

This document provides in clear all the information that was used during the F1 Strategy Competition with the exception of race strategy.

The expected results are run using a simple code that simulates theoretical seasons. This codes is comprised of two modules. The first of these modules is the same as the one used during the (livestreamed) driver signing phase. It is optional and allocates the available drivers to the competing teams based on their marketing investments and using the same probability law. The second module takes the team lineups (reliability, chassis, engine, driver 1 and driver 2) and ranks the drivers on each circuit as a function of their performance level, taking into account circuit-specific bonuses. The module then applies a DNF filter to the ranking with probability in line with the team reliability investment and attributes points to the remaining drivers in their ranking order. The point attribution and the race characteristics are as specified in the championship rules.

For Section 1, the code is run with a loop around both of these modules to average results over 10^6 seasons. For Section 2, the code is run in the same way except that the driver signing module is deactivated and the lineup is set to the one determined by the driver signing event for each simulated season.

Expected points scored are accurate to the tenth of point, while nor formal accuracy study has been performed for the ranking probabilities. These probabilities should, however, reflect the performance of the teams with an error inferior to one percent.

1 Financial phase

1.1 Drivers

- Alfredo Alcarria (SPA) 5.0
- Joris Gootjes (NED) 4.8
- David Wilkinson (GBR) 4.4
- Michel Fabron (FRA) 4.2
- Allan Johnson (GBR) 4.0
- Ricardo Raul (BRA) 3.9
- Philipp Krafft (GER) 3.7
- Luigi Disanti (ITA) 3.5
- Mark Winkelmann (GER) 3.4
- Pavel Ondra (CZE) 3.2
- Udo Krallinger (GER) 2.9
- Janne Nurmeala (FIN) 2.7
- Cyprien Monnereau (FRA) 2.6
- Simao Faria (POR) 2.2
- Felix Wollen (GER) 2.0
- Carlos Arizaga (ARG) 1.8
- Esteban Campos (MEX) 1.6
- Aaron Kilpatrick (IRL) 1.5
- Alexander Koltsov (RUS) 1.4
- Fabrizio Panduri (ITA) 1.1
- Jiang Lin (CHI) 0.9
- Clayton Swift (USA) 0.7
- Germain Grisel (FRA) 0.6
- Alfonso Llave (SPA) 0.4
- Mitesh Agrawal (IND) 0.0
- Darren Tremblay (CAN) 0.0

1.2 Teams

Team	Name	Affiliation	Mark.	Rel.	Cha.	Eng.
Alfie Romeo	Alfie Probert	Leeds	2.0	1.1	1.9	3.0
And ANOVA One	James Murkin	Leeds	2.8	1.0	0.5	3.7
BigDents Racing	Andrew Gillott	Nottingham Trent	0.3	1.2	0.3	6.2
BURP	Cédric Beaume	Leeds	0.2	0.9	0.0	6.9
Chris' Racers	Christian Bryant	Leeds	0.0	2.2	2.3	2.3
Earnest Racing	William James	Leeds	0.1	1.3	0.0	6.6
forkBOMB	Ati Sharma	Southampton	0.8	1.4	0.0	5.8
Saunders Racing	Oliver Saunders	Leeds	1.1	0.8	3.0	3.1
Sbinalla Racing	Adam Brooke-Jones	Leeds	0.5	1.3	3.0	3.0
Shakamotosport	Max Champneys <i>et al.</i>	Sheffield	0.4	1.3	0.0	6.3
Trent Racing	Toby Green	Nottingham Trent	2.8	1.2	2.0	2.0
YF1 Racers	Yamin Faruki	Leeds	1.5	1.3	2.7	2.5
Zaporozhets	Anton Pershin	Oxford	2.4	1.2	3.8	0.6

Table 1: Table of the teams registered and their investment strategies.

