



TIME ANALYSIS
FOR THE
IAAF World Championships
LONDON 2017
800 m Women's

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INTRODUCTION

The women's 800 m final was held in the late evening of August 13th. The heats were held three days earlier on August 10th, with the semi-finals the following evening. In the six heats, the first three finishers qualified automatically, and the six fastest non-automatic qualifiers also progressed. There were three semi-finals; the first two in each qualified for the final automatically, along with the two fastest losers. The average speeds for each athlete over every 100 m segment are included in this report, as well as a graph of each athlete's position at each 100 m split. The split data were provided by SEIKO. The results of the final are shown below.

IAAF
World Championships

London
4-13 August 2017



RESULTS

800 Metres Women - Final

RECORDS	RESULT	NAME	COUNTRY	AGE	VENUE	DATE
World Record WR	1:53.28	Jarmila KRATOCHVÍLOVÁ	TCH	32	München (Olympiastadion)	26 Jul 1983
Championships Record CR	1:54.68	Jarmila KRATOCHVÍLOVÁ	TCH	32	Helsinki (Olympic Stadium)	9 Aug 1983
World Leading WL	1:55.16	Caster SEMENYA	RSA	26	London	13 Aug 2017
Area Record AR		National Record NR		Personal Best PB		Season Best SB

13 August 2017 20:10 START TIME 22° C TEMPERATURE 35 % HUMIDITY

PLACE	NAME	COUNTRY	DATE of BIRTH	LANE	RESULT	
1	Caster SEMENYA	RSA	7 Jan 91	4	1:55.16	WL
2	Francine NIYONSABA	BDI	5 May 93	7	1:55.92	
3	Ajee WILSON	USA	8 May 94	5	1:56.65	
4	Margaret Nyairera WAMBUI	KEN	15 Sep 95	9	1:57.54	
5	Melissa BISHOP	CAN	5 Aug 88	6	1:57.68	
6	Angelika CICHOCKA	POL	15 Mar 88	3	1:58.41	PB
7	Charlene LIPSEY	USA	16 Jul 91	8	1:58.73	
8	Lynsey SHARP	GBR	11 Jul 90	2	1:58.98	

Timing and Measurement by SEIKO AT-800-W-1--1--.RS1..v1 Issued at 20:14 on Sunday, 13 August 2017

Official Partners














Table 1. List of abbreviations used.

Q	Automatic qualifier for next round	DNF	Did not finish
q	Qualified for next round as fastest loser	PB	Personal best time
DQ	Disqualified	SB	Season's best time
WL	Leading time in the world this year		

Heat 1

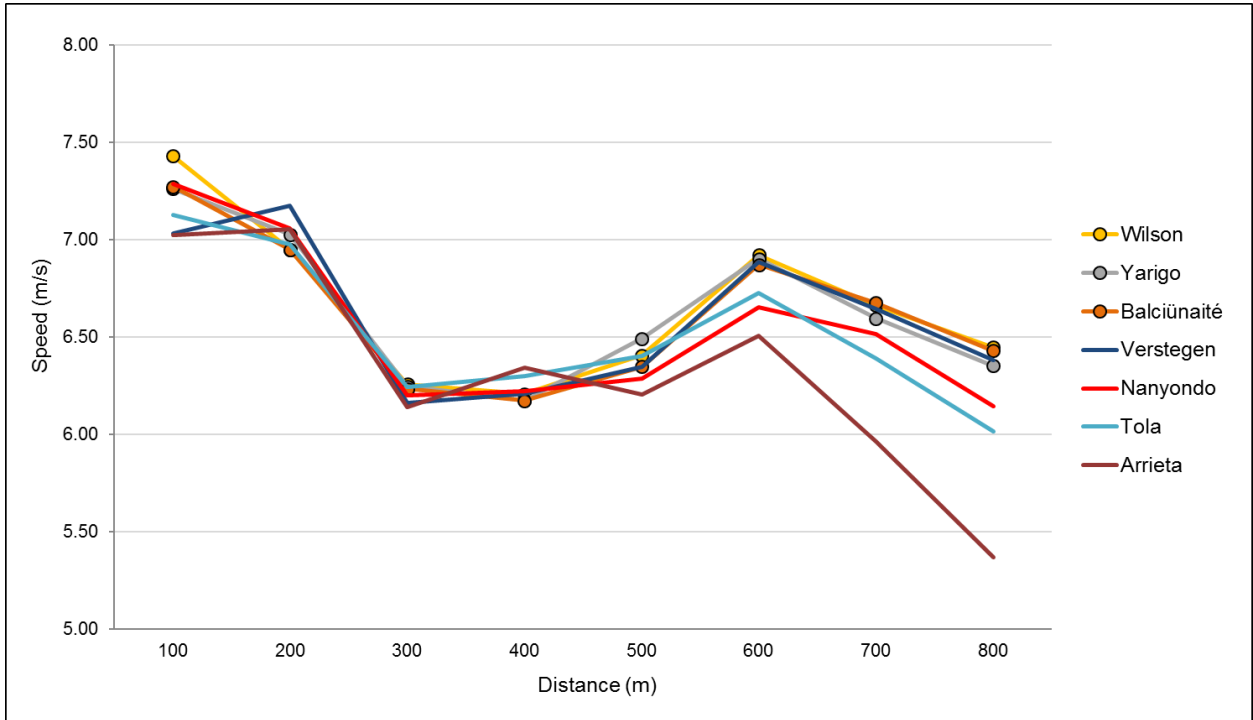


Figure 1. The mean speeds for each 100 m segment for each athlete in Heat 1.

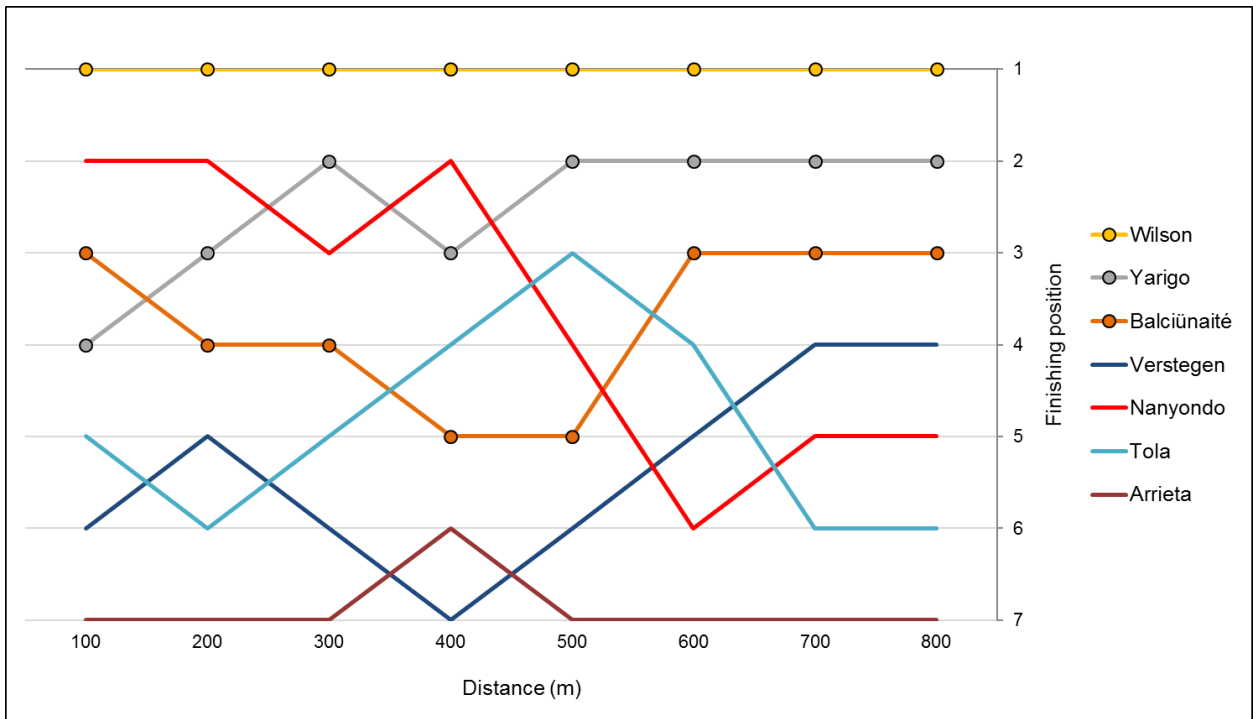


Figure 2. The position of each athlete after each 100 m segment in Heat 1.

4380	Wilson, Ajee (USA) Q	Posn. 1
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.46	27.85	43.83	59.94	1:15.55	1:30.00	1:45.01	2:00.52
100m	13.46	14.39	15.98	16.11	15.61	14.45	15.01	15.51
400m				59.94				1:00.58

3667	Yarigo, Noélie (BEN) Q SB	Posn. 2
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.77	28.00	44.01	1:00.20	1:15.60	1:30.09	1:45.25	2:00.99
100m	13.77	14.23	16.01	16.19	15.40	14.49	15.16	15.74
400m				1:00.20				1:00.79

4100	Balciūnaitė, Egle (LTU) Q SB	Posn. 3
------	------------------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.75	28.14	44.18	1:00.38	1:16.13	1:30.68	1:45.66	2:01.21
100m	13.75	14.39	16.04	16.20	15.75	14.55	14.98	15.55
400m				1:00.38				1:00.83

4135	Verstegen, Sanne (NED) q	Posn. 4
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.22	28.16	44.39	1:00.50	1:16.26	1:30.78	1:45.83	2:01.50
100m	14.22	13.94	16.23	16.11	15.76	14.52	15.05	15.67
400m				1:00.50				1:01.00

4282	Nanyondo, Winnie (UGA)	Posn. 5
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.72	27.89	44.02	1:00.09	1:16.00	1:31.03	1:46.38	2:02.65
100m	13.72	14.17	16.13	16.07	15.91	15.03	15.35	16.27
400m				1:00.09				1:02.56

3850	Tola, Kore (ETH)	Posn. 6
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.03	28.36	44.38	1:00.25	1:15.87	1:30.74	1:46.39	2:03.01
100m	14.03	14.33	16.02	15.87	15.62	14.87	15.65	16.62
400m				1:00.25				1:02.76

3776	Arrieta, Johana (COL)	Posn. 7
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.24	28.42	44.71	1:00.48	1:16.60	1:31.97	1:48.74	2:07.36
100m	14.24	14.18	16.29	15.77	16.12	15.37	16.77	18.62
400m				1:00.48				1:06.88

