

WEBINAR WILL
BEGIN AT 14:00

agilysis



CHANGING ROAD USE
POST-PANDEMIC

RICHARD OWEN, CRAIG SMITH AND DAN SAUNDERS (BASEMAP)

WEBINAR SUPPORT



- Please use the chat function to discuss topics raised as we go along
- If you have a question, start your comment with QUESTION to make it clear to the presenter
- This is being recorded and will be available to review shortly
- The PDF slides are also available



CHANGING ROAD USE POST PANDEMIC

Traffic levels

Behaviour – Speed

Road casualties



TRAFFIC LEVELS



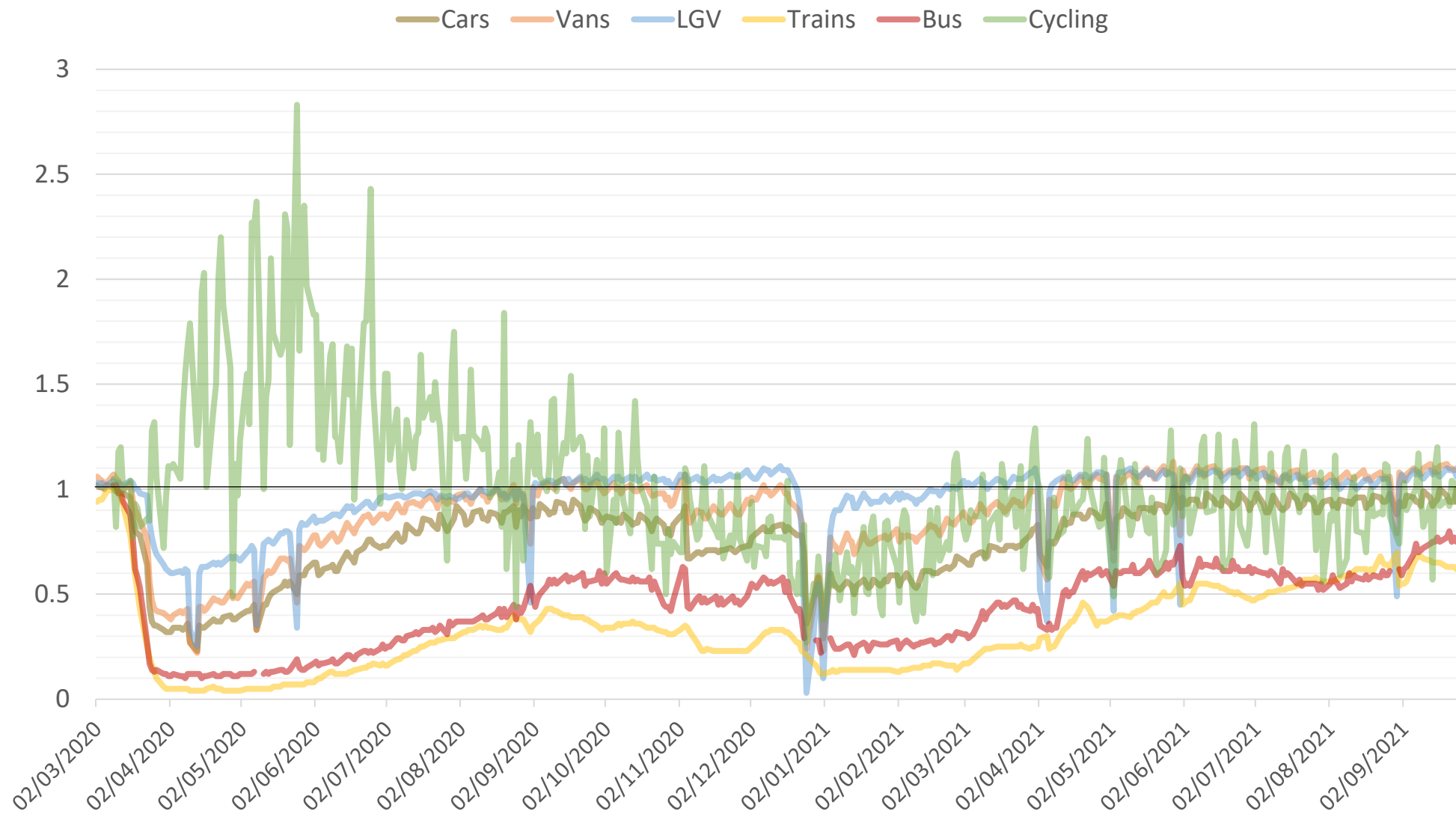
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POLL