1.3 Expected results

	Alfie Romeo (Leeds)	And ANOVA One (Leeds)	BigDents Racing (Nott. Trent)	BURP (Leeds)	Chris' Racers (Leeds)	Earnest Racing (Leeds)	forkBOMB (Southampton)	Saunders Racing (Leeds)	Sbinalla Racing (Leeds)	Shakamotosport (Sheffield)	Trent Racing (Nott. Trent)	YF1 Racers (Leeds)	Zaporozhets (Oxford)
Points	152	129	83	92	0	41	133	151	63	99	130	153	174
1 st	18.7%	8.4%	0.7%	0.1%	0.0%	0.0%	6.9%	10.2%	0.8%	1.6%	9.7%	15.8%	26.9%
2 nd	12.5%	12.0%	1.5%	0.6%	0.0%	0.0%	8.3%	19.2%	1.2%	3.2%	12.7%	10.9%	17.6%
3 rd	10.5%	12.4%	2.3%	1.7%	0.0%	0.0%	9.4%	18.0%	1.4%	4.2%	13.0%	11.9%	15.1%
4 th	10.0%	10.5%	3.3%	3.5%	0.0%	0.1%	13.7%	14.1%	1.8%	5.6%	10.4%	15.1%	11.9%
5 th	10.8%	9.2%	4.2%	6.4%	0.0%	0.1%	16.7%	11.7%	2.4%	7.4%	8.0%	13.9%	9.1%
6 th	11.4%	9.1%	5.4%	10.8%	0.0%	0.2%	14.8%	9.7%	2.8%	9.8%	7.5%	11.2%	7.1%
7 th	10.5%	9.7%	7.9%	16.2%	0.0%	0.3%	9.7%	7.5%	3.1%	12.8%	8.1%	8.9%	5.2%
8 th	7.9%	9.8%	12.6%	20.7%	0.0%	0.3%	5.4%	4.8%	3.9%	16.1%	8.9%	6.0%	3.5%
9 th	4.6%	8.6%	19.8%	18.8%	0.0%	0.6%	4.6%	2.7%	8.6%	17.1%	8.8%	3.6%	2.1%
10 th	1.9%	5.4%	26.4%	12.4%	0.0%	5.2%	5.0%	1.3%	20.0%	13.5%	6.5%	1.7%	0.9%
11 th	0.9%	3.3%	12.3%	5.8%	0.0%	30.1%	3.7%	0.6%	29.8%	7.3%	4.6%	0.8%	0.4%
12 th	0.3%	1.6%	3.6%	2.9%	0.0%	62.5%	1.7%	0.1%	24.0%	1.2%	1.7%	0.2%	0.0%
13 th	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Table 2: Expected team results in terms of number of points and ranking probability at the end of the season.

2 Pre-season

2.1 Lineups

- Alfie Romeo (Leeds): Alfredo Alcarria (5.0)–Luigi Disanti (3.5)
- And ANOVA One (Leeds): David Wilkinson (4.4)–Philipp Krafft (3.7)
- BigDents Racing (Nott. Trent): Alexander Koltsov (1.4)–Fabrizio Panduri (1.1)
- BURP (Leeds): Jian Lin (0.9)–Clayton Swift (0.7)
- Chris’ Racers (Leeds): Mitesh Agrawal (0.0)–Darren Tremblay (0.0)
- Earnest Racing (Leeds): Germain Grisel (0.6)–Alfonso Llave (0.4)
- forkBOMB (Southampton): Simao Faria (2.2)–Felix Wollen (2.0)
- Saunders Racing (Leeds): Udo Krallinger (2.9)–Janne Nurmella (2.7)
- Sbinalla Racing (Leeds): Cyprien Monnereau (2.6)–Carlos Arizaga (1.8)
- Shakamosport (Sheffield): Esteban Campos (1.6)–Aaron Kilpatrick (1.5)
- Trent Racing (Nott. Trent): Allan Johnson (4.0)–Ricardo Raul (3.9)
- YF1 Racing (Leeds): Mark Winkelmann (3.4)–Pavel Ondra (3.2)
- Zaporozhets (Oxford): Jooris Gootjes (4.8)–Michel Fabron (4.2)