Heat 2

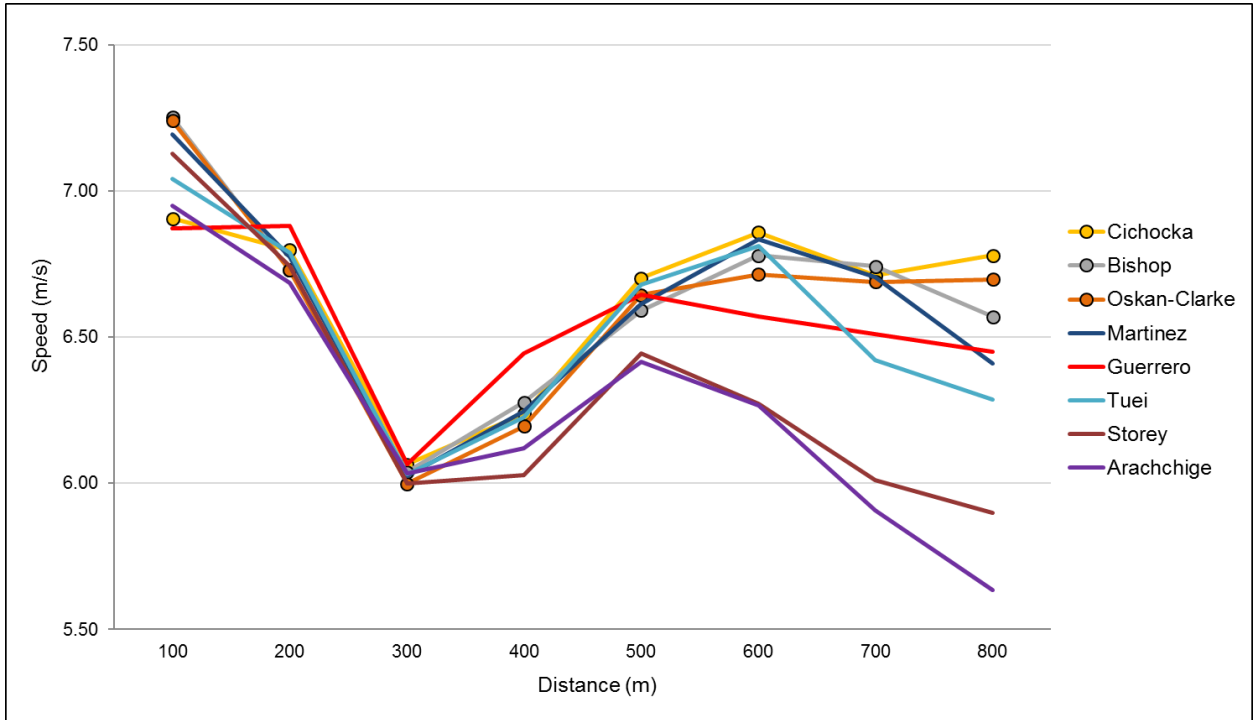


Figure 3. The mean speeds for each 100 m segment for each athlete in Heat 2.

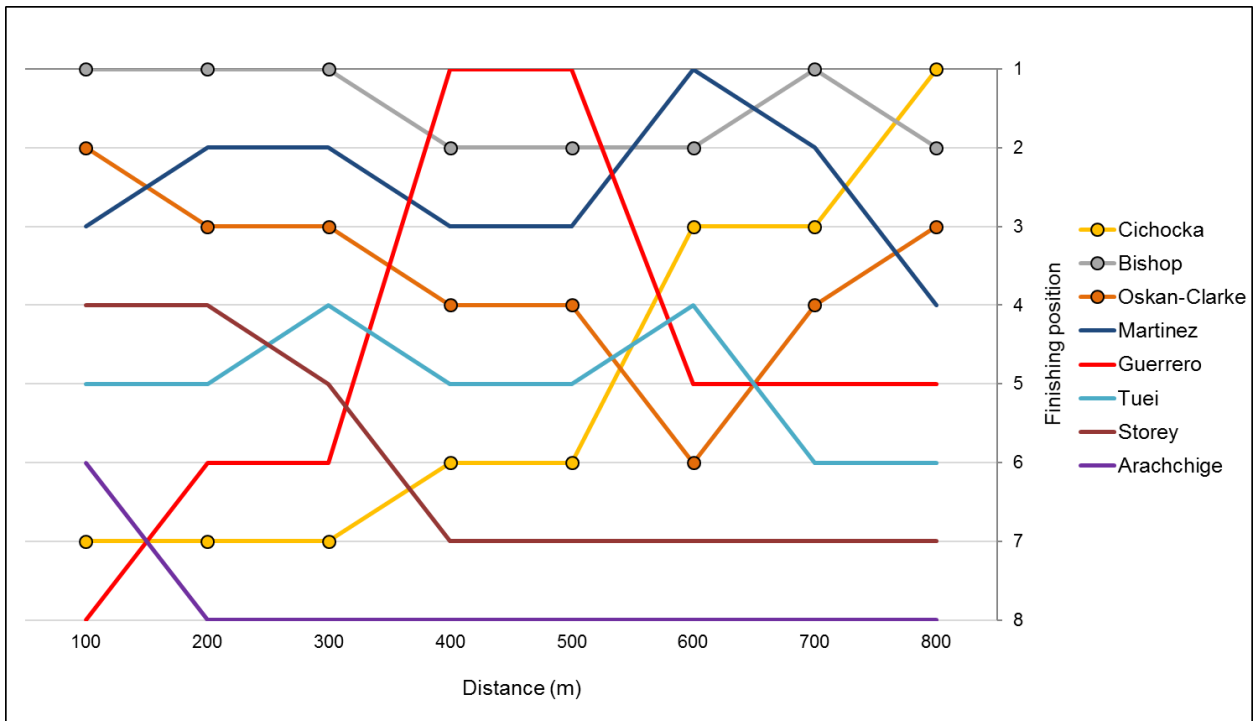


Figure 4. The position of each athlete after each 100 m segment in Heat 2.

4166	Cichocka, Angelika (POL) Q SB	Posn. 1
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.48	29.19	45.68	1:01.71	1:16.63	1:31.21	1:46.11	2:00.86
100m	14.48	14.71	16.49	16.03	14.92	14.58	14.90	14.75
400m				1:01.71				59.15

3719	Bishop, Melissa (CAN) Q	Posn. 2
------	-------------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.79	28.65	45.21	1:01.14	1:16.31	1:31.06	1:45.89	2:01.11
100m	13.79	14.86	16.56	15.93	15.17	14.75	14.83	15.22
400m				1:01.14				59.97

3904	Oskan-Clarke, Shelayna (GBR) Q	Posn. 3
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.81	28.67	45.34	1:01.48	1:16.53	1:31.42	1:46.37	2:01.30
100m	13.81	14.86	16.67	16.14	15.05	14.89	14.95	14.93
400m				1:01.48				59.82

4354	Martinez, Brenda (USA) q	Posn. 4
------	--------------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.90	28.66	45.26	1:01.27	1:16.39	1:31.02	1:45.93	2:01.53
100m	13.90	14.76	16.60	16.01	15.12	14.63	14.91	15.60
400m				1:01.27				1:00.26

3823	Guerrero, Esther (ESP)	Posn. 5
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.55	29.08	45.57	1:01.09	1:16.14	1:31.36	1:46.72	2:02.22
100m	14.55	14.53	16.49	15.52	15.05	15.22	15.36	15.50
400m				1:01.09				1:01.13

4089	Tuei, Emily Cherotich (KEN)	Posn. 6
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.20	28.93	45.51	1:01.57	1:16.54	1:31.22	1:46.79	2:02.70
100m	14.20	14.73	16.58	16.06	14.97	14.68	15.57	15.91
400m				1:01.57				1:01.13

3637	Storey, Lora (AUS)	Posn. 7
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.03	28.86	45.53	1:02.12	1:17.64	1:33.58	1:50.22	2:07.17
100m	14.03	14.83	16.67	16.59	15.52	15.94	16.64	16.95
400m				1:02.12				1:05.05

4223	Arachchige, Nimali W. K. L. (SRI)	Posn. 8
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.39	29.35	45.92	1:02.26	1:17.85	1:33.81	1:50.74	2:08.49
100m	14.39	14.96	16.57	16.34	15.59	15.96	16.93	17.75
400m				1:02.26				1:06.23

Heat 3

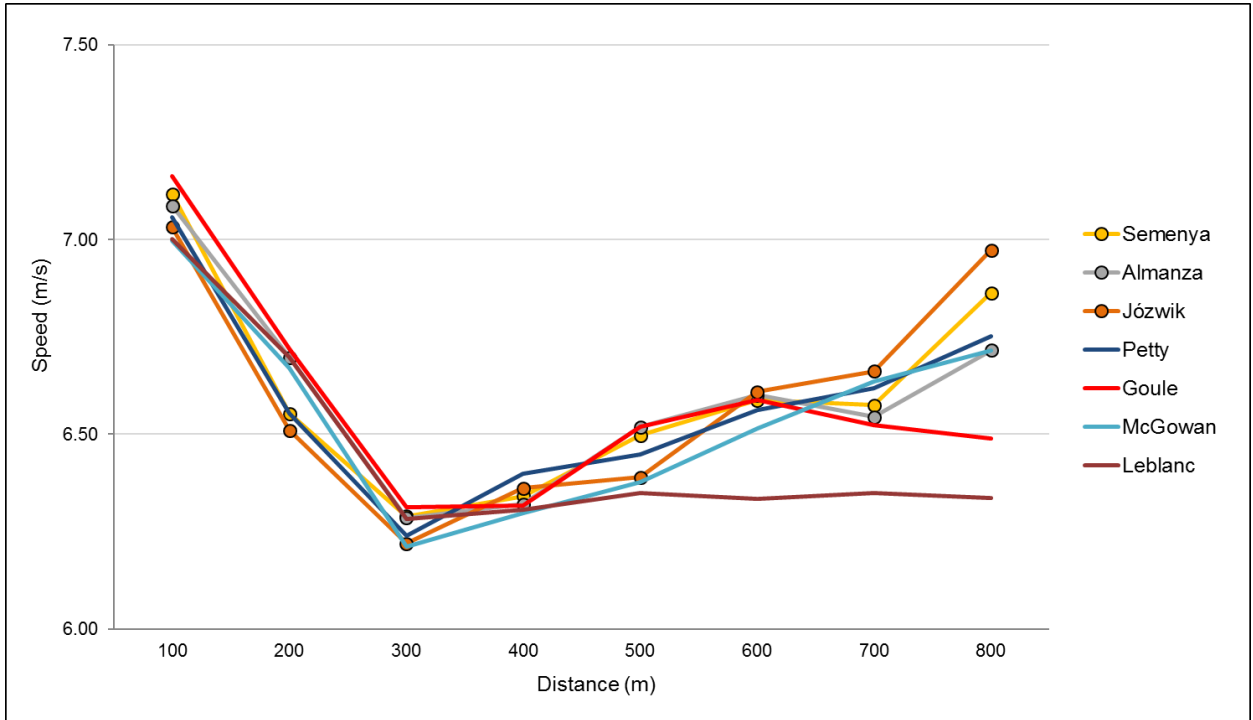


Figure 5. The mean speeds for each 100 m segment for each athlete in Heat 3.

