

Update from the Third Party Working Party

Jacqui Draper (GAD) Robert Treen (WTW)

Disclaimer

This handout and presentation represent the personal views of the speakers who do not accept any liability for reliance on it and make no warranty as to its content or accuracy.

This handout supports the research effort of the Institute and Faculty of Actuaries Third Party Working Party and is not written advice directed at the particular facts and circumstances of any given situation and/or data.

The materials contained in this presentation pack and any oral representation of it by the working party are explicitly outside the scope of the TAS.



Third Party Working Party

- Thirteenth iteration of the Institute and Faculty of Actuaries Third Party Working Party (TPWP), which investigates motor claims (injury and property damage).
- Scope focused on private car comprehensive (PCC) and includes accidental damage analysis for the third year.
- Data representing earned premium for accident year 2021 of £7.4 billion for private car comprehensive.
- This pack contains this year's research to be presented at the GIRO conference in November 2022.



Acknowledgements

Working Party:

Paulvir Bajwa Katie Carmona Dharmesh Chandaria Andrew Cooke Jacqui Draper (Chair) Paul Fox Krushmi Gandhi Stuart Hunt Rajeev Janagal Sylvie Ledelliou Maria Nicholson Jonathan Prout Tom Scholfield Justin Thomas Robert Treen (Chair) Muhammad Versi

Data contributors:

Acromas Admiral Advantage Ageas Allianz Aviva AXA Markerstudy Covea **Direct Line Group** Esure LV= RSA **Tesco Underwriting** Zurich



Market statistics Notes on data

- The collection of contributing insurers has changed materially over the years. Relative to last year's study this year's includes additional data from some contributors (generally relating to more accounts) and, in some cases, less data from other contributors.
- In addition, in each year it is common for a number of insurers to make relatively subtle changes to their definitions of claim statistics. In the aggregate, these lead to distortions when comparing the market studies between different years.
- Not all contributors are able to supply data to support every claim statistic in each study. There are generally (but not always)
 improvements in the availability of data from year to year, and as such, the results of the most recent study will be based upon data from
 an increased proportion of the contributor companies (and not just new contributors). Again, this introduces a material distortion into any
 analysis which attempts to compare the results across different studies.
- It is reasonably common for insurers to restate the claims statistics of prior accident years (and prior periods of development), particularly
 in the case where portfolios (including movements on prior year liabilities) have been acquired or disposed of by the contributor(s) in
 question. Other reasons for such changes can be changes in the availability of granular data pertaining to (potentially large) segments of
 portfolios (such as in the case where data is provided by bordereaux rather than being integrated in insurer administration systems) or in
 some cases changes in the mapping of data to classes.
- For this reason, we would recommend that if the user of the research wishes to understand how trends have evolved over time, then they should focus on looking at trends by accident year within the latest study, rather than attempting to compare the results across studies. This is particularly true this year where there has been more movement in the data between studies than in previous years.
- Likewise we do not consider statistically valid any back engineering of individual contributors' contributions.





1. Market Environment

Professional support

Shaping the future

Norking Parties ing north

Enterprise and risk

Learned society

opportunity

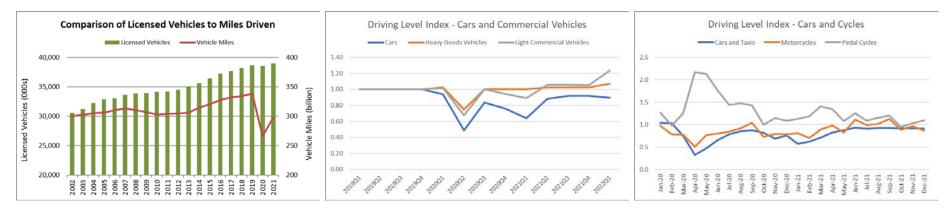
International profile

S610000

- **2. Industry Statistics**
 - **AD**
 - TPPD
 - Capped TPI
 - Excess TPI
- 3. Conclusions
- 4. Appendix

SPONSOISHIP

Market environment Impact of COVID-19 pandemic on driving levels



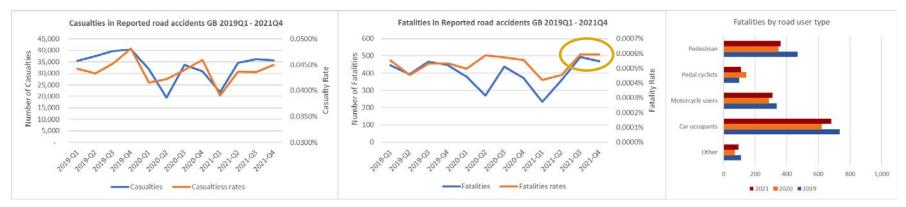
- The number of licenced vehicles increased by 27% between 2002 and 2019 whilst the total number of vehicle miles increased by 19%.
- The average miles per vehicle has been steadily reducing since 2002, perhaps related to more households having more than one vehicle.
- The total number of vehicle miles driven reduced during the last recession, so a similar effect might be seen in 2023 due to economic challenges.
- There was a material reduction in vehicle miles driven during the COVID-19 pandemic, particularly during 2020Q2 and 2021Q1.
- Car miles reduced more than commercial vehicle miles, and car miles remain below pre-pandemic levels.
- There was a significant increase to pedal cycle miles in 2020, with 2021 continuing to show more pedal cycle miles, particularly outside of the winter months.



Indices presented are relative to the equivalent month or quarter in 2019

22 November 2022

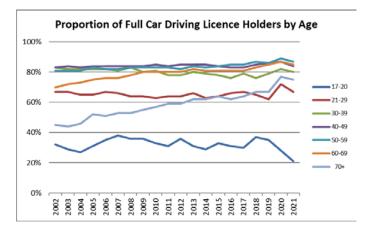
Market environment Casualty, Fatality and Mileage Statistics (per Vehicle Mile)

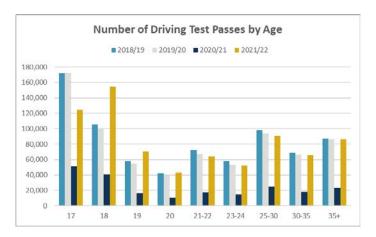


- There were 1,558 reported road deaths in 2021, an increase of 98 deaths (or 7%) from 2020, but a 194 reduction (or 11%) compared to 2019. There were also 128,209 casualties in reported road traffic accidents, an 11% increase from 2020 but a decrease of 16% compared to 2019.
- The vehicle miles driven was 12% higher in 2021 than in 2020, therefore 2021 saw the rate of casualties and fatalities per mile decrease. The reduction in fatalities per mile was driven by 2021 Q1 and 2021 Q2. 2021 Q3 and 2021 Q4 rates were 3.6% and 6.7% higher than 2020 Q3 and 2020 Q4.
- All road user types saw an increase in the number of fatalities in 2021 with the exception of pedal cyclists which saw a 21% reduction in fatalities.



Market environment Changing driving habits





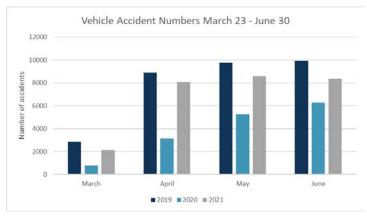
- National Travel Survey data was used to provide a view of the trends in the proportion of full car driving licences held.
- The proportion of those aged 70+ with a full car licence had been steadily increasing prior to the COVID-19 pandemic, with an apparent uptick in 2020.
- The proportion of 17-20 year olds with a full car licence shows a significant reduction following several suspensions to driving tests during the pandemic.
- Driving test data shows that the number of 17 year olds passing their test remains significantly lower in the year to March 2021



2022 Market Environment

Driving habits and the reduction of Rush Hour traffic?