2.2 Expected results

Pos	Driver	Team	Points
1	Alfredo ALCARRIA	Alfie Romeo	168
2	Joris GOOTJES	Zaporozhets	145
3	Michel FABRON	Zaporozhets	90
4	Cyprien MONNEREAU	Sbinalla Racing	86
5	Mark WINKELMANN	YF1 Racing	82
6	Udo KRALLINGER	Saunders Racing	82
7	Janne NURMELLA	Saunders Racing	69
8	David WILKINSON	And ANOVA One	65
9	Esteban CAMPOS	Shakamosport	60
10	Pavel ONDRA	YF1 Racing	58
11	Simao FARIA	forkBOMB	57
12	Alexander KOLTISOV	BigDents Racing	52
13	Luigi DISANTI	Alfie Romeo	51
14	Jiang LIN	BURP	48
15	Allan JOHNSON	Trent Racing	47
16	Clayton SWIFT	BURP	39
17	Aaron KILPATRICK	Shakamosport	37
18	Ricardo RAUL	Trent Racing	31
19	Fabrizio PANDURI	BigDents Racing	27
20	Philipp KRAFFT	And ANOVA One	25
21	Germain GRISEL	Earnest Racing	24
22	Felix WOLLEN	forkBOMB	22
23	Carlos ARIZAGA	Sbinalla Racing	21
24	Alfonso LLAVE	Earnest Racing	16
25	Mitesh AGRAWAL	Chris’ Racers	0
—	Darren TREMBLAY	Chris’ Racers	0

Table 3: Expected driver results.

	Alfie Romeo (Leeds)	And ANOVA One (Leeds)	BigDents Racing (Nott. Trent)	BURP (Leeds)	Chris' Racers (Leeds)	Earnest Racing (Leeds)	forkBOMB (Southampton)	Saunders Racing (Leeds)	Sbinalla Racing (Leeds)	Shakamotosport (Sheffield)	Trent Racing (Nott. Trent)	YF1 Racers (Leeds)	Zaporozhets (Oxford)
Points	219	90	78	86	0	40	79	151	107	96	77	140	234
1 st	30.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	68.8%
2 nd	64.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%	0.0%	0.0%	0.0%	0.3%	30.3%
3 rd	4.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	57.8%	0.1%	0.0%	0.0%	36.2%	0.9%
4 th	0.3%	0.9%	0.0%	2.2%	0.0%	0.0%	0.0%	24.0%	8.7%	0.9%	0.0%	62.9%	0.0%
5 th	0.0%	0.9%	0.1%	16.4%	0.0%	0.0%	0.0%	4.7%	54.4%	14.8%	0.0%	0.5%	0.0%
6 th	0.0%	17.2%	1.6%	16.1%	0.0%	0.0%	0.5%	3.2%	27.4%	33.5%	0.4%	0.1%	0.0%
7 th	0.0%	29.3%	10.0%	13.3%	0.0%	0.0%	5.4%	1.7%	7.3%	28.2%	4.8%	0.0%	0.0%
8 th	0.0%	16.4%	20.1%	11.6%	0.0%	0.0%	17.3%	0.8%	1.6%	15.8%	16.0%	0.0%	0.0%
9 th	0.0%	8.6%	23.2%	6.4%	0.0%	0.0%	29.4%	0.5%	0.3%	3.4%	28.1%	0.0%	0.0%
10 th	0.0%	8.8%	21.8%	7.8%	0.0%	0.0%	29.3%	0.6%	0.2%	2.0%	29.6%	0.0%	0.0%
11 th	0.0%	9.7%	22.6%	21.9%	0.0%	4.5%	18.1%	0.7%	0.0%	1.4%	21.1%	0.0%	0.0%
12 th	0.0%	0.0%	0.1%	4.3%	0.0%	95.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13 th	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Table 4: Expected team results.