GB Transport Use, Weekdays - Source: DfT

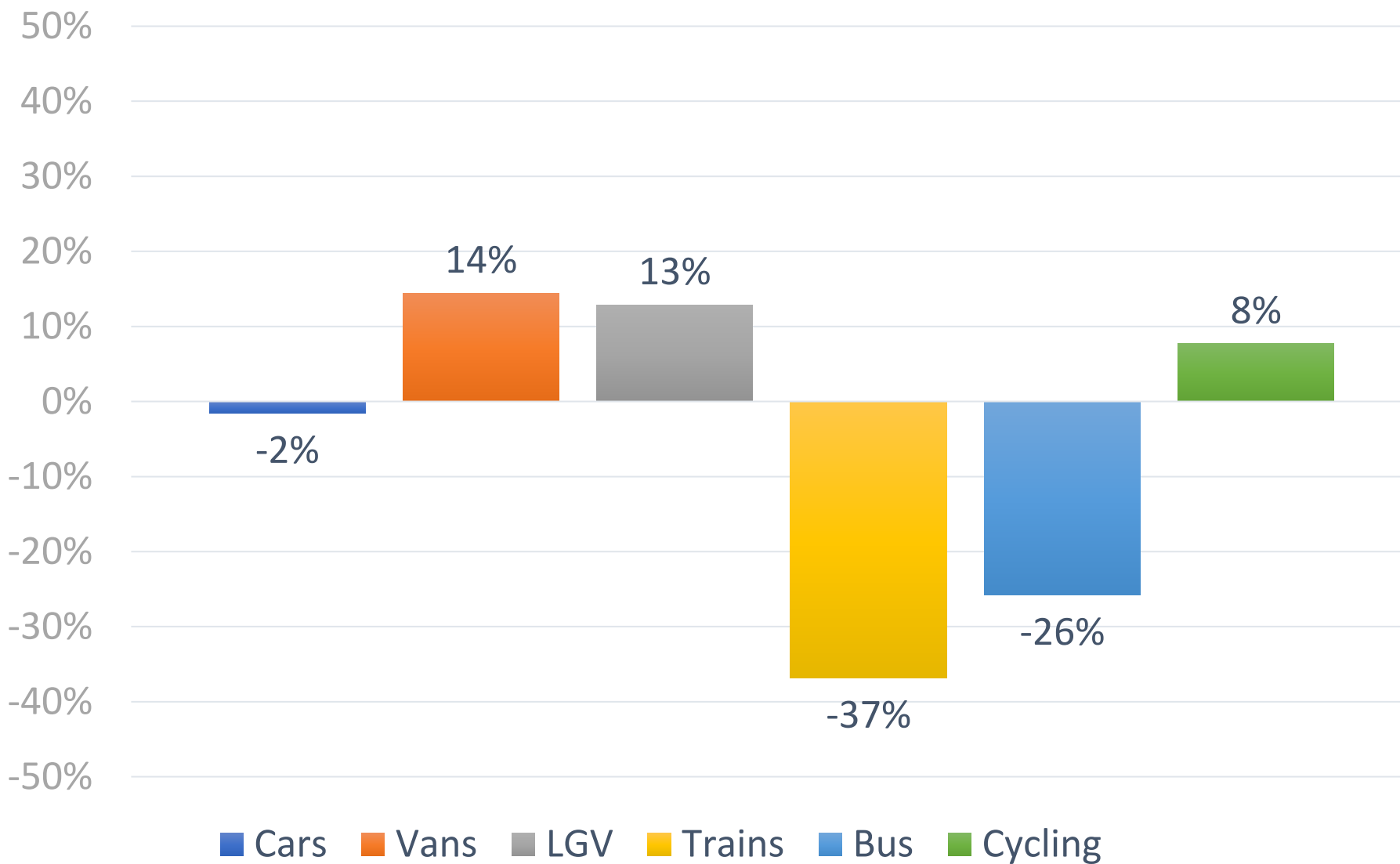




September weekdays vs March 2020

baseline

Current Traffic Levels – September 2021

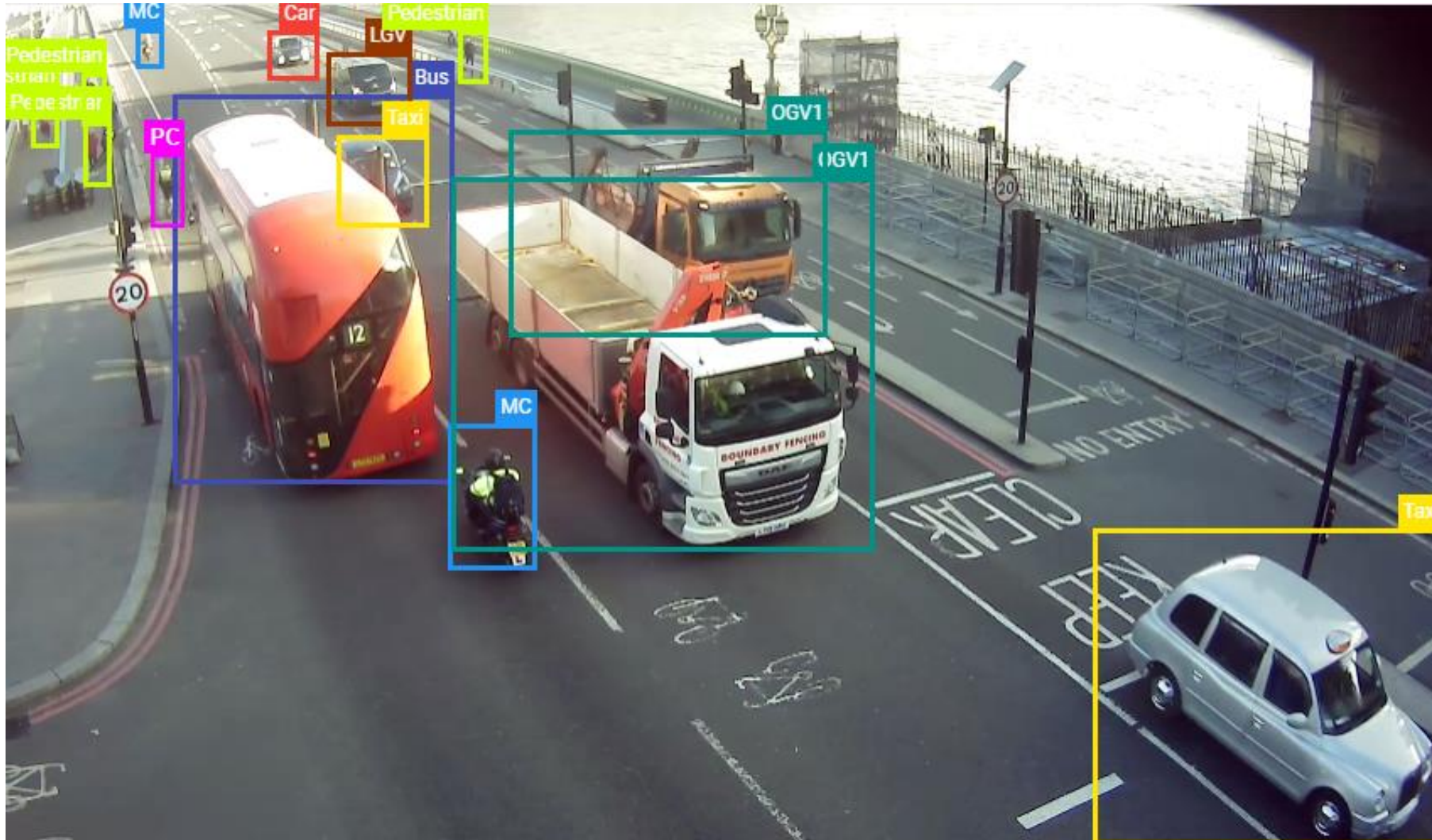


TRAFFIC LEVELS

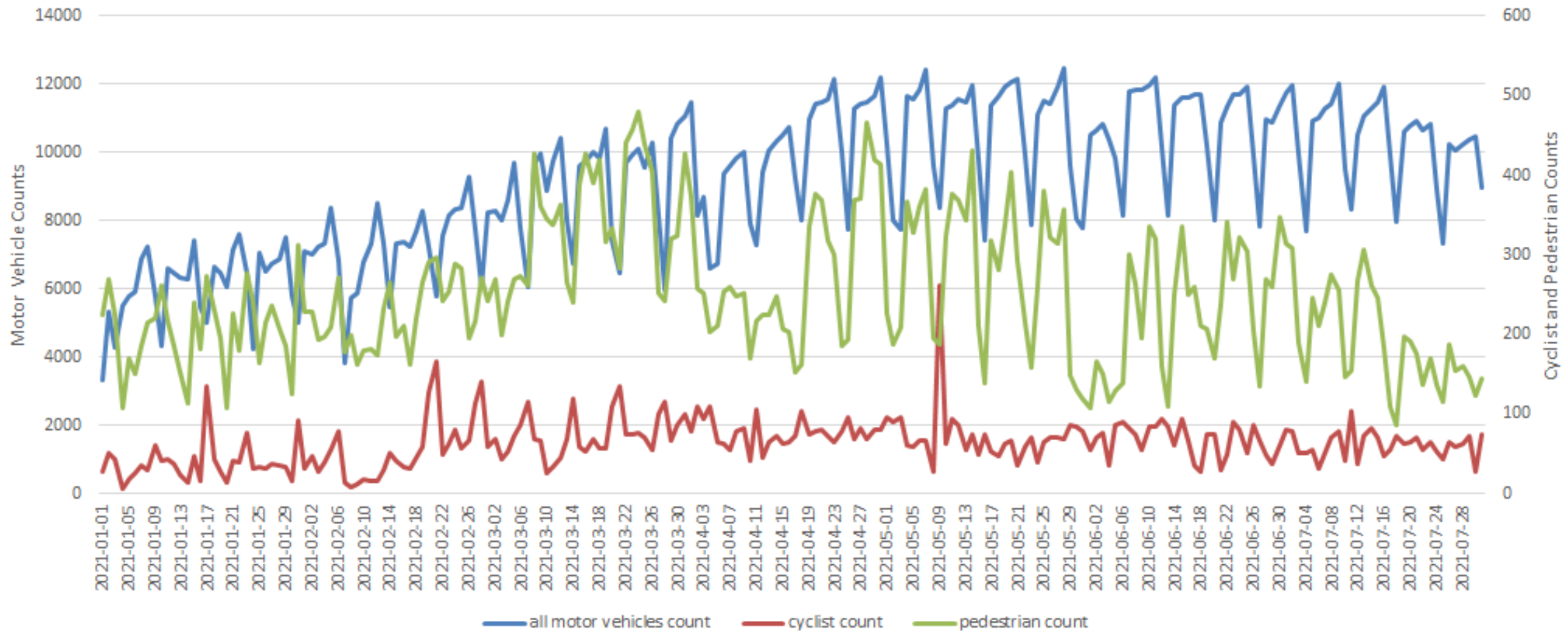


TRAFFIC LEVELS

Alternative data sources – Video analytics



TRAFFIC LEVELS



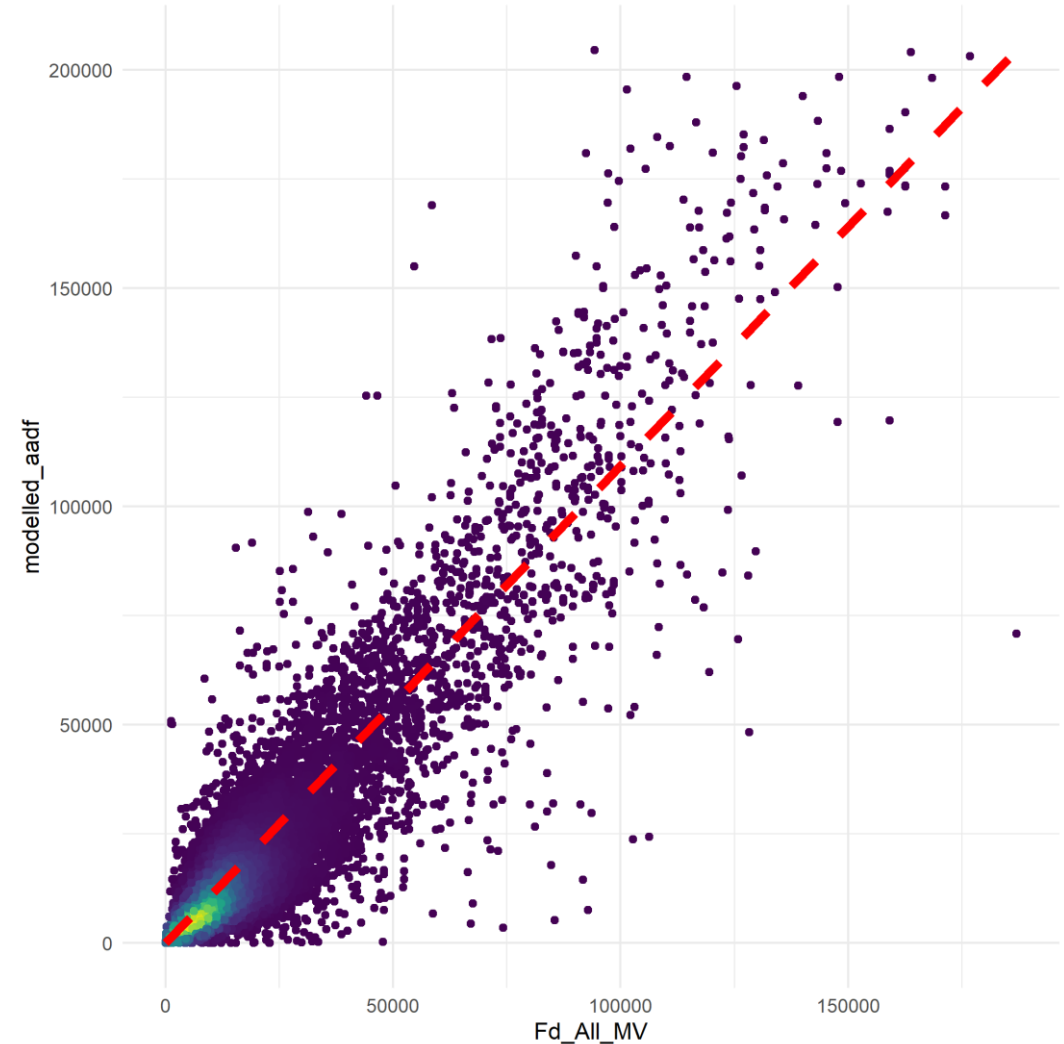
Alternative data sources – GPS tracks



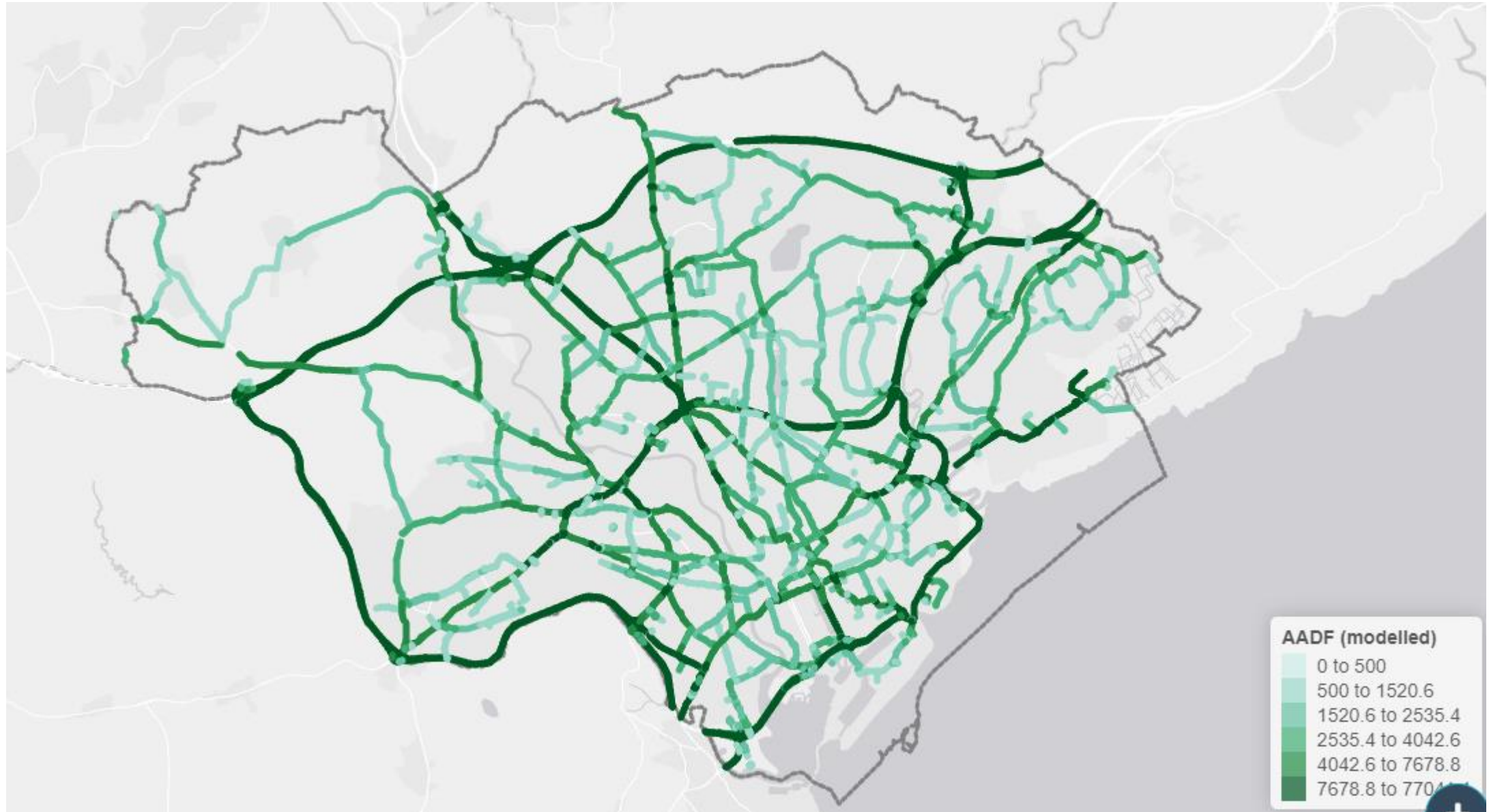
TRAFFIC LEVELS



- Telematics counts are matched to 18,278 DfT count point locations
- Bayesian Model used
- Assumes AADF is Poisson distributed
- With mean proportional to the telematics counts
- Scaling factor varies by road type (Single/Dual/Slip Road/Other)
- Tensorflow uses known DfT traffic counts (and MCMC) to sample from the distributions of these scaling factors
- Gives us a probabilistic model of AADF based on the telematics counts