-	Distribution of ac	cidents meas	sured betwee	en March 23 -	June 30	
	V	Veekday	١			
	2019	2020	2021	2019	2020	2021
12am-8am	7.6%	7.3%	7.1%	3.7%	2.6%	2.5%
8am-9am	5.9%	3.0%	5.5%	0.7%	0.5%	0.6%
9am-10am	3.6%	2.7%	3.4%	0.9%	0.8%	0.9%
10am-11am	3.2%	3.2%	2.9%	1.3%	1.1%	1.3%
11am-12pm	3.5%	4.0%	3.8%	1.8%	1.5%	1.7%
12pm-1pm	4.0%	4.7%	4.4%	2.1%	1.7%	2.0%
1pm-2pm	4.4%	5.3%	4.6%	2.1%	2.0%	2.1%
2pm-3pm	4.3%	5.5%	5.1%	1.9%	2.1%	1.9%
3pm-4pm	6.2%	6.1%	7.4%	2.0%	2.1%	2.0%
4pm-5pm	6.7%	6.9%	6.8%	1.8%	2.2%	2.0%
5pm-6pm	6.9%	6.6%	6.9%	1.7%	1.9%	1.9%
6pm-7pm	5.2%	5.9%	5.2%	1.7%	1.8%	1.7%
7pm-12am	11.7%	13.1%	11.2%	5.0%	5.2%	5.1%



This graphic shows the distribution of accidents during the first lockdown relative to the same period in 2019 and 2021. (The first lockdown was announced on 23rd March 2020, with most businesses allowed to reopen in early July.)

Key observations are:

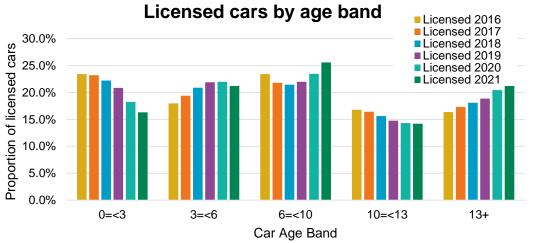
- Weekday accident distributions in 2021 largely lay between the 2019 and 2020 distributions, but there is a noticeable increase between 3-4pm, perhaps linked to the school run.
- Weekend accidents have broadly remained similar in distribution throughout the pandemic.
- Accident numbers in 2021 were much closer to 2019 levels, compared to the start of the pandemic in 2020.
- The longer term impact of the pandemic in the 'new normal' is still unknown, though it appears that accident distributions are returning to pre-pandemic patterns.



2022 Market Environment

Car park

- Car sales are falling, resulting in an increasing average licensed vehicle age.
- In 2021 the total number of new car registrations remained similarly low to 2020 (which experienced a 29% fall from 2019).
- Reduction in rate of newer cars may impact improvements to accident frequency.
- ULEV (Ultra Low Emission Vehicles) form an increasing proportion of new registrations. In 2021, 18% of new car registrations were ULEV, nearing twice that of the previous year.
- ULEV represent a small proportion of total cars on the road. However, they have increased as a proportion of total cars, from 0.3% in 2016 to 2.1% in 2021.
- The new petrol and diesel car sale ban comes into force in 2030.

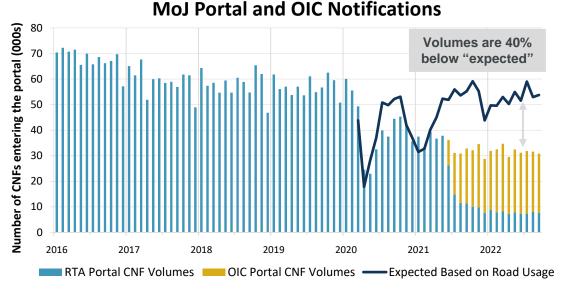


	2016	2017	2018	2019	2020	2021	Q2 2022
Total cars registered in							
year (m)	2.7	2.6	2.4	2.3	1.7	1.7	0.8
% of which are ULEV cars	1.5%	2.0%	2.5%	3.1%	10.3%	17.8%	20.0%
Total registered cars (m)	31.8	32.2	32.5	32.9	32.7	32.9	33.1
% of which are ULEV cars	0.3%	0.4%	0.6%	0.8%	1.2%	2.1%	2.6%



Market Environment MoJ Portal and OIC Notifications

- RTA Claim Notification Forms (CNFs) broadly followed "expected" patterns during COVID-19 lockdowns (based on 2019 RTA volumes following road usage trends, blue line), up until the OIC portal went live in June 2021.
- Since the inception of the OIC portal, RTA volumes have dropped substantially, with OIC notifications building up throughout the second half of 2021.
- Combining both the RTA and OIC portal CNFs, the overall volume remains 45% below 2019 levels due to the impact of the Whiplash Reforms and "New Normal" frequency levels following the pandemic.
- The number of notifications has departed from "expected", with around **40% lower volumes than expected** on average. It is uncertain as to the extent to which this is indicative of a genuine fall in frequency following the Reforms versus potential incubation of cases that are yet to be submitted.





Market environment

Whiplash Reforms

Details of Reforms

- Fixed tariff based costs
- Ban on pre-medical settlement offers
- Increased Small Claims Track limit
- Introduction of simplified online process: Official Injury Claim Portal (OICP)
- Implemented 31 May 2021

Data from OICP 31/05/21 to 30/09/22

- Claims submitted are around 23k per month with 350k in total since launch; 54k of these cases are now settled
- Although the OICP was designed to be simple, only 9% of claims are from unrepresented claimants;
- 30% of claims are for tariff only with 67% for mixed tariff; there has been a modest increase in the proportion of mixed tariff over the reporting periods.
- OICP acknowledges that "a more settled picture is unlikely to emerge for some time yet"

per policy Consultants' estimates in 2022 vary between £10-£25 per policy

2019 MoJ impact assessment: £1.3bn saving

for insurance industry which equates to c £33

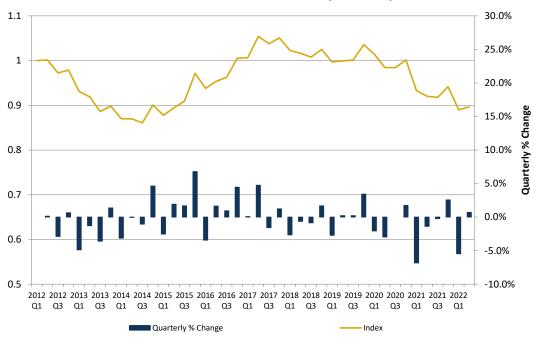
Estimates of savings

	Represented	Unrepresented
Settlement Rate	10%	33%
Uplift for exceptional injury	23%	43%
Average Settlement - Tariff	£693	£691
Average Settlement – non-Tariff	£891	£925
Average Settlement – Tariff uplift	£214	£153



Market Environment

Premium Rates



ABI Premium Tracker (exc IPT)

- Premiums fell from £416 in 2020 to £387 in 2021 exc IPT.
- Premium rates have fallen again in 2022 with premiums in 2022 Q2 2.6% lower than 2021 Q2.
- Current premium rates approximately the same as in 2015 H1.
- On an earned basis, premiums in 2021 were 4.7% lower than in 2020.



Market environment

Market Commentary

ABI: Higher costs for insurers :

- Continued global shortage of semiconductors ...impacts on vehicle repair times
- Rising used car prices
- More expensive repairs, coupled with rises in the costs of raw materials.
- A shortage of skilled labour in the vehicle repair sector.

EY: UK motor insurers achieve profit for second year running in 2021, but losses are predicted in 2022 and 2023.

Inflation, already growing due to supply chain issues affected by COVID-19, is expected to climb even higher in 2022 as material, labour and energy price rises feed through into claims costs.

Premiums set for small 2% rise in 2022 but predicted to rise by 18% next year due to inflation.

Key Themes

- Higher claims inflation due to used car prices, repair costs, and settlement delays.
- Evidence of motor rates hardening as insurers increase prices in line with or ahead of inflation.
- Most insurers noted impacts on damage claims. Injury claims less impacted, but potential for wage inflation to impact injury claims.

Estimate of claims inflation for H1 2022 at ~11%.

 Combination of continued high repair inflation, including labour shortages, and high used vehicle prices.

