# PUNTER'S INTEL

USER MANUAL

CONTENTS

The Punter's Intel app is driven by the collection of data at NSW thoroughbred race tracks via the Longines Positioning System, which uses a radio frequency system to collect key performance data from every horse in the race.

The horse tracking system utilises a transmitter placed in the rear of the saddle cloth. This transmitter sends data 50 times per second to a system of base stations mounted around the race course. The data is then collated in a centralised database to power the Punter's Intel App.

Data collected includes:
- Sectional & race times for every horse.
- Positioning data for each horse.
- Distance travelled.
- Distance from the leader at any point in the race.
- Sectional times for every section of the race.
- Top speed and average speed over particular sections.

The system is not intended to replace official results, but to be an additional tool to better understand the performance of each horse.
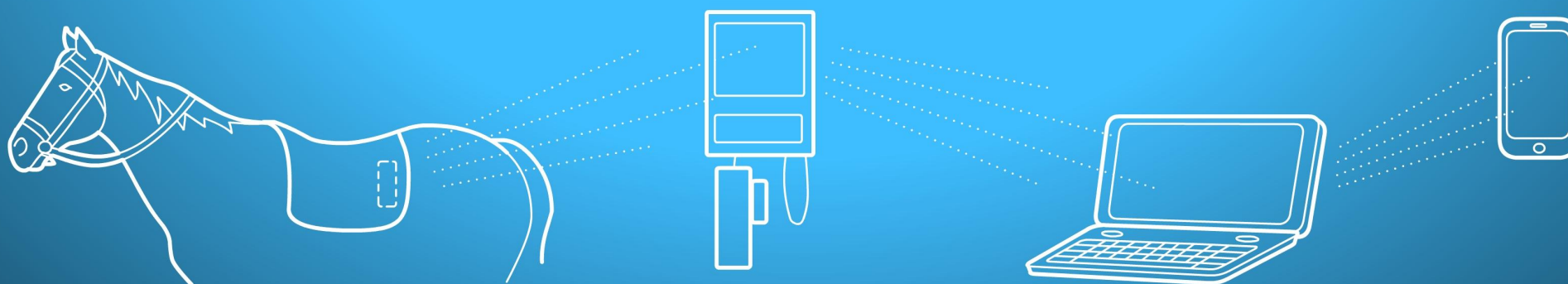
DATA BUBBLES

CURRENT RACE TIME

DISTANCE TO FINISH

VENUE I DATE I RACE NUMBER I RACE NAME I DISTANCE

LEFT DATA WING (CAN BE EXPANDED TO SHOW MORE DATA)

RIGHT DATA WING (CAN BE EXPANDED TO SHOW MORE DATA)

CLICK HERE FOR MORE DATA

CLICK HERE FOR MORE DATA

Racing NSW

00:18.47   **899m**

Rosehill Gardens I 06/05/2017 I Race 4 I FRESHMARK HANDICAP new I 1200 m

3 Quick Feet	4 Calabasas	5 Samadoubt	6 Mercurial Lad	8 New Universe	9 Kitteau	10 Niccobelle
Speed: 68.1km/h	Speed: 67.7km/h	Speed: 69.1km/h	Speed: 64.9km/h	Speed: 66.8km/h	Speed: 67.8km/h	Speed: 70.0km/h
To Finish: 902 m	To Finish: 909 m	To Finish: 900 m	To Finish: 911 m	To Finish: 916 m	To Finish: 904 m	To Finish: 899 m
Behind: 3.2 m	Behind: 10.2 m	Behind: 1.3 m	Behind: 12.6 m	Behind: 17.0 m	Behind: 4.8 m	Behind: 0.2 m
Inter: 0:13.78	Inter: 0:14.12	Inter: 0:13.68	Inter: 0:14.09	Inter: 0:14.44	Inter: 0:13.87	Inter: 0:13.76
1000m: 0:13.78	1000m: 0:14.12	1000m: 0:13.68	1000m: 0:14.09	1000m: 0:14.44	1000m: 0:13.87	1000m: 0:13.76

12 Passage of Time	13 Pedway	14 Fifty Ways	15 Kawaikini
Speed: 70.4km/h	Speed: 68.8km/h	Speed: 67.8km/h	Speed: 65.8km/h
To Finish: 900 m	To Finish: 899 m	To Finish: 904 m	To Finish: 909 m
Behind: 1.3 m	Behind: 0.0 m	Behind: 5.4 m	Behind: 9.8 m
Inter: 0:13.84	Inter: 0:13.65	Inter: 0:13.89	Inter: 0:14.02
1000m: 0:13.84	1000m: 0:13.65	1000m: 0:13.89	1000m: 0:14.02