3 Results

Rk	Firstname	LASTNAME	NAT	Team	SPA	FRA	MON	BEL	ITA	HUN	USA	JPN	CAN	AUS	TOTAL
1	Joris	GOOTJES	NED	Zaporozhets	10	16	25	4	20 th	25	16 th	25	13	10	128
2	Michel	FABRON	FRA	Zaporozhets	25	25	20	16 th	21 st	20	18 th	16	16	3	125
3	Alfredo	ALCARRIA	SPA	Alfie Romeo	9	17 th	DNF	19 th	5	16	17 th	20	25	25	100
4	David	WILKINSON	GBR	And ANOVA One	8	13	16	1	7	9	DNF	8	11	7	80
5	Ricardo	RAUL	BRA	Trent Racing	20	9	10	18 th	16 th	13	3	11	1	11	78
6	Cyprien	MONNEREAU	FRA	Sbinalla Racing	13	2	6	20	8	5	4	10	9	16 th	77
7	Allan	JOHNSON	GBR	Trent Racing	16	10	13	2	1	11	6	9	20 th	9	77
8	Simao	FARIA	POR	forkBOMB	4	6	7	3	10	1	11	3	10	20	75
9	Alexander	KOLTISOV	RUS	BigDents Racing	1	11	3	13	20	6	9	16 th	8	19 th	71
10	Carlos	ARIZAGA	ARG	Sbinalla Racing	11	8	5	25	2	10	2	18 th	22 nd	18 th	63
11	Fabrizio	PANDURI	ITA	BigDents Racing	5	4	18 th	16	9	16 th	16	19 th	4	2	56
12	Felix	WOLLEN	GER	forkBOMB	17 th	3	4	6	16	20 th	8	2	7	8	54
13	Esteban	CAMPOS	MEX	Shakamotosport	6	20	19 th	10	DNF	17 th	13	21 st	21 st	4	53
14	Clayton	SWIFT	USA	BURP	DNF	DNF	20 th	DNF	25	DNF	25	20 th	2	DNF	52
15	Luigi	DISANTI	ITA	Alfie Romeo	3	20 th	8	8	24 th	7	5	17 th	20	21 st	51
16	Philipp	KRAFFT	GER	And ANOVA One	16 th	5	11	7	4	4	7	7	6	17 th	51
17	Aaron	KILPATRICK	IRL	Shakamotosport	7	7	17 th	5	3	18 th	20	1	18 th	6	49
18	Udo	KRALLINGER	GER	Saunders Racing	22 nd	16 th	2	11	18 th	8	DNF	13	DNF	DNF	34
19	Mark	WINKELMANN	GER	YF1 Racing	21 st	23 rd	9	22 nd	25 th	21 st	24 th	6	5	13	33
20	Jiang	LIN	CHI	BURP	18 th	DNF	1	DNF	11	3	10	DNF	16 th	5	30
21	Janne	NURMELA	FIN	Saunders Racing	DNF	DNF	DNF	DNF	17 th	DNF	19 th	5	3	16	24
22	Germain	GRISEL	FRA	Earnest Racing	19 th	22 nd	21 st	9	13	19 th	20 th	24 th	19 th	20 th	22
23	Pavel	ONDRA	CZE	YF1 Racing	2	21 st	16 th	23 rd	19 th	2	23 rd	4	17 th	1	9
24	Alfonso	LLAVE	SPA	Earnest Racing	20 th	1	22 nd	17 th	6	23 rd	1	23 rd	23 rd	22 nd	8
25	Mitesh	AGRAWAL	IND	Chris' Racers	24 th	18 th	23 rd	21 st	22 nd	24 th	22 nd	22 nd	24 th	23 rd	0
26	Darren	TREMBLAY	CAN	Chris' Racers	23 rd	19 th	24 th	20 th	23 rd	22 nd	21 st	25 th	25 th	24 th	0

Figure 1: Drivers championship final standings.

Rk	Team	University	SPA	FRA	MON	BEL	ITA	HUN	USA	JPN	CAN	AUS	TOTAL
1	Zaporozhets	Oxford	35	41	45	4	20 th	45	16 th	41	29	13	253
2	Trent Racing	NTU	36	19	23	2	1	24	9	20	1	20	155
3	Alfie Romeo	Leeds	12	17 th	8	8	5	23	5	20	45	25	151
4	Sbinalla Racing	Leeds	24	10	11	45	10	15	6	10	9	16 th	140
5	And ANOVA One	Leeds	8	18	27	8	11	13	7	15	17	7	131
6	forkBOMB	Southampton	4	9	11	9	26	1	19	5	17	28	129
7	BigDents Racing	NTU	6	15	3	29	29	6	25	16 th	12	2	127
8	Shakamotosport	Sheffield	13	27	17 th	15	3	17 th	33	1	18 th	10	102
9	BURP	Leeds	18 th	DNF	1	DNF	36	3	35	20 th	2	5	82
10	Saunders Racing	Leeds	22 nd	16 th	2	11	17 th	8	19 th	18	3	16	58
11	YF1 Racing	Leeds	2	21 st	9	22 nd	19 th	2	23 rd	10	5	14	42
12	Earnest Racing	Leeds	19 th	1	21 st	9	19	19 th	1	23 rd	19 th	20 th	30
13	Chris' Racers	Leeds	23 rd	18 th	23 rd	20 th	22 nd	22 nd	21 st	22 nd	24 th	23 rd	0

Figure 2: Team championship final standings.