



Co-Host:
Matt Romanowski
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Webinar Series

Bringing Data Support and Training to You

Track Event Prep & Planning

With AiM Sports Data and Video

2020 Webinar #56

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October 8th, 2020

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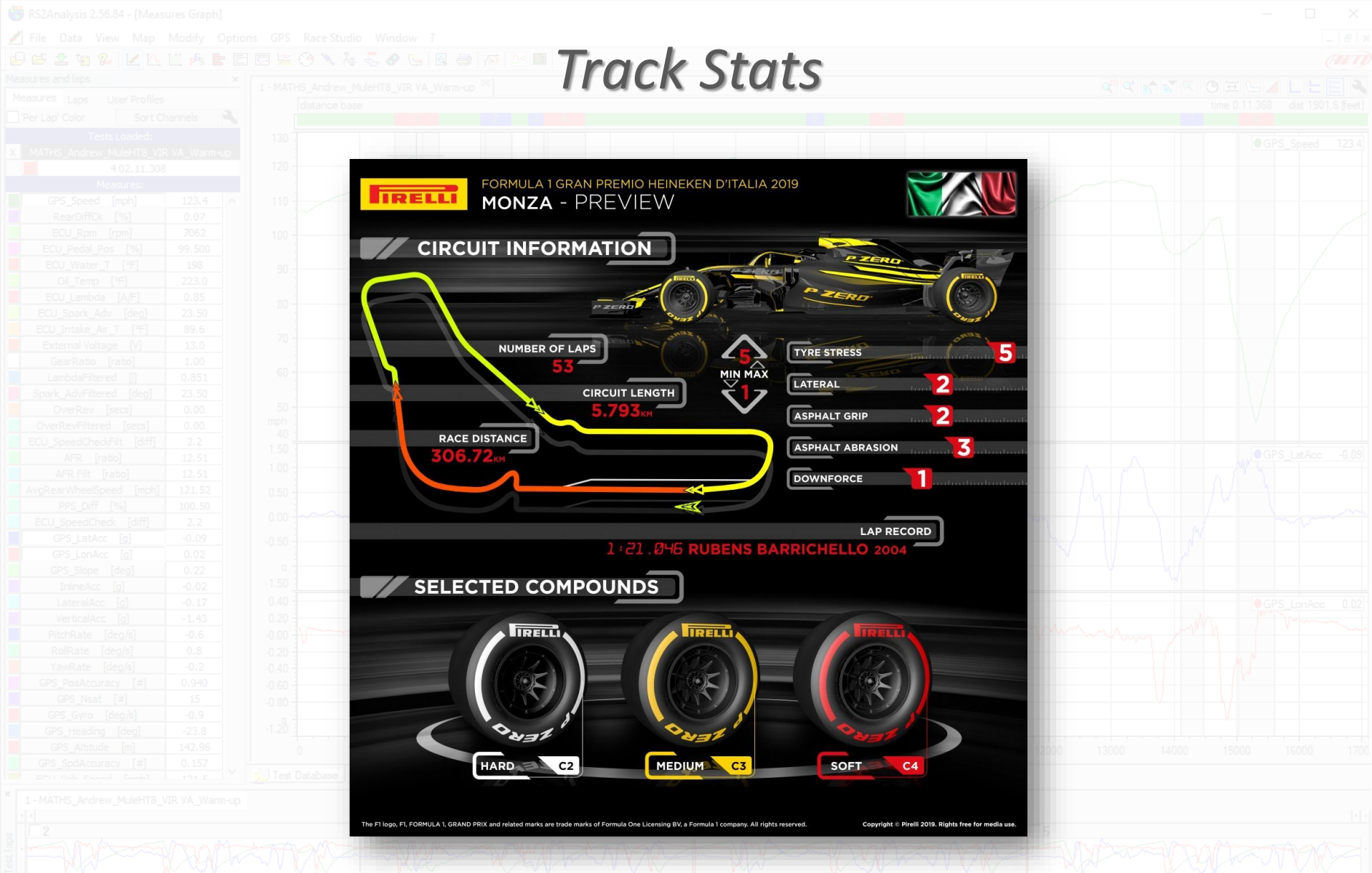