Currently **no major surprises in large BI settlements**. Increase in **wage inflation** likely to impact the **cost of care**.

...increased new business & renewal prices by ~16% since March to account for inflation.

• Used car prices increased c.30% in Q2.

- Retail motor rating +12-13pp YTD.
- Market wide pressure on repairs
- Claims inflation has been ahead of our pricing assumptions...
- estimate claims inflation in 2022 of around 10%.
- claims frequency to remain broadly flat and supply chain disruption to last into 2023.

... [Loss Ratios] increase on prior year being driven by a reduction in COVID-19 related effects and elevated claims inflation. The latter is driven by increasing general inflation across all claim types including repairs, total losses, theft, third party costs and bodily injury. with motor now experiencing claims inflation of 10-12%.

The market environment remains complex with high claims inflation and continued unsustainably weak pricing evident in the market.





1. Market Environment

itse stip leaderstip hit heetings and parties arch in the stimp of the second community of the second

Professional support

Shaping the future

Enterprise and risk

Learned society

opportunity

International profile

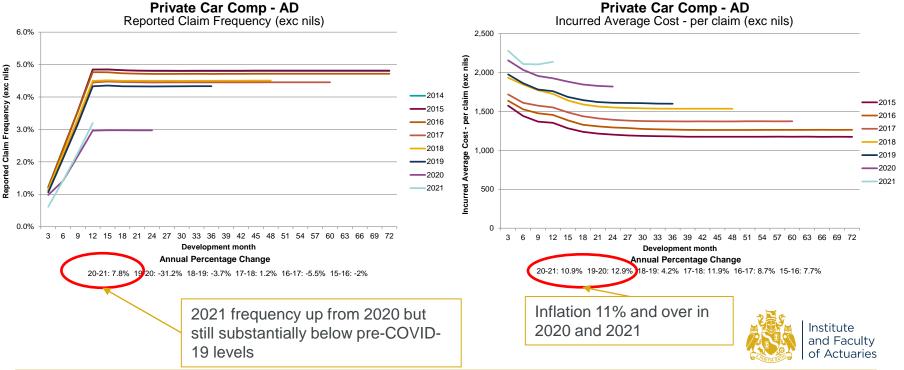
3610 notice

2. Industry Statistics

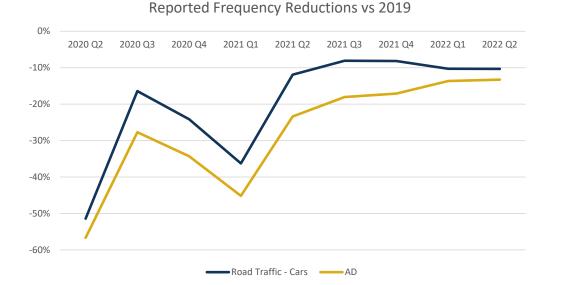
- **AD**
- TPPD
- Capped TPI
- Excess TPI
- 3. Conclusions
- 4. Appendix

SPOTSOTSHIP

Industry Statistics - AD Frequency and Severity YE 2021 Private Car Comp - AD



Industry Statistics - AD Frequency HY2022



Accident Quarter	Change in Car Traffic	Change in AD Frequency
2020 Q2	-51.4%	-56.7%
2020 Q3	-16.4%	-27.7%
2020 Q4	-24.2%	-34.3%
2021 Q1	-36.3%	-45.2%
2021 Q2	-11.9%	-23.4%
2021 Q3	-8.1%	-18.1%
2021 Q4	-8.2%	-17.1%
2022 Q1	-10.3%	-13.6%
2022 Q2	-10.3%	-13.3%

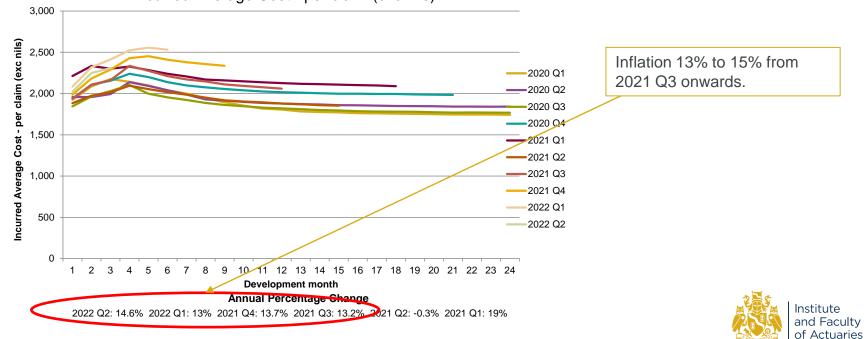
 Reduction in AD frequency around 10% larger than the reduction in car traffic volumes in 2020 and 2021. In 2022 H1 gap between frequency and traffic volumes has reduced.



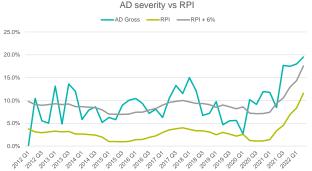
Industry Statistics - AD

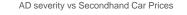
Severity HY2022

Private Car Comp - AD Incurred Average Cost - per claim (exc nils)

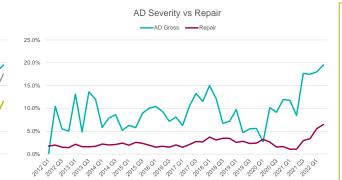


Industry Statistics - AD Severity HY2022









Methodology

Projection of AD Gross severity excluding nils severity triangle.

Compare accident quarter inflation rates (e.g. 2021 Q4 vs 2020 Q4) against RPI, 'Secondhand Car Prices – CPI' and 'Repair – CPI Vehicle Transport and Repair'.

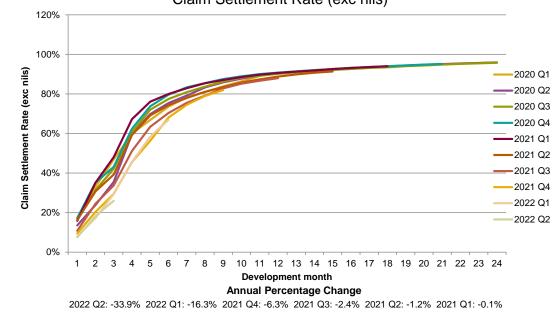
A limitation of the analysis is comparing an accident period inflation rate to a calendar period economic inflation measure.

- Projections of AD Gross severity have inflation increasing significantly in 2021 Q3 up to around 19% pa in 2022 H1.
- There is a 57% correlation between RPI and claims inflation with claims inflation on average 6% higher than RPI from 2012 to 2022 H1.
- Claims inflation in 2020 Q2 to 2021 Q1 was higher than RPI + 6% due to impact of COVID-19. Inflation rates in last four quarters are also considerably above RPI + 6%.
- Secondhand Car Price inflation has a 69% correlation and Repair inflation a 50% correlation with claims inflation.



Industry Statistics - AD Settlement Rate HY2022

Private Car Comp - AD Claim Settlement Rate (exc nils)



Settlement rates getting considerably slower from 2021 Q3 onwards with levels of slowdown increasing in 2022.