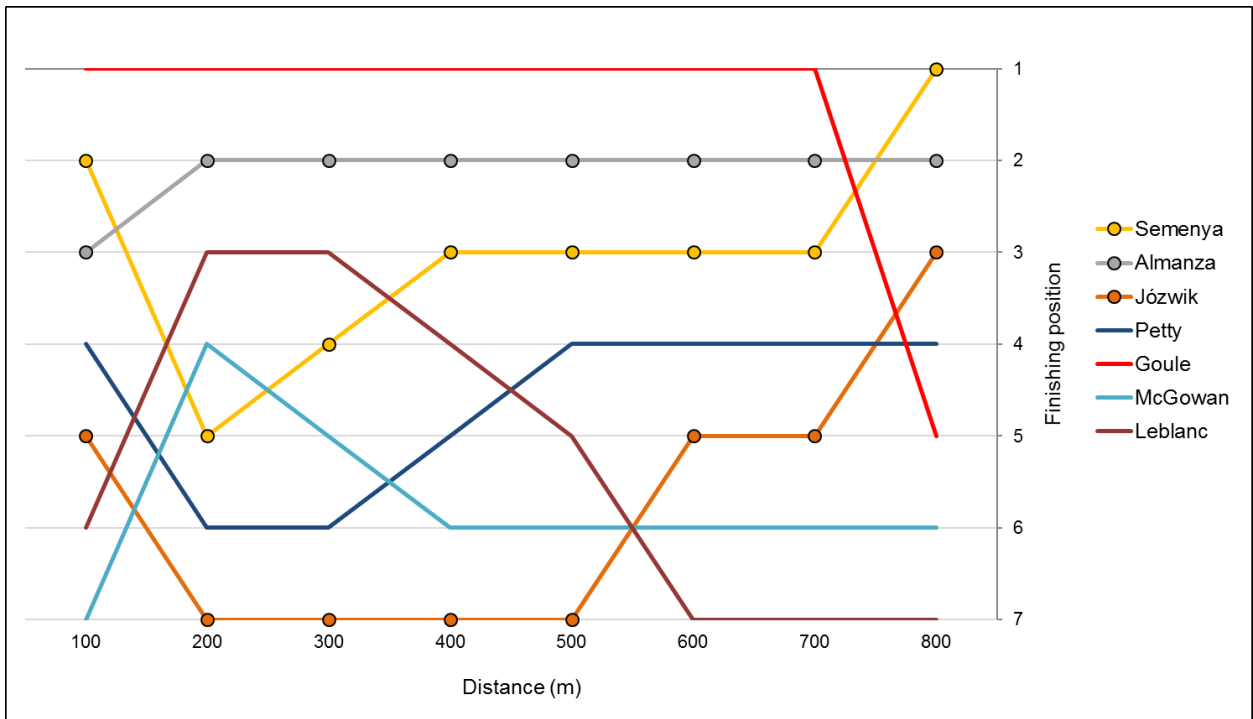


Figure 6. The position of each athlete after each 100 m segment in Heat 3.

4209	Semenya, Caster (RSA) Q	Posn. 1
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.05	29.31	45.21	1:00.98	1:16.37	1:31.55	1:46.76	2:01.33
100m	14.05	15.26	15.90	15.77	15.39	15.18	15.21	14.57
400m				1:00.98				1:00.35

3784	Almanza, Rose Mary (CUB) Q	Posn. 2
------	----------------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.11	29.04	44.95	1:00.77	1:16.11	1:31.26	1:46.54	2:01.43
100m	14.11	14.93	15.91	15.82	15.34	15.15	15.28	14.89
400m				1:00.77				1:00.66

4174	Jóźwik, Joanna (POL) Q	Posn. 3
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.22	29.58	45.66	1:01.38	1:17.03	1:32.16	1:47.17	2:01.51
100m	14.22	15.36	16.08	15.72	15.65	15.13	15.01	14.34
400m				1:01.38				1:00.13

4159	Petty, Angela (NZL)	Posn. 4
------	---------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.17	29.43	45.46	1:01.09	1:16.60	1:31.84	1:46.95	2:01.76
100m	14.17	15.26	16.03	15.63	15.51	15.24	15.11	14.81
400m				1:01.09				1:00.67

4028	Goule, Natoya (JAM)	Posn. 5
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.96	28.84	44.68	1:00.51	1:15.85	1:31.03	1:46.36	2:01.77
100m	13.96	14.88	15.84	15.83	15.34	15.18	15.33	15.41
400m				1:00.51				1:01.26

3626	McGowan, Brittany (AUS)	Posn. 6
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.29	29.28	45.38	1:01.26	1:16.94	1:32.29	1:47.36	2:02.25
100m	14.29	14.99	16.10	15.88	15.68	15.35	15.07	14.89
400m				1:01.26				1:00.69

3730	LeBlanc, Annie (CAN)	Posn. 7
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.28	29.21	45.13	1:00.99	1:16.74	1:32.53	1:48.28	2:04.06
100m	14.28	14.93	15.92	15.86	15.75	15.79	15.75	15.78
400m				1:00.99				1:03.07

Heat 4

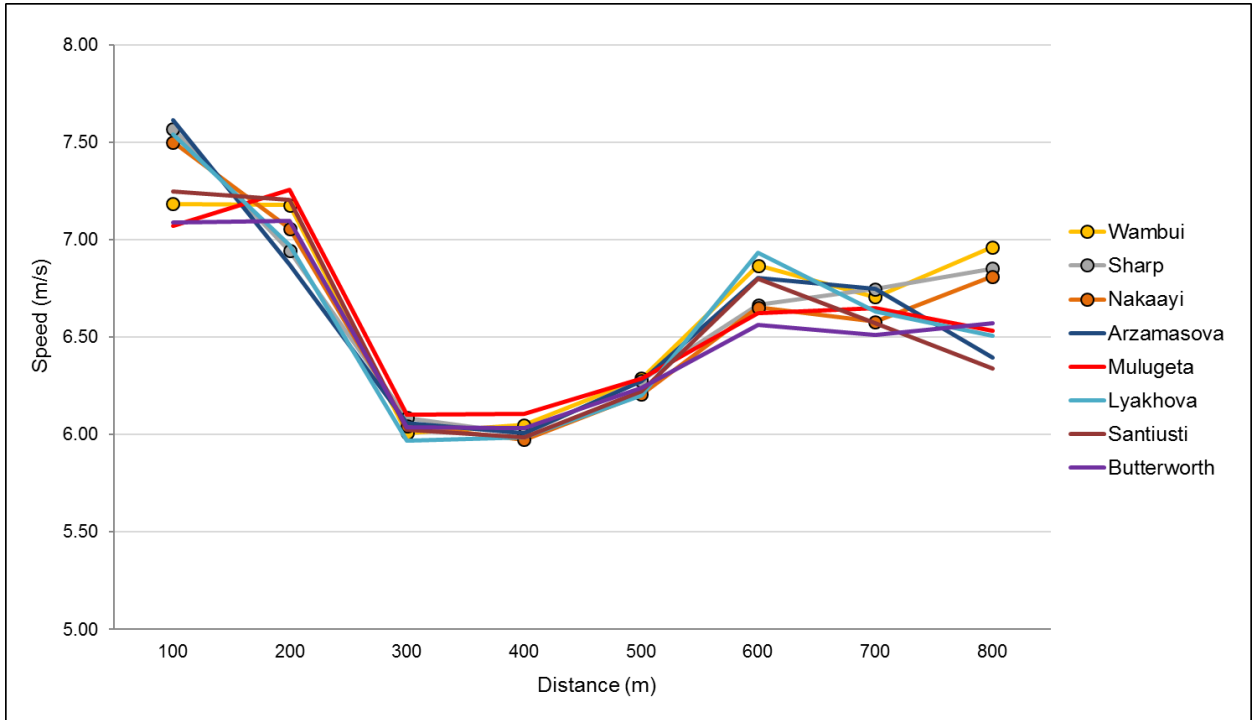


Figure 7. The mean speeds for each 100 m segment for each athlete in Heat 4.

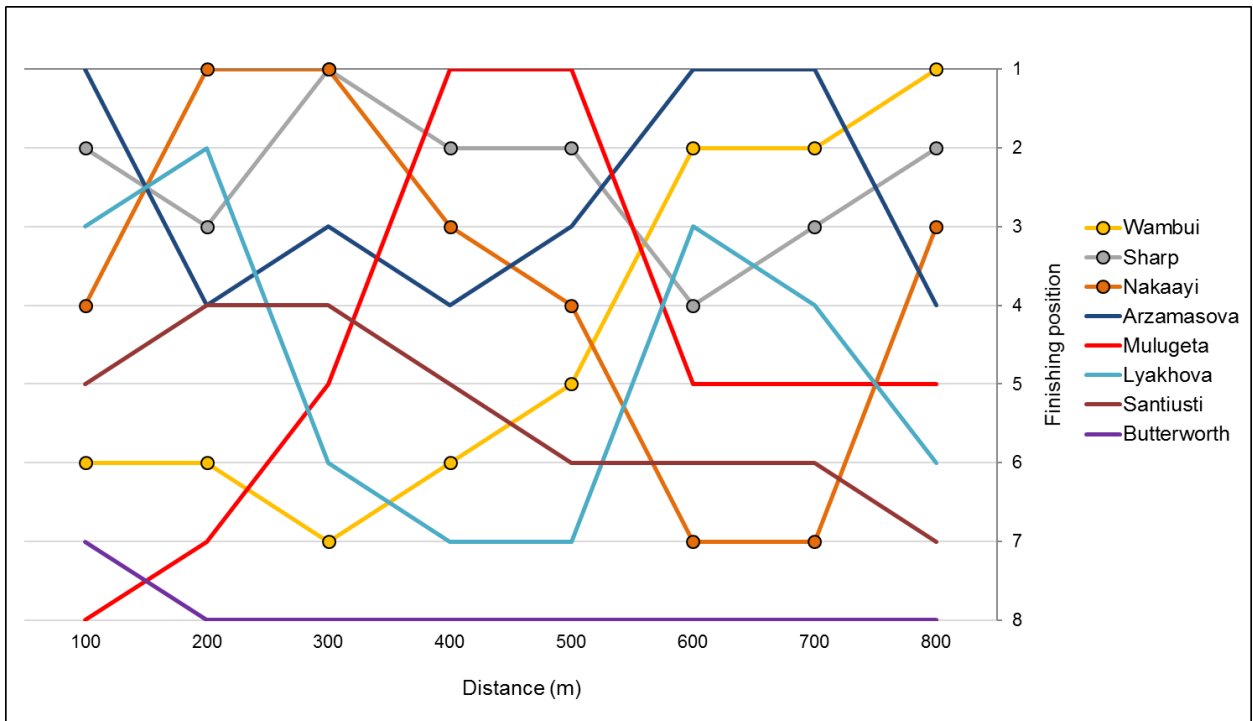


Figure 8. The position of each athlete after each 100 m segment in Heat 4.