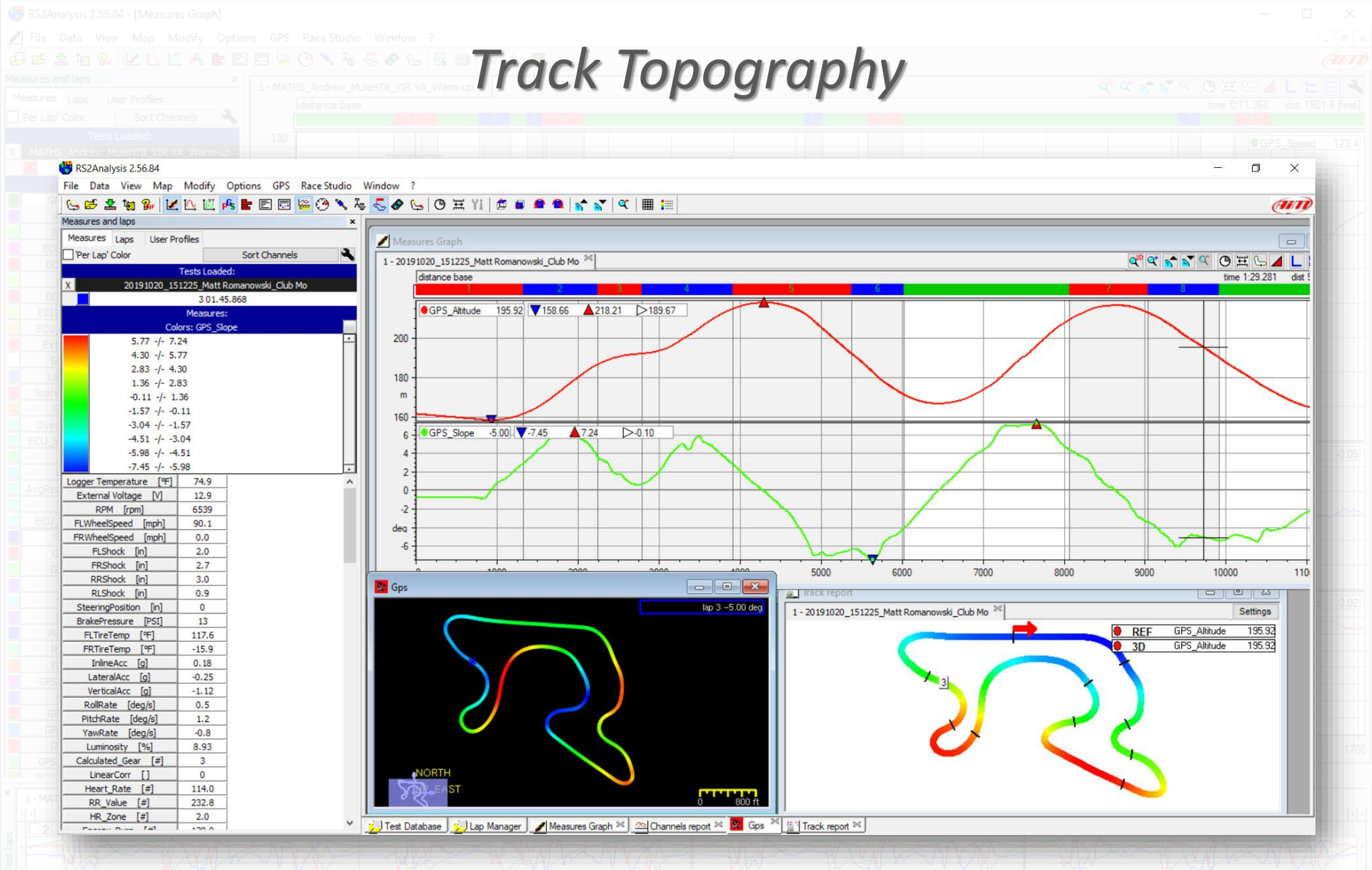
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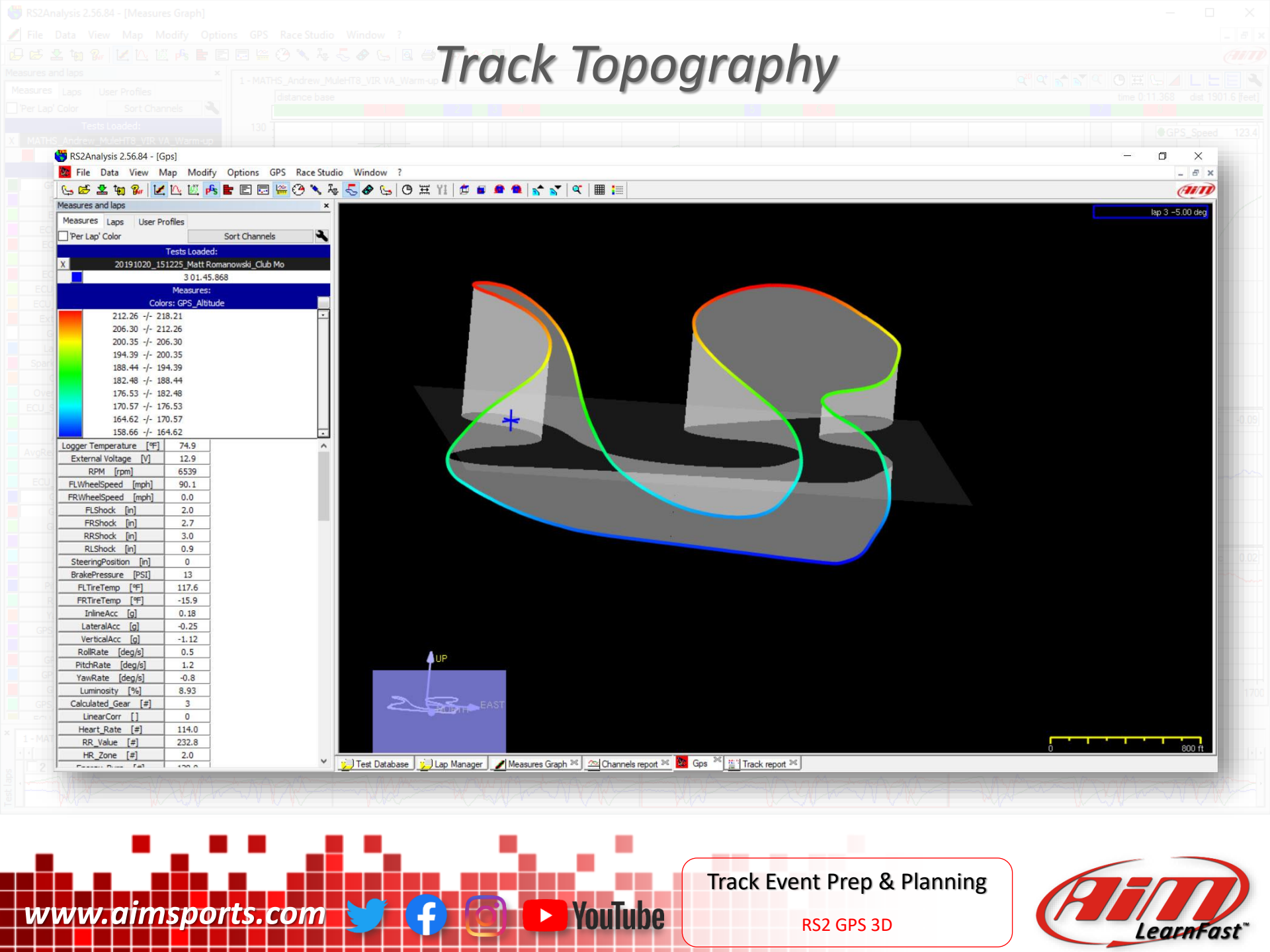
Matt Romanowski