CURRENT POSITION

HORSE NUMBERS

| 5 | 9 | 3rd | 10 | 11 | 6 | 2nd | 4 | 1st | 7 | 8 |

| 3 | 4 | 5 | 6 | 8 | 9 | 10 | 12 | 13 | 14 | 15 |

CHANGE/SELECT CAMERA ANGLES

RACE TIMELINE

2D

USER CONTROLS

TOGGLE DATA BUBBLE ON/OFF

3. GLOSSARY

HORSE DATA VIEW

SPEED	The present speed of the runner.
TO FINISH	The distance to the finish post.
BEHIND	The distance from the leader in metres.
INTER	The cumulative time to the previous 200m section. (Note that this data updates each 200m).
XXXXm	The time for the most recent 200m sectional. (The distance varies throughout the race.).
XXXm	Tthe time for the second most recent 200m sectional. (The distance varies throughout the race.).

FINAL SCREEN INFORMATION PAGE

FIELD TIMES	Breakdown of time recorded during race.
RANK	Finishing order past the post.
TAB	Saddlecloth number of runner.
BARRIER	Starting/Gate position.
TOP SPEED	Highest point of….
FASTEST 200m	Fastest 200m sectional clocked.
LAST 600m	Final 600m time for field.

Racing NSW — □ ✕

13:58

Main Menu

Available Races to Download	My Downloaded Races
How The Tracking System Works	Visit Racing NSW Website for detailed form

?
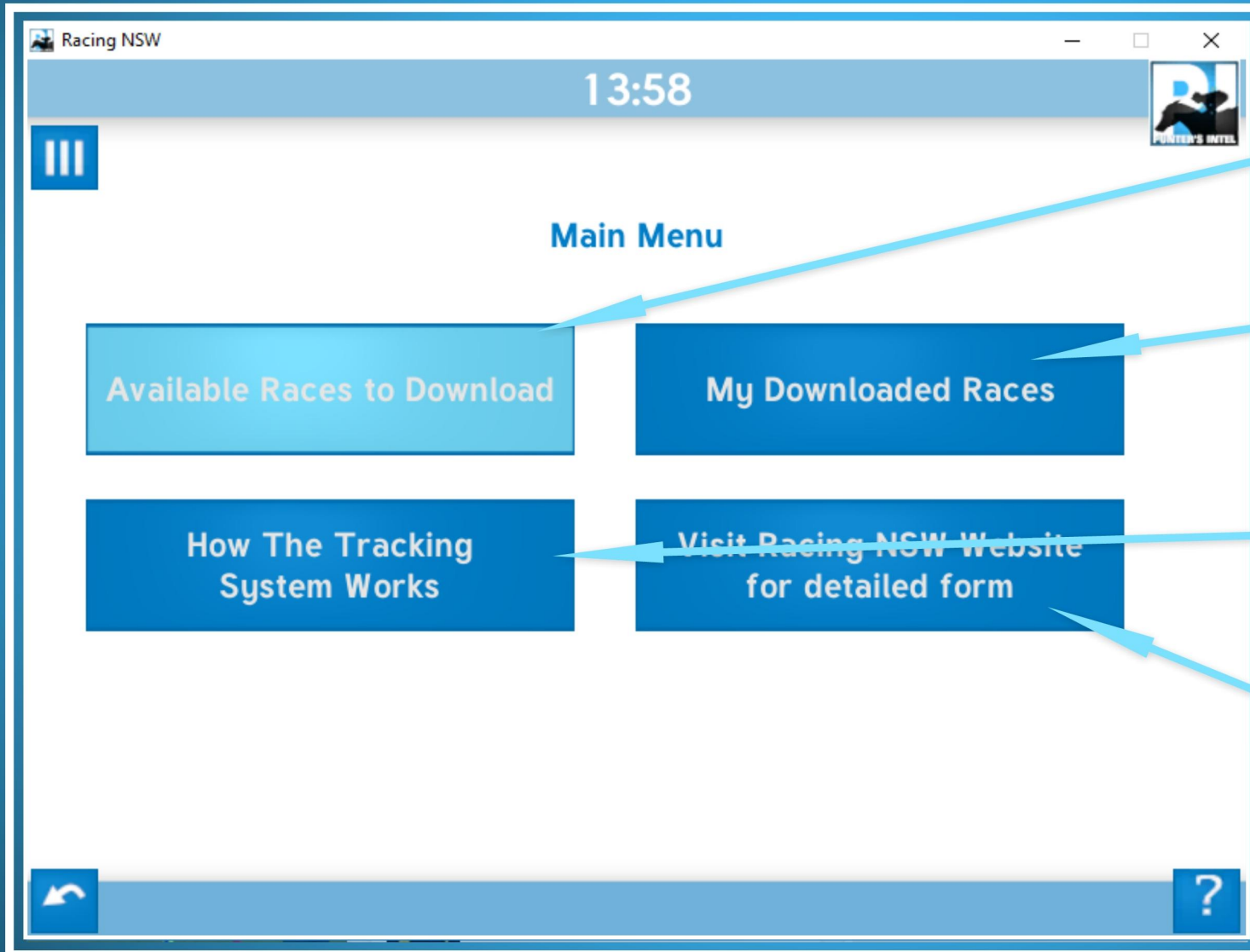
Refer screen shot below for Main Menu screen.

