



roadsafetyanalysis

MAST ONLINE USER GROUP

24 JUNE 2020

USER GROUP WILL BEGIN AT 2PM

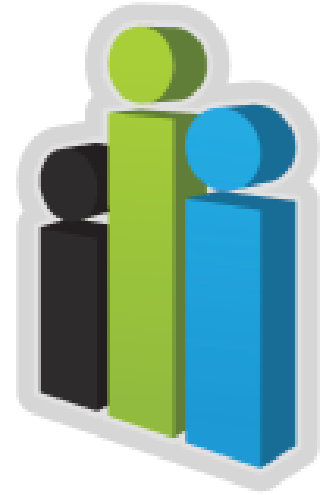
AGENDA



- What does MAST deliver, and why
- User support and the MAST Curriculum
- The latest issue: DfT Serious Injury severity adjustment
 - Comfort break and user poll
 - Watch out for the question marks!
- Exploring the user experience
- Priorities and Action Plan

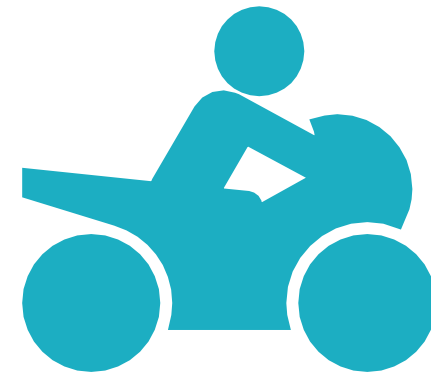
WHAT DOES MAST DO?

- Complete STATS19 dataset
 - Ten years – or more?
- Drivers, riders and casualties by residency
 - ‘Import and export’ of road safety issues
 - Only national source for this information
 - Uses super output area geography
- Updated biannually
 - MAST Provisional
 - Would you like more timely upload of your local data?
- The power of comparison
 - Highways Authority Network Classification – would you use it?
 - Liverpool example



SOCIO-DEMOGRAPHIC PROFILING FOR BEHAVIOUR CHANGE

- 30% of motorcyclists injured between 2014-2018 were KSI casualties
- 26% of all fatal casualties were motorcycle riders or passengers
- 29% of all serious casualties were motorcycle riders or passengers
- We need to do something – but what?



WHO ARE MOTORCYCLE CASUALTIES?

- Motorcycle engine size
- Age
- Gender
- IMD
- Rurality
- Mosaic





CONTRIBUTORY FACTORS

Vehicles Count by Vehicle Attributed CF 307 DriverSpeedConds by Vehicle Attributed CF 306 DriverSpeedLimit

Vehicles Count			
	+ No	+ Yes	Total
+ No	308433	13631	322064
+ Yes	11421	2786	14207
Total	319854	16417	336271

- CF analysis is challenging
 - Not all collisions count - attended with CFs only
 - CFs can be analysed individual or in groups
 - How easy do you find it?
- MAST Professional provides a customised approach
 - Example: poor speed choice by 8.3% of drivers in KSI crashes
- Only available to public sector clients
 - Others can seek DfT approval

Rows (Category)

Columns (Series)

Filter (Slicer)