Industry Statistics - AD Projected AD Results YE2021

Designed all the state AD Desults for Drivets Car Comprehensive

Accident Period	Earned Exposure (millions of vehicle years)	Ultimate AD Claim Frequency (Non-nil claims per million	Ultimate AD Gross Claim Severity (£)	Ultimate AD Recovery Rate %		Ultimate AD Net Burning Cost (£)			Year-on-Year Change in AD Recovery Rate (% pa)	Year-on-Year Change in AD Net Severity (% pa)	Year-on-Year Change in AD Net Burning Cost (% pa)	£12 increase in burning cost in 2021 but still below 2019
	venicie years)	vehicle years)										levels.
2014	16.4	49,148	1,888	43.1%	,	52.8	0.2%			4.5%	4.7%	
2015	17.0	49,352	2,018	42.2%		57.6	0.4%			8.6%	9.0%	
2016	18.0	48,246	2,229	43.2%	1,266	61.1	-2.2%	10.4%	2.5%	8.4%	6.0%	
2017	18.7	45,423	2,454	43.7%	1,381	62.7	-5.9%	10.1%	1.2%	9.1%	2.7%	2020 and 2021
2018	19.1	45,817	2,680	42.8%	1,534	70.3	0.9%	9.2%	-2.2%	11.1%	12.1%	inflation at around
2019	19.1	44,012	2,847	43.9%	1,599	70.4	-3.9%	6.2%	2.6%	4.2%	0.1%	initiation at around
2020	18.8	30,254	3,096	41.6%	1,807	54.7	-31.3%	8.7%	-5.0%	13.0%	-22.3%	13%.
2021	18.2	32,490	3,441	40.7%	2,039	66.2	7.4%	11.1%	-2.2%	12.8%	21.2%	1070.
Average (20	14 to 2021)						-5.7%	9.0%	-0.8%	9.6%	3.3%	
Average (20	16 to 2021)						-7.6%	9.1%	-1.2%	10.0%	1.6%	
Average (20	18 to 2021)						-10.8%	8.7%	-1.6%	9.9%	-2.0%	

 Note – No adjustments have been made for potential distortions / impact of COVID-19 or claims inflation on claims experience.



Industry Statistics - AD Projected AD Results YE2021

Projected Ultimate AD Results for Private Car Comprehensi	ve
---	----

Accident Period	Earned Exposure	Ultimate AD Claim Frequency	Ultimate AD Gross Claim Severity	Ultimate AD Recovery Rate	Ultimate AD Net Claim Severity	Ultimate AD Net Burning Cost	Year-on-Year Change in Frequency	Year-on-Year Change in AD Gross Severity	Year-on-Year Change in AD Recovery Rate	Year-on-Year Change in AD Net Severity	Year-on-Year Change in AD Net Burning Cost
	(millions of vehicle years)	(Non-nil claims per million vehicle years)	(£)	%	(£)	(£)	(% pa)	(% pa)	(% pa)	(% pa)	(% pa)
2019 Q1	4.7	44,133	2,916	46.3%	1,565	69.1	-8.2%	8.5%	11.2%	-0.2%	-8.3%
2019 Q2	4.8	41,626	2,747	43.6%	1,550	64.5	-6.2%	5.0%	1.3%	4.0%	-2.5%
2019 Q3	4.8	42,552	2,780	44.2%	1,552	66.1	-2.7%	5.6%	0.6%	5.0%	2.2%
2019 Q4	4.8	47,755	2,933	41.6%	1,714	81.8	1.3%	5.7%	-2.4%	7.6%	9.0%
2020 Q1	4.7	39,948	3,032	42.9%	1,730	69.1	-9.5%	4.0%	-7.3%	10.6%	0.1%
2020 Q2	4.7	17,958	3,023	40.0%	1,814	32.6	-56.9%	10.1%	-8.2%	17.0%	-49.5%
2020 Q3	4.7	31,213	3,047	42.3%	1,757	54.8	-26.6%	9.6%	-4.1%	13.1%	-17.0%/
2020 Q4	4.7	31,737	3,266	40.3%	1,948	61.8	-33.5%	11.4%	-3.0%	13.7%	-24.4%
2021 Q1	4.6	25,245	3,363	38.9%	2,056	51.9	-36.8%	10.9%	-9.5%	18.8%	-24.9%
2021 Q2	4.6	31,538	3,225	42.7%	1,847	58.3	75.6%	6.7%	6.8%	1.8%	78.8%
2021 Q3	4.5	34,373	3,479	42.0%	2,017	69.3	10.1%	14.2%	-0.8%	14.8%	26.4%
2021 Q4	4.4	39,216	3,642	39.3%	2,210	86.7	23.6%	11.5%	-2.5%	13.4%	40.2%

High inflation in 2021 H2.

 Note – No adjustments have been made for potential distortions / impact of COVID-19 or claims inflation on claims experience.





1. Market Environment

Professional support

Shaping the future

Networking

Working parties

Volunteering volu

Enterprise and risk

Learned society

Opportunity

International profile

3410 northing

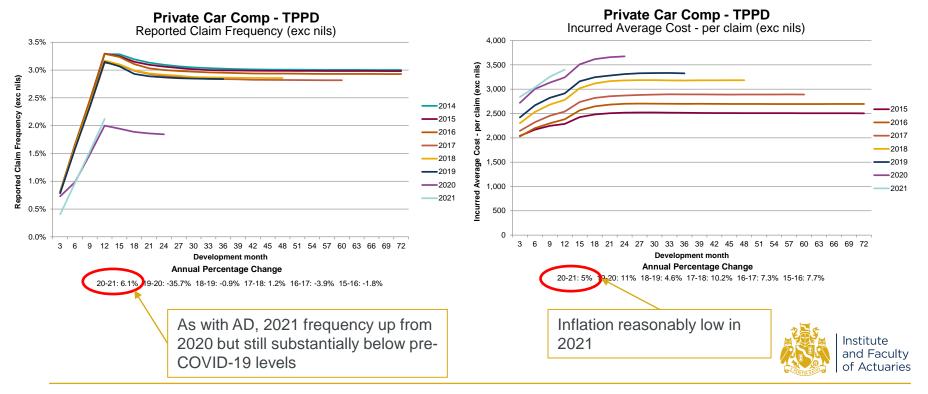
2. Industry Statistics

- **AD**
- TPPD
- Capped TPI
- Excess TPI
- 3. Conclusions
- 4. Appendix 22 November 2022 Community and Meetings

APertise

sponsorship

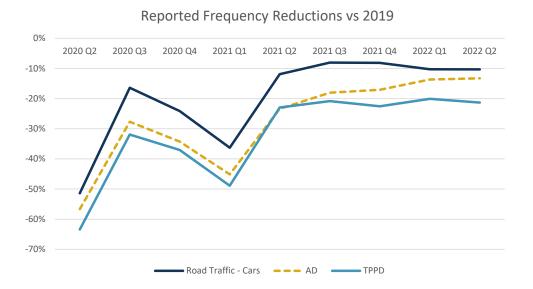
Industry Statistics - TPPD Frequency and Severity YE 2021



22 November 2022

Industry Statistics - TPPD Frequency HY2022

•

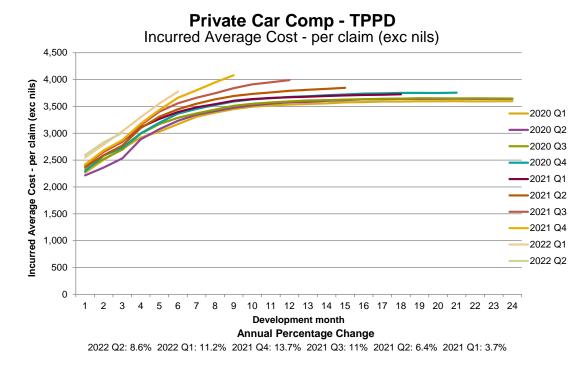


Accident Quarter	Change in Car Traffic	Change in TPPD Frequency
2020 Q2	-51.4%	-63.4%
2020 Q3	-16.4%	-31.9%
2020 Q4	-24.2%	-37.1%
2021 Q1	-36.3%	-48.9%
2021 Q2	-11.9%	-22.9%
2021 Q3	-8.1%	-20.8%
2021 Q4	-8.2%	-22.6%
2022 Q1	-10.3%	-20.1%
2022 Q2	-10.3%	-21.3%

Reduction in TPPD frequency larger than for AD and around 16% larger than the reduction in car traffic volumes. Frequencies around 20% lower than for 2019 for 2021 Q2 to 2022 Q2.



Industry Statistics - TPPD Severity HY2022



Severity inflation increases during 2021 to 13.7% in Q4. Inflation in 2022 9% to 11%. Some evidence of severity 'fanning out' or increasing as an accident period develops.