TRAFFIC LEVELS



BEHAVIOUR - SPEED

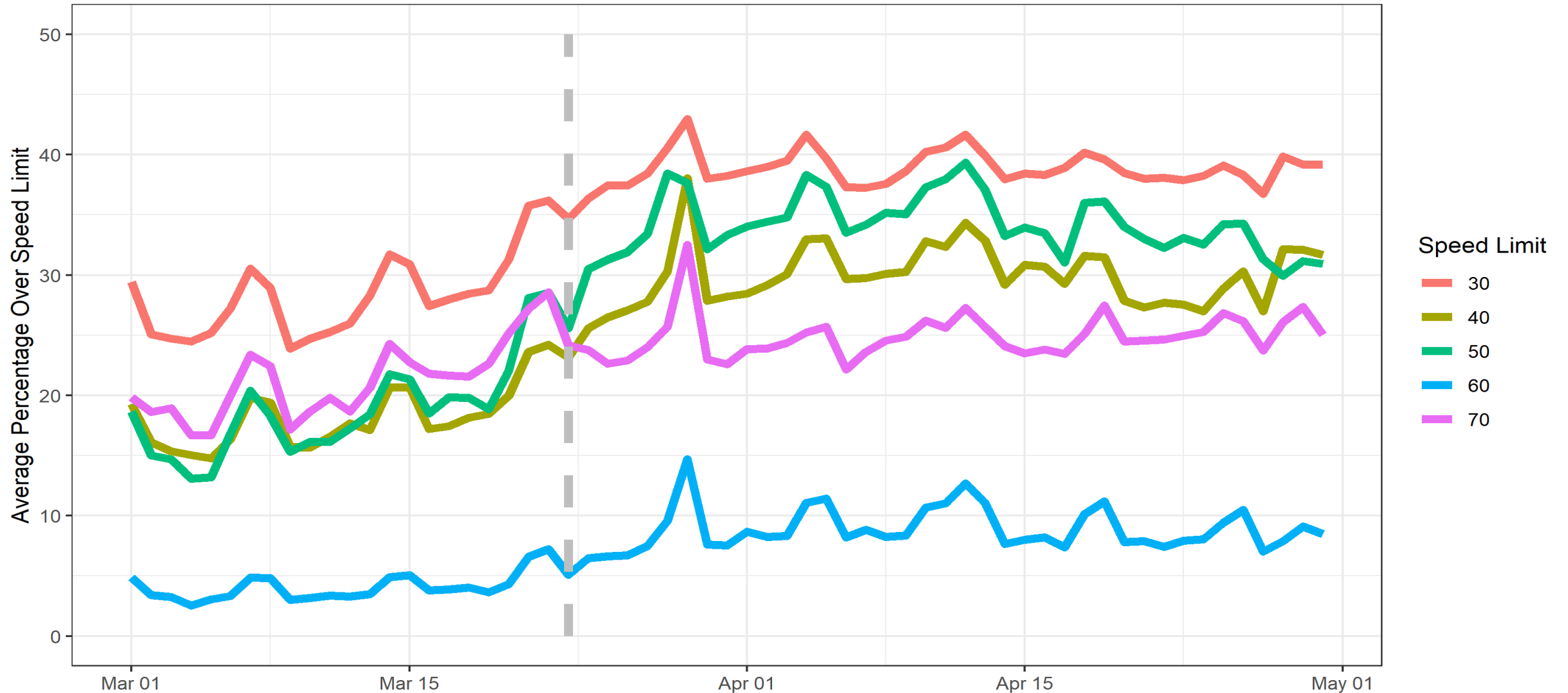


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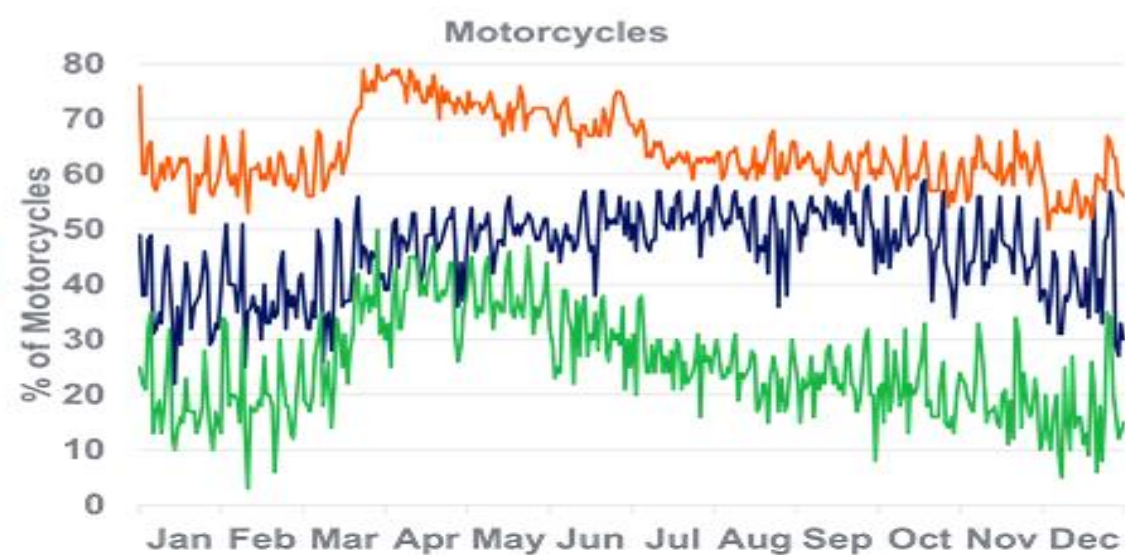
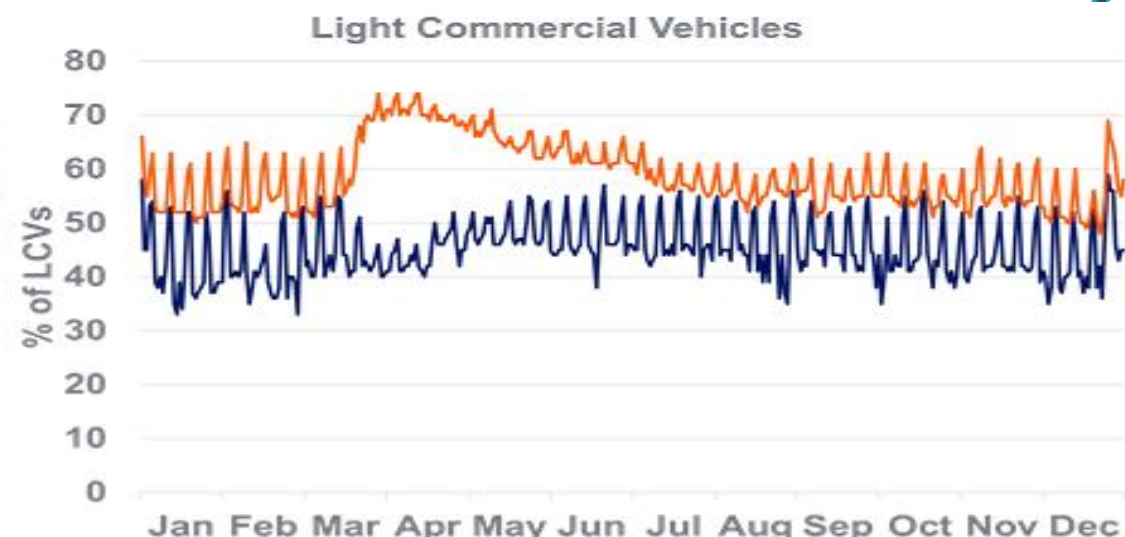
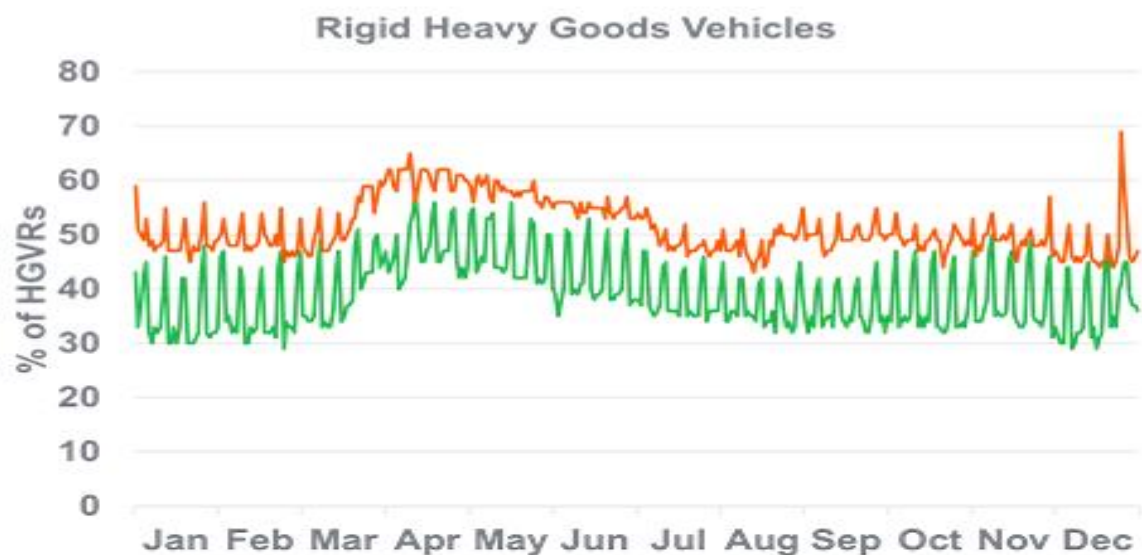
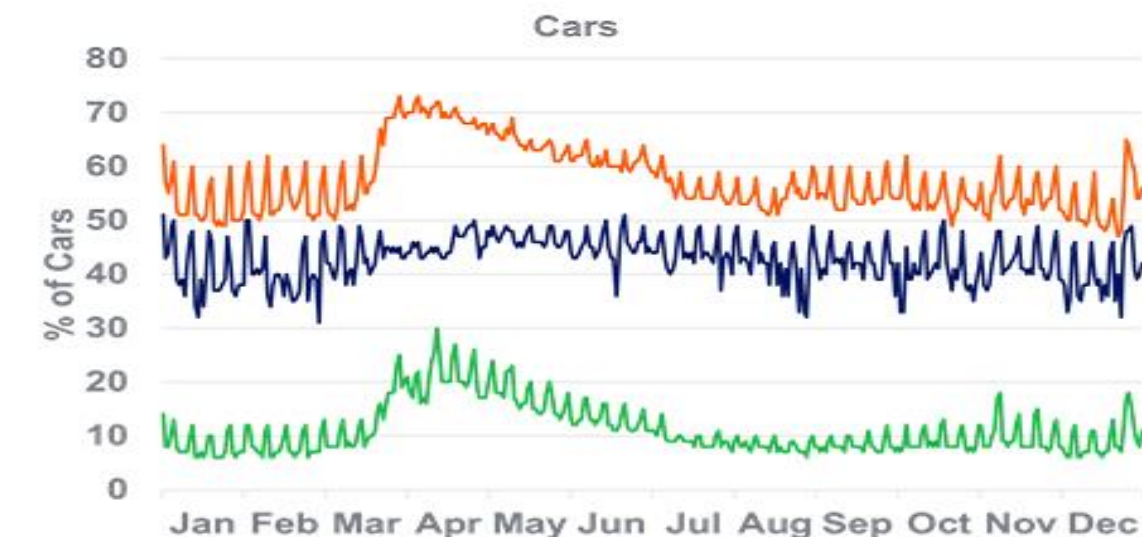


POLL

BEHAVIOUR - SPEED



BEHAVIOUR - SPEED



Motorways National Speed Limit Single Carriageways 30mph Roads

Average Speed (Cars, mph)	2020	2019
(a) Motorways (28 sites)	70	69
(b) National speed limit single carriageways (20 sites ²)	51	50
(c) 30 mph speed limit roads (21 sites)	31	31
(d) 20 mph speed limit roads ³ (10 sites)	26	26



