

CONWAY

great people : great work

SAFE SYSTEM APPROACH TO ROAD RISK



A presentation to the PRAISE Conference
January 2019



OUR ACTIVITIES

Independent

Family-run Business

Infrastructure Maintenance

New Build, Repair, Maintenance Highways

Construction Materials

Manufacture of Highways

Maintenance Materials

Recycling

Recovery for Re-use of
Highways Materials

Logistics

Distribution of Materials,
Plant & Labour



CHALLENGES

Safety

For Contractors, Customers & The Public

Delivery

That brings capability, capacity, resilience and surety of cost

Improved customer experience

Through innovation in materials and working practices

Cost efficiencies

In capital and lifetime expenditure





THE STORY BEGINS....

IN FEBRUARY 2013 WE RECEIVED AN E-MAIL FROM TFL

From: Freight [mailto:freight@tfl.gov.uk]
Sent: 01 February 2013 17:54
To: Central Services
Subject: Letter from Sir Peter Hendy

Dear Mr Conway

In 2011 there were 16 cyclist fatalities on London's roads, so we have commissioned research to examine whether there are any specific reasons behind this. The research will be published.

Please find attached the full report, a summary report and a presentation.

We look forward to working with you throughout 2013 to improve the safety of the road network.

Transport for London

Transport for London



Mr Michael Conway
FM Conway
Conway House
Rochester Way
Dartford
Kent
DA1 3QY

Transport for London

to be

1 February 2013

Dear Mr Conway,

Construction logistics and cyclist safety

As I'm sure you are aware, the city for cycling and has set a target of 10% of the population cycling to work by 2026. Over the past 10 years, despite this growth some important concerns about cycling safety.

In 2011 there were 16 cyclist fatalities on London's roads, so we have commissioned research to examine whether there are any specific reasons behind this. The research will be published.

In 2012, TFL commissioned the construction industry logistics vehicle specific reasons behind HGV/cyclist fatality statistics. The research will be published.

A copy of the final research report will be sent to you in order to carry out these recommendations is the

Transport Research Laboratory
Creating the future of transport



PUBLISHED PROJECT REPORT PPR640

Construction logistics and cyclist safety
Summary report

S Helman, E Delmonte, J Stannard

Transport Research Laboratory
Creating the future of transport



PUBLISHED PROJECT REPORT PPR639

Construction logistics and cyclist safety
Technical report

E Delmonte, J Manning, S Helman, D Basacik, J Scoons, J Chappell, J Stannard, M Jones, I Knight

COMMISSIONED BY TRANSPORT FOR LONDON IN 2012 TO:

- research construction industry logistics and cycling safety,
- consider reasons behind the construction industry's over representation in HGV/cyclist fatality statistics
- understand the relative risk represented by construction vehicles to cyclists, when compared with general haulage vehicles?
- Are there features of contractual arrangements, working practices, driver behaviour, or vehicle design (or combinations of these)

EVIDENCE SUGGESTED THAT CONSTRUCTION VEHICLES ARE OVER-REPRESENTED.

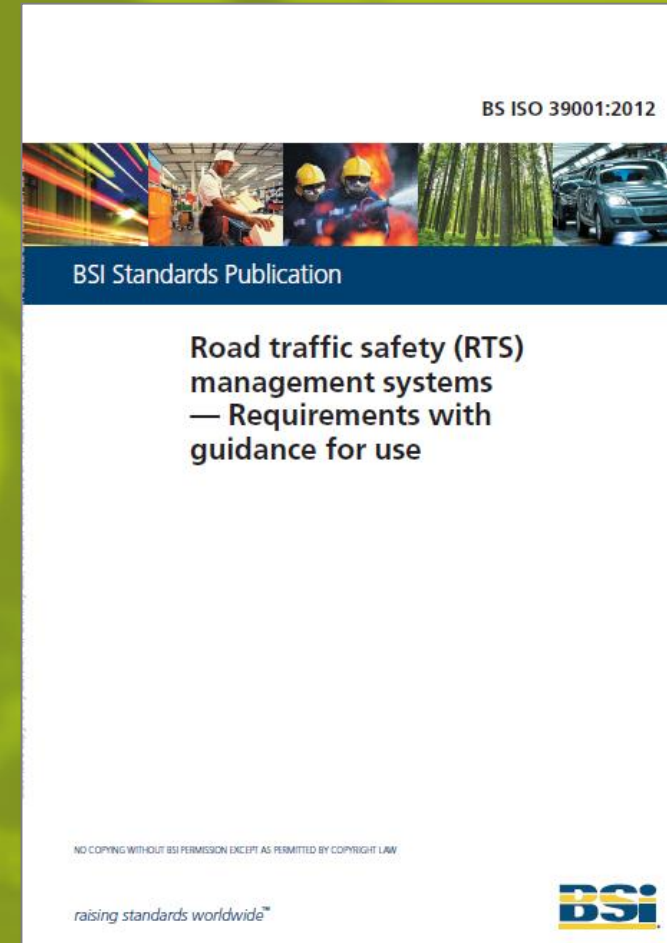
Report made: Eleven Findings, Twelve Associated Recommendations.