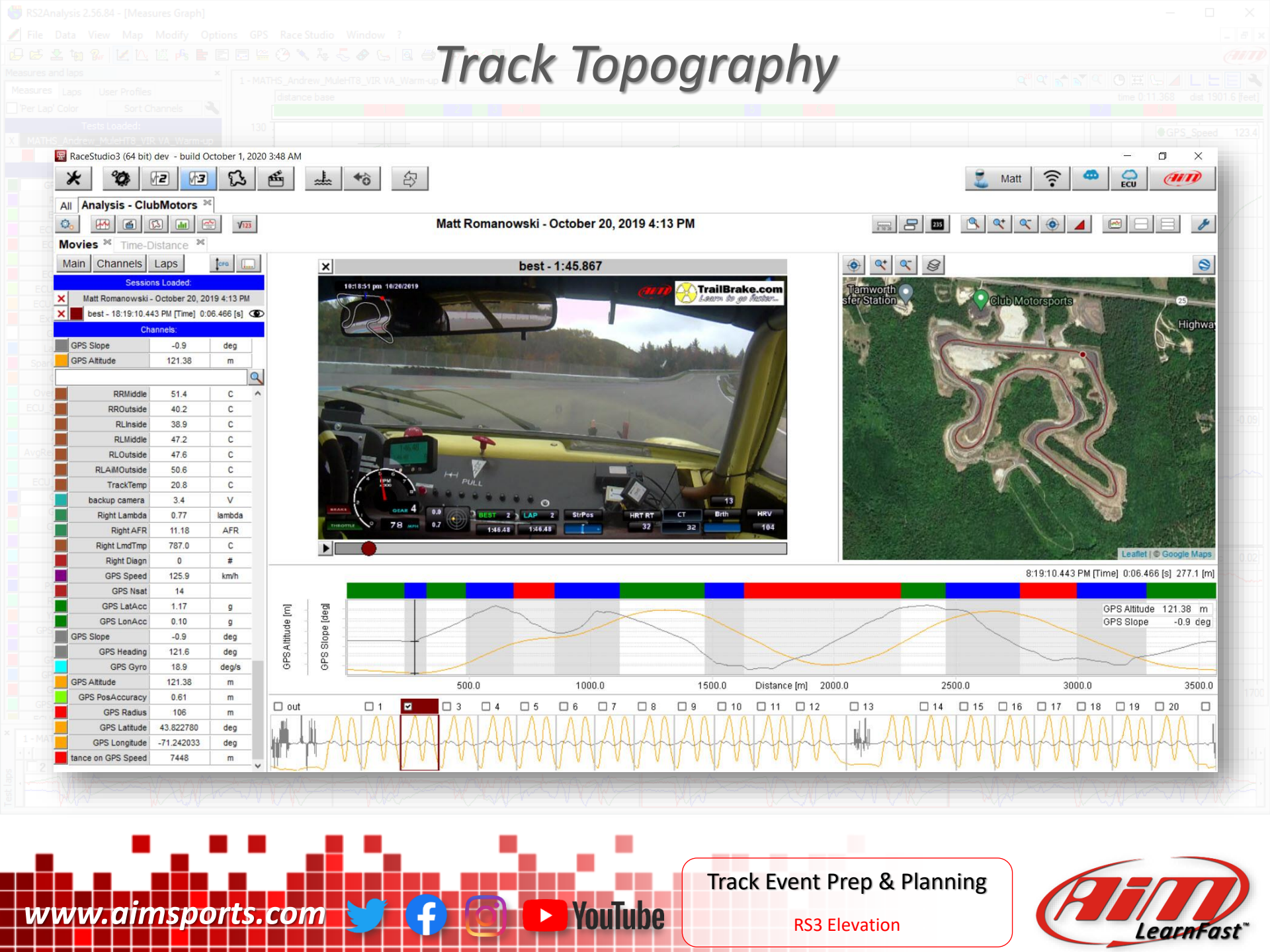
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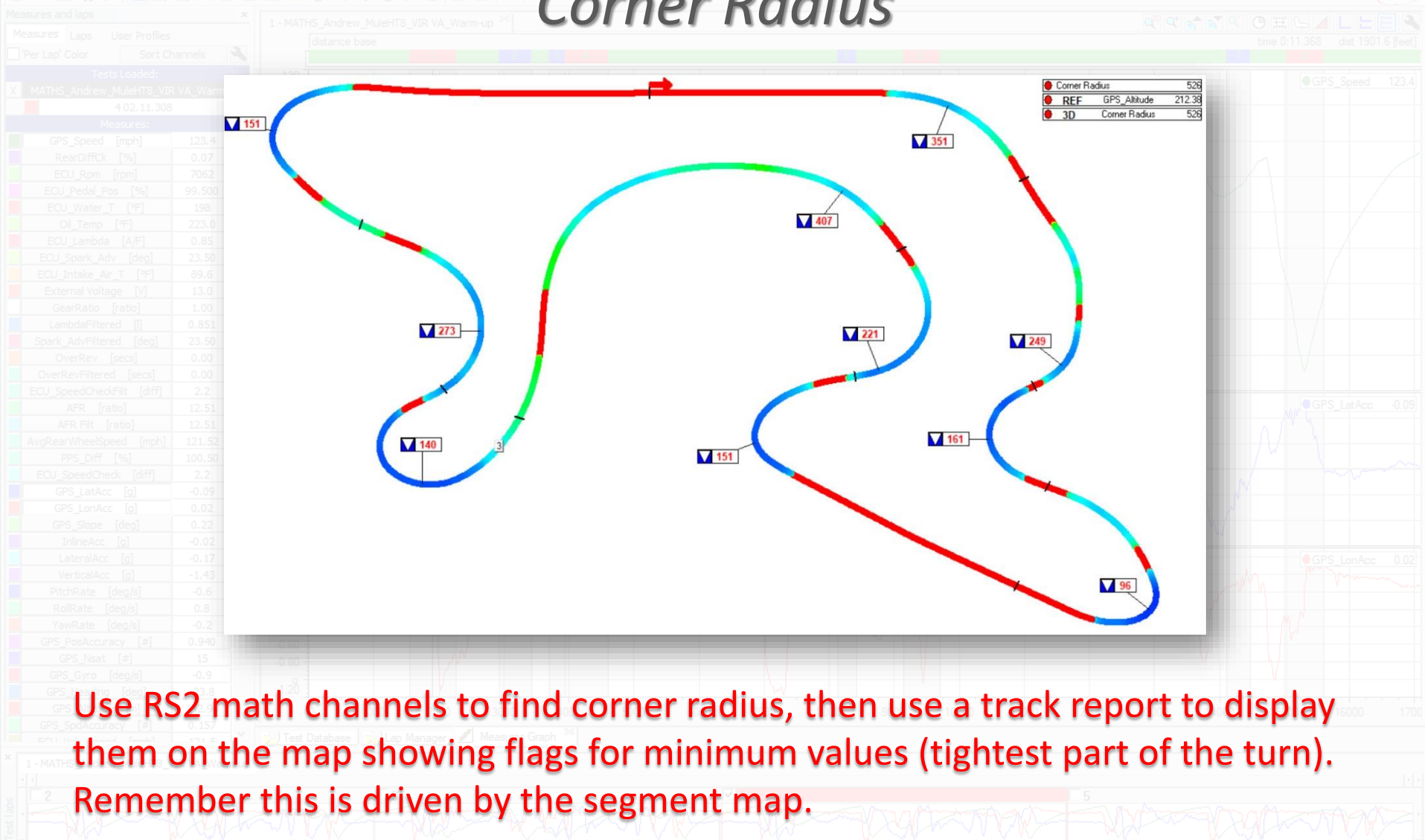
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Track Event Prep & Planning