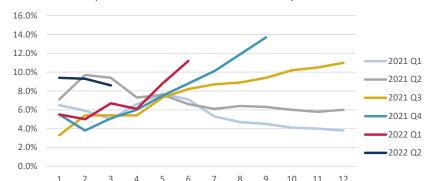


Industry Statistics - TPPD Severity HY2022

Private Car Comp - TPPD Incurred Average Cost - per claim (exc nils) 4.500 11.0% ncurred Average Cost - per claim (exc nils) 4.000 9.4% 8.2% 3,500 2020 Q3 5.4% 2021 Q3 3,000 2,500 2,000 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 Development month **Annual Percentage Change** 2022 Q2: 8.6% 2022 Q1: 11.2% 2021 Q4: 13.7% 2021 Q3: 11% 2021 Q2: 6.4% 2021 Q1: 3.7%

Taking 2021 Q3 as an example we can see that the inflation rate started 5.4% after 3 months of development but increased to 11.0% at 12 months development.

Overall 2021 accident year incurred inflation increased from 6% as at YE 2021 to 9% at HY 2022.

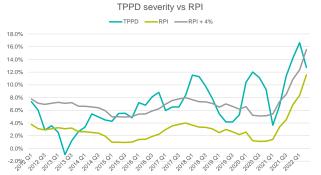


Development of TPPD Incurred Severity Inflation Rate

The graph shows the increasing inflation trends over development period can be seen for accident periods 2021 Q3 onwards.



Industry Statistics - TPPD Severity HY2022









Methodology

Projection of TPPD severity excluding nils severity triangle.

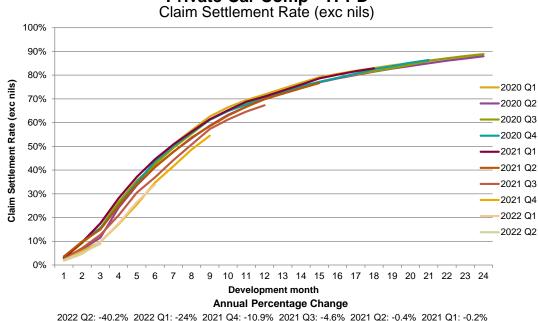
Compare accident quarter inflation rates (e.g. 2021 Q4 vs 2020 Q4) against RPI, 'Secondhand Car Prices – CPI' and 'Repair – CPI Vehicle Transport and Repair'.

A limitation of the analysis is comparing an accident period inflation rate to a calendar period economic inflation measure.

- Projections of TPPD severity have inflation increasing significantly in 2021 Q3 up to around 15% pa in 2022 H1.
- There is a 49% correlation between RPI and claims inflation with claims inflation on average 4% higher than RPI from 2012 to 2022 H1.
- Claims inflation was significantly higher than RPI + 4% for accident periods 2018 Q1 to 2018 Q3 and 2020 Q1 to 2020 Q4.
- Secondhand Car Price inflation has a 69% correlation and Repair inflation a 65% correlation with claims inflation.



Industry Statistics - TPPD Settlement Rate HY2022



Private Car Comp - TPPD Claim Settlement Rate (exc nils)

As with AD, increasing levels of slowdown from 2021 Q3 onwards.



Projected	TPPD	Results	YE2021

Industry Statistics - TPPD

Projected Ultimate TPPD Results for Private Car Comprehensive

Accident Period	Earned Exposure	Ultimate TPPD Claim Frequency	Ultimate TPPD Claim Severity	Ultimate TPPD Burning Cost	Year-on-Year Change in Frequency	Year-on-Year Change in Severity	Year-on-Year Change in Burning Cost
	(millions of vehicle years)	(Non-nil claims per million vehicle years)	(£)	(£)	(% pa)	(% pa)	(% pa)
2014	17.0	30,458	2,391	72.8	0.9%	4.9%	5.9%
2014	17.0	30,268	,	72.8	-0.6%	4.9% 5.4%	4.7%
2016	18.6	29,740	,	80.6	-1.7%	7.6%	5.7%
2017	19.1	28,573	,	83.0	-3.9%	7.1%	2.9%
2018	19.5	28,904	,	92.4	1.2%	10.0%	11.3%
2019	19.3	28,559	,	95.2	-1.2%	4.3%	3.1%
2020	19.0	18,366	,	68.0	-35.7%	11.0%	-28.6%
2021	18.4	19,432	3,945	76.7	5.8%	6.6%	12.7%
Average (2014 to 2021)					-6.2%	7.4%	0.7%
Average (2016 to 2021)					-8.2%	7.8%	-1.0%
Average (2018 to 2021)					-12.4%	7.3%	-6.0%

Note - No adjustments have been made for potential distortions / impact of COVID-19 or claims inflation on claims experience.

TPPD burning cost increased by £9 in 2021, but still £19 below 2019 levels.

2021 severity of 6.6% is slightly below the longterm average. This doesn't reflect the increase in inflation rate on 2021 accidents observed during the first half of 2022



Industry Statistics - TPPD Projected TPPD Results YE2021

Accident Period	Earned Exposure	Ultimate TPPD Claim Frequency	Ultimate TPPD Claim Severity	Ultimate TPPD Burning Cost	Year-on-Year Change in Frequency	Year-on-Year Change in Severity	Year-on-Year Change in Burning Cost
	(millions of vehicle years)	(Non-nil claims per million vehicle years)	(£)	(£)	(% pa)	(% pa)	(% pa)
2019 Q1	4.8	27,860	3,293	91.7	-4.1%	5.3%	1.0%
2019 Q2	4.8	27,684	3,261	90.3	-2.3%	3.4%	1.0%
2019 Q3	4.9	27,976	3,306	92.5	0.1%	3.7%	3.7%
2019 Q4	4.8	30,722	3,462	106.4	1.5%	4.9%	6.5%
2020 Q1	4.8	24,858	3,622	90.0	-10.8%	10.0%	-1.9%
2020 Q2	4.7	10,060	3,692	37.1	-63.7%	13.2%	-58.9%
2020 Q3	4.8	19,020	3,712	70.6	-32.0%	12.3%	-23.7%
2020 Q4	4.8	19,418	3,798	73.7	-36.8%	9.7%	-30.7%
2021 Q1	4.7	14,092	3,794	53.5	-43.3%	4.8%	-40.6%
2021 Q2	4.7	20,009	3,879	77.6	98.9%	5.0%	108.9%
2021 Q3	4.6	21,208	3,984	84.5	11.5%	7.3%	19.7%
2021 Q4	4.4	22,614	4,067	92.0	16.5%	7.1%	24.7%

Projected Ultimate TPPD Results for Private Car Comprehensive

 Note – No adjustments have been made for potential distortions / impact of COVID-19 or claims inflation on claims experience.