Recommendation 2:

Adherence to a nationally recognised standard on work-related road safety (such as the ISO39001 standard on road traffic safety management) should be promoted

BS ISO 39001 - ROAD TRAFFIC SAFETY MANAGEMENT SYSTEMS

- Internationally agreed industry standard
- Structured framework for combating complacency and identifying continual improvements in best practice safety management.
- Target reduction of death and serious injury in road traffic crashes.
- Holistic approach to road-traffic safety to complement existing road traffic programmes and regulations.
- Process approach encouraging continual improvement
- Proven by successful ISO standards such as ISO 9001 for quality management.



7 KEY AREAS

Context of the organisation –	external & internal issues relevant to the business that affect Road Traffic Safety
Leadership –	Policy, Integration into business, Resources
Planning –	Process to: Review; Evaluate Risks; Determine Improvements; Set Targets, Plan to achieve.
Support –	Coordination, Training, Resources, Awareness, Communication, Documentation
Operation –	The processes to achieve the plans
Performance Evaluation –	Measuring how well we are doing
Improvement –	Address Shortcomings, Opportunities for Improvement

RIGHT PERSON:

- **Licence Checks;**
- **Qualifications;**
- **Driver Assessments;**
- **Health (including eyesight checks);**
- **Training;**
- **Safety Culture;**
- **Professional Development**





WHAT WE DID...

RIGHT VEHICLE:

- Formal Maintenance Regime;
- Daily Driver Checks;
- Liaison with vehicle manufacturers;
- Safety features;
- Visibility Assessment

FM Conway – Road Traffic Safety Management System

Goods Vehicle Driver Visibility Evaluation Tool

Vehicle Details: Model: Registration:

Persons required: 1 of vehicle driver
1 of Chain person

Equipment required: Vehicle to be checked
Marked grid area
Standard engineers measuring staff
This template and a protractor

METHODOLOGY

VEHICLE DRIVER

Park vehicle in marked grid area
Park along centre line with front bumper on marked line

Set all mirrors and cameras to correct position for urban driving

Record on grid record, lowest reading visible on staff

Record on grid record, lowest readable visible on staff

REPEAT PROCESS UNTIL EVERY CELL HAS BEEN MEASURED AND RECORDED

CHAIN PERSON

Stand in cell 10/4
Hold measuring staff on ground, vertical

Move to cell 10/3
Hold measuring staff on ground, vertical

TRANSPORT MANAGEMENT

Plot and shade, on the loaded grid, all areas that have zero visibility at 1.2metres height or less

Consider all possible techniques for improving visibility in the shaded areas. Detail options in table below

VEHICLE DRIVER

Driver:

Chain Person:

Date of test:

Responsible Manager:

Date assessment finished:

VEHICLE/TRAILER NUMBER: 448107

DATE:

ODOMETER READING:

Re-order code 4234

VC40 NCR – DRIVER VEHICLE CHECK AND DEFECT REPORT

Company:

Driver:

Dipot:

DAILY VEHICLE CHECK – Items to be checked by driver before and during driving – Function – Damage – Cleanliness etc. ✓ = Serviceable X = Defect