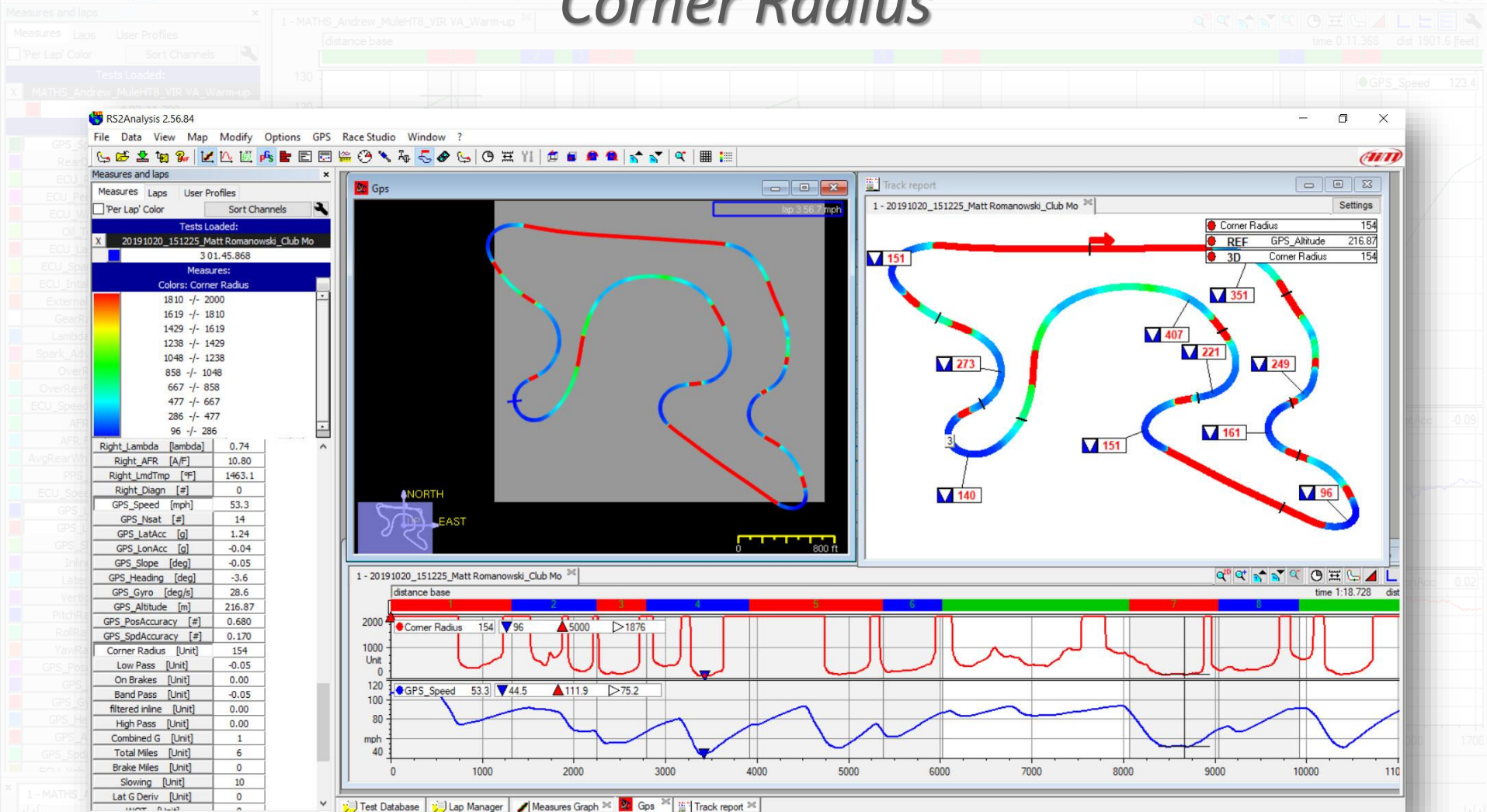
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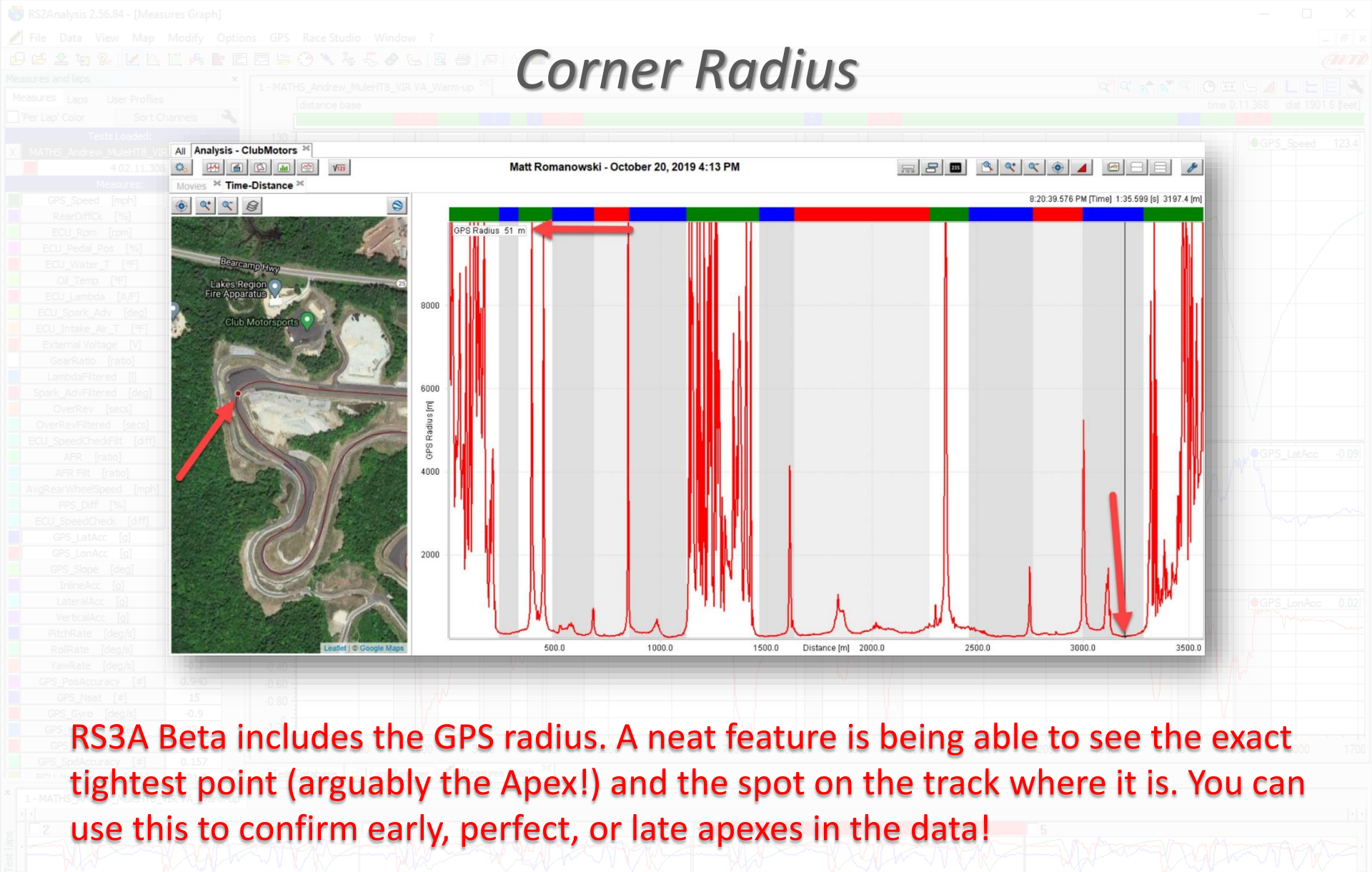