1. Available Race to Download
This section allows the user to download new races once available.

2. My Downloaded Races
Collection of races the user has downloaded previously. These races will also be available in offline mode.

3. How The Tracking System Works
An overview and explanation of the tracking system.

4. Visit Racing NSW Website for detailed form
Provides a link to the Racing NSW website for video replays, fields, form & news.

Figure 3.1 – Month selection.

14:37

Calendar

May 2017

April 2017

March 2017

February 2017

December 2016

Figure 3.2 – Meeting list.

WYONG – THURSDAY, 23RD FEBRUARY, 2017

ROYAL RANDWICK – WEDNESDAY, 15TH FEBRUARY, 2017

HAWKESBURY – TUESDAY, 21ST FEBRUARY, 2017

Figure 3.3 – Individual race selection.

RACE 1 - GARY MONTGOMERY HANDICAP   15/02/2017   Download

RACE 2 - GREG CARMODY HANDICAP   15/02/2017   Download

RACE 3 - MICK STANLEY HANDICAP   15/02/2017   Download

To download a race, once inside the Available Races to Download screen, follow the below steps:

1. Click on the race month and relevant meeting. (Fig. 3.1)

2. Once a particular race meeting is open, (Fig. 3.2), select the race to download. (Fig.3.3)

3. Once the race has downloaded press on the replay button. The downloaded race will then also appear in the My Downloaded Races page.

6. MY DOWNLOADED RACES

Figure 3.1 – Month selection.

May 2017

March 2017

February 2017

Figure 3.2 – Meeting list.

WYONG – THURSDAY, 23RD FEBRUARY, 2017

ROYAL RANDWICK – WEDNESDAY, 15TH FEBRUARY, 2017

HAWKESBURY – TUESDAY, 21ST FEBRUARY, 2017

Figure 3.3 – Individual race selection.

To download a race once inside the Available Races to Download screen, follow the below steps:

1. Click on the race month and relevant meeting. (Fig. 3.1)

2. Once a particular race meeting is open, (Fig. 3.2), select the race to replay. (Fig.3.3)

7. USER CONTROLS

Once a particular race has been selected for replay, the set-out below is an explanation of the various information and controls available.

CONTROL ON SCREEN	ACTION WHEN SELECTED	CONTROL ON SCREEN	ACTION WHEN SELECTED
↰	Exits the race replay screen.	2D	Select 2D view of replay.
▶	Starts the race replay, (Reverts to pause button when replay is running).	🐎	Select top down, (Helicopter style), view of replay.
⏩	Fast forwards the replay.	🏇	Select lateral camera angle of replay, (This is the default setting).
← →	Changes the field of view during the race. Left is closer to leader, right is closer to the last horse.	🐴	Select behind the jockey view of the race.
🔍⊖ 🔍⊕	Zoom in and zoom out function for any camera angle.	👕	Toggle on/off the full field information bubbles for all horses at once.

8. RACE TIMELINE

00:49.92   1205m

Rosehill Gardens | 06/05/2017 | Race 7 | SYDNEY MARKETS LIMITED LORD MAYOR'S CUP new | 2000m

8 Jessy Belle	9 Big Blue	10 Slow Pace	11 Happy Hannah
Speed: 58.5km/h	Speed: 58.5km/h	Speed: 57.8km/h	Speed: 59.4km/h
Behind: 12.4 m	Behind: 12.3 m	Behind: 11.3 m	Behind: 26.1 m
Last 200m:0:12.35	Last 200m:0:12.39	Last 200m:0:12.28	Last 200m:0:12.40
Last 400m:0:11.53	Last 400m:0:11.51	Last 400m:0:11.44	Last 400m:0:11.80

RACE START

SECTIONAL POINT

FINISH

CURRENT RACE POSTION

The Race Timeline feature includes points such as race start, recorded sectionals and finish. The timeline can be used by clicking or dragging the blue box through points to reach your desired point of time.