4090	Wambui, Margaret Nyairera (KEN) Q	Posn. 1
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.92	27.85	44.49	1:01.02	1:16.92	1:31.48	1:46.39	2:00.75
100m	13.92	13.93	16.64	16.53	15.90	14.56	14.91	14.36
400m				1:01.02				59.73

3911	Sharp, Lynsey (GBR) Q	Posn. 2
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.21	27.61	44.04	1:00.70	1:16.63	1:31.63	1:46.45	2:01.04
100m	13.21	14.40	16.43	16.66	15.93	15.00	14.82	14.59
400m				1:00.70				1:00.34

4281	Nakaayi, Halima (UGA) Q	Posn. 3
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.33	27.50	44.04	1:00.78	1:16.89	1:31.92	1:47.12	2:01.80
100m	13.33	14.17	16.54	16.74	16.11	15.03	15.20	14.68
400m				1:00.78				1:01.02

3669	Arzamasova, Marina (BLR) SB	Posn. 4
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.13	27.68	44.18	1:00.82	1:16.76	1:31.46	1:46.28	2:01.92
100m	13.13	14.55	16.50	16.64	15.94	14.70	14.82	15.64
400m				1:00.82				1:01.10

3846	Mulugeta, Mahlet (ETH)	Posn. 5
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.14	27.92	44.31	1:00.69	1:16.59	1:31.69	1:46.73	2:02.04
100m	14.14	13.78	16.39	16.38	15.90	15.10	15.04	15.31
400m				1:00.69				1:01.35

4296	Lyakhova, Olha (UKR)	Posn. 6
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.26	27.60	44.36	1:01.07	1:17.20	1:31.62	1:46.70	2:02.07
100m	13.26	14.34	16.76	16.71	16.13	14.42	15.08	15.37
400m				1:01.07				1:01.00

4016	Santiusti, Yusneysi (ITA)	Posn. 7
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.80	27.68	44.28	1:00.98	1:17.05	1:31.76	1:46.98	2:02.75
100m	13.80	13.88	16.60	16.70	16.07	14.71	15.22	15.77
400m				1:00.98				1:01.77

3722	Butterworth, Lindsey (CAN)	Posn. 8
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.11	28.20	44.76	1:01.34	1:17.37	1:32.61	1:47.97	2:03.19
100m	14.11	14.09	16.56	16.58	16.03	15.24	15.36	15.22
400m				1:01.34				1:01.85

Heat 5

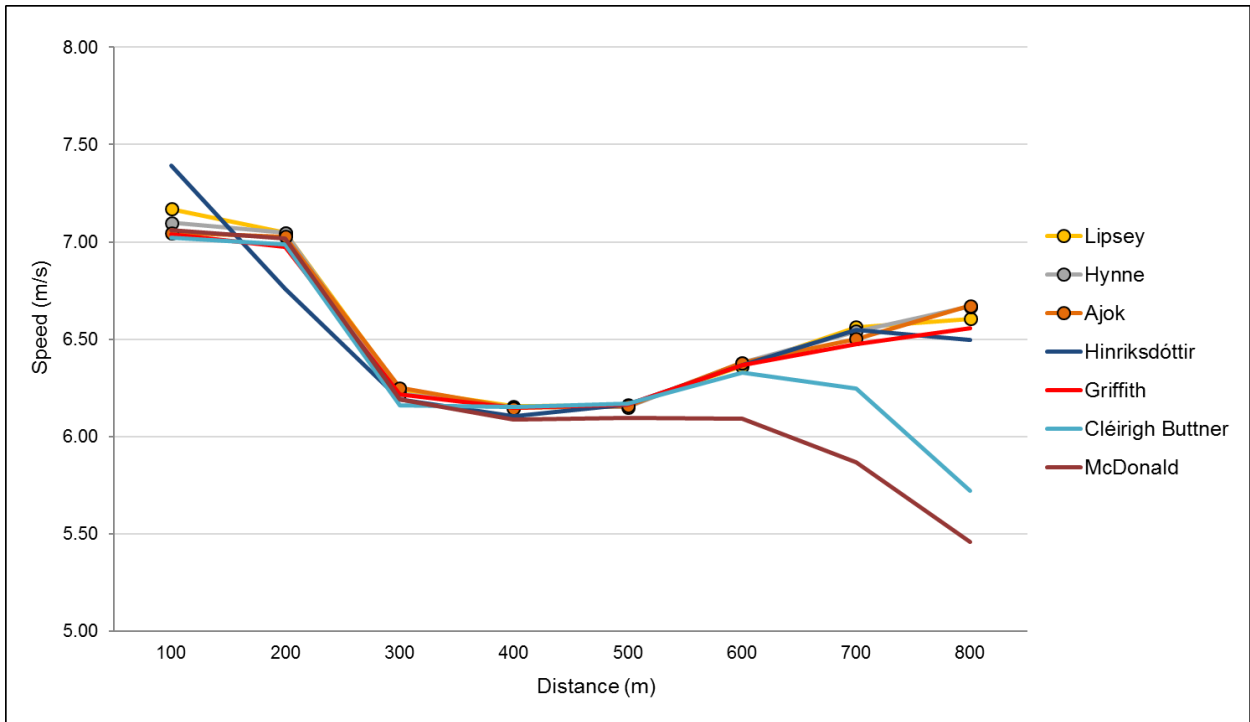


Figure 9. The mean speeds for each 100 m segment for each athlete in Heat 5.

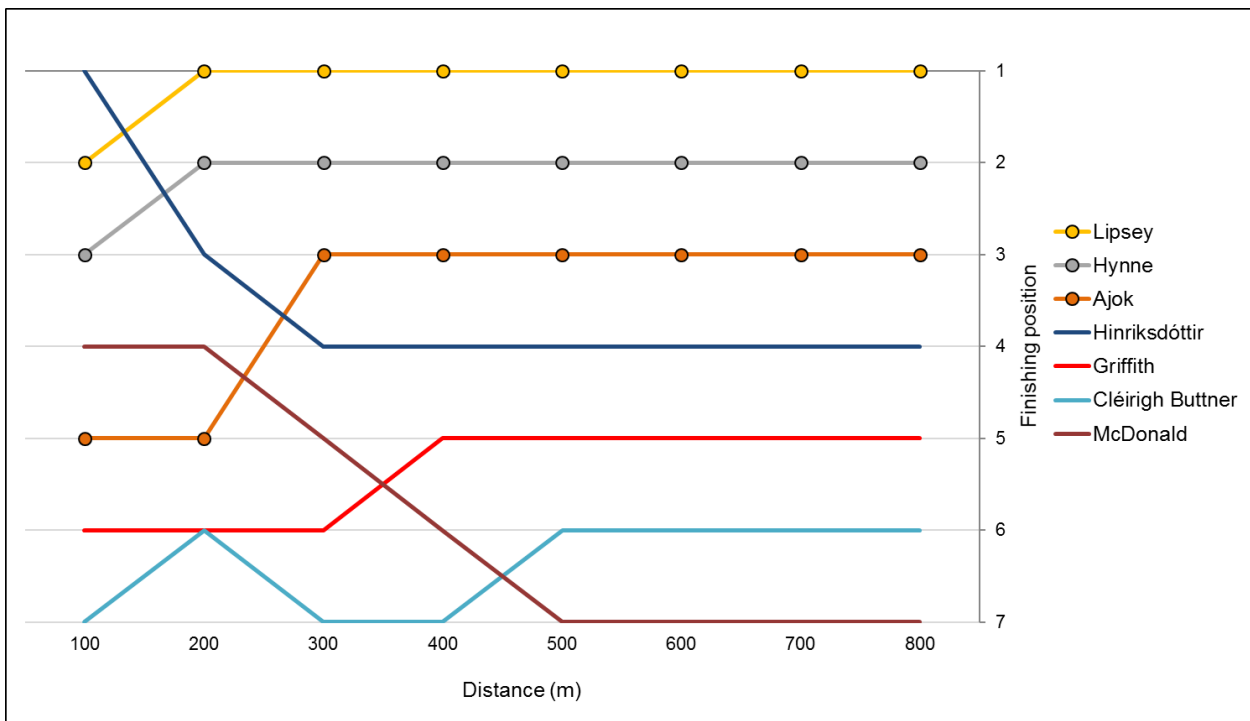


Figure 10. The position of each athlete after each 100 m segment in Heat 5.

4350	Lipsey, Charlene (USA) Q	Posn. 1
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.95	28.14	44.16	1:00.41	1:16.64	1:32.36	1:47.60	2:02.74
100m	13.95	14.19	16.02	16.25	16.23	15.72	15.24	15.14
400m				1:00.41				1:02.33

4154	Hynne, Hedda (NOR) Q	Posn. 2
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.09	28.28	44.36	1:00.62	1:16.88	1:32.56	1:47.85	2:02.85
100m	14.09	14.19	16.08	16.26	16.26	15.68	15.29	15.00
400m				1:00.62				1:02.23

4275	Ajok, Docus (UGA) Q	Posn. 3
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.19	28.42	44.42	1:00.69	1:16.93	1:32.61	1:47.99	2:02.98
100m	14.19	14.23	16.00	16.27	16.24	15.68	15.38	14.99
400m				1:00.69				1:02.29

4002	Hinriksdóttir, Aníta (ISL)	Posn. 4
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.53	28.33	44.48	1:00.86	1:17.08	1:32.79	1:48.06	2:03.45
100m	13.53	14.80	16.15	16.38	16.22	15.71	15.27	15.39
400m				1:00.86				1:02.59

3620	Griffith, Georgia (AUS)	Posn. 5
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.21	28.55	44.64	1:00.91	1:17.13	1:32.84	1:48.29	2:03.45
100m	14.21	14.34	16.09	16.27	16.22	15.71	15.45	15.25
400m				1:00.91				1:02.63

4000	Cléirigh Buttner, Siofra (IRL)	Posn. 6
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.24	28.55	44.78	1:01.04	1:17.25	1:33.05	1:49.06	2:06.54
100m	14.24	14.31	16.23	16.26	16.21	15.80	16.01	17.48
400m				1:01.04				1:05.50

4035	McDonald, Kimarra (JAM)	Posn. 7
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.16	28.41	44.56	1:00.99	1:17.40	1:33.82	1:50.87	2:09.19
100m	14.16	14.25	16.15	16.43	16.41	16.42	17.05	18.32
400m				1:00.99				1:08.20