Item	Function	Damage	Cleanliness etc.	Serviceable	Defect
Lamps/indicators/side lamps	Types – inflation-damage-wear		Exhaust – condition-smoke-emission		
Reflectors/markers/warning devices	Wheels – condition-security		Tachograph/speedometer – operation		
Battery – security-condition	Body/guards/wing/tip/tyre suppression – damage		Speed limiter – operation		
Mirrors – condition-security	Body/floor – security-protection		Trailer coupling – operation-condition		
Brakes – pressure-operation-leaks	Number plates – condition-security-illumination		Trailer connections – condition-function-leaks		
Brakes – warning devices and instruments	Horn/wipers/washers – operation-condition		Trailer landing legs – condition-operation		
Driving controls/steering – wear-operation	Engine oil/water/fuel – levels-leaks		Ancillary equipment – Loading aids, etc.		

DEFECT REPORT – Details of any faults noted should be entered below

Signature of driver:

ACTION TAKEN

Signature: Position: Date:

THIS FORM IS PRODUCED BY FREIGHT TRANSPORT ASSOCIATION AND IS NOT PART OF THE FTA VEHICLE INSPECTION SERVICE SYSTEM

Freight Transport Association Limited (a private limited company) • Registered Office • Hermes House, 55 John's Road, Tulse Hill, Brighton BN1 8JL • Registered in England Number 311957 • © FTA 09/09

OUR COMPREHENSIVE
RETROFIT AND TRAINING
PROGRAMME FOR OUR
VEHICLES AND DRIVERS
ENSURES WE NOW OPERATE
ONE OF THE SAFEST FLEETS
ON LONDON'S ROADS.



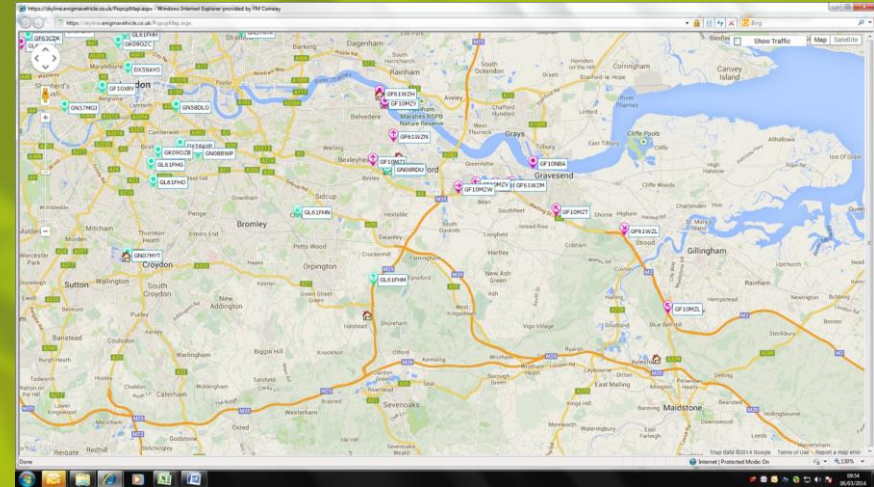
RETROFIT FOR PURPOSE



WHAT WE DID...

RIGHT PLACE:

- Route Planning;
- Safe Access and Egress from sites;
- Safe Access and Egress from depots/yards



TRAFFIC/PEDESTRIAN MANAGEMENT PROTOCOL – VISUAL STANDARD (ACCESS & EGRESS TO/FROM SITES)

Access and egress to and from a site is primarily the responsibility of the site management and operatives. Safe access and egress should be achieved through careful planning of the site and activities, culminating in the development of a written Safe System of Work included within the site's method statement. The following is guidance and examples on how to achieve the required Safe System of Work of accessing and egressing to and from a site.

Road Closure – One Way Traffic System (Entry to Exit)

- Deliveries to be pre-arranged with contact between delivery operator and site.
- Where driver to site contact, driver shall find a safe area away from the site to park prior to contacting site to inform of arrival.
- Vehicle to approach site with fully operational beacons on.
- Gates to be opened to permit access.
- Vehicle to be directed by site personnel to loading/unloading area.
- All reversing to be conducted under the control of a Reversing Assistant.
- Non-inducted drivers to be accompanied at all times.
- Where applicable, driver to return to cab or be positioned in a safe area during loading/unloading activities.
- Vehicle to exit site under control of site operatives.