You can click or tap through to any point of the running of the race through the Race Timeline.

The All Data function provides the user with data for each runner while the race is being run.
The race replay will automatically show the data for all runners.

If not required the All Data function can be turned off by clicking the All Data button in the bottom right corner.

The All Data function can be subsequently be reactivated by again clicking the All Data button.

Tap here to hide/show data bubbles.

00:55.56   1114m

Rosehill Gardens | 06/05/2017 | Race 7 | SYDNEY MARKETS LIMITED LORD MAYOR'S CUP new 2000 m

7 New Tipperary

Speed:	57.9km/h
To Finish:	1124 m
Behind:	10.1 m
Inter:	0:50.54
1200m:	0:12.42
1400m:	0:12.33

8   2nd   10   11   3rd   5   6   4   12   7   8   1st

3   4   5   6   7   8   9   10   11   12   13   14

PREV   PLAY   FWD   FIELD POS FRONT   FIELD POS BACK   ZOOM OUT   ZOOM IN   2D View   Top View   Side View   Back View   DATA

Other than the All-Data function, the individual horse data view allows users to highlight and view the individual data of up to four selected runners at once.

To select a runner and view individual data during the run, click the number of the desired horse(s) at the bottom of the screen. Click multiple numbers to select up to four runners

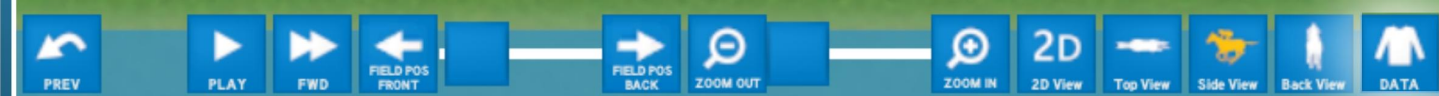On the left and right sides of the screen are Race Wings highlighting information about each horse at any point of the race.

These wings can be removed from view during the race replay by clicking on the respective data box, which will disappear to the side of screen. They can also be reinstated into view by clicking on the screen either at the top left and/or top right, depending on which box is desired.

00:35.35   1441m

Rosehill Gardens | 06/05/2017 | Race 7 | SYDNEY MARKETS LIMITED LORD MAYOR'S CUP new | 2000

Current Standing			>Speed
1.	16	Hunter Jack	59.3 km/h
2.	4	Top of My List	59.0 km/h
3.	7	New Tipperary	58.7 km/h
4.	10	Slow Pace	58.9 km/h
5.	9	Big Blue	58.4 km/h
6.	8	Jessy Belle	58.1 km/h
7.	13	Danjeu	58.3 km/h
8.	3	Allergic	58.1 km/h
9.	12	Soviet Courage	60.0 km/h
10.	5	Astronomos	58.8 km/h
11.	6	Beyond Thankful	58.9 km/h
12.	11	Happy Hannah	58.9 km/h

On the top left of the screen is the 'Current Standing'. This displays in order from the leader at that point of the race, the position of each horse. Standard data shown is the order from the leader (1), horse number and horse name. Further, the right hand column provides various data for the race that can be rotated through by the user and viewed by clicking on the column header.

Behind – shows the distance in metres from the leader at that point of the race. The leader is displayed as 0.0 m, with the remainder of the field expressed in terms of distance from the leader.

For example: 0.0 m (leader)
       1.9 m (second)
       3.3 m (third)

Speed – the speed of each runner at that point in the race measured by kilometres per hour.

To Go – the distance remaining in the race from that point for each runner.

13. RIGHT RACE WING

00:35.35   1441m

Rosehill Gardens | 06/05/2017 | Race 7 | SYDNEY MARKETS LIMITED LORD MAYOR'S CUP new | 2000m

1600m			⟩Intermediate
1.	14	Hunter Jack	0:25.53
2.	4	Top of My List	0:25.57
3.	7	New Tipperary	0:25.78
4.	10	Slow Pace	0:25.91
5.	9	Big Blue	0:26.02
6.	8	Jessy Belle	0:26.15
7.	3	Allergic	0:26.38
8.	13	Danjeu	0:26.39
9.	12	Soviet Courage	0:26.61
10.	5	Astronomos	0:26.64
11.	6	Beyond Thankful	0:26.69
12.	11	Happy Hannah	0:26.88

The right race wing provides various data that can be rotated and viewed by clicking on the column header.