Add Dimension

Crash Severity : KSI

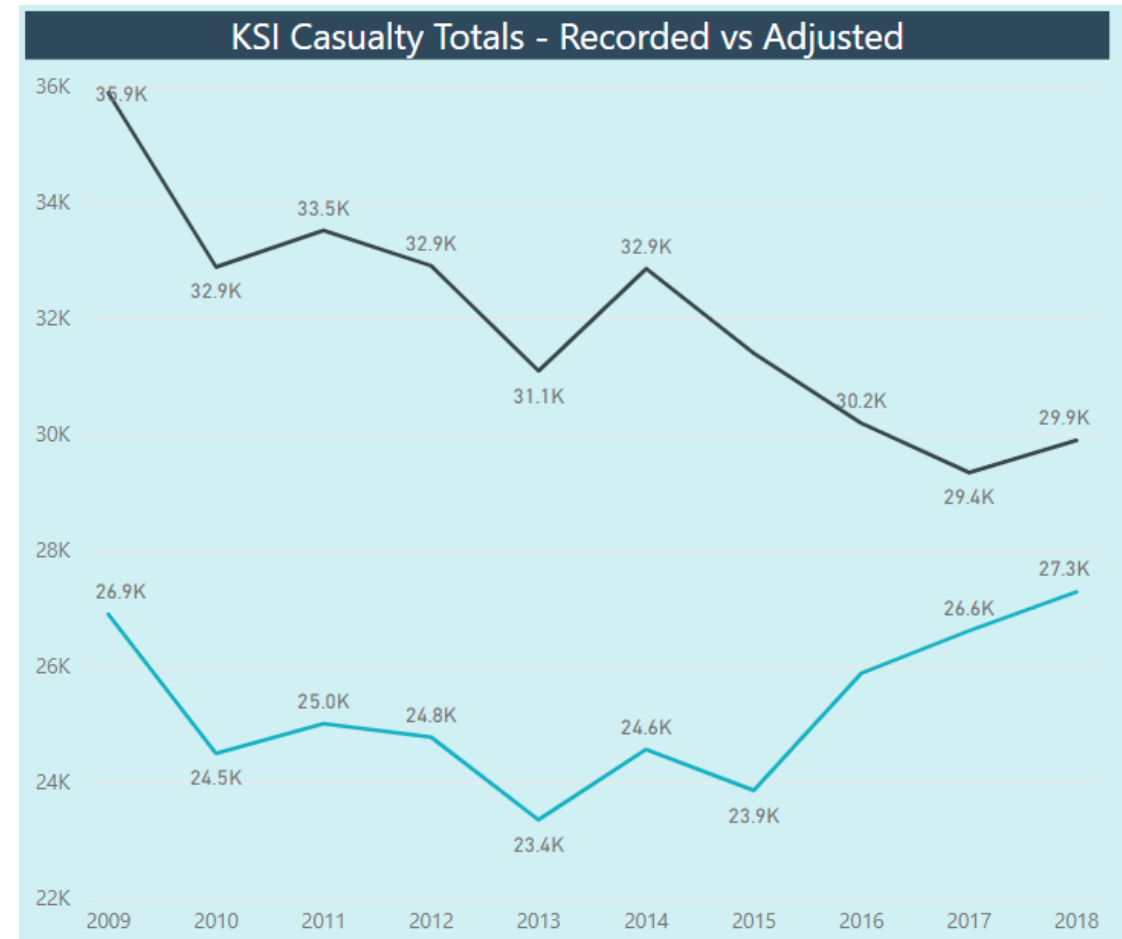
USER SUPPORT - THE MAST CURRICULUM



- Three modules are currently planned, each with two units
 - **Module A** Fast access to headline metrics and key trends
 - AVAILABLE NOW
 - **Module B** Create bespoke reports about networks and road users
 - AVAILABLE SOON
 - **Module C** serious injury adjustments in headline metrics and reports
 - IN DEVELOPMENT
- Demonstration video with commentary
 - Tip: pause the video and follow along
- Multiple choice assignment for each unit
- Module A already CPD approved
- Is this useful for you and your colleagues?

SEVERITY ADJUSTMENT TRENDS

- Half of England's police forces now use CRaSH
 - More migrating this year
 - Police Scotland have migrated
- Long term trend change
 - Affects baselines and targets for all forces, especially those who have not yet migrated
- MAST has it covered
 - Dashboard with Police filters



SEVERITY ADJUSTMENT IN DETAIL

- MAST DataMods uses custom Measures for adjustments
 - All reported Killed and Seriously Injured casualties remain KSI
 - Each Slight casualty has a percentage chance that it was a wrongly reported serious casualty

- Could you do this?

Casualties Count KSI Reported and Casualties Count KSI Adjusted by Crash Date

	Casualties Count KSI Reported	Casualties Count KSI Adjusted
+ 2009	26,912	35,891.844
+ 2010	24,510	32,892.070
+ 2011	25,023	33,520.965
+ 2012	24,793	32,913.219
+ 2013	23,370	31,101.823
+ 2014	24,582	32,864.537
+ 2015	23,874	31,404.153
+ 2016	25,893	30,200.559
+ 2017	26,624	29,350.252
+ 2018	27,295	29,906.070
Total	252,876	320,045.491

Edit Series Axis Item

- Casualties
- Casualties Count Killed
- Casualties Count Serious Reported
- Casualties Count Serious Adjusted
- Casualties Count KSI Reported
- Casualties Count KSI Adjusted
- Casualties Count Slight Reported
- Casualties Count Slight Adjusted
- Casualties Count in Fatal Crashes
- Casualties Count in Serious Crashes Report
- Casualties Count in Serious Crashes Adjust
- Casualties Count in FSCs Reported
- Casualties Count in FSCs Adjusted
- Casualty Avg Distance from Home km

Rows (Category) Columns (Series)

Add Dimension Measures

COMFORT BREAK

- Back in five minutes
- Please complete the following short poll ...

