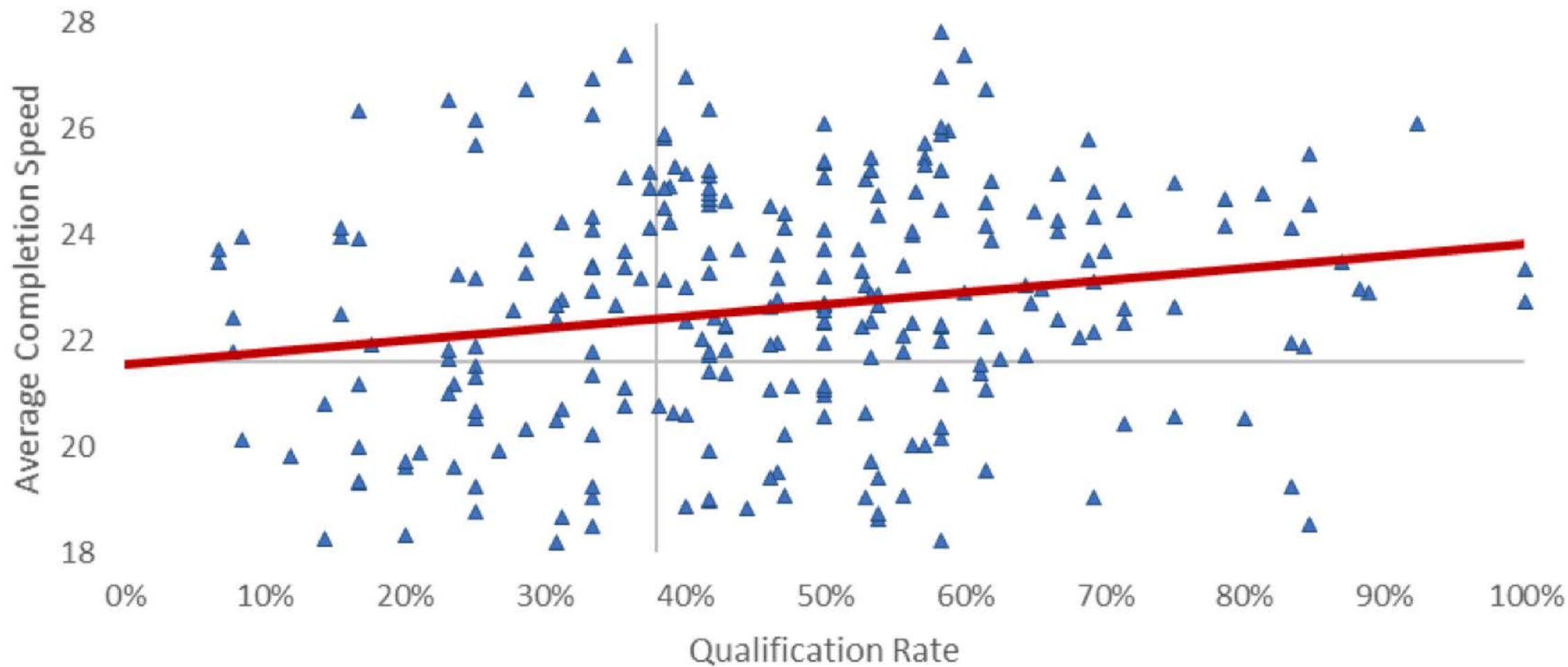
Horses, riders, trainers or stables with poor performance in past competitions have low qualification rates in future competitions.

Tracking data footprints of horses can help us identify and manage low performing outliers.