Section – displays for each horse the most recent 200m of the race that has been completed. The sections are set as neat 200m segments from the finish, 200m, 400m, 600m etc.
If a race is run over 1500m and horses have covered 1100m of the race, the 'section' time displayed will be the time for the 200m between 1400m and 1200m (being the most recently completed 200m section of the race).

Intermediate - displays for each horse overall time up until most recent 200m of the race that has been completed.

Note that where races are held at a distance that is not neatly divisible by 200m, the first section will be the distance from the start until a 200m segment. For instance with races at 1100m or 1500m, the first section will be 100m.

Zooming

The user can zoom closer or further from the race view by clicking on the on-screen zoom buttons.

To zoom closer and enlarge the view, click on the zoom in button. To zoom further from and decrease the view, click the zoom out button.
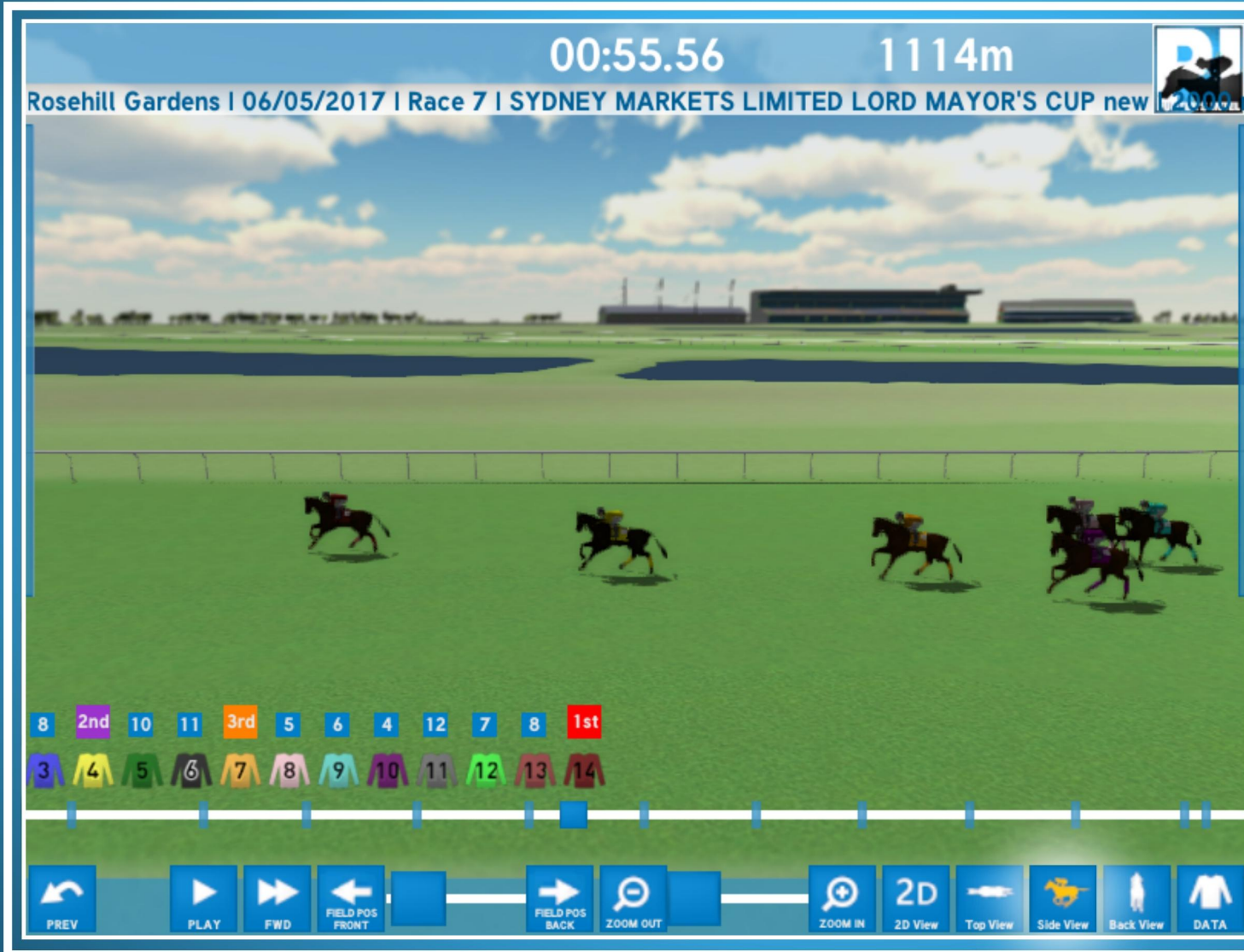
The user can also zoom in and out by sliding the on-screen scroll bar between the buttons, either left to zoom out or right to zoom in.

