

TECHNOLOGY AND MOTOR FLEETS REAPING THE BENEFITS

30 SEPTEMBER 2015







OPTIMISE SERVICES

SAVING YOU MONEY EVERY MILE



Optimise Services

Introduction

- Matthew Watson
- General Manager, Scania Optimise Services
 - Training Services
 - Telematics Services
 - Combined packages















Agenda

- Scania Optimise Services
- A look into the future autonomous technologies
- New autonomous technologies
- What do we have now?
 - Can it work?
- Wrap up and questions
 - Around later on





Our Key Objectives

Work with our Customers:



Drivers



Fuel Saving



Operational Efficiency





Video Links

https://www.youtube.com/watch?v=sDGZPRJBeEQ

https://www.youtube.com/watch?v=BZ9AG71rWfE





Autonomous Technologies

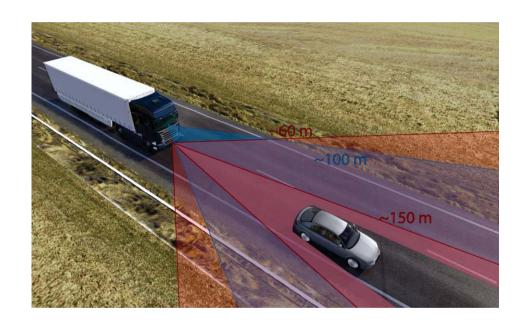
- From 1st November 2015
 - Advanced Emergency Braking
 - Automatic Lane departure warning
- It's the law for all new vehicles registered on or after 1st, November 2015
- Adaptive cruise control is becoming more common due to shared components with AEB and LDW
 - Automatically maintaining a safe distance between you and the vehicle in front





Advanced Emergency Braking System

- Sometimes known as Autonomous Emergency Braking
- Utilising camera and radar to look ahead of the vehicle
- Active at speeds above 15km/h
- Escalates the warning
 - Symbol in ICL and acoustic
 - Autonomous braking (3m/s²)
 - Autonomous braking (5m/s²)
- Either avoiding or mitigating an accident
- AEBS is a support system
 - Warning can be delayed if the driver is thought to be in control
 - Assistance to apply enough brake force
- Legally required on all 2 and 3 axle vehicles registered on or after 1st November 2015







AEB Video

https://www.youtube.com/watch?v=S1EbyBo9dMY





Lane Departure

- The system works at speeds in excess 65 km/h
- A distinct sound can be heard in the left or right-hand loudspeakers depending on the side on which the vehicle accidentally crosses the lane markings
- Does not activate if driver input on the controls is detected









Adaptive Cruise Control

- The distance to vehicles in front can be set in 5 stages
- A suitable distance can be specified depending on traffic intensity. A longer distance allows more margin for unforeseen events
- Easy and obvious operation assisted by clear display and simple buttons







What do we have Now?

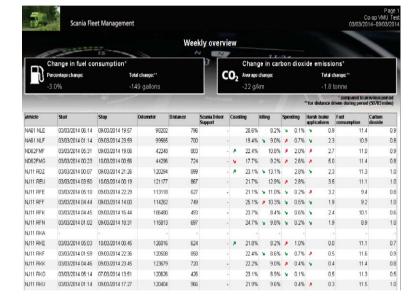
Every Scania – 10 years free Monitor telematics

