

NSW DANGEROUS GOODS MOVEMENT STUDY

THE STUDY

Transport for NSW (TfNSW) has commissioned the Australian Road Research Board (ARRB) to undertake a dangerous goods (DG) movement study.

The purpose of this project is to understand where dangerous goods are being transported by road in NSW with a focus on the Sydney metropolitan region in order to identify and protect DG routes.

The study will focus on the transportation of bulk tanked Flammable Gas, Flammable Liquid and Chemicals with the use of telematics data to identify movements.

WHAT WE NEED FROM THE DG TRANSPORT INDUSTRY?

Telematics data of DG transportation vehicles which transport bulk tanked Flammable Gas, Flammable Liquid and Chemicals.

Transport Certification Australia (TCA) will undertake the analysis in a de-identified and aggregated manner to ensure privacy. Refer to consent form attached.

CONTACTS

Study Contact	David Green – ARRB Senior Technology Leader Future Transport Systems ARRB P: (03) 9881 1554 M: 0448 074 528 E: david.green@arrb.com.au
Other	Grant Johnson Transport for NSW P: (02) 8202 3242 / M: 0425 270 869 E: grant.johnson@transport.nsw.gov.au <hr/> Gavin Hill Transport Certification Australia P: (03) 8601 4620 / M: 0439 489 681 E: GavinH@tca.gov.au

CONSENT FORM

I, _____ of _____ (Transport Operator name), hereby agree to my nominated vehicles taking part in a research project being conducted by Transport for New South Wales (TfNSW) for the purpose of assessing traffic movements of vehicles carrying dangerous goods within NSW.

For the purposes of the research project, my nominated vehicles and service provider details are contained within Appendix 1, which may be updated by me from time to time. I authorise my nominated telematics service provider to provide the telematics data for the nominated vehicles to Transport Certification Australia Ltd (TCA), for the purposes of this research project. I also acknowledge that TCA can utilise data from vehicles currently enrolled in the Intelligent Access Project for the purposes of research, where data is aggregated and de-identified.

This will enable TCA to receive, de-identify and aggregate the data provided by myself and the other transport operators for the purposes of this research project, and to then provide TfNSW with de-identified and aggregated analysis reports extracted from that data.

I understand that:

1. TfNSW will receive from TCA reports that will show only de-identified and aggregated journey information covering all vehicles taking part in the pilot, including aggregated vehicle travel patterns and aggregated numbers of vehicles travelling over bridges.
2. The collection, de-identification and aggregation process will ensure that the movements of any particular vehicle participating in the pilot will not be detectable within, or disclosed by, either the de-identified, aggregated data or the reports to be received by TfNSW from TCA.
3. TfNSW may, in the course of considering the reports that it will receive from TCA, discuss and share those reports with the local governments whose Local Government Areas include the roads featuring in the reports.
4. TCA will receive and hold the telematics data relating to my nominated vehicles in strict confidence and will not disclose it to any person or entity (including TfNSW or other road managers or regulators) except in the de-identified, aggregated format specified above for the purpose of the trial.
5. I understand that I can withdraw my consent to the participation of my nominated vehicle in the research project at any time, by giving written notice to my service provider and to TCA.

The telematics data provided to TCA by my telematics service provider will be received, held, and destroyed by TCA strictly in accordance with the requirements of the Privacy Acts and Regulations of the Commonwealth of Australia and of the State of New South Wales and of TCA's Privacy Policies.

Where one of my nominated vehicles will be driven by an individual other than myself, I will inform that individual of the content and nature of this Consent Form and of the project. If any individual driver objects to the participation of the vehicle being driven by him/ her in the research project, I will notify TCA and my service provider that that vehicle is to be withdrawn from the project immediately until further notice from me.

Signed for and on behalf of (*Transport Operator name*)

.....

Signature

.....

Date

APPENDIX 1

LIST OF NOMINATED VEHICLES FOR DANGEROUS GOODS RESEARCH PROJECT

(Transport operator to complete)

Vehicle registration no.	In-vehicle device ID or no.	PBS Vehicle Approval (VA) Number (if applicable)	Vehicle Type (eg Quad Dog, Tri Dog, Quad Semi)	DG product type (commonly carried)	Depot based from (if available)	Date of commencement of consent

(Please attach a separate spreadsheet or list of vehicles if preferred)

TELEMATICS SERVICE PROVIDER DETAILS

(Transport Operator to complete)

.....
Telematics service provider

.....
Contact name

.....
Contact email

.....
Contact phone number

The signed Consent Form, along with the list of participating vehicles and service provider details, should be returned by the transport operator to TCA at the address below and a copy provided to its telematics service provider.

Transport Certification Australia
Level 6, 333 Queen Street
Melbourne Vic 3000

Appendix 2 – Data format

The table below lists the key data fields that participating transport operators and service providers are requested to provide. Note that some fields are required for the research, while others are optional.

Data field name	Data field description	Format	Required?
recordId	<u>Position record unique identifier</u>	integer	Mandatory
recordDateTime	<u>As per TCA data dictionary</u>	yyyy-mm-ddThh:mm:ss	Mandatory
deviceIdentifier	<u>IVU unique identifier</u>	String (1-20)	Mandatory
positionLatitude	<u>As per TCA data dictionary</u>	5 decimal places	Mandatory
positionLongitude	<u>As per TCA data dictionary</u>	5 decimal places	Mandatory
vehicle_category	Enumerated value	Quad Dog; SPV; Rigid; Other	Mandatory
satelliteCount	<u>total number of satellites used to establish position (combined value for multi-GNSS)</u>	integer	optional
hdopValue	<u>HDOP for position measurement (combined value for multi-GNSS); use a value of 99.9 when HDOP cannot be established</u>	one decimal place	optional
speed	km/h	one decimal place	optional
direction	Direction of travel / heading in decimal degrees. Range: 0-359.9	one decimal place	optional
axle_count	enumerated value	Axle count	optional
Self-declared mass (if available)	<u>Gross vehicle mass. 1 decimal place. Metric tonnes.</u>		optional
Gross Vehicle Mass (if available)	<u>Kilograms, measured by an OBM system</u>		optional
timediff	<u>polling frequency since previous position record</u>		optional
DG Class	<u>Australian Dangerous Goods classification</u>		optional
DG Code	<u>4 digit UN Dangerous Goods code</u>		optional



OFFICES IN:
BRISBANE, SYDNEY, ADELAIDE, PERTH.

NATIONAL TRANSPORT RESEARCH
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