Technology to Take Racing into the Future
- GPS by Equibase-

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Single GPS System Economically Addresses Four Key Racing Needs And Data Enrichment

- **Charting**
- **Timing**
- **Graphics**
- **Workouts**

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1 - Using GPS For Chart Creation Results in Deeper & More Accurate Information

- GPS more accurate than the human eye
- Positions can be recorded at any point
- Deeper Data: distance traveled, stride length

Pgm	Horse Name (Jockey)	Wgt	M/E	PP	Start	1/4	1/2	Str	Fin	Odds
3	Maiden Beauty (Rosario, Joel)	118	L	3	6	$6^{1/2}$	5^2	3^1	$1^{3\ 1/4}$	22.80
8	Tossup (Bravo, Joe)	117	L	7	7	$7^{1/2}$	3^1	$2^{1\ 1/2}$	2^{Head}	3.50
1	Midnitesalright (Franco, Manuel)	117	L b	1	3	2^1	$2^{1/2}$	1^{Head}	3^{Head}	4.70
7	She's Trouble (Ortiz, Jr., Irad)	117	L	6	8	8	$7^{3\ 1/2}$	4^1	4^2	3.05*
2	Icy Lady (Castellano, Javier)	121	L	2	4	$5^{1/2}$	4^{Head}	$5^{1\ 1/2}$	$5^{7\ 3/4}$	14.90
5	Native Dawn (Ortiz, Jose)	121	L	4	1	$1^{1\ 1/2}$	1^{Head}	6^4	$6^{1\ 1/2}$	4.30
6	Princess Pinky (Velazquez, John)	117	L	5	5	3^1	6^{Head}	$7^{3\ 1/2}$	7^3	15.90
9	Positively Jean (Carmouche, Kendrick)	121	L	8	2	$4^{1/2}$	8	8	8	4.00

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2 - Unlike Existing Timing Systems GPS Has No Infrastructure to Maintain & Records Time Continuously

- Tracks with Turf Courses and multiple lanes could have over 100 Timing Eyes

- Track configuration changes requires minimal effort to deal with

- Allows for infinite timing "Points of Call"

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3 – GPS System Has the Capability to Drive Real Time & Post-Race Graphics

- **Complete Running Order Reduces Reliance on Placing Judges**
- **More Complex 2-D Depiction of Positions Expected in Near Future**
- **Post Race Analysis Can Enhance Broadcasts**

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4 – Workouts tracked by GPS: better accuracy, data depth & integrity

- Today's data lacks public confidence
- Ability to have internal and accurate final times
- Additional information available to public or trainer
- Impressive software display already in place
- Major challenge – logistics
- Keeneland beta test and micro-chipping

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Equibase is the Official Timing Company At Major Tracks

Two Additional Tracks
October 2018 and January 2019

Expansion and Development

- **More installations planed for 2019**
- **Developing graphics in-house**
  - **Currently, data to drive graphics available to tracks' video providers**
  - **Development will allow Equibase to serve customers enhanced graphics directly**
- **Enriched data to be leveraged once critical mass is reached**
- **Workout development continuing (micro-chips and logistics)**

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