package

Transferable

- Standardised in 2011

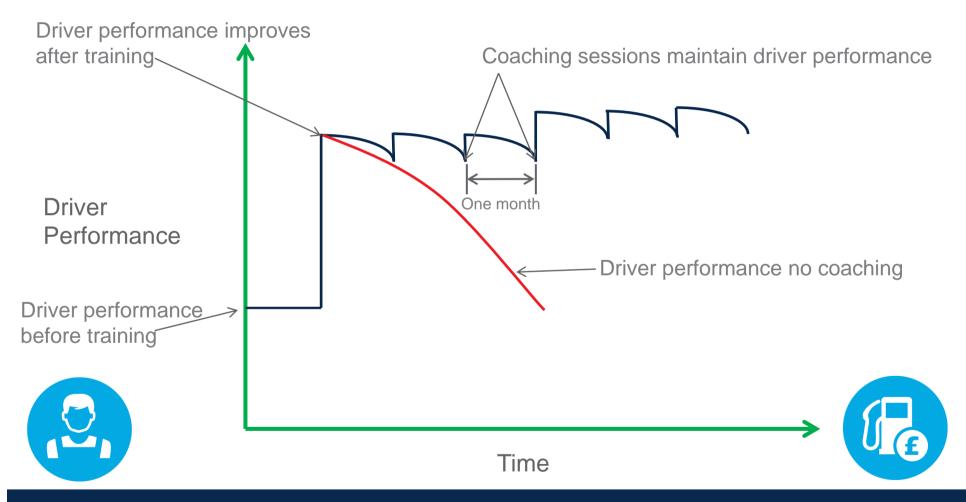
- Provides Visibility on how the trucks are being driven
- Drivers can be coached and behaviours monitored and modified
- Workshops can remotely contact the trucks and check for faults and wear and tear – ignition must be on







Coaching Maintaining Performance







Do they work?

Driving Style - Behaviour

Sample 10 vehicle fleet

Idling

- Target 10%
- Average 6.5%
 - ➤ Highest 9.4% 😣
 - Lowest 3.9%
 - 0% missed the target

Coasting

- Target 20%
- Average 28%
 - ➤ Highest 35% [©]
 - ► Lowest 20%
- 0% missed the target

Driver Support

- Target 70%
- Average 85%
 - ➤ Highest 96% ©
 - > Lowest 59% 8
- 10% missed the target



Financial Result

Fuel Saving Achieved

During 6 month trial period

£15,416

Saving could be enhanced with focus on non-Ecolution drivers including coaching and driver performance advice.





Driver Shortage

Shortage of 45,000 drivers

it is getting worse

Scania will deliver 1,000 newly qualified drivers this year

Scania Road to Work

 Support programmes beyond drivers passing their test - important

 We have an increasing number of newly qualified inexperienced drivers on the road