Field Position

During the running of races, the horses may spread out across a long distance between the leader and tail end of the field. In many cases the field will spread to the width of the screen or further.

The default view will be in the middle of the race field during the run of the race.

Users can shift the view to their desired part of the field by clicking left or right arrows.

SIDE VIEW

00:55.56   1114m

Rosehill Gardens | 06/05/2017 | Race 7 | SYDNEY MARKETS LIMITED LORD MAYOR'S CUP new

| 8 | 2nd | 10 | 11 | 3rd | 5 | 6 | 4 | 12 | 7 | 8 | 1st |

| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

PREV   PLAY   FWD   FIELD POS FRONT   FIELD POS BACK   ZOOM OUT   ZOOM IN   2D View   Top View   Side View   Back View   DATA

The side view is the default starting camera angle for all races. This view allows the user to effectively gage placings and data throughout the replay.
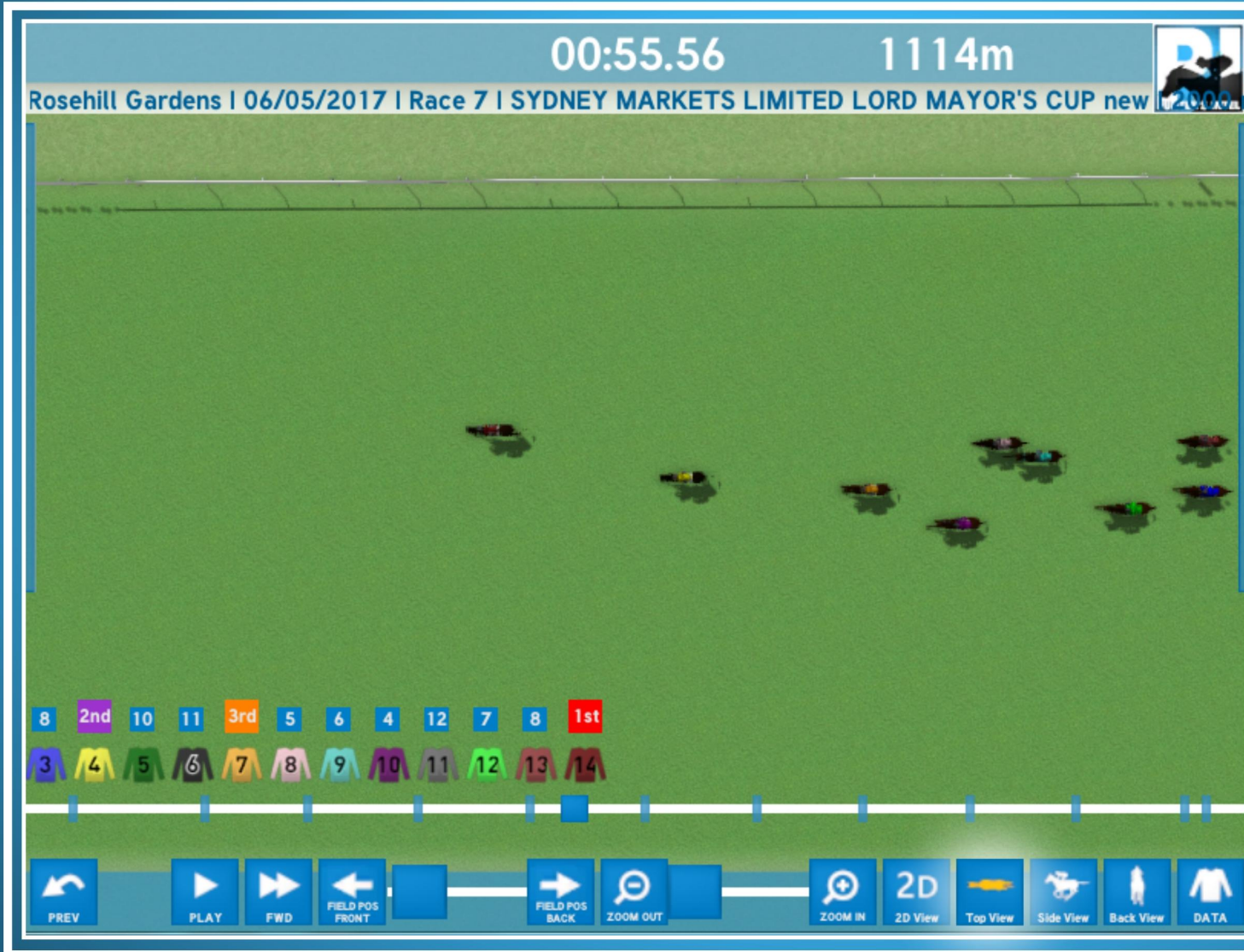
Top View offers a bird's eye of view of the race. This angle offers a full field view and can be used to ensure nothing is missed throughout the race.