1. Market Environment

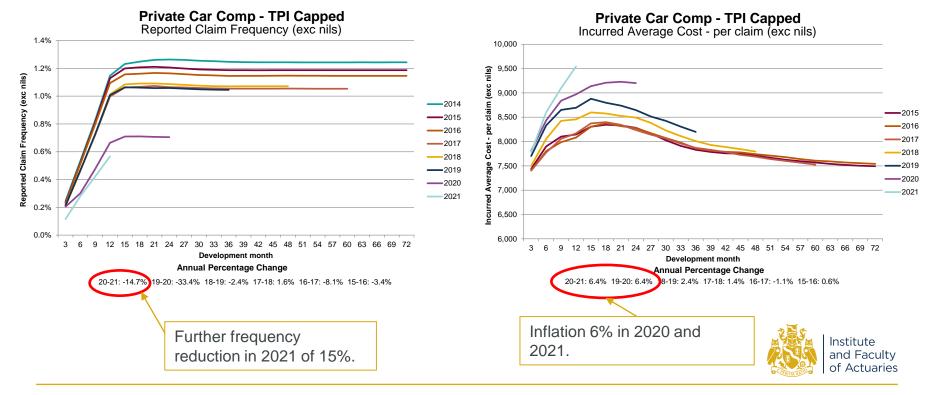
2. Industry Statistics

- AD
- TPPD
- Capped TPI
- Excess TPI

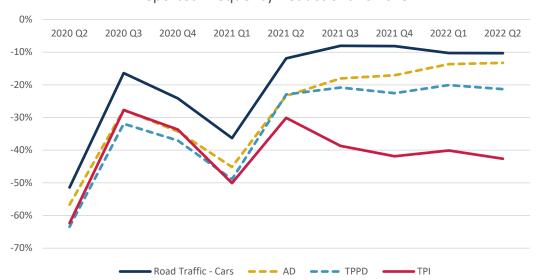
3. Conclusions4. Appendix



Industry Statistics - Capped TPI Frequency and Severity YE 2021



Industry Statistics - Capped TPI Frequency



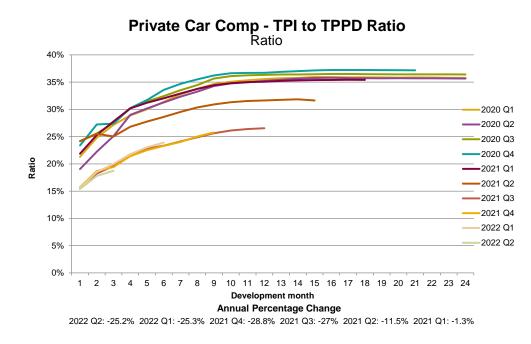
Accident Quarter	Change in Car Traffic	Change in TPI Frequency
2020 Q2	-51.4%	-62.3%
2020 Q3	-16.4%	-27.7%
2020 Q4	-24.2%	-33.7%
2021 Q1	-36.3%	-50.1%
2021 Q2	-11.9%	-30.1%
2021 Q3	-8.1%	-38.7%
2021 Q4	-8.2%	-41.9%
2022 Q1	-10.3%	-40.1%
2022 Q2	-10.3%	-42.6%

Reported Frequency Reductions vs 2019

• Reduction in Capped TPI frequency from 2021 Q3 to 2022 Q2 is 39% to 43%. This is reasonably consistent with the 45% reduction in combined claim notifications from the MoJ and OIC portals.



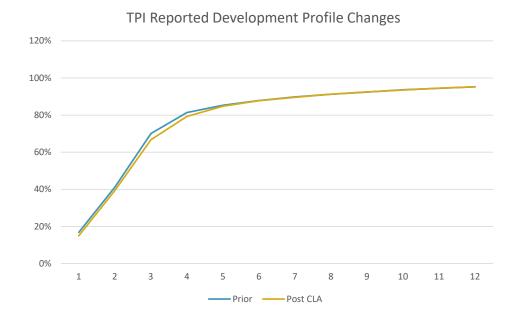
Industry Statistics - Capped TPI TPI to TPPD Ratio HY2022



• Post Whiplash Reforms TPI to TPPD ratio has reduced by 25% to 29%.



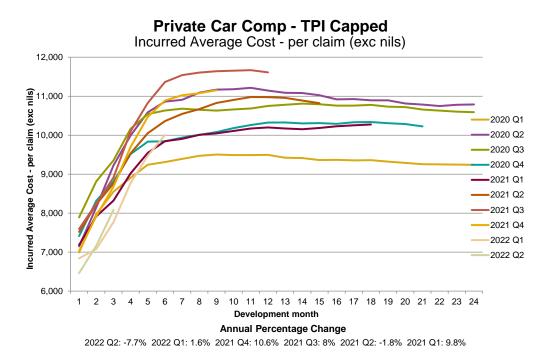
Industry Statistics - Capped TPI TPI Frequency HY2022



 Evidence of slightly slower reporting pattern post Whiplash Reforms (or "CLA") for first six months of development.



Industry Statistics - Capped TPI Severity HY2022

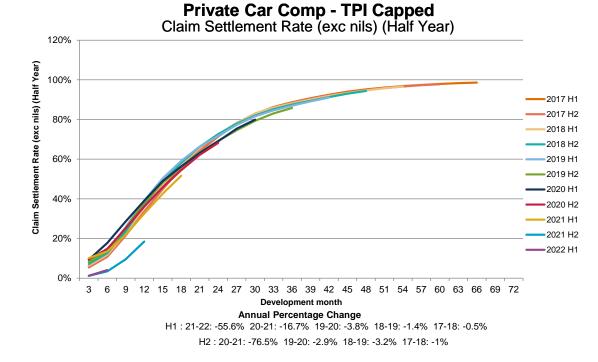


No clear pattern in severity by quarter or obvious impact of CLA on incurred severity.

2022 severity appears to start lower and then increase more than prior periods.



Industry Statistics – Capped TPI Settlement Rate HY2022



Slowdown in settlement rates during 2020 persist in 2021. Significant reduction in settlement rate post CLA.



Industry Statistics - Capped TPI Projected Capped TPI Results - Methodology

- As with previous iterations of the TPWP we have analysed Capped TPI by bands. This year we have split to £1k to £10k band into £1 to £5k and £5k to £10k. We have used an indexation of 1% p.a. The exception is for the 100k limit which is still indexed at 7% p.a. The bands are defined as below in 2010 accident year years and indexed at 1% p.a.
 - $\pounds 0$ to $\pounds 1k$ ($\pounds 1.1k$ in 2021 accident year)
 - £1k to £5k (£6k in 2021 accident year)
 - £5k to £10k (£11k in 2021 accident year)
 - £10k to £20k (£22k in 2021 accident year)
 - £20k to £50k (£56k in 2021 accident year)
 - £50k to £100k (£210k in 2021 accident year)
- We have maintained the same band definitions as previously for Excess TPI.



Industry Statistics - Capped TPI

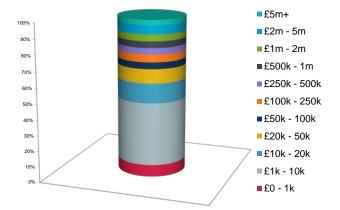
Projected Capped TPI Results - Methodology

- When presenting results of a layered analysis, there is a choice in how to partition the claim amounts:
 - Type 1: In which claims that exhaust the width of a particular layer contribute an amount equal to the layer's width
 - Type 2: In which claims that exhaust the width of a particular layer are removed from that layer, and the full claim amounts "from ground up" ("FGU") are allocated to the next layer up



Industry Statistics - Capped TPI Projected Capped TPI Results - Methodology

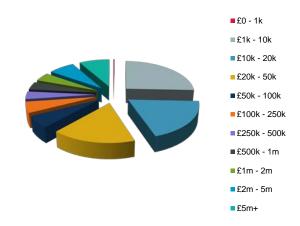
- Using the Type 1 definition, a claim of £15,000 from accident year 2010 contributes:
 - £1k to Layer 1 (0 £1k)
 - £9k to Layer 2 (£1k £10k)
 - £5k to Layer 3 (£10k £20k)
 - £0 to all other layers
- The chart shows the projected total TPI burning cost split by layer using Type 1 definition.
- In this presentation, any charts which use this definition will be accompanied with a version of this graphic. Shading represents the portion(s) of the claim that is relevant to the given statistic.





Industry Statistics - Capped TPI Projected Capped TPI Results - Methodology

- Using the Type 2 definition, a claim of £15,000 from accident year 2010 contributes:
 - £15k to Layer 3 (£10k £20k)
 - £0 to all other layers
- The chart shows the projected total TPI burning cost split by layer using Type 2 definition.
- In this presentation, any charts which use this definition will be accompanied with a version of this graphic. Shading represents the portion(s) of the claim that is relevant to the given statistic.