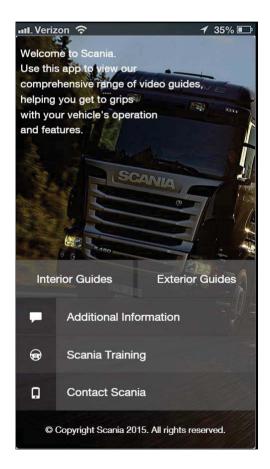
Drivers from European countries



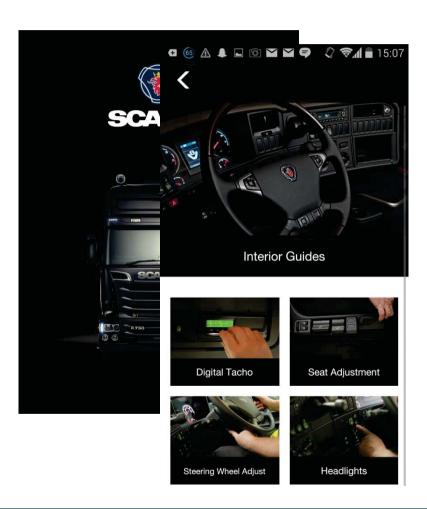




Drivers App – Launched July 15











Thank You

- Questions
- Around later
- OnBoard Manager, Darrell **Taylor**



Saving you money every mile















SCANA EXPERIENCE





THE ROLE OF THE LAW IN A CHANGING TECHNOLOGICAL LANDSCAPE

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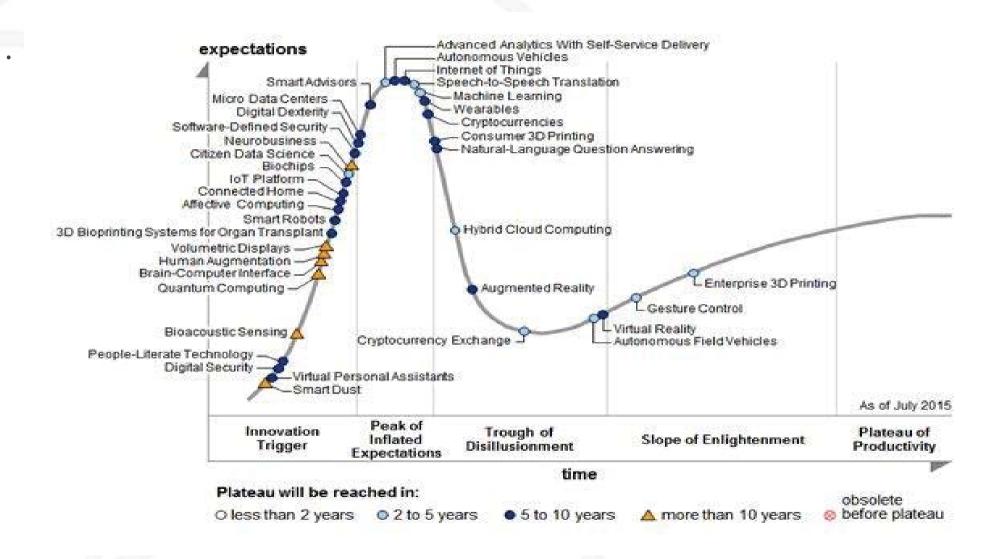
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HYPE CYCLE FOR EMERGING TECHNOLOGIES

(GARTNER - AUGUST 2015)





DUTY OF CARE & "BUT FOR...."



- The principles of negligence are unchanged by technological development.
- It is the application of those principles to the established facts that matters.
- A defendant owes a duty of care to a person where he can reasonably foresee that his conduct will expose that person to a risk of physical injury.
 - Auld LJ in Donachie v Chief Constable of Greater Manchester (2004).
- Every tortfeasor should compensate the injured claimant in respect of that loss and damage for which he should justly be held responsible.
 - Laws LJ in Rahman v Arearose Limited (2000)
- The key question is thus one of responsibility, viewed in the context of the duty of care in issue: what kind of harm was it against which the defendant had a duty to guard? Only by addressing that test can the court give what is, in effect, a pragmatic answer to what is so often a difficult decision on the facts.
 - Kemp & Kemp: Quantum of Damages

SCENARIO



- Our Client a logistics company an HGV equipped with telematics.
- The driver was new to the vehicle but a long time employee.
- RTA with multiple vehicles with mix of fatal, serious and minor injuries.
- Own driver one of those fatally injured.
- Telematics data available and stored by the haulage firm.
- Vehicle movements for last 12 months tracked.
- Suggestion that HGV had issues with its brakes.

AN EVIDENCE BASED ADVERSARIAL SYSTEM



- Police accident investigation.
- Insurance company investigation.
- Possible HSE investigation.
- Inquest/Coroner's Court.
- Magistrates' Court or Crown Court prosecution.
- County Court or High Court action.
- Multiple stakeholders at every stage.

YOUR DISCLOSURE OBLIGATIONS



- Police & Criminal Evidence Act 1984
- HSE Enforcement Policy Statement
- Civil Procedure Rules
 - the obligation to give disclosure
 - The tests: relevance and control (possession or right to inspect)
 - Documents adverse to own or another's case

Data Protection Act exemption: s35- disclosures required by law or in connection with legal proceedings

MATERIAL FOR DISCLOSURE



Electronic documents contained on or created by	
PCS	Portable data storage media
Databases	Servers
Back-up tapes	Off-site storage
Mobile phones	Laptops
Notebooks	Handheld devices
PDA devices	Paper-based files/records
Mail files	Document files
Calendar files	Web-based applications
Spreadsheet files	Graphic & presentation files

LEGAL INTERROGATION OF TELEMATIC DATA



- What does a lawyer want to know?
- Pre-accident the who/what/how/why of:
 - Recording
 - Monitoring
 - Analysing
 - Knowledge management and application
- Post accident
 - Vehicle speed, braking, vehicle movement, malfunction
 - Driver hours and behaviour on the specific journey
 - Employer historical records for the driver and vehicle
- Was a duty of care created by this information and if so, what?