Heat 6

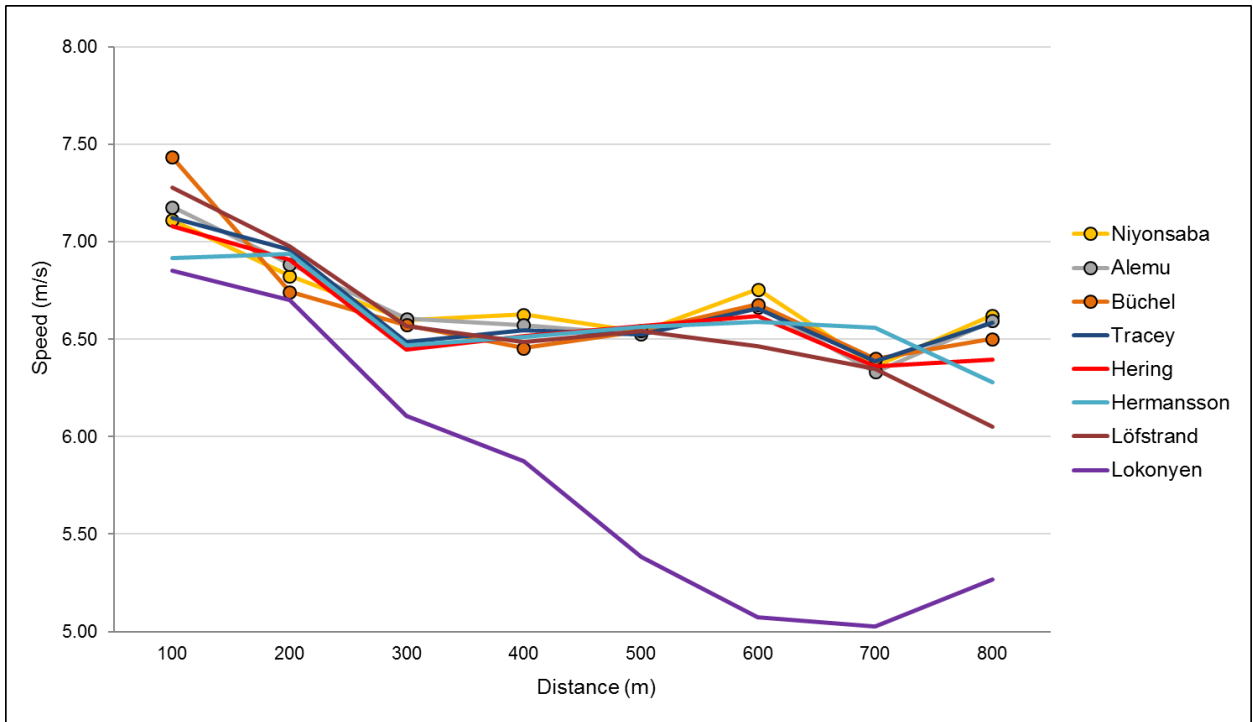


Figure 11. The mean speeds for each 100 m segment for each athlete in Heat 6.

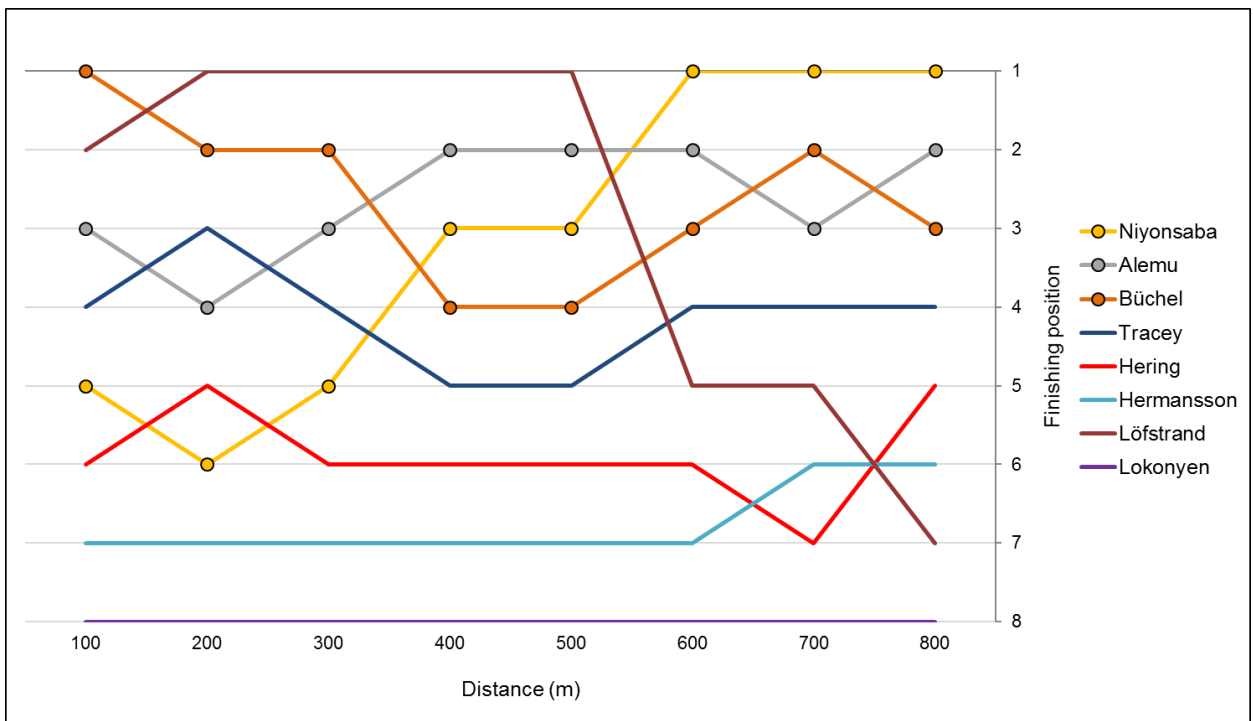


Figure 12. The position of each athlete after each 100 m segment in Heat 6.

3660	Niyonsaba, Francine (BDI) Q	Posn. 1
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.06	28.71	43.86	58.95	1:14.24	1:29.04	1:44.76	1:59.86
100m	14.06	14.65	15.15	15.09	15.29	14.80	15.72	15.10
400m				58.95				1:00.91

3837	Alemu, Habtam (ETH) Q	Posn. 2
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.93	28.45	43.59	58.80	1:14.12	1:29.12	1:44.91	2:00.07
100m	13.93	14.52	15.14	15.21	15.32	15.00	15.79	15.16
400m				58.80				1:01.27

4227	Büchel, Selina (SUI) Q	Posn. 3
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.45	28.28	43.49	58.98	1:14.26	1:29.23	1:44.85	2:00.23
100m	13.45	14.83	15.21	15.49	15.28	14.97	15.62	15.38
400m				58.98				1:01.25

3914	Tracey, Adelle (GBR) q PB	Posn. 4
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.04	28.41	43.83	59.10	1:14.42	1:29.44	1:45.10	2:00.28
100m	14.04	14.37	15.42	15.27	15.32	15.02	15.66	15.18
400m				59.10				1:01.18

3932	Hering, Christina (GER) q	Posn. 5
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.12	28.59	44.10	59.45	1:14.67	1:29.78	1:45.50	2:01.13
100m	14.12	14.47	15.51	15.35	15.22	15.11	15.72	15.63
400m				59.45				1:01.68

4245	Hermansson, Hanna (SWE) q	Posn. 6
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.46	28.87	44.33	59.69	1:14.92	1:30.09	1:45.33	2:01.25
100m	14.46	14.41	15.46	15.36	15.23	15.17	15.24	15.92
400m				59.69				1:01.56

4205	Löfstrand, Gena (RSA) q	Posn. 7
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.74	28.07	43.29	58.71	1:13.99	1:29.46	1:45.21	2:01.73
100m	13.74	14.33	15.22	15.42	15.28	15.47	15.75	16.52
400m				58.71				1:03.02

3613	Lokonyen, Rose Nathike (ART) SB	Posn. 8
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.59	29.51	45.88	1:02.90	1:21.48	1:41.19	2:01.08	2:20.06
100m	14.59	14.92	16.37	17.02	18.58	19.71	19.89	18.98
400m				1:02.90				1:17.16

Semi-final 1

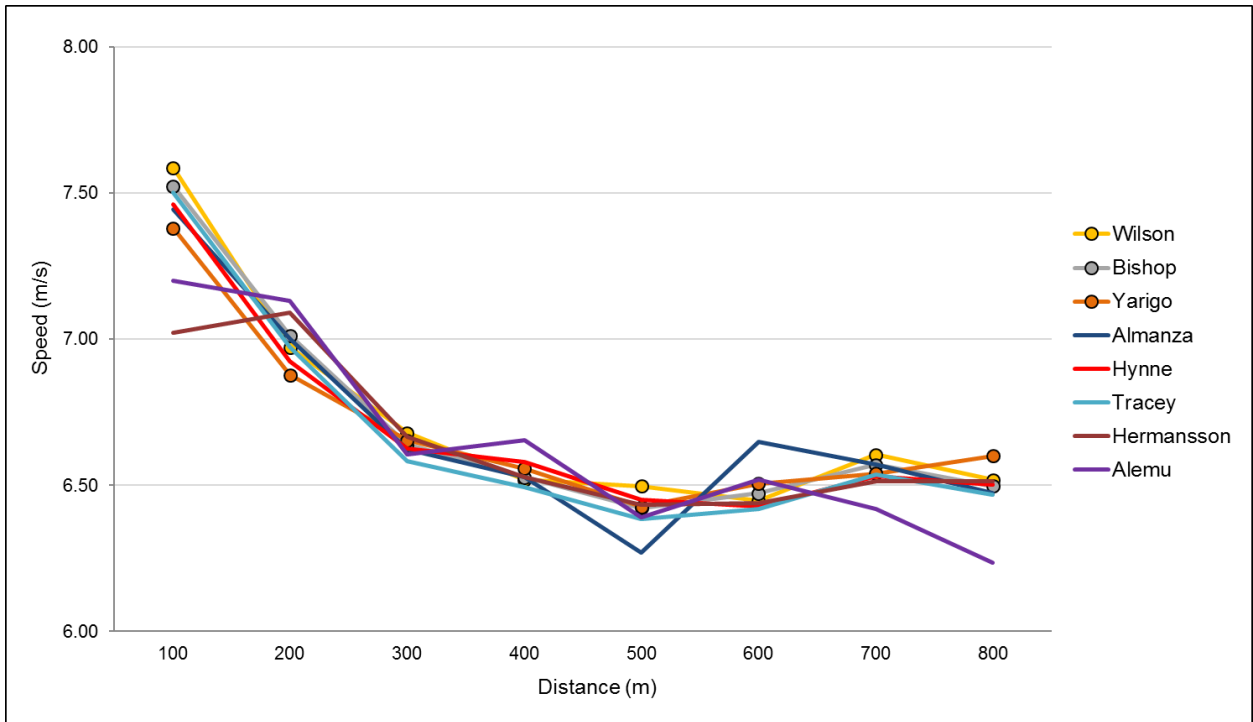


Figure 13. The mean speeds for each 100 m segment for each athlete in Semi-final 1.