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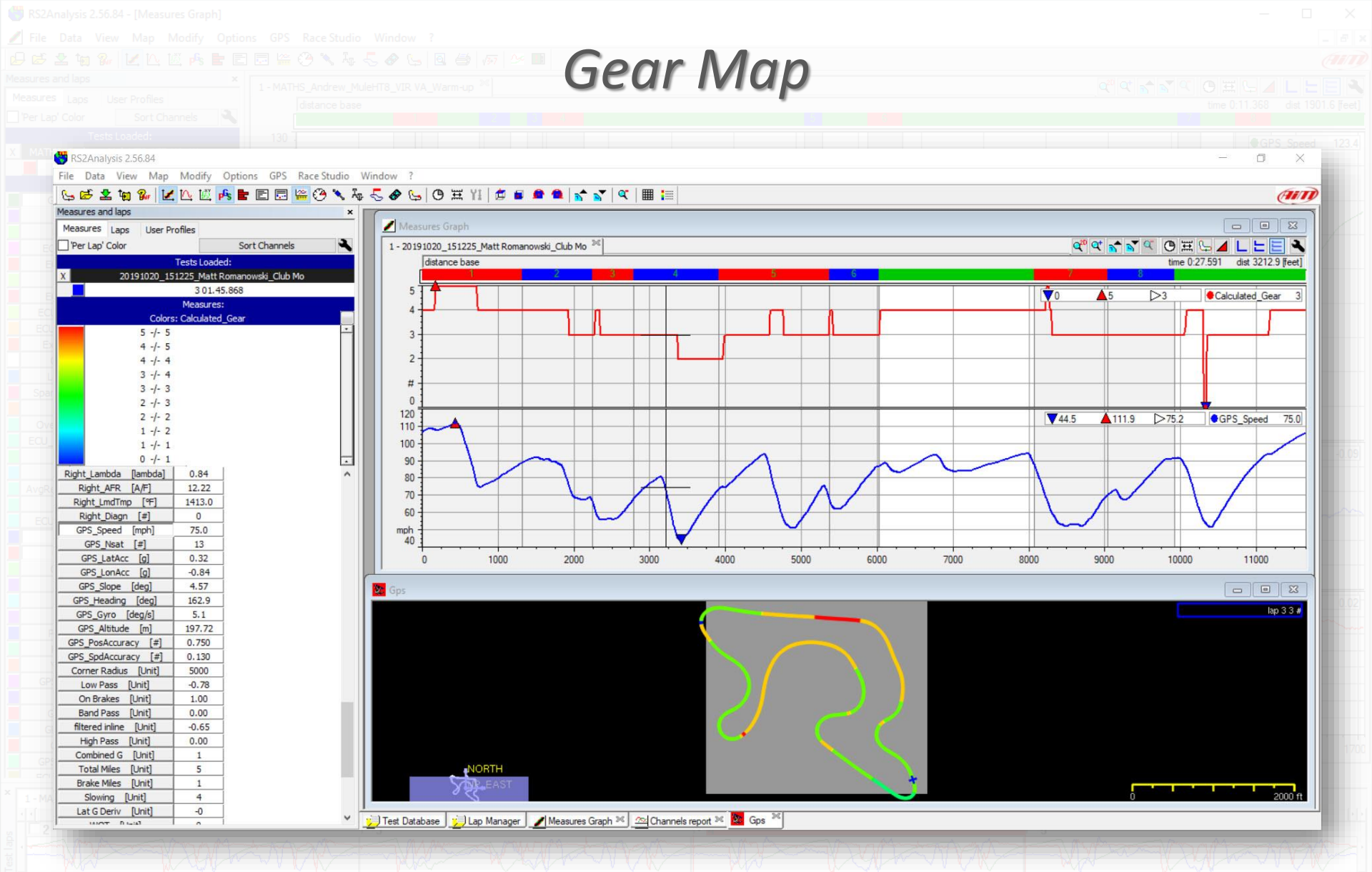
Corner Radius