TM Speed Data

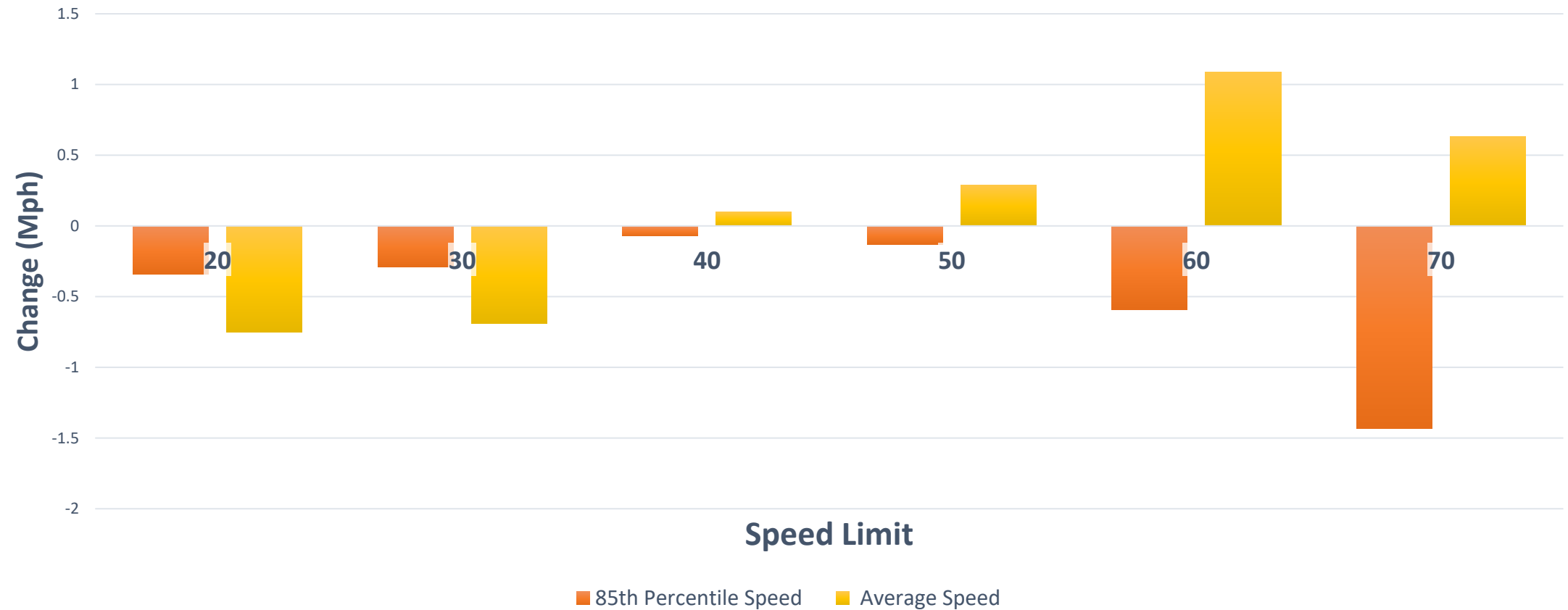
Historical Average Speed Data

Dan Saunders – Head of Products



TM Speed Analysis

April '19 – Mar '20 vs April '20 – Mar '21



ROAD CASUALTIES



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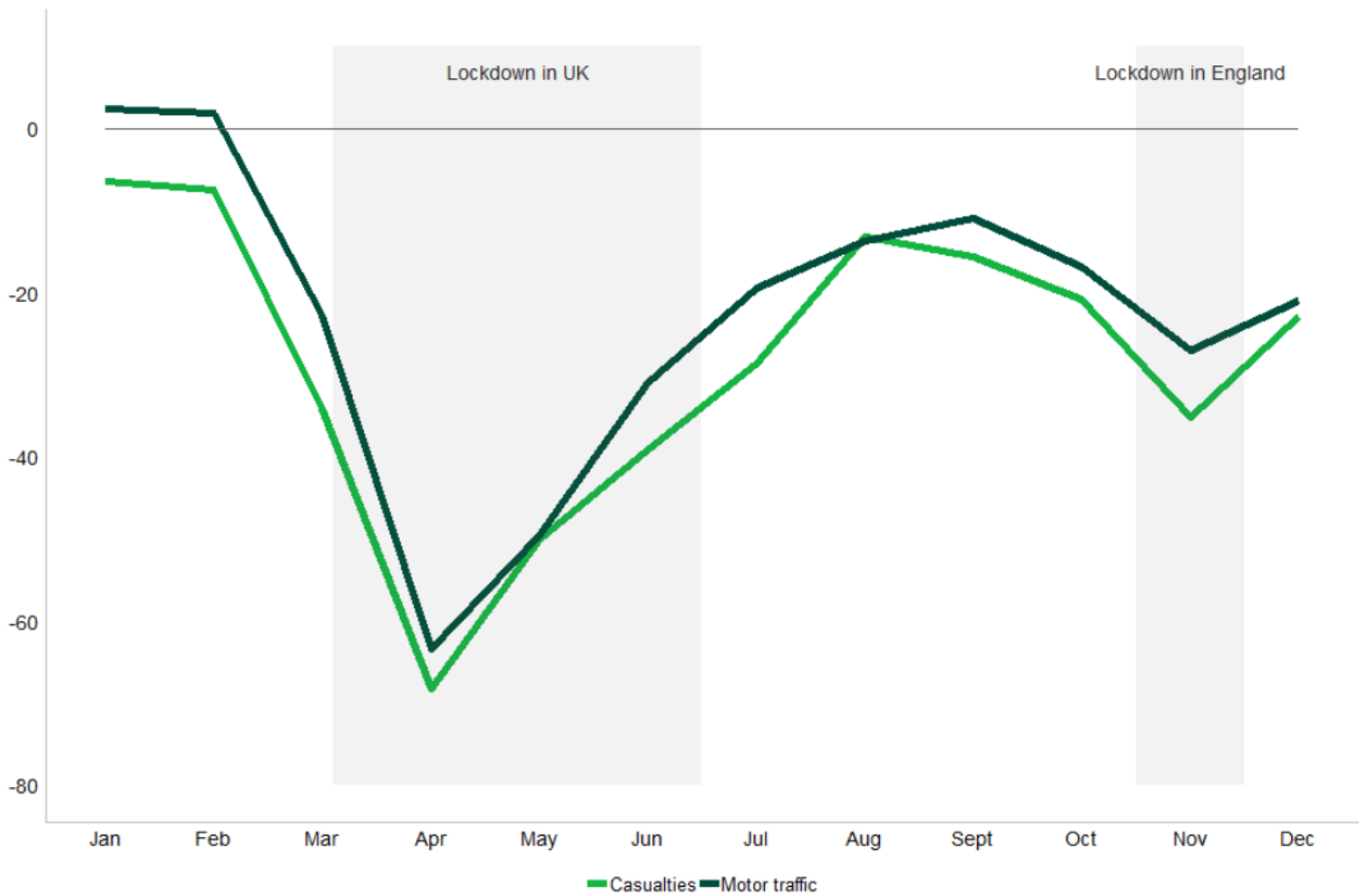


POLL



ROAD CASUALTIES

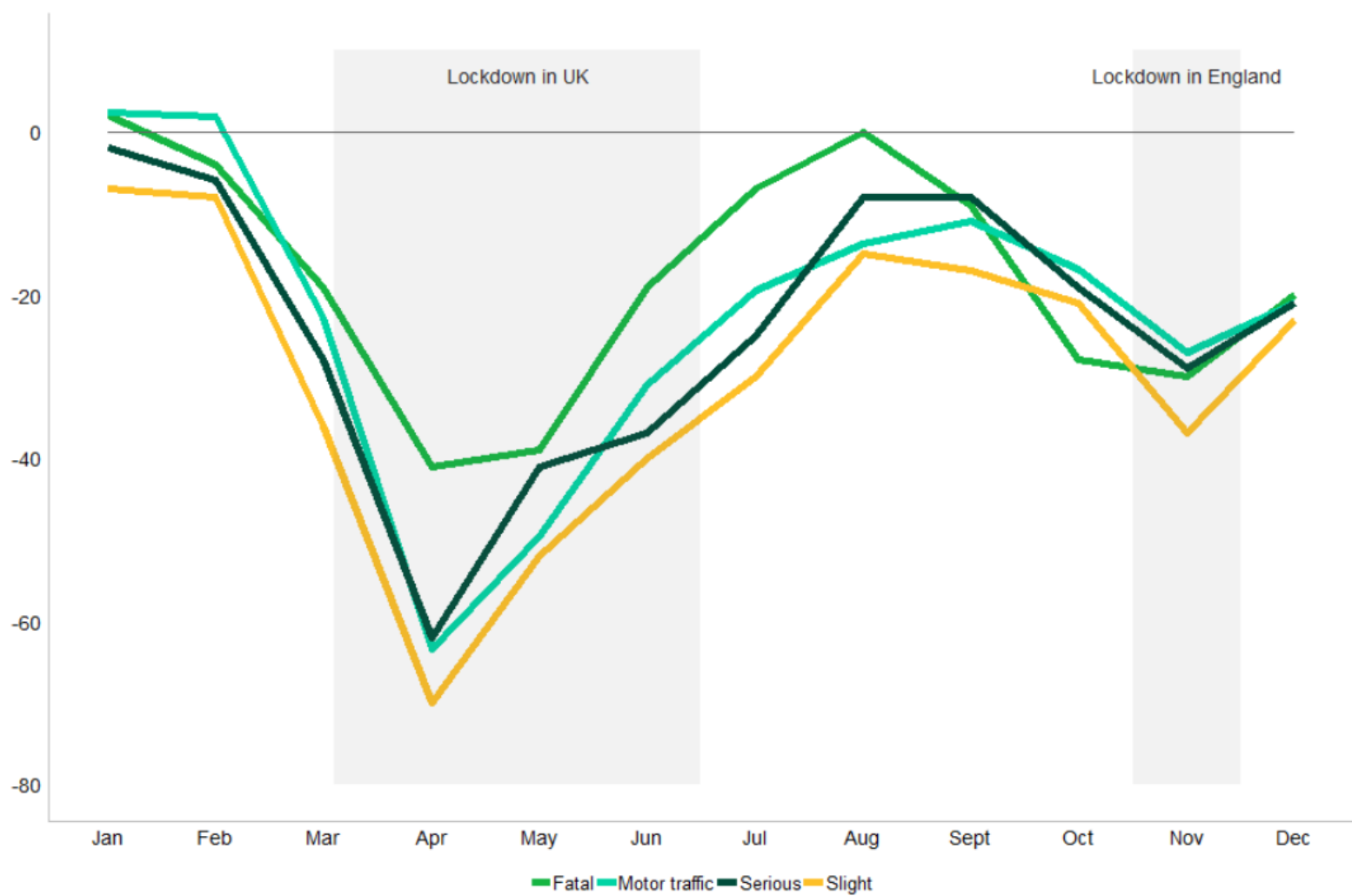
Chart 1: Percentage change of casualties of all severities and motor traffic, compared to 3-year average for 2017 to 2019, Great Britain, 2020