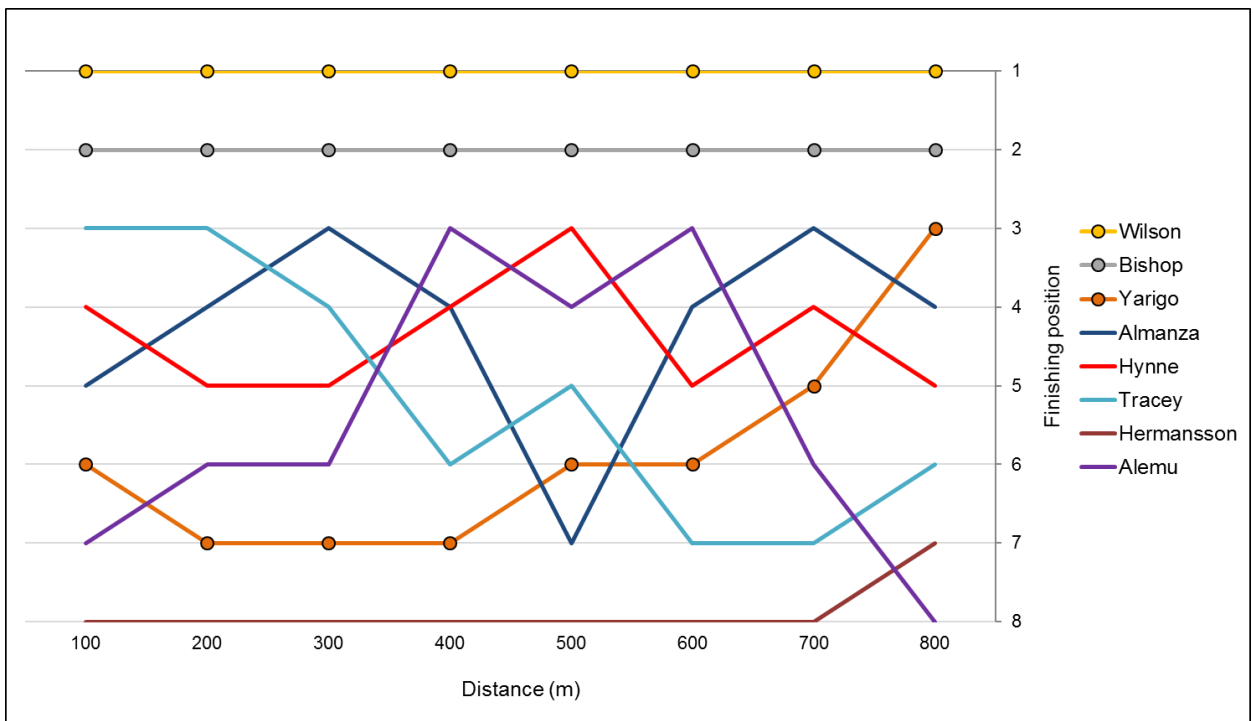


Figure 14. The position of each athlete after each 100 m segment in Semi-final 1.

4380	Wilson, Ajee (USA) Q	Posn. 1
	100m 200m 300m 400m 500m 600m 700m 800m	
Race Time	13.18 27.52 42.49 57.83 1:13.22 1:28.73 1:43.87 1:59.21	
100m	13.18 14.34 14.97 15.34 15.39 15.51 15.14 15.34	
400m		57.83 1:01.38
3719	Bishop, Melissa (CAN) Q	Posn. 2
	100m 200m 300m 400m 500m 600m 700m 800m	
Race Time	13.29 27.55 42.61 57.93 1:13.50 1:28.95 1:44.17 1:59.56	
100m	13.29 14.26 15.06 15.32 15.57 15.45 15.22 15.39	
400m		57.93 1:01.63
3667	Yarigo, Noélie (BEN) SB	Posn. 3
	100m 200m 300m 400m 500m 600m 700m 800m	
Race Time	13.55 28.09 43.12 58.37 1:13.93 1:29.30 1:44.59 1:59.74	
100m	13.55 14.54 15.03 15.25 15.56 15.37 15.29 15.15	
400m		58.37 1:01.37
3784	Almanza, Rose Mary (CUB)	Posn. 4
	100m 200m 300m 400m 500m 600m 700m 800m	
Race Time	13.43 27.71 42.81 58.13 1:14.08 1:29.12 1:44.34 1:59.79	
100m	13.43 14.28 15.10 15.32 15.95 15.04 15.22 15.45	
400m		58.13 1:01.66
4154	Hynne, Hedda (NOR)	Posn. 5
	100m 200m 300m 400m 500m 600m 700m 800m	
Race Time	13.40 27.84 42.93 58.13 1:13.63 1:29.19 1:44.50 1:59.88	
100m	13.40 14.44 15.09 15.20 15.50 15.56 15.31 15.38	
400m		58.13 1:01.75
3914	Tracey, Adelle (GBR) PB	Posn. 6
	100m 200m 300m 400m 500m 600m 700m 800m	
Race Time	13.33 27.67 42.86 58.26 1:13.92 1:29.50 1:44.80 2:00.26	
100m	13.33 14.34 15.19 15.40 15.66 15.58 15.30 15.46	
400m		58.26 1:02.00
4245	Hermansson, Hanna (SWE) PB	Posn. 7
	100m 200m 300m 400m 500m 600m 700m 800m	
Race Time	14.24 28.34 43.34 58.66 1:14.20 1:29.73 1:45.08 2:00.43	
100m	14.24 14.10 15.00 15.32 15.54 15.53 15.35 15.35	
400m		58.66 1:01.77
3837	Alemu, Habitam (ETH)	Posn. 8
	100m 200m 300m 400m 500m 600m 700m 800m	
Race Time	13.89 27.91 43.05 58.08 1:13.73 1:29.07 1:44.65 2:00.69	
100m	13.89 14.02 15.14 15.03 15.65 15.34 15.58 16.04	
400m		58.08 1:02.61

Semi-final 2

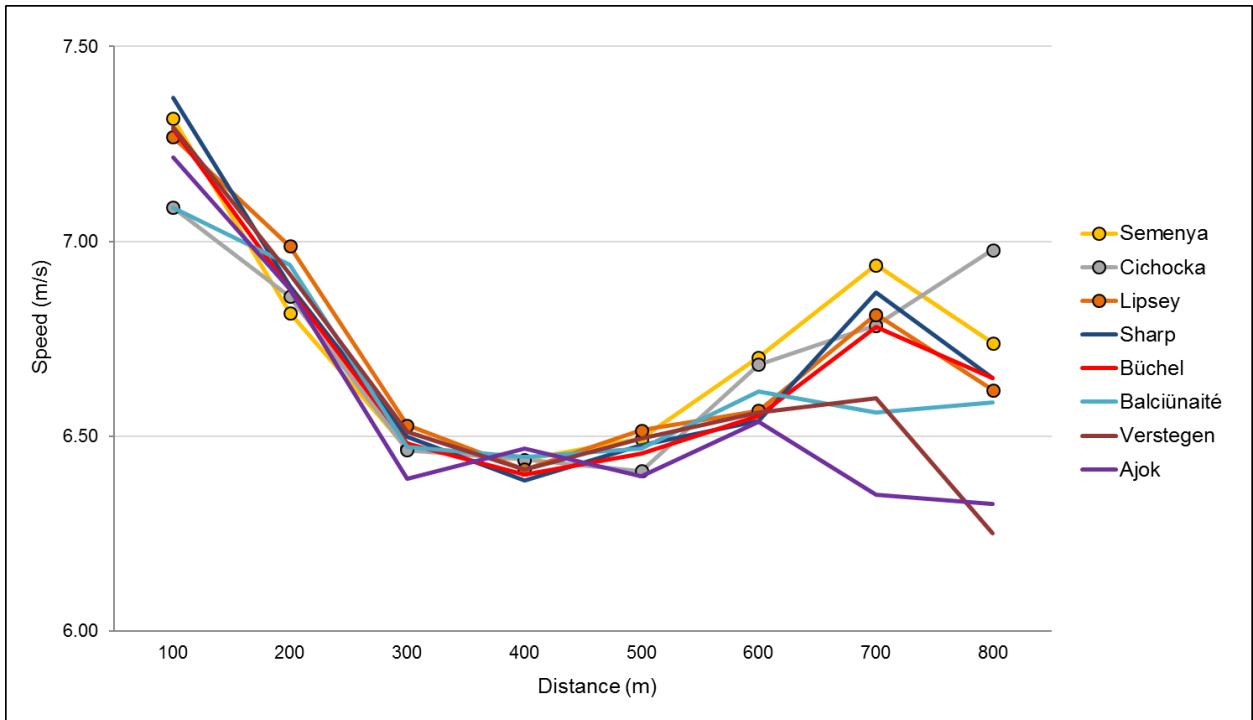


Figure 15. The mean speeds for each 100 m segment for each athlete in Semi-final 2.

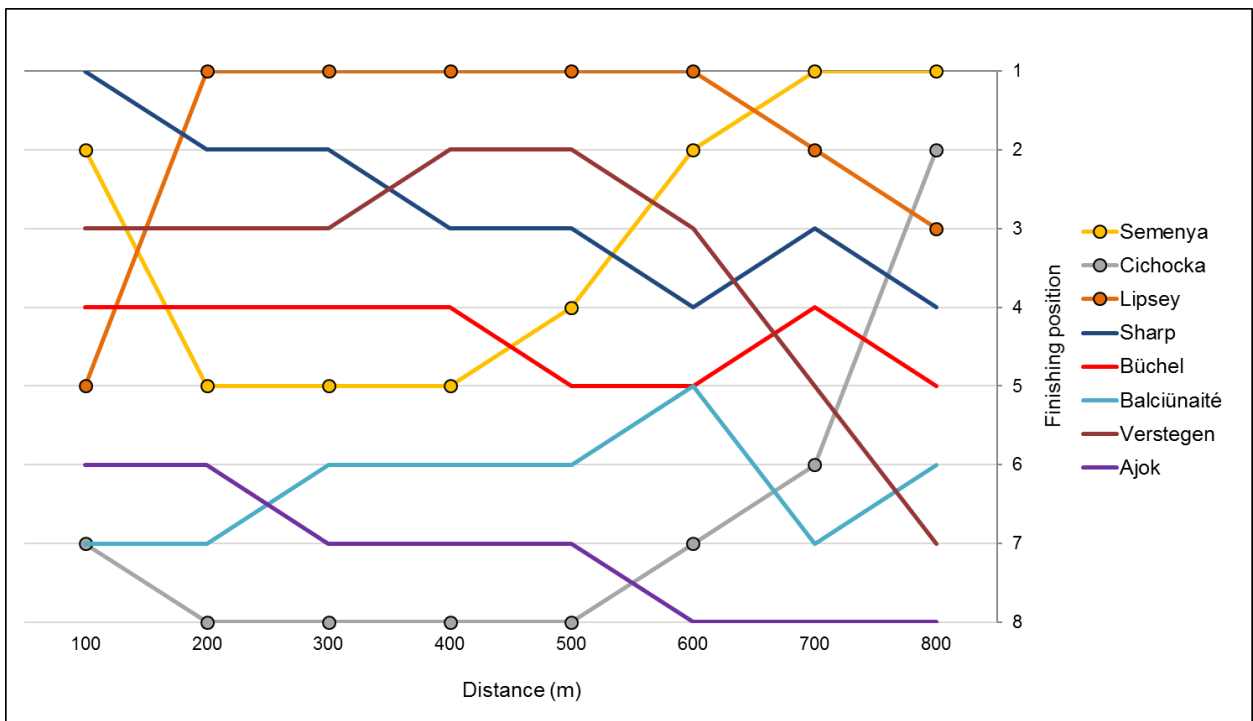


Figure 16. The position of each athlete after each 100 m segment in Semi-final 2.