Corner Radius

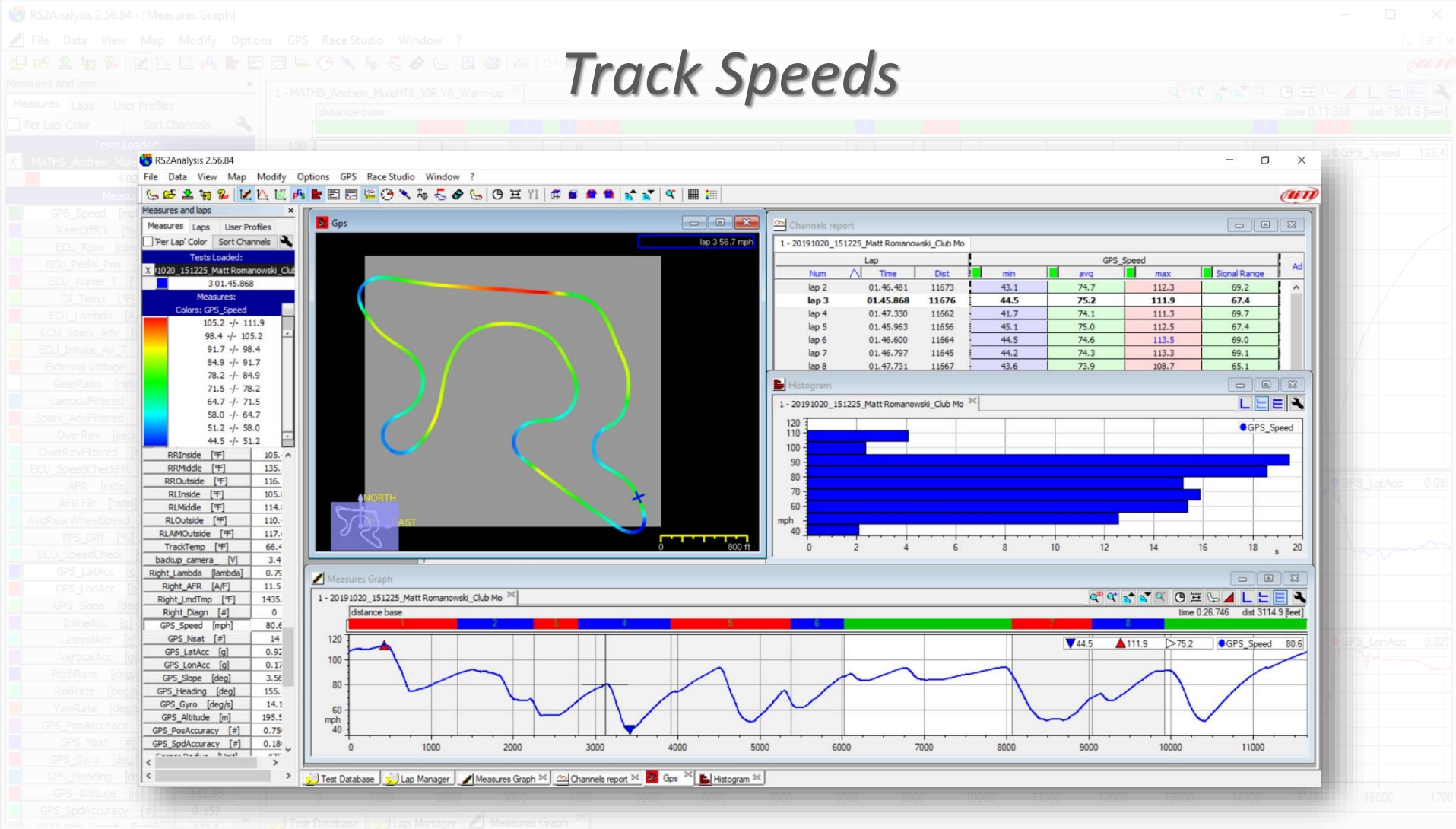






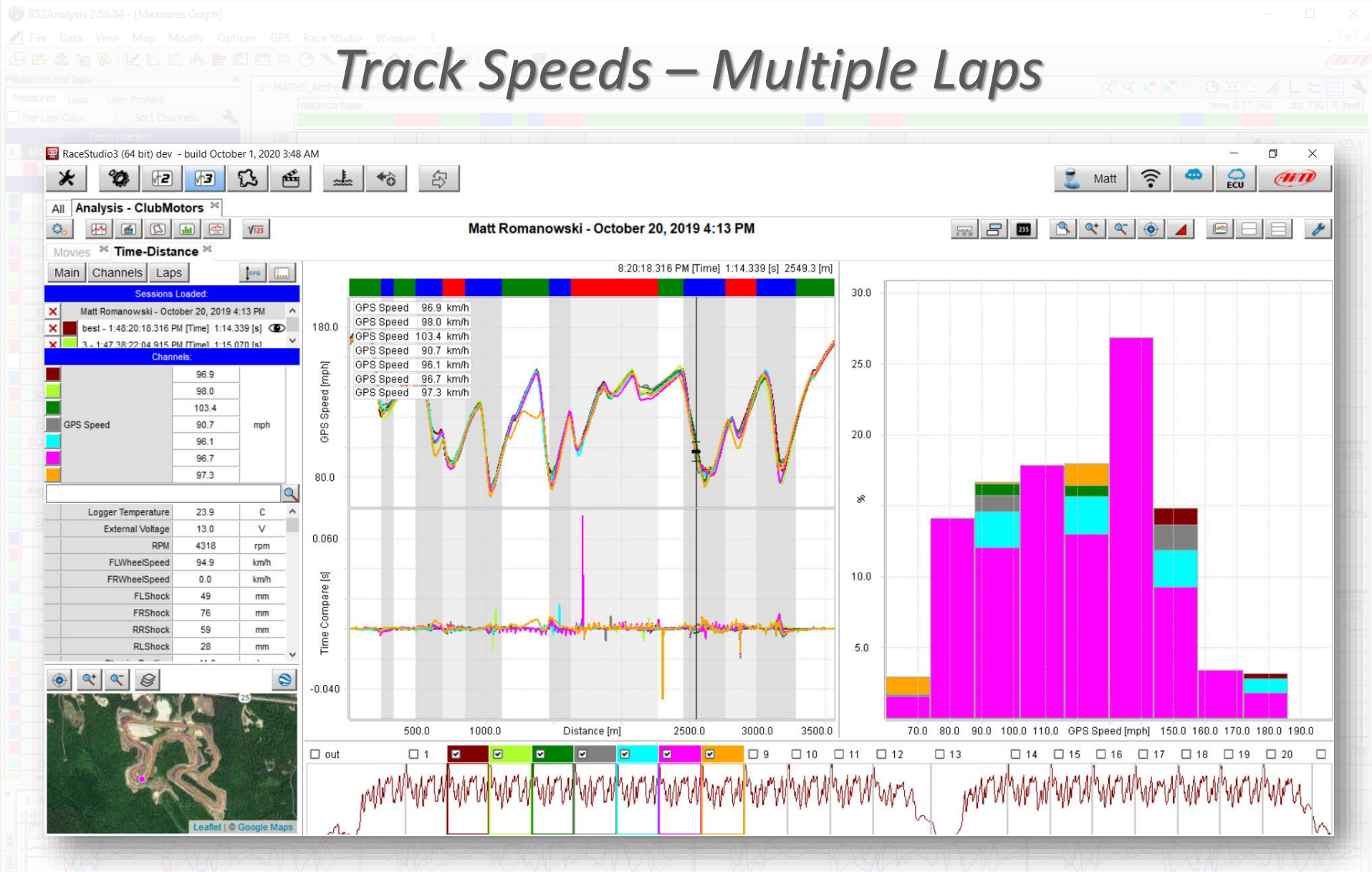


Track Speeds



Use the GPS map to show a visual of speeds, the Channel Report for min, max, average, and range, along with a histogram to show the distribution.