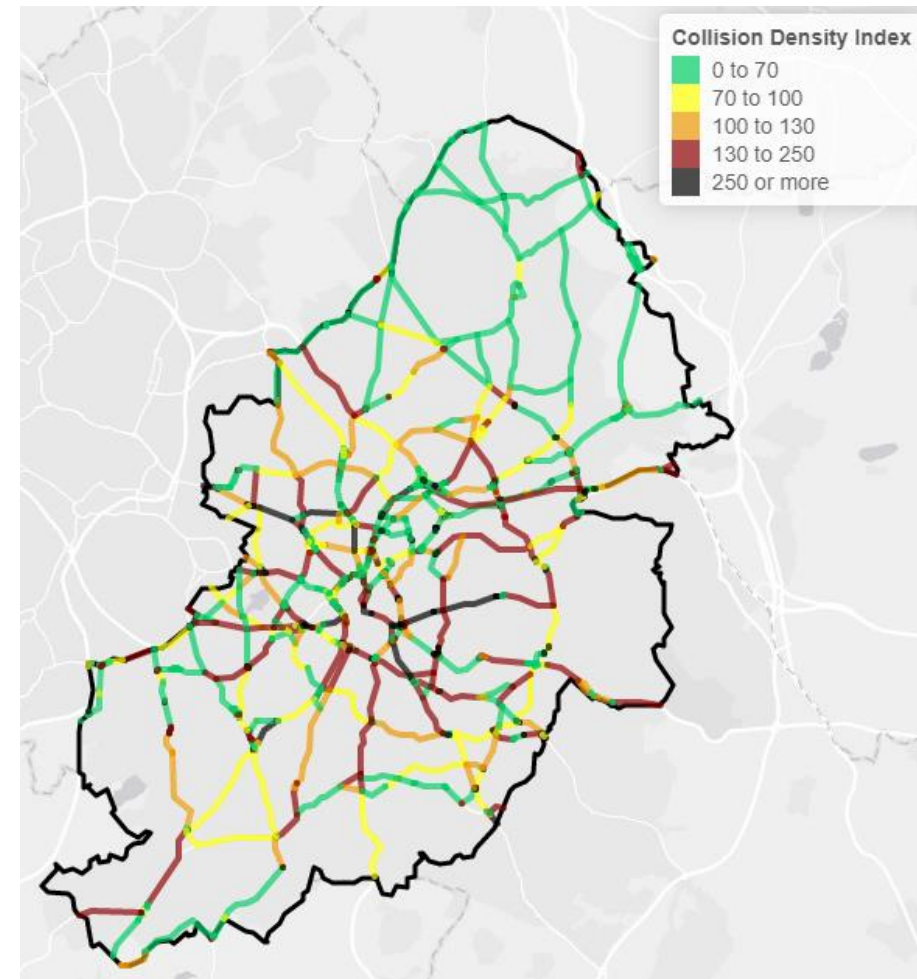
DASHBOARDS AND HEADLINERS

- Dashboards tab in MAST Portal
- Regional dashboards
 - Flexible filtering
- Complete suite of local headliners
 - Child casualties
 - Motorcyclists
 - Young drivers
 - Older drivers
 - Pedal cyclist casualties
 - Pedestrian casualties
- Covers residents and roads for your area



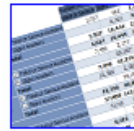
MAPS AND CRASHMAP

- Maps tab in MAST Portal
- Full suite of maps for your local area
 - Resident risk
 - Road risk and collision location
 - Collision density
 - Risk mapping
- Shortcuts to handy resources
 - Detailed RSF EuroRAP results
 - CrashMap
 - CrashMap Pro demo
- Covers residents and roads for your area

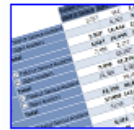


REPORT TEMPLATES

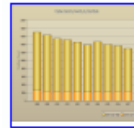
- Support users who are unsure where to start
- Adding new templates is easy!
 - Suggestions welcome



MAST Template - Crash Location Grid Reference Checker *(Created by bwalton)*
 All crashes by year and district, using grid references instead of STATS19 local authority codes. Change the filter to view specific districts.



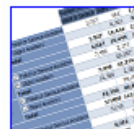
MAST Template - Crash Locations for mapping, by Small Area code *(Created by bwalton)*
 Crashes in the last five years by Small Area code. Change Crash Location on the Filter tab to your required area.



MAST Template - Crashes by Date and Severity *(Created by bwalton)*
 A straightforward chart showing crashes by year and severity. For a step by step guide of how to create this chart, see the help page.



MAST Template - Crashes by Time of Day *(Created by bwalton)*
 Column chart showing distribution of crashes with known time by hour of day over the last five years.



MAST Template - Strategic Roads by Road Class *(Created by bwalton)*
 All crashes on the strategic road network in the last five years, by region and road class. Individual areas, can be filtered on the Filter tab.

USER SURVEY

- Survey is still open
 - <https://www.smartsurvey.co.uk/s/ZM5WGU/>
- Findings so far:
 - Dimensions linking STATS19 tables are very popular
 - Most users have not yet looked at the MAST Curriculum
 - Reporting VRU trends is a frequent use for MAST data
 - Online user engagement is desirable
- Please ask your colleagues to take part

WISH LIST

- Support requirements
- Training needs
- Updates
- Local data
- New data sets
- Future user groups
- AOB



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