4209	Semenya, Caster (RSA) Q	Posn. 1
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.67	28.34	43.80	59.33	1:14.73	1:29.65	1:44.06	1:58.90
100m	13.67	14.67	15.46	15.53	15.40	14.92	14.41	14.84
400m				59.33				59.57

4166	Cichocka, Angelika (POL) Q SB	Posn. 2
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.11	28.69	44.16	59.69	1:15.29	1:30.25	1:44.99	1:59.32
100m	14.11	14.58	15.47	15.53	15.60	14.96	14.74	14.33
400m				59.69				59.63

4350	Lipsey, Charlene (USA) q	Posn. 3
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.76	28.07	43.39	58.98	1:14.33	1:29.56	1:44.24	1:59.35
100m	13.76	14.31	15.32	15.59	15.35	15.23	14.68	15.11
400m				58.98				1:00.37

3911	Sharp, Lynsey (GBR) q	Posn. 4
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.57	28.09	43.48	59.14	1:14.58	1:29.87	1:44.43	1:59.47
100m	13.57	14.52	15.39	15.66	15.44	15.29	14.56	15.04
400m				59.14				1:00.33

4227	Büchel, Selina (SUI)	Posn. 5
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.72	28.26	43.69	59.31	1:14.80	1:30.06	1:44.81	1:59.85
100m	13.72	14.54	15.43	15.62	15.49	15.26	14.75	15.04
400m				59.31				1:00.54

4100	Balciūnaitė, Egle (LTU) SB	Posn. 6
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.11	28.52	43.97	59.48	1:14.94	1:30.06	1:45.30	2:00.48
100m	14.11	14.41	15.45	15.51	15.46	15.12	15.24	15.18
400m				59.48				1:01.00

4135	Verstegen, Sanne (NED)	Posn. 7
------	------------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.71	28.17	43.53	59.12	1:14.52	1:29.76	1:44.92	2:00.92
100m	13.71	14.46	15.36	15.59	15.40	15.24	15.16	16.00
400m				59.12				1:01.80

4275	Ajok, Docus (UGA)	Posn. 8
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.86	28.40	44.05	59.51	1:15.14	1:30.44	1:46.19	2:02.00
100m	13.86	14.54	15.65	15.46	15.63	15.30	15.75	15.81
400m				59.51				1:02.49

Semi-final 3

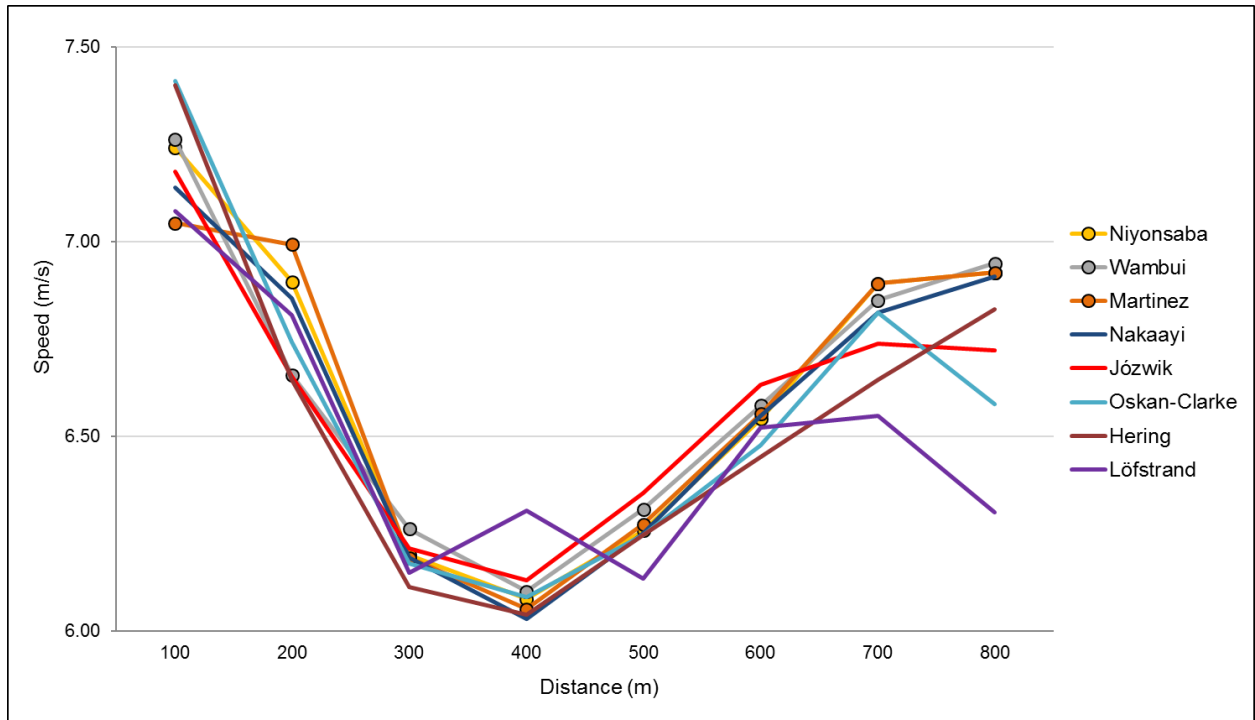


Figure 17. The mean speeds for each 100 m segment for each athlete in Semi-final 3.

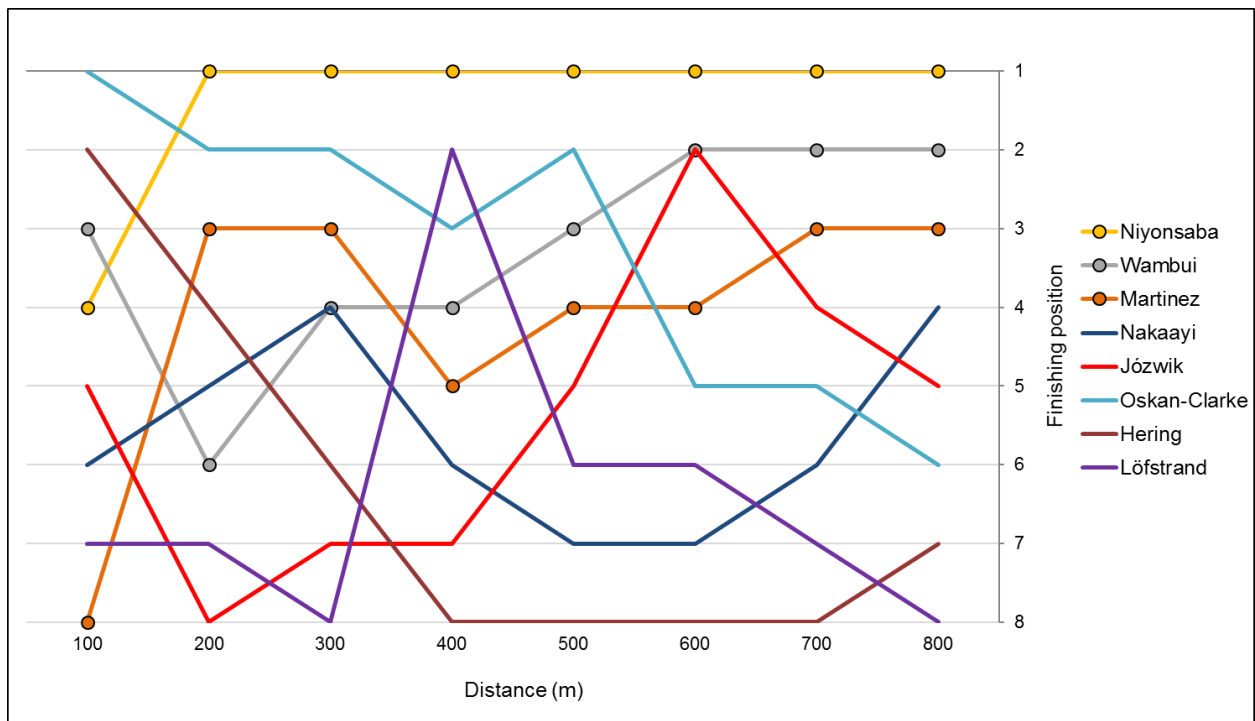


Figure 18. The position of each athlete after each 100 m segment in Semi-final 3.

3660	Niyonsaba, Francine (BDI) Q	Posn. 1
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.81	28.31	44.45	1:00.89	1:16.87	1:32.15	1:46.66	2:01.11
100m	13.81	14.50	16.14	16.44	15.98	15.28	14.51	14.45
400m				1:00.89				1:00.22

4090	Wambui, Margaret Nyairera (KEN) Q	Posn. 2
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.77	28.79	44.76	1:01.15	1:16.99	1:32.19	1:46.79	2:01.19
100m	13.77	15.02	15.97	16.39	15.84	15.20	14.60	14.40
400m				1:01.15				1:00.04

4354	Martinez, Brenda (USA)	Posn. 3
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.19	28.49	44.65	1:01.16	1:17.10	1:32.35	1:46.86	2:01.31
100m	14.19	14.30	16.16	16.51	15.94	15.25	14.51	14.45
400m				1:01.16				1:00.15

4281	Nakaayi, Halima (UGA)	Posn. 4
------	-----------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.01	28.60	44.76	1:01.34	1:17.34	1:32.60	1:47.27	2:01.74
100m	14.01	14.59	16.16	16.58	16.00	15.26	14.67	14.47
400m				1:01.34				1:00.40

4174	Jóźwik, Joanna (POL)	Posn. 5
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.93	28.96	45.06	1:01.37	1:17.11	1:32.19	1:47.03	2:01.91
100m	13.93	15.03	16.10	16.31	15.74	15.08	14.84	14.88
400m				1:01.37				1:00.54

3904	Oskan-Clarke, Shelayna (GBR)	Posn. 6
------	------------------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.49	28.32	44.52	1:00.95	1:16.96	1:32.40	1:47.07	2:02.26
100m	13.49	14.83	16.20	16.43	16.01	15.44	14.67	15.19
400m				1:00.95				1:01.31

3932	Hering, Christina (GER)	Posn. 7
------	-------------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.51	28.56	44.92	1:01.47	1:17.48	1:32.99	1:48.04	2:02.69
100m	13.51	15.05	16.36	16.55	16.01	15.51	15.05	14.65
400m				1:01.47				1:01.22

4205	Löfstrand, Gena (RSA)	Posn. 8
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.13	28.81	45.07	1:00.92	1:17.22	1:32.55	1:47.81	2:03.67
100m	14.13	14.68	16.26	15.85	16.30	15.33	15.26	15.86
400m				1:00.92				1:02.75