Track Speeds – Multiple Laps



Track Length

Channels report

1 - 20191020_151225_Matt Romanowski_Club Mo

Lap			Brake Miles		GPS_Speed				Heart_Rate	Total Miles
Num	Time	Dist	max	min	avq	max	avq	max		
lap 2	01:46.481	11673	0.80	43.1	74.7	112.3	18.28	4.45		
lap 3	01:45.868	11676	1.19	44.5	75.2	111.9	34.11	6.66		
lap 4	01:47.330	11662	1.63	41.7	74.1	111.3	102.59	8.87		
lap 5	01:45.963	11656	2.05	45.1	75.0	112.5	25.10	11.08		
lap 6	01:46.600	11664	2.43	44.5	74.6	113.5	0.00	13.29		
lap 7	01:46.797	11645	2.87	44.2	74.3	113.3	0.00	15.49		
lap 8	01:47.731	11667	3.27	43.6	73.9	108.7	34.07	17.70		
lap 9	01:49.169	11681	3.72	41.6	73.0	109.9	99.23	19.91		
lap 10	01:48.912	11666	4.18	43.9	73.1	110.7	98.00	22.12		
lap 11	01:47.694	11674	4.64	41.0	73.9	112.0	98.95	24.33		
lap 12	01:46.622	11676	5.09	42.9	74.7	112.9	102.36	26.54		
lap 15	01:48.919	11671	6.42	39.0	73.1	113.1	100.04	33.27		
lap 16	01:46.684	11684	6.85	42.2	74.7	112.5	102.08	35.48		
lap 17	01:46.272	11676	7.27	43.2	74.9	111.0	103.94	37.69		
lap 18	01:48.387	11656	7.72	44.6	73.3	110.1	103.83	39.90		
lap 19	01:46.727	11677	8.16	46.6	74.6	110.0	104.53	42.11		
lap 20	01:47.159	11660	8.61	44.1	74.2	110.1	106.51	44.32		

Channel Report - Track Distances

- Lap Length
- Distance on Brakes
- Total Miles Driven
- Full Throttle (WOT) Miles

Channels report							
1 - 20191020_151225_Matt Romanowski_Club Mo							
Lap			Brake Miles	Heart_Rate	Total Miles	WOT Miles	
Num	Time	Dist	max	avg	max	max	
lap 2	01:46.481	11673	0.80	18.28	4.45	0.00	
lap 3	01:45.868	11676	1.19	34.11	6.66	0.00	
lap 4	01:47.330	11662	1.63	102.59	8.87	0.00	
lap 5	01:45.963	11656	2.05	25.10	11.08	0.00	
lap 6	01:46.600	11664	2.43	0.00	13.29	0.00	
lap 7	01:46.797	11645	2.87	0.00	15.49	0.00	
lap 8	01:47.731	11667	3.27	34.07	17.70	0.00	
lap 9	01:49.169	11681	3.72	99.23	19.91	0.00	
lap 10	01:48.912	11666	4.18	98.00	22.12	0.00	
lap 11	01:47.694	11674	4.64	98.95	24.33	0.00	
lap 12	01:46.622	11676	5.09	102.36	26.54	0.00	
lap 15	01:48.919	11671	6.42	100.04	33.27	0.00	
lap 16	01:46.684	11684	6.85	102.08	35.48	0.00	
lap 17	01:46.272	11676	7.27	103.94	37.69	0.00	
lap 18	01:48.387	11656	7.72	103.83	39.90	0.00	
lap 19	01:46.727	11677	8.16	104.53	42.11	0.00	
lap 20	01:47.159	11660	8.61	106.51	44.32	0.00	

Channel Report – Lap Percent

- Lap Length
- Distance on Brakes
- Total Miles Driven
- Full Throttle (WOT) Miles

Lap			Percent Brakes	Percent Left Turn	Percent Right Turn	Percent Straight	Add / Remove
Num	Time	Dist	max	max	max	min	
lap 2	01:46.481	11673	19.90	28.77	42.55	28.68	
lap 3	01:45.868	11676	19.10	28.95	42.92	28.13	
lap 4	01:47.330	11662	21.70	28.71	41.69	29.60	
lap 5	01:45.963	11656	20.40	29.15	43.40	27.45	
lap 6	01:46.600	11664	18.80	28.88	42.61	28.51	
lap 7	01:46.797	11645	21.70	28.57	42.49	28.94	
lap 8	01:47.731	11667	20.00	28.45	41.75	29.80	
lap 9	01:49.169	11681	22.80	27.85	40.89	31.27	
lap 10	01:48.912	11666	23.10	27.80	40.89	31.31	
lap 11	01:47.694	11674	22.90	28.41	41.62	29.97	
lap 12	01:46.622	11676	22.30	28.90	42.61	28.49	
lap 15	01:48.919	11671	23.50	26.95	41.32	31.73	
lap 16	01:46.684	11684	21.40	28.69	42.71	28.60	
lap 17	01:46.272	11676	20.20	28.74	43.40	27.85	
lap 18	01:48.387	11656	22.00	27.53	41.38	31.09	
lap 19	01:46.727	11677	21.60	28.63	43.26	28.11	
lap 20	01:47.159	11660	22.20	28.38	42.20	29.42	