ROAD CASUALTIES

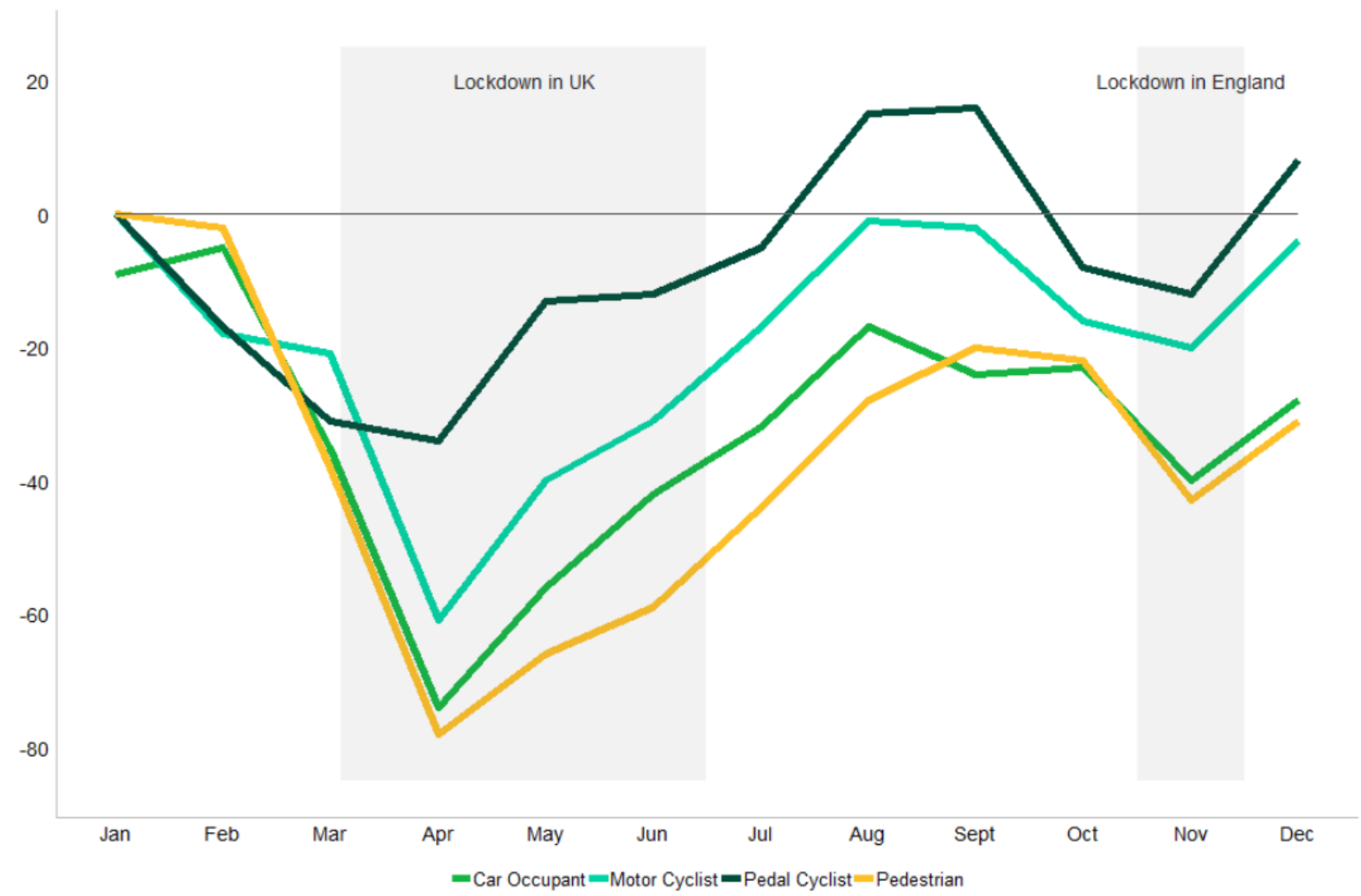
Chart 3: Percentage change of casualties and motor traffic, compared to the 3-year average for 2017 to 2019, by severity, Great Britain, 2020





ROAD CASUALTIES

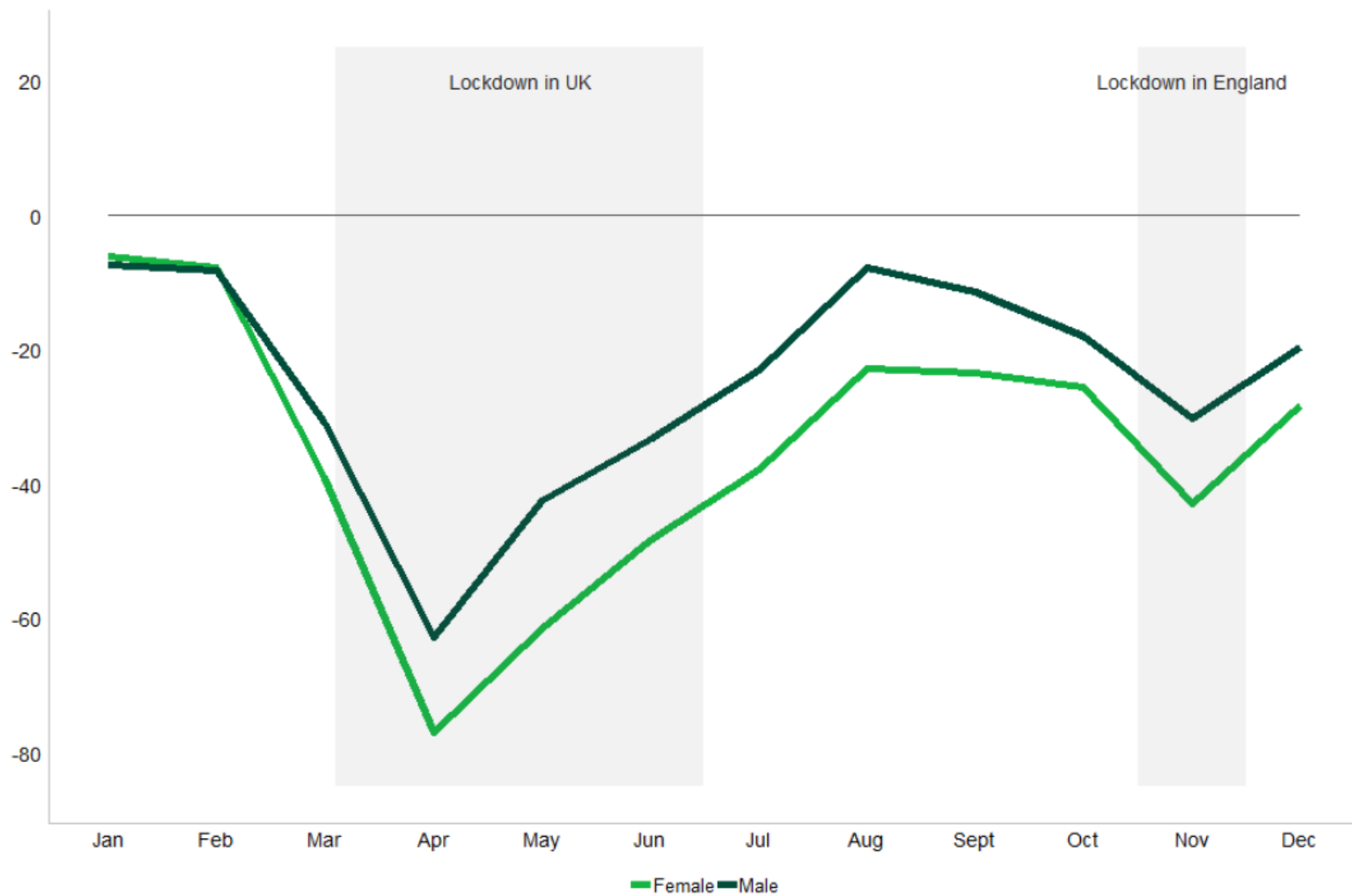
Chart 4: Percentage change of casualties compared to 3-year average for 2017 to 2019 by month and road user type: Great Britain, 2020