Industry Statistics - Capped TPI Projected Capped TPI Results YE2021

Projected Illtimate Canned TPI Pesults for Private Car Comprehensive

Accident Period	Earned	Ultimate Capped TPI	Ultimate Capped TPI	Ultimate Capped TPI	Year-on-Year Change in	Year-on-Year Change in	Year-on-Year Change in	[
	Exposure	Claim Frequency	Claim Severity	Burning Cost	Frequency	Severity	Burning Cost		Further £6 reduction in
	(millions of vehicle years)	(Non-nil claims per million	(£)	(£)	(% pa)	(% pa)	(% pa)		burning cost in 2021.
	venicie yearsj	vehicle years)							
2012	8.9	17,467	8,773	153.2	2.9%	2.9%	5.9%		
2013	11.5	12,254	8,215	100.7	-29.8%	-6.4%	-34.3%		
2014	12.1	12,057	8,129	98.0	-1.6%	-1.0%	-2.6%		2021 fraguanay fall
2015	12.8	11,315	7,993	90.4	-6.2%	-1.7%	-7.7%		2021 frequency fell
2016	15.8	10,363	,	85.4	-8.4%	3.1%	-5.6%		13.5%.
2017	18.2	9,374	,	76.5	-9.5%	-0.9%	-10.4%		
2018	18.6	9,654	,	79.5	3.0%		3.9%		No CLA severity
2019	18.5	9,563	,	79.8	-0.9%	1.4%	0.4%	I	benefit seen in data to
2020	18.3	6,379	,	56.6	-33.3%	6.2%	-29.1%		
2021	18.2	5,516	9,153	50.5	-13.5%	3.2%	-10.7%		date.
verage (2014 to 2021)					-10.6%	1.7%	-9.0%]	
verage (2016 to 2021)					-11.8%	2.1%	-10.0%		
verage (2018 to 2021)					-17.0%	3.6%	-14.0%	J	

Projections make no allowance for any other distortions in claim developments or experience such as more widespread COVID-19 impact, changes due to CLA or recent economic inflationary environment. Estimates of the impact of CLA will be highly dependent on the case reserve changes introduced by companies following the reforms.



Industry Statistics - Capped TPI Projected Capped TPI Results YE2021

Accident Period	Earned Exposure	Ultimate Capped TPI Claim Frequency	Ultimate Capped TPI Claim Severity	Ultimate Capped TPI Burning Cost	Year-on-Year Change in Frequency	Year-on-Year Change in Severity	Year-on-Year Change in Burning Cost
	(millions of vehicle years)	(Non-nil claims per million vehicle years)	(£)	(£)	(% pa)	(% pa)	(% pa)
2019 Q1	4.6	9,591	8,187	78.5	-0.3%	3.3%	2.9%
2019 Q2	4.6	9,129	8,299	75.8	2.6%	2.5%	5.1%
2019 Q3	4.7	9,163	8,577	78.6	2.6%	1.3%	3.9%
2019 Q4	4.6	10,375	8,339	86.5	3.4%	2.1%	5.5%
2020 Q1	4.5	8,501	8,146	69.2	-11.4%	-0.5%	-11.8%
2020 Q2	4.5	3,410	9,398	32.0	-62.7%	13.2%	-57.7%
2020 Q3	4.6	6,639	9,501	63.1	-27.6 %	10.8%	-19.7%
2020 Q4	4.6	6,924	8,885	61.5	-33.3%	6.5%	-28.9%
2021 Q1	4.6	4,821	8,657	41.7	-43.3%	6.3%	-39.7%
2021 Q2	4.6	6,187	9,130	56.5	81.5%	-2.9%	76.3%
2021 Q3	4.6	5,391	9,574	51.6	-18.8%	0.8%	-18.2%
2021 Q4	4.4	5,665	9,200	52.1	-18.2%	3.5%	-15.3%

Projected Ultimate Capped TPI Results for Private Car Comprehensive

Large reduction in frequency post CLA. TPI to TPPD ratio has reduced 24%.

No CLA severity benefit seen in data to date.

Burning cost in 2021 H2 is around £31 less than in 2019 H2. Adjusting for reductions in TPPD frequency over this time suggests a CLA benefit of £12 per policy.



Industry Statistics - Capped TPI Projected Capped TPI Results

TPI Band	Change in Freq vs 2019		
£0 - 1k	-29%		
£1k - 5k	-45%		
£5k - 10k	-50%		
£10k - 20k	-53%		
£20k - 50k	-45%		
£50k to £100k	-22%		

- Question: where are the reductions in TPI claims frequency coming from?
- The table shows the change in frequency for 2021 H2 accident periods vs 2019 H2 accident periods.
- Bands £1k to £5k, £5k to £10k, £10k to £20k and £20k to £50k are all seeing similar reductions in frequency.
- Bands £0 to £1k and £50k to £100k are seeing less of a reduction.
- Its somewhat surprising that the frequency above £10k appears to have been impacted by the reforms. This may be a timing issue with case reserves not reflecting the full impact of the reforms and the significant slowdown in settlement rate meaning payments are low so far.





1. Market Environment

² November 2022 On Sessi Following

Professional support

Shaping the future

Working Parties ing Ind

Enterprise and risk

Learned society

Opportunity

International profile

471000tin

2. Industry Statistics

- **AD**

Sponsorship

- TPPD
- Capped TPI
- Excess TPI

3. Conclusions 4. Appendix

Industry Statistics – Excess TPI Projected Excess TPI Results - Methodology

- We have maintained the same band definitions as previously for Excess TPI. The bands are defined as below in 2010 accident year years and indexed at 7% p.a.
 - £100 to £250k (£526k in 2021 accident year)
 - £250k to £500k (£1.1k in 2021 accident year)
 - £500k to £1m (£2.1m in 2021 accident year)
 - £1m to £2m (£4.2m in 2021 accident year)
 - £2m to £5m (£10.5m in 2021 accident year)
 - >£5m

- Projections undertaken by layer with companies grouped into three levels of case reserving strength.
- Open claims data at an Ogden -0.25% basis and hence results presented assuming future claim settlements are at Ogden -0.25%.
- In general, the development profile is based on data for the last few calendar years with calendar periods impacted by the Ogden rate change removed as well as some accident periods particularly impacted by COVID-19.
- For the > £5m layer there is a significant distortion from the change in Ogden rate and so chain-ladder models are no longer appropriate.
- Therefore the total TPI Excess has been projected in total by group.
- The >£5m layer is then calculated as the difference between the total and the sum of the other layers.
- Approach is mechanical with judgement generally limited.



Industry Statistics – Excess TPI Projected Excess TPI Results

Projected Ultimate Excess TPI Results for Private Car Comprehensive

Accident Period	Earned Exposure	Ultimate Excess TPI Claim Frequency	Ultimate Excess TPI Claim Severity	Ultimate Excess TPI Burning Cost	Year-on-Year Change in Frequency	Year-on-Year Change in Severity	Year-on-Year Change in Burning Cost
	(millions of vehicle years)	(Non-nil claims per million vehicle years)	(£)	(£)	(% pa)	(% pa)	(% pa)
2012	8.9	94	529,939	49.9	-1.0%	14.5%	13.4%
2013	11.5	69	594,244	41.2	-26.3%	12.1%	-17.4%
2014	12.1	66	737,064	48.8	-4.6%	24.0%	18.4%
2015	12.8	59	725,740	42.9	-10.7%	-1.5%	-12.1%
2016	15.8	61	866,762	52.7	3.0%	19.4%	23.0%
2017	18.2	52	906,080	47.1	-14.6%	4.5%	-10.7%
2018	18.6	53	840,743	44.9	2.7%	-7.2%	-4.7%
2019	18.5	51	916,281	46.5	-4.8%	9.0%	3.8%
2020	18.3	41	1,071,102	43.8	-19.5%	16.9%	-5.9%
2021	18.2	42	1,070,672	45.4	3.6%	0.0%	3.6%
Average (2014 to 2021)					-6.2%	5.5%	1.0%
Average (2016 to 2021)					-7.0%	4.3%	-3.0%
Average (2018 to 2021)					-7.4%	8.4%	0.4%

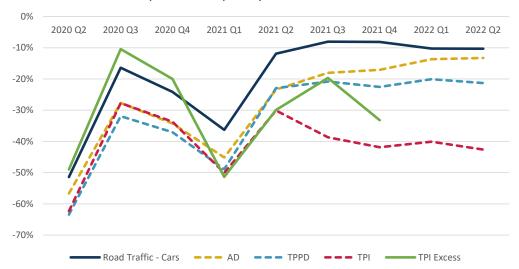
Frequency in 2021 slightly higher than in 2020 but considerably below 2017 to 2019 levels

Year-on-year severity is volatile but the averages are in the range 5% to 8% p.a. Some of this will be due to the change in Ogden rate.