More Ideas

1 - 20191020_151225_Matt Romanowski_Club Mo

Lap			Exertion	FLTireTemp	GPS_Altitude	GPS_Speed	HR_Zone	Heart Rate		Logger Temperature	RPM
Num	Time	Dist	max	max	avq	avq	avq	avq	max	avq	avq
lap 2	01:46.481	11673	13.00	143.02	189.79	74.7	0.14	18.28	98.00	75.52	5231.06
lap 3	01:45.868	11676	24.00	146.92	189.67	75.2	0.54	34.11	118.00	75.17	5267.21
lap 4	01:47.330	11662	47.00	146.94	189.58	74.1	1.21	102.59	112.00	74.90	5177.56
lap 5	01:45.963	11656	49.00	149.28	189.61	75.0	0.25	25.10	103.00	74.75	5290.81
lap 6	01:46.600	11664	0.00	148.73	189.75	74.6	0.00	0.00	0.00	74.69	5257.24
lap 7	01:46.797	11645	0.00	151.33	189.68	74.3	0.00	0.00	0.00	74.70	5222.88
lap 8	01:47.731	11667	20.00	144.79	189.58	73.9	0.34	34.07	112.00	74.80	5205.25
lap 9	01:49.169	11681	45.00	146.11	189.98	73.0	1.00	99.23	108.00	74.91	5098.49
lap 10	01:48.912	11666	47.00	153.68	189.66	73.1	0.98	98.00	110.00	75.05	5138.90
lap 11	01:47.694	11674	47.00	150.77	189.78	73.9	1.00	98.95	109.00	75.22	5204.67
lap 12	01:46.622	11676	47.00	154.71	189.63	74.7	1.19	102.36	112.00	75.26	5244.32
lap 15	01:48.919	11671	46.00	150.21	189.97	73.1	1.06	100.04	111.00	76.35	5135.79
lap 16	01:46.684	11684	47.00	155.60	189.79	74.7	1.19	102.08	112.00	76.20	5246.51
lap 17	01:46.272	11676	49.00	161.78	189.63	74.9	1.23	103.94	114.00	76.11	5259.55
lap 18	01:48.387	11656	47.00	162.58	189.58	73.3	1.23	103.83	113.00	76.14	5154.72
lap 19	01:46.727	11677	48.00	159.88	189.66	74.6	1.38	104.53	114.00	76.21	5241.39
lap 20	01:47.159	11660	48.00	152.24	189.56	74.2	1.44	106.51	114.00	76.31	5217.77

Use the channels you have to make more generalizations about the track. Things like average Track Temp, Average RPM, Average Speed, Max Tire (or average) Tire Temp, Average Altitude (carb jetting?), and Driver Measures can tell you a lot!

Take the Next Steps....

- Put it all together and carry it further
- Use all the channels you have available
- Put them together in a spreadsheet and compare track to track. You'll be surprised!

Track Length (miles)	1.52
Top Speed	107
Average Speed	69
Speed Profile	
Gear Usage	
Gearshifts per lap	5
Max Lateral G LH Corner	1.7
Max Lateral G RH Corner	1.37
Friction Circle Shape	
# LH Corners	7
# RH Corners	4
Quadrant 1: Acc LH	43%
Quadrant 2: Acc RH	25%
Quadrant 3: Brake LH	20%
Quadrant 4: Brake RH	6%
Full Throttle time (% of laptime)	51%
Time on brakes (% of laptime)	17%

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- Pre-Calculated Gear Position Function
- Configuring WiFi Communication
- Customizing AiM Device Logos
- Race Studio 3 Basic Configuration - Part 1
- Race Studio 3 Basic Configuration - Part 2
- **I Have Downloaded my Data, Now What - Part 1*
- **I Have Downloaded my Data, Now What - Part 2*
- GPS Lap Insert
- Data Views
- Measure Units
- Sort Channels
- Test Properties
- Per Lap Color
- Export Tests
- Channel Reports
- Setting Time
- Track Mapping
- Selection Criteria
- Sensor Calibration
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Additional Materials

LearnFast™ E-Training Video



RS2Analysis 2.56.84 - [Measures Graph]

File Data View Map Modify Options GPS RaceStudio Window ?

Measures and Laps

Measures Laps User Profiles

Per Lap Color Sort Channels

Tests Loaded:

MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

130

4 02:11.3

Measures:

GPS_Speed [km/h]		
RearDiffCk [rpm]	7062	100
ECU_Rpm [rpm]	99.500	
ECU_Pedal_Pos [%]		
ECU_Water_T [°F]		
Oil_Temp [°F]	0.85	
ECU_Lambda [A/F]		
ECU_Spark_Adv [deg]		
ECU_Intake_Air_T [°F]		
External_Voltage [V]	13.0	
GearRatio [ratio]	1.00	
LambdaFiltered []	0.851	60
Spark_AdvFiltered [deg]	23.50	

1 - MATHS_Andrew_MuleHT8_VIR_VA_Warm-up

distance base

time 0:11.368 dist 1301.6 feet

123.4

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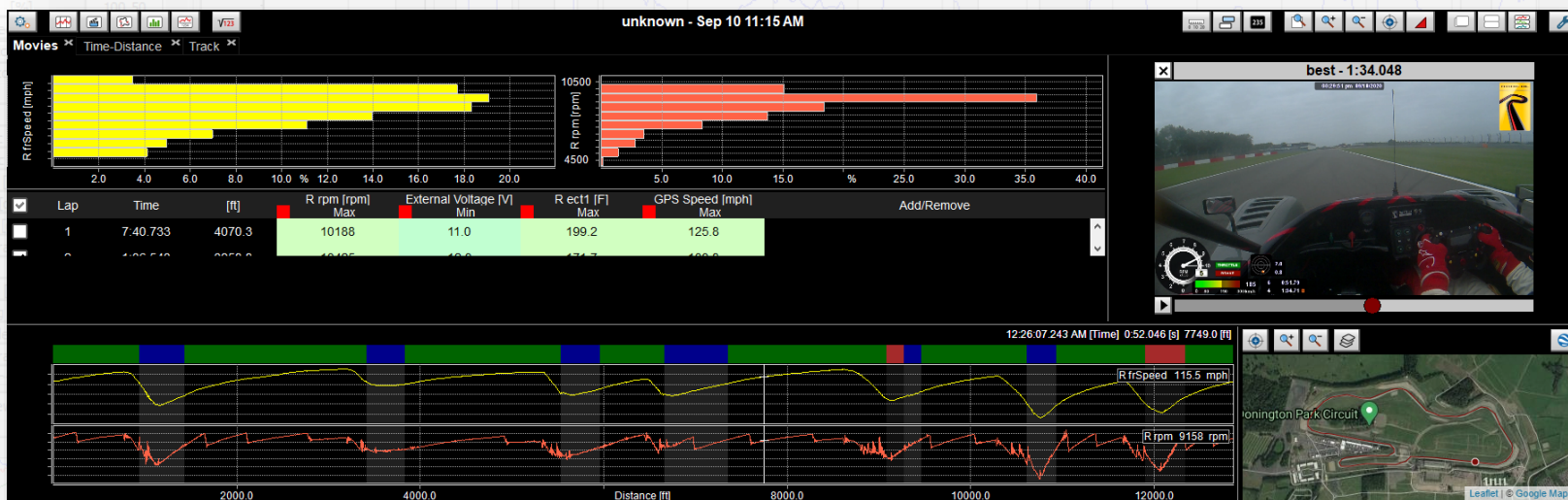
Tuesday Oct 13th, 2020

10:00am Pac / 1:00pm East



Co-Host
James Colborn
www.jamescolborn.com

Determining Your (and Their) Data Analysis Learning Styles



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Next Webinar Topic
Determining Your (and Their)
Data Analysis Learning Styles





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