ROAD CASUALTIES

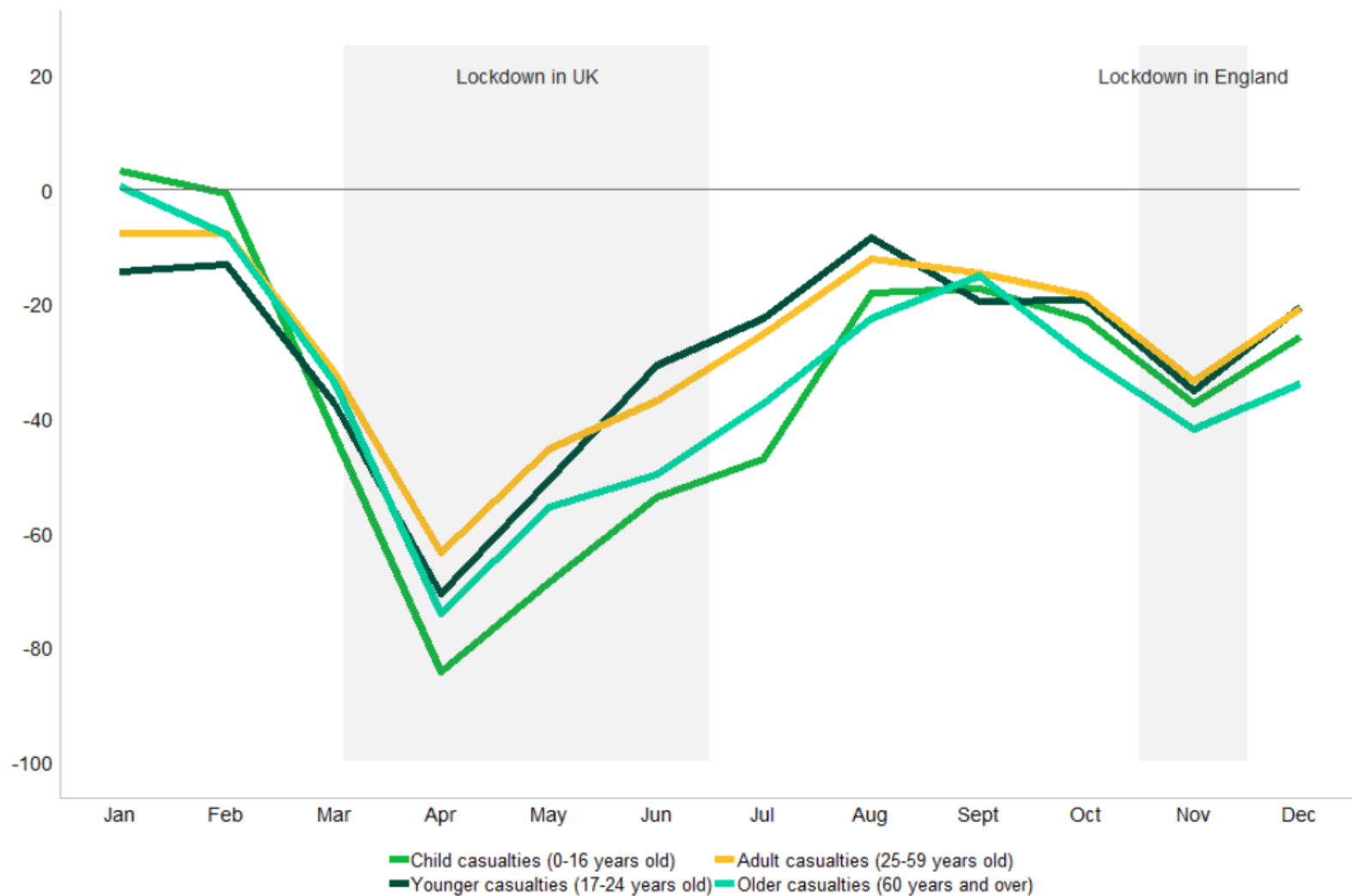
Chart 8: Percentage change of casualties compared to the 3-year average for 2017 to 2019 by month and sex: Great Britain, 2020





ROAD CASUALTIES

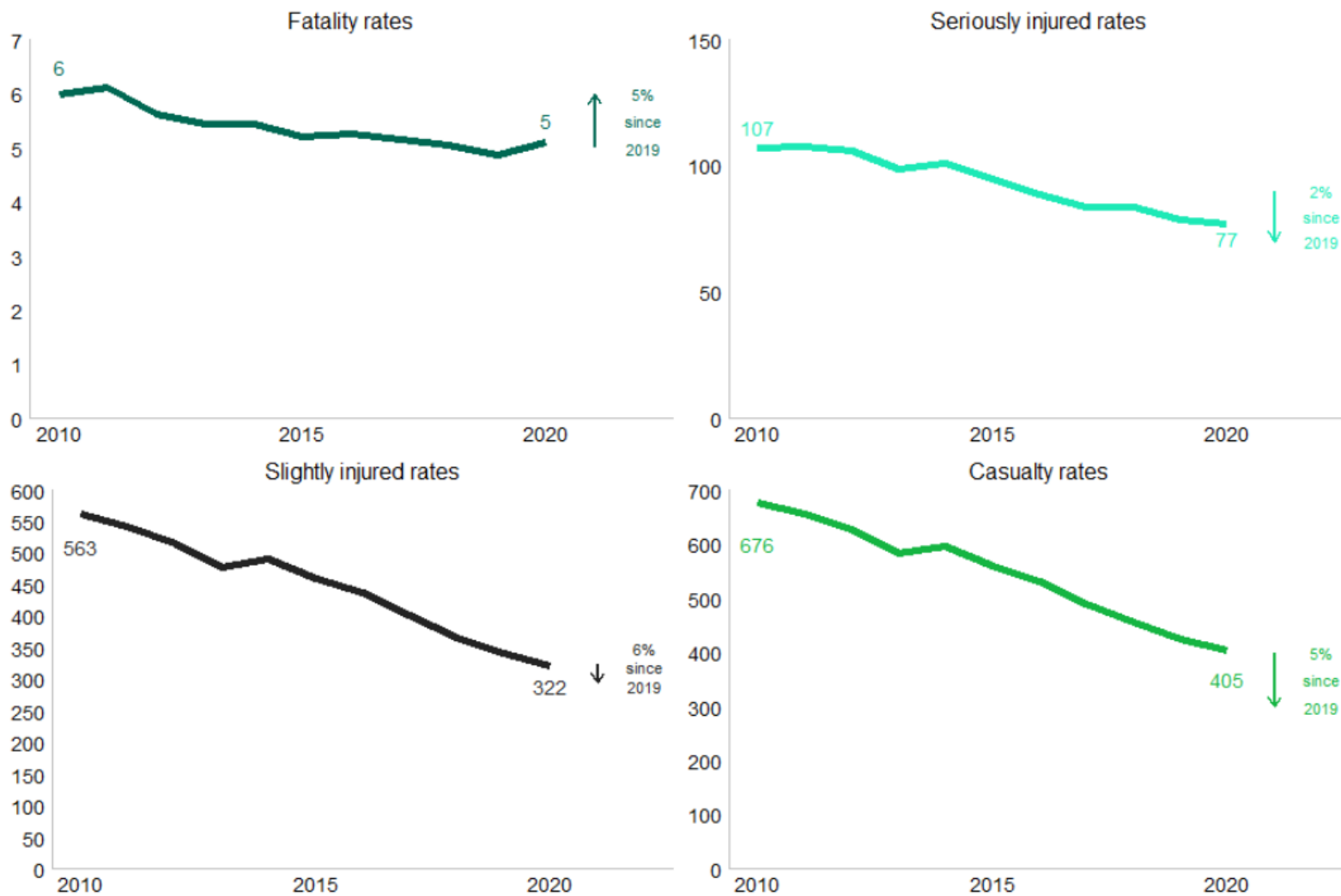
Chart 9: Percentage change of casualties compared to 3-year average for 2017 to 2019 by month and age group: Great Britain, 2020 [RAS30024](#)