Partial Lane Closure – Two Way Traffic System

- Deliveries to be pre-arranged with contact between delivery operator and site.
- Where driver to site contact, driver shall find a safe area away from the site to park prior to contacting site to inform of arrival.
- Vehicle to approach site with fully operational beacons on and remain on during delivery/retrieval.
- Vehicle to be directed by site personnel to loading/unloading area.
- All reversing to be conducted under the control of a Reversing Assistant.
- Non-inducted drivers to be accompanied at all times.
- Where applicable, driver to return to cab or be positioned in a safe area during loading/unloading activities.
- Vehicle to exit site under control of site operatives.
- Appropriate signage to be maintained on site and installed by suitably qualified personnel at time of deliveries. Type of signage dependent on traffic conditions.
- Refer to page 53 of Safety at Street Works and Road Works – A Code of Practice for determining appropriate traffic control method to be adopted where two-way traffic cannot be maintained during delivery. Options to be limited due to minimal time disruption to Give and Take, Priority and Stop/Go Boards.

Surfacing – Road Closure with Resident Access and Egress Permitted

- Deliveries to be pre-arranged with contact between delivery operator and site.
- Due to number of potential vehicles, a waiting area to be determined and advised.
- Where driver to site contact, driver shall find a safe area away from the site to park prior to contacting site to inform of arrival.
- Vehicle to approach site with fully operational beacons on and remain on during delivery/retrieval.
- Vehicle to be directed by site personnel to loading/unloading area.
- All reversing to be conducted under the control of a Reversing Assistant.
- Traffic Marshalls to be utilised to assist members of the public when accessing and egressing within the confinements of the site.
- Works to temporarily cease to permit access and egress from the road closure by members of the public.
- Access and egress from driveways to be maintained where possible and full co-operation to be given to members of the public.

FM Conway – Road Traffic Safety Management System

Depot Details:

Name: Chesham

Address: Stanlands Road, Baginbun, Chesham, Bucks, HP14 7ED

Persons required:

1 of Vehicle driver

1 of Chain person

Equipment required:

Vehicle

Camera and Notepad

Nearside

View of Entrance from Road

Offside

View of Road from Vehicle in Entrance

Map of Location

Other Road Users - Line of Sight Score

Exiting Vehicle - Line of Sight Score

Road Speed Limit Score

RISK MATRIX

TRANSPORT MANAGEMENT

Assessment By: DC, DC, MC

Date of Assessment: 30/02/13

Comments/Observations:

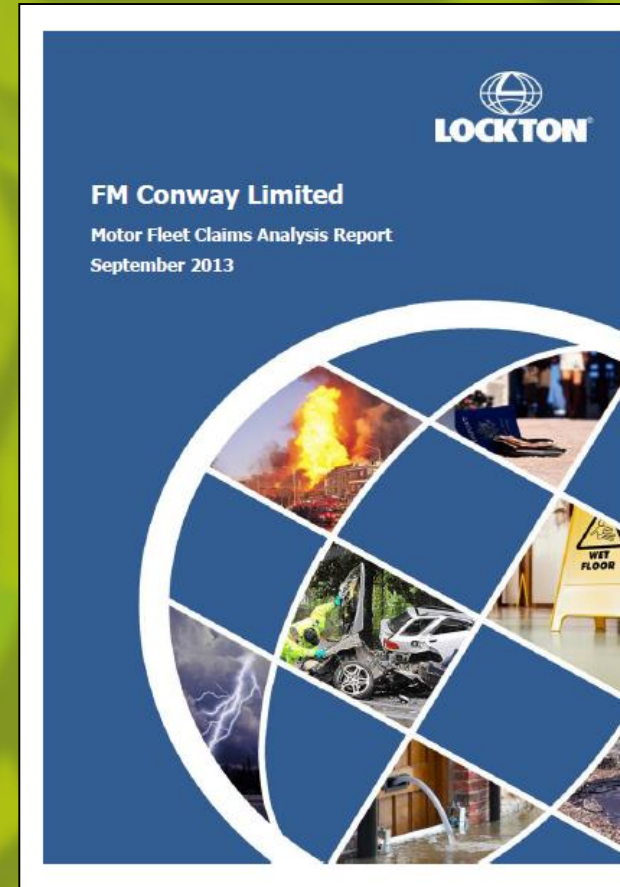
Reviewed By: SH

Date of Review: 05/06/13



COST BENEFITS:

- **Insurance Premiums**
(saving of £56k in year 1 – 10%)
- **Repair & Maintenance Costs**
(15% overall reduction despite 5% increase in routine costs)
- **Improved Fuel Efficiency**
(Average MPG, per vehicle up by 3.8)



SOCIETAL BENEFITS

Improvement of safety
on the road traffic
network

.... Really!!



PRIDE:

- ETSC Praise Awards November 2018
 - Highly Commended
 - “for efforts in managing work related road safety”
- Brake Fleet Safety Awards 2017
 - Dr Will Murray Award
 - “for Analysis and Action”
- Transport for London Supplier Awards 2017
 - “ for the Best Safety Initiative”
- MPA Health and Safety Awards 2015 - TfL Reducing Occupational Road Risk Trophy





... SINCE THEN.... NEW INITIATIVES

Recognising
Professional
Drivers' Skills
and Knowledge



Low Entry / Hi-visibility
vehicles "Econics"



Improved
Nearside
Visibility
Windows



Managing Driver
Distraction from
Mobile Phones



ADVANCED TELEMATICS SYSTEMS

Currently undertaking trial of “Lightfoot” system
... offering:

- **fuel savings of up to 20%** by educating the driver on how to drive the vehicle in the manner in which it was engineered.
- **reduce driver-fault collision and incident rates** by up to 60%.
- **Lower wear and tear costs** and reduced vehicle downtime through improved driver behaviour.
- **Reduced carbon emissions** by reducing aggressive acceleration, unnecessary idling and inappropriate gear usage.





**Brighton & Hove
City Council**

Brighton and Hove City Council
- 1st Municipal Authority in UK to achieve ISO 39001



Chair of BSI Technical Committee RTS/1
“Road Traffic Safety Management Systems”

(UK Mirror Committee responsible for the UK input to ISO/TC241 for the development of International Standard on road traffic safety management systems)



Head of UK Delegation to ISO/TC241
Member of Working Group WG5 (ISO 39002)



ISO/TC 241
Road traffic safety management systems
Resolutions 01-08/2018
12th ISO/TC 241 meeting
Kuala Lumpur, Malaysia December 5th 2018

RESOLUTION ISO/TC 241 01/2018

Subject: United Nations Sustainability Development Goals 2030

ISO/TC 241: - recognizes the UN SDGs 12.6: Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle and 12.7: Promote public procurement practices that are sustainable, in accordance with national policies and priorities and;

ISO/TC 241 RESOLVES:

- to recognize the importance of ISO 39001 for road traffic safety and specifically as a tool to actively support the UN SDGs 12.6 and 12.7.



ISO/TC 241
Road traffic safety management systems
Resolutions 01-08/2018
12th ISO/TC 241 meeting
Kuala Lumpur, Malaysia December 5th 2018

RESOLUTION ISO/TC 241 02/2018

Subject: NWIP Ethical considerations for driverless vehicles

ISO/TC 241 resolves:

- to request the ISO/TC 241 Secretariat to communicate with ISO Central Secretariat regarding the Scope of the NWIP vs. the Scope of ISO/TC 241 and other ISO/TCs (to identify the relevant ISO/TC for the work) and;
- to request the ISO/TC 241 Secretariat to issue the NWIP CIB/Committee Internal Ballot subject to the above-mentioned communication with the ISO Central Secretariat.



ISO/TC 241
Road traffic safety management systems
Resolutions 01-08/2018
12th ISO/TC 241 meeting
Kuala Lumpur, Malaysia December 5th 2018

RESOLUTION ISO/TC 241 04/2018

Subject: Working Group/WG 5 – ISO 39002 Road traffic safety
Good practices for implementing commuting safety management

ISO/TC 241 RESOLVES:

- to request the ISO/TC 241 Secretariat to proceed with the ballot for DIS/ISO 39002



THANK YOU FOR YOUR TIME

Any Questions?