Projections make no allowance for any other distortions in claim developments or experience such as more widespread COVID-19 impact or recent economic inflationary environment.



Industry Statistics - Excess TPI Frequency

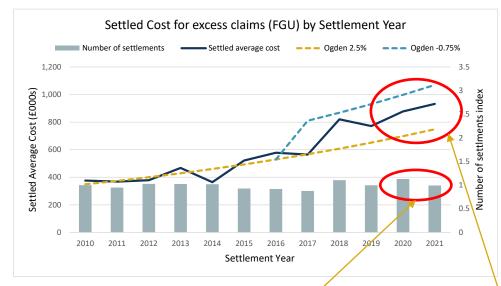


Accident Quarter	Change in Car Traffic	Change in TPI Frequency
2020 Q2	-51.4%	-49.0%
2020 Q3	-16.4%	-10.4%
2020 Q4	-24.2%	-20.0%
2021 Q1	-36.3%	-51.4%
2021 Q2	-11.9%	-29.9%
2021 Q3	-8.1%	-19.7%
2021 Q4	-8.2%	-33.2%

Reported Frequency Reductions vs 2019

- In 2020, the reductions in reported TPI Excess frequency were significantly less than for TPI possibly due to the increased level of cycling in this period.
- In 2021, reductions in TPI Excess frequency are more consistent with reductions in TPPD.

Industry Statistics – Excess TPI Ogden – Settled average cost



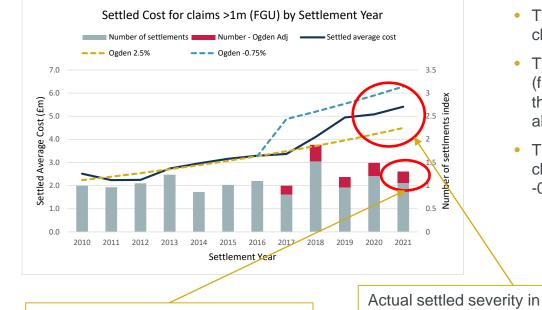
Number of settlements in 2021 lower than in 2020 and more in line with both 2019 and the average from 2010 to 2015. Actual settled severity in 2021 was 6.2% higher than in 2020 and is approximately halfway between the hypothetical 2.5% and -0.75% values.

Institute and Faculty of Actuaries

- The graph shows the settled average cost of all excess claims by settlement year. Claims are defined as settled when paid is greater than 80% of incurred
- The dotted gold line shows a trend line fitted to the data from 2010 to 2016 and projected forward as an estimate of the expected Ogden 2.5% severity in 2017, 2018 and 2019. The fitted inflation rate is 7.5%.
- The blue dotted line is the gold line uplifted by 43%, the estimated impact from Ogden 2.5% to Ogden -0.75% from last year's study.
 - The grey bars are the number of settlements in the data indexed to 2010.

Industry Statistics – Excess TPI

Ogden – Settled average cost



- The graph shows the settled average cost of claims greater than £1m by settlement year.
- The estimated Ogden uplift to severity is 40% (from last year's study). This allows for the fact that at Ogden -0.75% there are more claims above £1m than at Ogden 2.5%.
- The red bars are the proportion of additional claims due to the change in Ogden rate to -0.75%.

Level of settlements in 2021 lower than for 2020.

Actual settled severity in 2021 is 6.5% higher than in 2020. Claims in 2019 to 2021 settled for 21% more than the 2.5% estimate.





1. Market Environment

22 November 2022 On Gessional Moetings

Professional support

Shaping the future

Norking Parties ing Ind

Enterprise and risk

Learned society

opportunity

International profile

53)phortin

2. Industry Statistics

- **AD**

Sponsorship

- TPPD
- Capped TPI
- Excess TPI
- **3.** Conclusions 4. Appendix

Conclusions

Accident	Burning Cost (£)							
Year	AD	TPD	Capped TPI	Excess TPI*	Total AD + TP			
2012	49	72	153	50	324			
2013	50	69	101	41	261			
2014	53	73	98	49	272			
2015	58	76	90	43	267			
2016	61	81	85	53	280			
2017	63	83	77	47	269			
2018	70	92	80	45	287			
2019	70	95	80	47	292			
2020	55	68	57	44	223			
2021	66	77	50	45	239			

*Note – Excess TPI burning cost assumes future claims settle at Ogden -0.25%.

Projections based on data as at 31 December 2021 and make no allowance for any distortions in claim developments or experience due to COVID-19, CLA or recent economic inflationary environment other than that already within the claims data.

- Damage frequencies in 2021 around 6% higher than 2020 but considerably lower than 2019, continuing to benefit from COVID-19 related reductions in driving.
- AD severity inflation 13% to 15% in 2021 Q3 to 2022 Q2.
 TPPD severity inflation 11% to 14% in 2021 Q3 to 2022 Q2.
- TPI to TPPD ratio fell by 25% following introduction of the CLA. No clear impact on TPI Capped incurred severity at this point in time.
- CLA benefit of around £12 per policy (although this is heavily reliant on companies' approach to case reserving whiplash claims).
- TPI Excess frequency in 2021 a small increase from 2020.
- The burning cost in 2021 is estimated to increase by 7% or £16 per policy.

Institute

and Faculty

of Actuaries

Conclusions

- New normal?
 - Overall levels of miles driven have been relatively stable for around a year at around 10% below pre-pandemic levels. However, reductions in claim frequency are considerably below this suggesting other changes in behaviour are also reducing the number of accidents.
 - Some other changes observed during the pandemic appear to have persisted:
 - Changes in when accidents are occurring, with fewer occurring in the 8am to 9am rush hour and an increase between 3pm and 4pm on weekdays;
 - Increased cyclist mileage although not to the extent seen in 2020;
 - Increasing age of car park as new registrations have reduced; and
 - Reduction in proportion of young people holding licences.
- Claims inflation
 - Damage inflation increased from 2021 Q3 onwards with a high correlation between AD and TPPD severity inflation with both RPI and Secondhand Car Prices.
 - Inflation impacting claim development trends on TPPD.





- Jacqui Draper jacqui.draper@gad.gov.uk
- Robert Treen robert.treen@wtwco.com





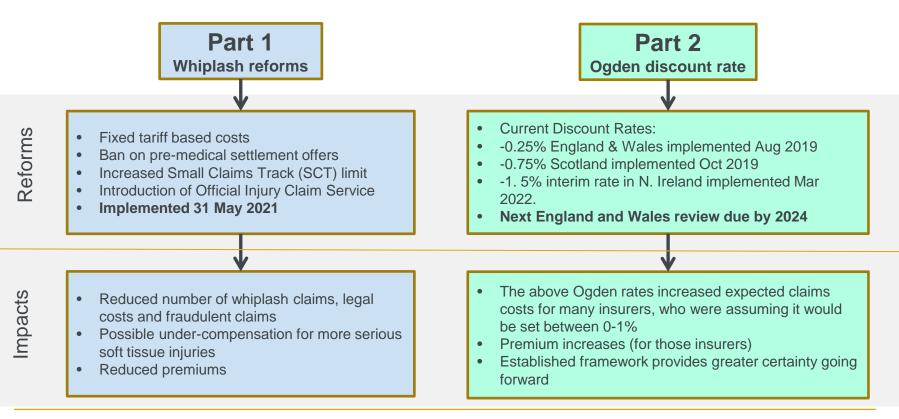
1. Market Environment

2. Industry Statistics

- AD
- TPPD
- Capped TPI
- Excess TPI
- 3. Conclusions
- 4. Appendix



Market Environment Whiplash Reforms and Ogden Discount Rate



Industry Statistics - Capped TPI Incurred development

• We have investigated reporting delays by considering link ratio residuals during calendar periods 2020 to 2022 Q2 vs the 2019 calendar year development pattern.