BEHIND VIEW

The Behind angle offers a full field view throughout the race.
This view is useful to explore a horse running from their point of view. Intangibles such as cover, being caught wide and running into "traffic" are apparent in Behind View.
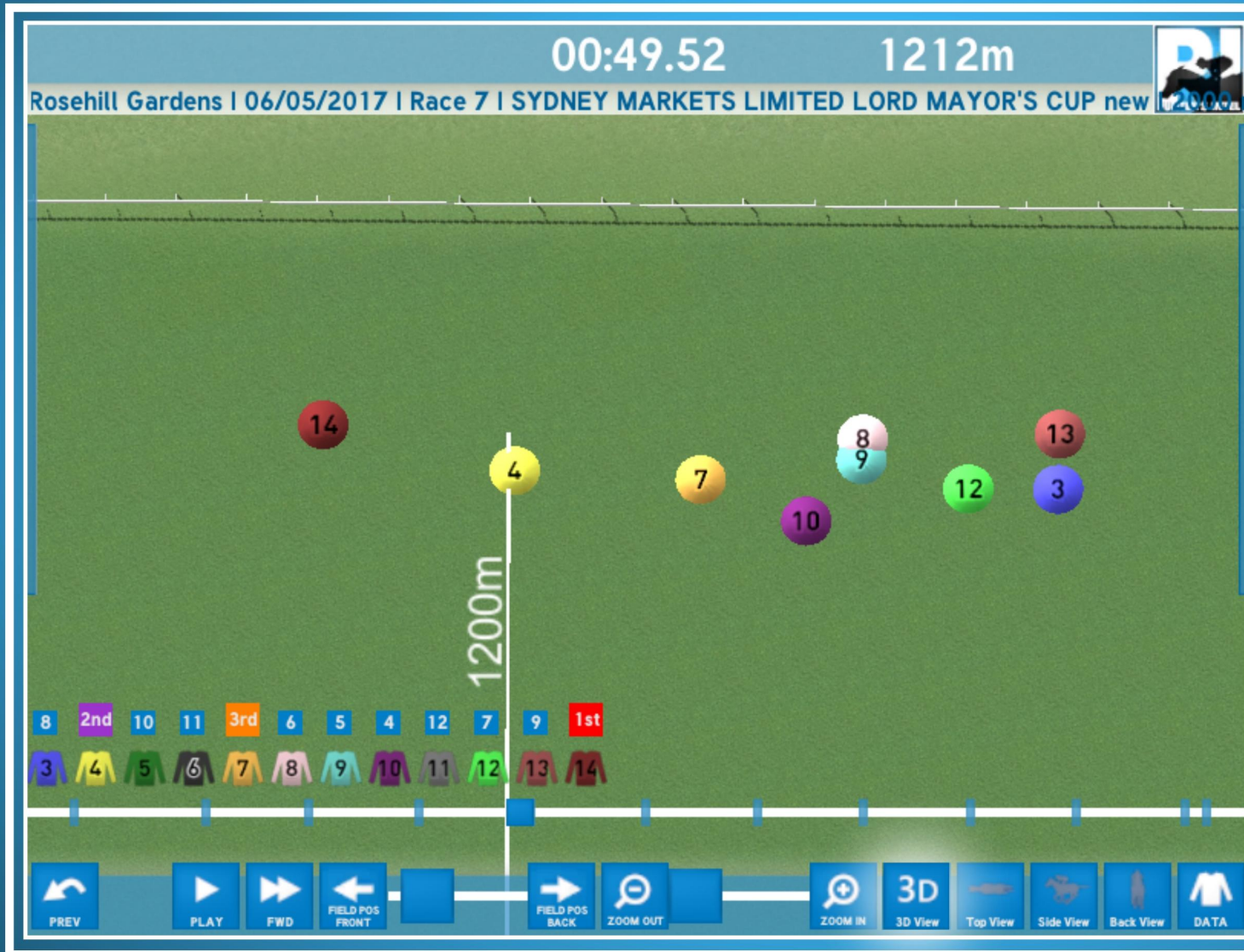
Two Dimensional View is always shown from a top view and is a unique angle to percieve data throughout the race.