Ensures every ride has a consequence - positive or negative

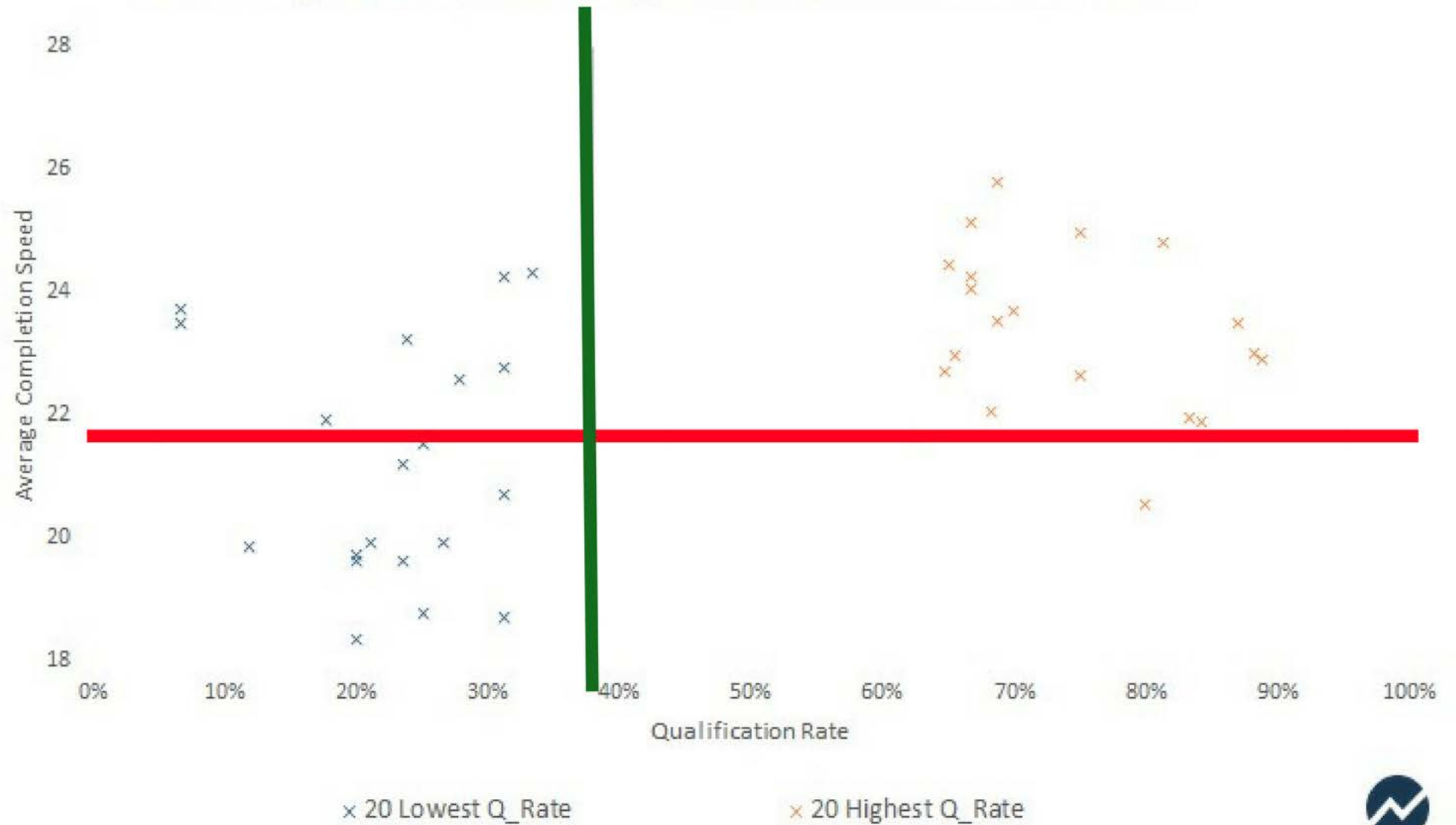
# Horse Performance-Risk Matrix





## Horse Risk Matrix

Examining the 20 horses with highest and lowest qualification rates





Assessment of the previous competition of a horse and the impact of their success going forward to competitions of **at least 100km in distance**.

Previous Run Speed	Starters	Qualified	Q_Rate	Average_Speed
25kmph and above	1914	899	47.0%	25.1
22.5kmph < 25kmph	1866	842	45.1%	23.6
20kmph < 22.5kmph	2140	908	42.4%	22.1
17.5kmph < 20kmph	2760	1070	38.8%	20.8
10kmph < 17.5kmph	3828	1374	35.9%	20.0
Did Not Qualify	10366	3404	32.8%	21.9
<b>Total</b>	<b>22874</b>	<b>8497</b>	<b>37.1%</b>	<b>22.0</b>



Manage the outcomes.

Track Competency of riders, horses, trainers and stables.

## EEF ERQI Levels

Assessment of the horse ERQI Category in competitions of at least 100km in distance

ERQI Category	Starters	Qualified	Q_Rate	Average_Speed
F	436	104	23.9%	21.0
E	1298	364	28.0%	21.3
D2	3336	1104	33.1%	21.3
D1	11859	4208	35.5%	21.3
C2	3527	1443	40.9%	22.7
C1	1668	772	46.3%	23.1
B2	841	414	49.2%	23.5
B1	650	333	51.2%	24.1
A	204	133	65.2%	24.6
Total	23819	8875	37.3%	22.0

## NOTE

Of the 19 CIs produced in competitions of distances of 100km or further, 17 (89.5%) involved either a horse, athlete, trainer or stable with a negative EquiRatings Quality Index (ERQI), or they involved horses returning from a prolonged period of absence from competition (365 days or more).

In the dataset received there were 23 catastrophic injuries recorded. We have excluded any catastrophic injuries that have occurred since the delivery of the full dataset as we may not have a full data footprint for these cases.

## REST PERIODS

Assessment of the number of days from previous competition **going forward** to competitions of **at least 100km in distance**.

Rest Days	Starters	Qualified	Q_Rate	Average_Speed
0 to 7 days	227	78	34.4%	22.7
8 to 14 days	1046	339	32.4%	22.2
15 to 21 days	3034	1105	36.4%	22.1
22 to 28 days	3564	1381	38.7%	22.3
29 to 42 days	4710	1860	39.5%	22.3
43 to 56 days	2125	881	41.5%	22.0
57 to 84 days	1801	679	37.7%	21.7
85 to 365 days	5710	2082	36.5%	21.7
More than 365 days	1603	470	29.3%	20.9
<b>Total</b>	<b>23820</b>	<b>8875</b>	<b>37.3%</b>	<b>22.0</b>

## **RULE-BASED SOLUTIONS**

Horses with more than 365 days between competitions have the lowest qualification rate.

## ESPG Recommendation 25

76% support rate

*“We would like to see ride qualification standards reviewed and probably increased especially at the elite end of the sport where we feel some inexperienced riders are over pushing their horses to keep up with the best. We feel that only properly competent riders should be able to compete.”*

*We are sure that poor riding has contributed to poor welfare for the horse.*





## BESPOKE RISK MANAGEMENT

- This is our starting point. The tool is now developed.
- Increase the responsibility on riders and trainers.
- Consider rulings around horses returning from long absences.



THANK  
YOU.

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