ROAD CASUALTIES

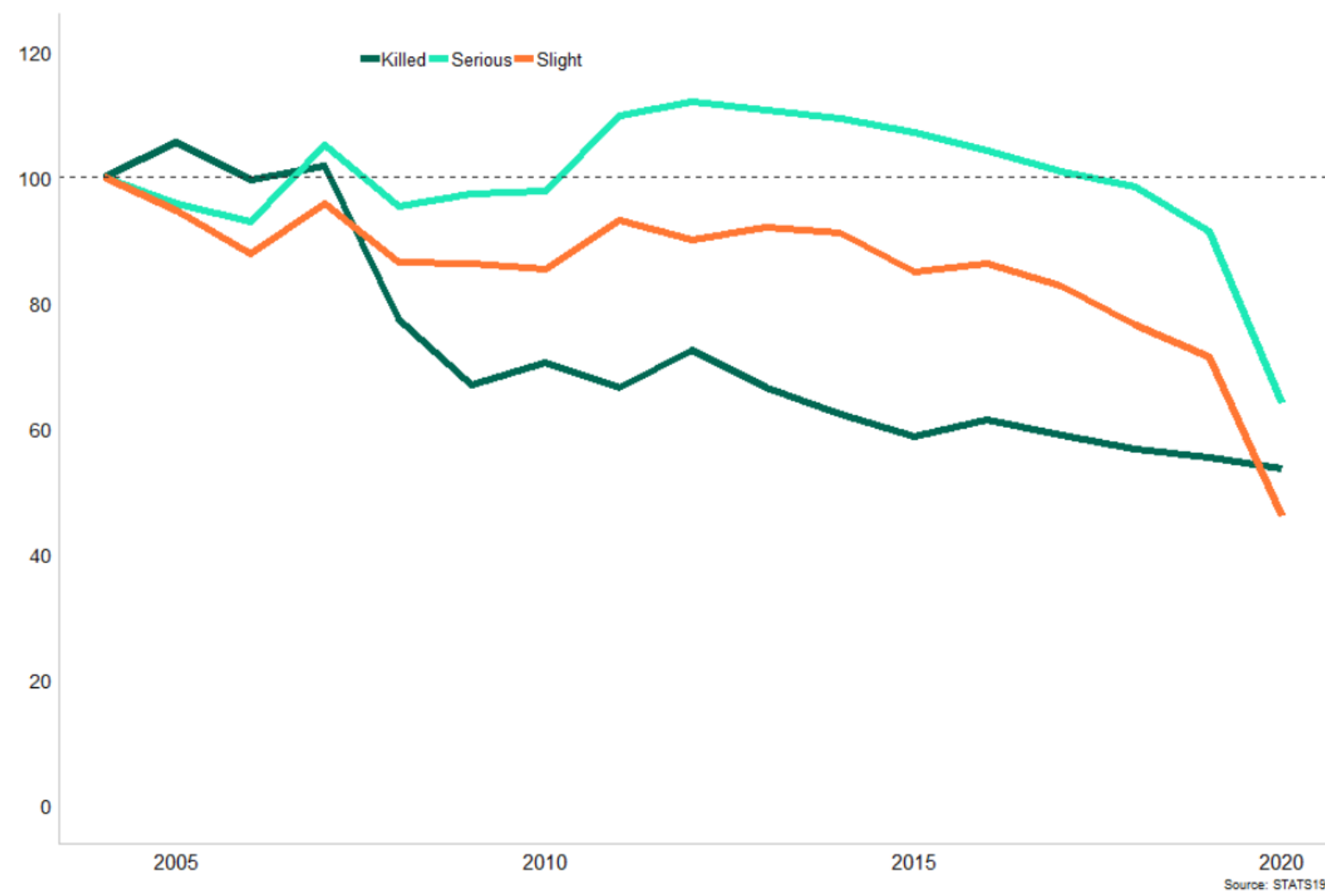
Chart 3: Casualty rates per billion vehicle miles by severity in Great Britain 2010 to 2020 ([RAS30001](#))





ROAD CASUALTIES

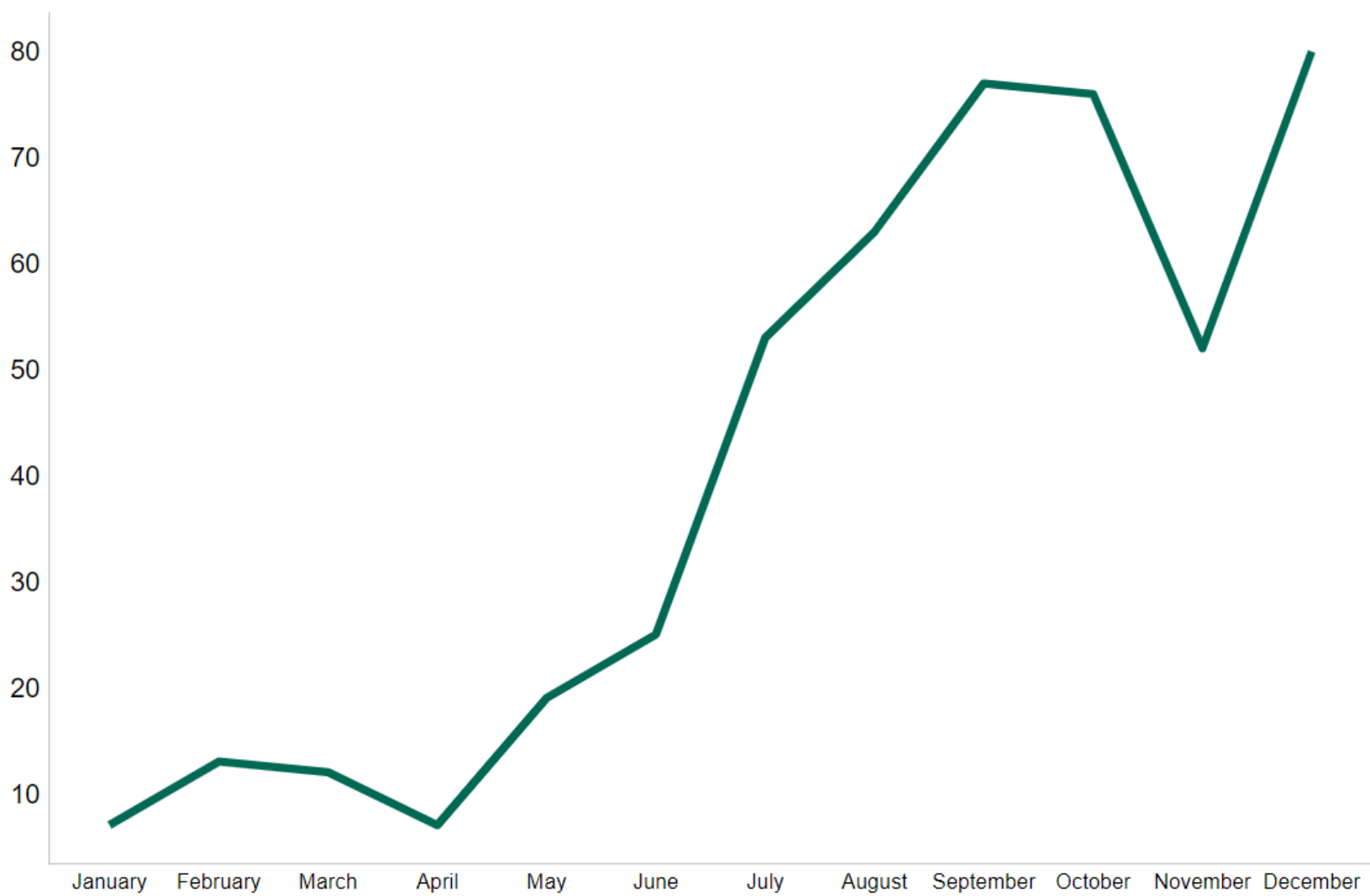
Chart 2: Index of casualty rates of pedal cycle casualties by severity, GB: 2004 to 2020 (Index 2004=100)





ROAD CASUALTIES

Chart 1: Reported casualties in accidents involving e-scooters by month, GB:2020



Source: STATS19



WHAT DOES THIS MEAN?

- Have road use patterns changed significantly?
- Have road user behaviours changed?
- Are road risks evolving?
- What does this mean for you?




Road Safety: What Works and What Does Not Work?

Tuesday 12th October 2021 at 14:00-15:00

Presented by Richard Owen and Tanya Fosdick, with guest speakers Neale Kinnear from TRL, Matt Staton from Road Safety GB, Brian Lawton from the Road Safety Foundation and Jessica Truong from Towards Zero Foundation

 Register now

 Read more

New Ways of Accessing Road Safety Data

Tuesday 19th October 2021 at 14:00-15:00

Presented by Richard Owen

 Register now


 Read more

Second Decade of Action

Tuesday 2nd November 2021 at 14:00-15:00

Presented by Dan Campsall with guest speakers Lotte Brondum from the Global Alliance and Jonathan Passmore from Road Safety, Injury & Violence Prevention

 Register now

 Read more

What Works part 2

Tuesday 9th November 2021 at 14:00-15:00

Presented by Dan Campsall and Tanya Fosdick

 Register now

 Read more



RICHARD OWEN

+44 1295 731815

+44 7977 122420

Richard.owen@agilysis.co.uk

CRAIG SMITH

+44 1295 731811

Craig.smith@agilysis.co.uk

dsaunders@basemap.co.uk
@Basemap