FINAL SCREEN INFORMATION PAGE - SECTIONALS

At the end of the race, a final screen will appear showing the race results and allowing the user to view all relevant data from the race for each horse.

Sectional for field time over 200m appears on second line next to Jockey's name.

INDIVIDUAL RUNNERS DISTANCE TRAVELLED

INDIVIDUAL RUNNERS LAST 600m

200m SECTIONAL TIME RECORDED

DISTANCE WHEN TOP SPEED WAS RECORDED

DISTANCE WHEN FASTEST 200m RECORDED

SPEED RANKING OF SECTIONAL IN FIELD

INTERMEDIATE SECTIONAL TIME RECORDED

Newcastle
Track: Soft 6Rail: Out 3m Entire Circuit
01:16

Newcastle | 17/06/2017 | Race 8 | TLE NEWCASTLE CLASS 1 HANDICAP | 1200 m

Sectionals / Intermediate

Field Times

Rank	TAB	Horse	Barrier	Top Speed [km/h]	Fastest 200m	Start to 1000m	1000m to 800m	800m to 600m	Last 600m 0:35.41	Distance Travelled [m]
1	2	COSMIC ENGINE	3	65.9	0:11.37	0:13.68 [8]	0:25.12 [8]	0:37.13 [8]	0:34.85	1199.7
2	9	SUNCRAZE	8	67.4	0:11.32	0:13.47 [6]	0:24.89 [6]	0:36.99 [6]	0:35.07	1215.7
3	13	LONGCHAMP LASS	5	65.5	0:11.40	0:13.38 [4]	0:24.79 [5]	0:36.89 [5]	0:35.58	1215.7
4	18	TORIO'S DELIGHT	11	67.2	0:11.36	0:13.46 [5]	0:24.72 [4]	0:36.77 [3]	0:36.05	1216.7
5	10	DEANGELO	16	68.1	0:11.33	0:13.23	0:24.56 [2]	0:36.65 [2]	0:36.38	1208.8
6	1	ADDICTICRAFT	14	66.0	0:11.40	0:13.99 [9]	0:25.39 [10]	0:37.21 [9]	0:36.14	1215.8
7	16	IRISH DUKE	13	66.3	0:11.55	0:14.04 [10]	0:25.39 [10]	0:37.31 [11]	0:36.01	1212.3
8	3	HUTCHO	7	68.1	0:11.47	0:13.22 [2]	0:24.69 [3]	0:36.83 [4]	0:36.69	1210.2
9	6	OAKFIELD ALI	1	66.2	0:11.42	0:13.50 [7]	0:24.92 [7]	0:37.07 [7]	0:37.05	1215.7
10	4	TEXAS REBEL		65.4	0:11.31	0:14.04 [11]	0:25.36 [9]	0:37.40 [10]	0:36.96	1204.4
11	5	ALU ALU		68.8	0:11.31	0:13.11 [1]	0:24.43 [1]	0:36.58 [1]	0:40.30	1212.6

HOME | PREV | PLAY | FWD | FIELD POS FRONT | FIELD POS BACK | ZOOM OUT | ZOOM IN | 2D View | Top View | Side View | Back View | DATA

INDIVIDUAL RUNNERS DISTANCE TRAVELLED

INDIVIDUAL RUNNERS LAST 600m

200m SECTIONAL TIME RECORDED

DISTANCE WHEN TOP SPEED WAS RECORDED

DISTANCE WHEN FASTEST 200m RECORDED

SPEED RANKING OF SECTIONAL IN FIELD

INTERMEDIATE SECTIONAL TIME RECORDED

At the end of the race, a final screen will appear showing the race results and allowing the user to view all relevant data from the race for each horse.

Sectional for field time over 200m appears on second line next to Jockey's name.