Final

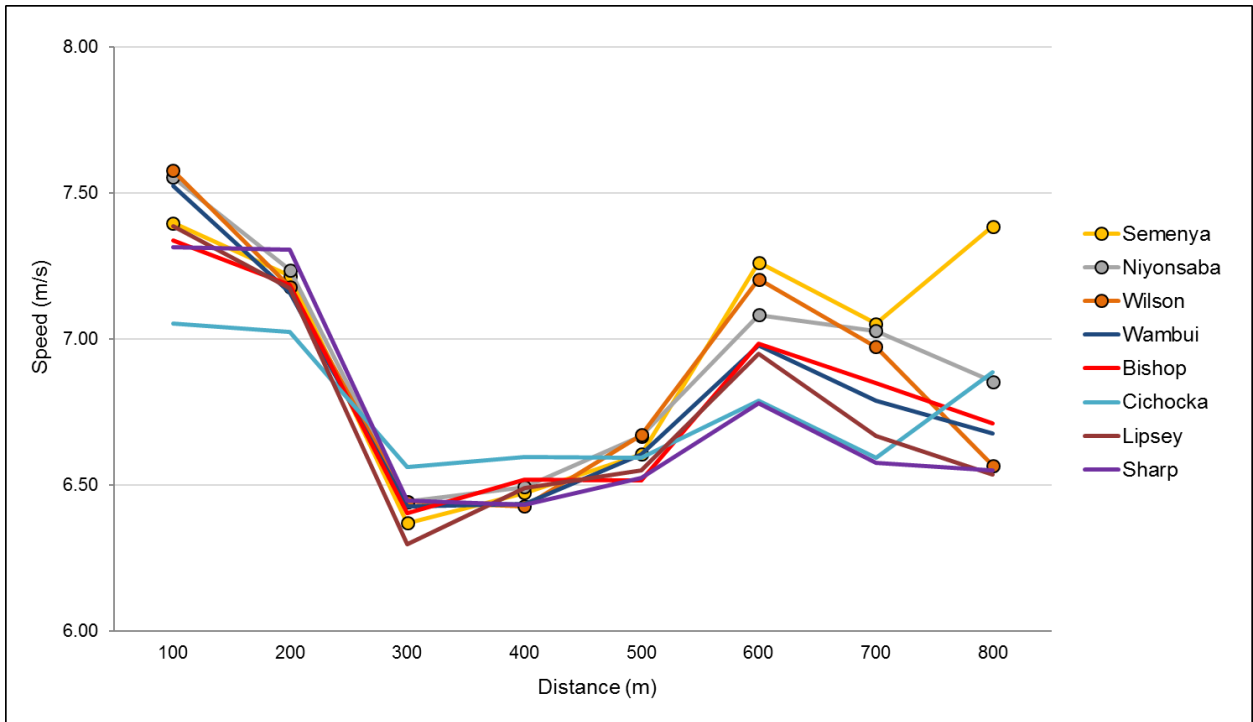


Figure 19. The mean speeds for each 100 m segment for each athlete in the Final.

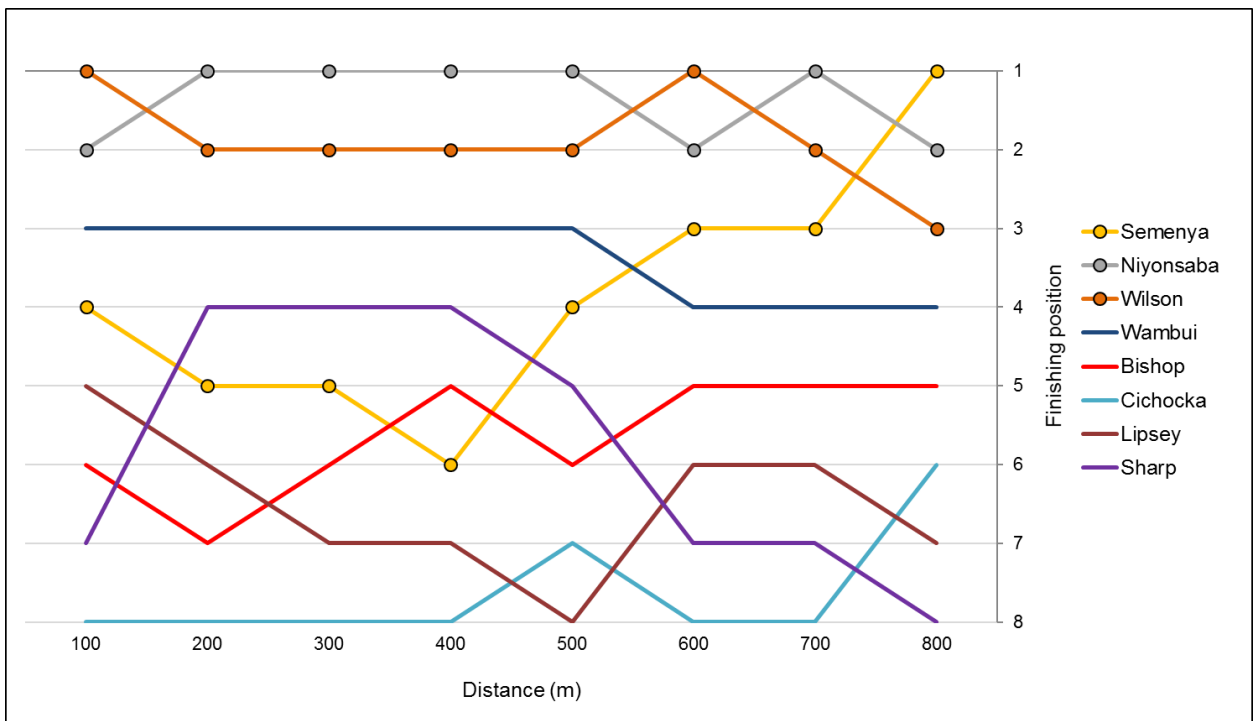


Figure 20. The position of each athlete after each 100 m segment in the Final.

4209	Semenya, Caster (RSA) WL	Posn. 1
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.52	27.38	43.08	58.53	1:13.67	1:27.44	1:41.62	1:55.16
100m	13.52	13.86	15.70	15.45	15.14	13.77	14.18	13.54
400m				58.53				56.63

3660	Niyonsaba, Francine (BDI)	Posn. 2
------	---------------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.24	27.06	42.58	57.98	1:12.98	1:27.10	1:41.33	1:55.92
100m	13.24	13.82	15.52	15.40	15.00	14.12	14.23	14.59
400m				57.98				57.94

4380	Wilson, Ajee (USA)	Posn. 3
------	--------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.20	27.13	42.65	58.21	1:13.20	1:27.08	1:41.42	1:56.65
100m	13.20	13.93	15.52	15.56	14.99	13.88	14.34	15.23
400m				58.21				58.44

4090	Wambui, Margaret Nyairera (KEN)	Posn. 4
------	---------------------------------	---------

	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.29	27.26	42.82	58.36	1:13.50	1:27.83	1:42.56	1:57.54
100m	13.29	13.97	15.56	15.54	15.14	14.33	14.73	14.98
400m				58.36				59.18

3719	Bishop, Melissa (CAN)	Posn. 5
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.63	27.55	43.17	58.51	1:13.86	1:28.18	1:42.78	1:57.68
100m	13.63	13.92	15.62	15.34	15.35	14.32	14.60	14.90
400m				58.51				59.17

4166	Cichocka, Angelika (POL) PB	Posn. 6
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	14.18	28.42	43.66	58.82	1:13.99	1:28.72	1:43.89	1:58.41
100m	14.18	14.24	15.24	15.16	15.17	14.73	15.17	14.52
400m				58.82				59.59

4350	Lipsey, Charlene (USA)	Posn. 7
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.54	27.48	43.36	58.77	1:14.04	1:28.43	1:43.43	1:58.73
100m	13.54	13.94	15.88	15.41	15.27	14.39	15.00	15.30
400m				58.77				59.96

3911	Sharp, Lynsey (GBR)	Posn. 8
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	100m	200m	300m	400m	500m	600m	700m	800m
Race Time	13.67	27.36	42.87	58.42	1:13.75	1:28.50	1:43.71	1:58.98
100m	13.67	13.69	15.51	15.55	15.33	14.75	15.21	15.27
400m				58.42				1:00.56

COACH'S COMMENTARY

The 800 m event is one of the most tactically challenging track event in athletics as it is not run in lanes, yet still run at speeds well above critical speed (~120 to 140% of speed of VO_2 max. or 80 to 85% of maximum sprint speed (MSS)¹). In other words, there is very little room for tactical errors since they come at a very high metabolic cost given everyone is running so close to maximum speeds. Depending on the individual athlete's fibre type, and the overall time for the race (e.g., 1:45 for men is metabolically different from 2:00 for women), the 800 m is truly at the cross-roads of metabolism, with energy source production being between 50 and 70% aerobic², with the rest of energy coming from glycolytic and stored phosphogen sources (anaerobic metabolism)^{3,4}. The ~15 s longer 800 m race time for women pushes their event to be more aerobic² and more similar to the energy system requirements of the 1500 m, which is probably one of the main reasons why more women attempt the 800 m and 1500 m double⁵ (e.g., both Caster Semenya and Angelika Cichocka made the finals in the 800 m and 1500 m events), whereas more men become event specific specialists.

It is obvious Aje Wilson (USA) tactically enjoys leading as she has led nearly every race all season. The final was no different, as she led through the initial 200 m in a split of 27.13 s. These fast first 200 m splits in 800 m racing certainly have implications for both those wanting to run 1:55, as well as those who want to win a medal – as the tactical position at this point was critical for making the top-4 (other than Semenya), which indicates that for the majority of the field there wasn't time later in the race to make up the ground. The pace slowed a bit after 200 m, as Wilson and Francine Niyonsaba then co-led through 400 m in ~58 s flat. The race then exploded over the last 300 m, as Semenya clocked a 41.49 s for the last 300 m (1:50 800 m pace!) and dominated for the win in a new PB and WL time of 1:55.16 (8th fastest 800 m ever run!). Some of the strongest incoming odds for a winner in the entire 2017 IAAF World Championships were Semenya at 82% to win, and she did not disappoint.

There are several elements of this race to unpack that truly give indications that the women's 800 m WR of 1:53.28, all the way back from 1983, will be under serious threat by Semenya. First, with a 400 m PB of 50.40 and 1500 m PB of 4:01.99, there is little doubt that Semenya would have both the speed and endurance (or anaerobic speed reserve (ASR)^{6,7}, see details in men's 1500 m write up on ASR) for an assault on the 800 m record. Second, in this 800 m event, Semenya did a lot of running well off the rail (including almost completely in lane 2 for the 3rd corner (400 to 500 m); calculations indicate she ran an extra 6 to 8 m, which would indicate a time of 1:54.2 to 1:54.5 if she just ran on the rail (similar to her tactics in the 1500 m). Finally, Semenya achieved a negative split in this race with a first 400 m of 58.53 s and the second 400 m in 56.63 s (–1.90 s), which is the exact opposite approach of modern 800 m world-record pacing tactics that almost always dictate that a positive, to more even, split would be advantageous for record setting^{8–10}.

Unlike the men's 800 m, the women's 800 m event went almost perfectly to the incoming rankings, as athletes ranked 1, 2 and 3 in the world ended up gold, silver and bronze (Semenya, Niyonsaba and Wilson, respectively). The global depth in the women's 800 m event right now is impressive, as all eight finalists broke 1:59.

Acknowledgements

I would like to thank Prof. Andrew Jones (University of Exeter) and PhD candidate Gareth Sandford (Auckland University of Technology) for their editing and constructive feedback on this analysis.

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