MANAGING WORK-RELATED ROAD SAFETY



- Health and Safety at Work Act 1974
- Road Traffic Act 1988
- Road Traffic (Construction and Use) Regulations 1986
- Driving at Work: Managing work-related road safety. Industry Guidance.
 HSE guidance document 382.
- www.hse.gov.uk/pubns/indg382.htm
- Comply with the guidance; Comply with the law



- Revised in 2013, moved away from the traditional "POPMAR" (Policy, Organisation, Planning, Measuring, Audit and Review)
- New system "plan, do, check, act"
- Plan describe how you manage health and safety in your organisation and plan how to make it happen in practice.

Includes: assessment of risks, production of a health and safety policy ensuring there is top level commitment to work related road safety within the organisation and clearly setting out everyone's roles and responsibilities for work related road safety.



- Do prioritise and control your risks, consult your employees and provide training information. This includes ensuring that there are adequate systems in place to manage work related road safety effectively including regular vehicle inspections, servicing etc and providing training and instruction where necessary.
- Check measure how you are doing which includes monitoring performance to ensure your work related road safety policy is effective and has been implemented and encouraging employees to report all work related road incidents or near misses.
- Act review your performance and learn from your experience which includes making sure that you collect enough information to allow you to make informed decisions about the effectiveness of your existing policy and the need for changes and regularly revisiting the health and safety policy to check if it needs to be updated.

CRITICAL H&S ISSUES IN SCENARIO?



- The vehicle choice, procurement and maintenance.
- Telematics on vehicles;
- Procedures for communication/monitoring of Telematics information within organisation
- New driver
- Root cause analysis RTC v. H&S?

CONSEQUENCES?



- Corporate Manslaughter and Corporate Homicide Act 2007
- Health and Safety At Work Act 1974, Section 2
- Health and Safety At Work Act 1974, Section 7
- Health and Safety At Work Act 1974, Section 37
- Road Traffic Act 1988

FINALLY...



Some (brief) observations on evidence led on Telematics and use of vehicle technology within the Glasgow bin Lorry case – 22nd December 2014.





RISK MANAGED MOTOR CLAIMS AND THE UNDERWRITING IMPACT – A TOOLKIT FOR FLEET MANAGERS 30 SEPTEMBER 2015





Agenda

- Benefits of good claims reporting.
- Example report types and styles.
- Using data as part of cost of claims reduction strategy.
- Beyond data.

MARSH RISK CONSULTING

Benefits of Good Reporting

- Programme design and costs informed decisions when considering insurance terms and risk retention levels.
- Risk reduction empowers management them to make decisions about risk reduction.
 - Different levels of detail board versus fleet manager/departmental head, etc.
- Increased understanding of :
 - Causes.
 - Departments.
 - Trends.
- Best practice identifying as a basis for standardisation:
 - Within the organisation.
 - Against peer group (benchmarking).
 - Identifying sector/activity variations.
- Improved performance drive and monitor through target based reports.

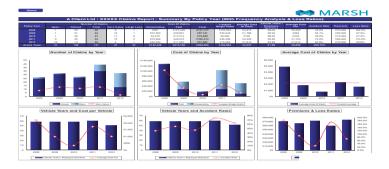
Claims Reporting – Overview

Generally what should your management information show you?

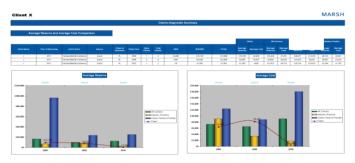
Current position – where you are.

Trends – where you are going.

 Performance against peer group – how you compare to similar entities.







Issues With Claims Reporting

Data consistency

- Volume of data.
- Relating claims to organisational sectors/managers.
- Data quality.
- Above and below deductible (associating costs).

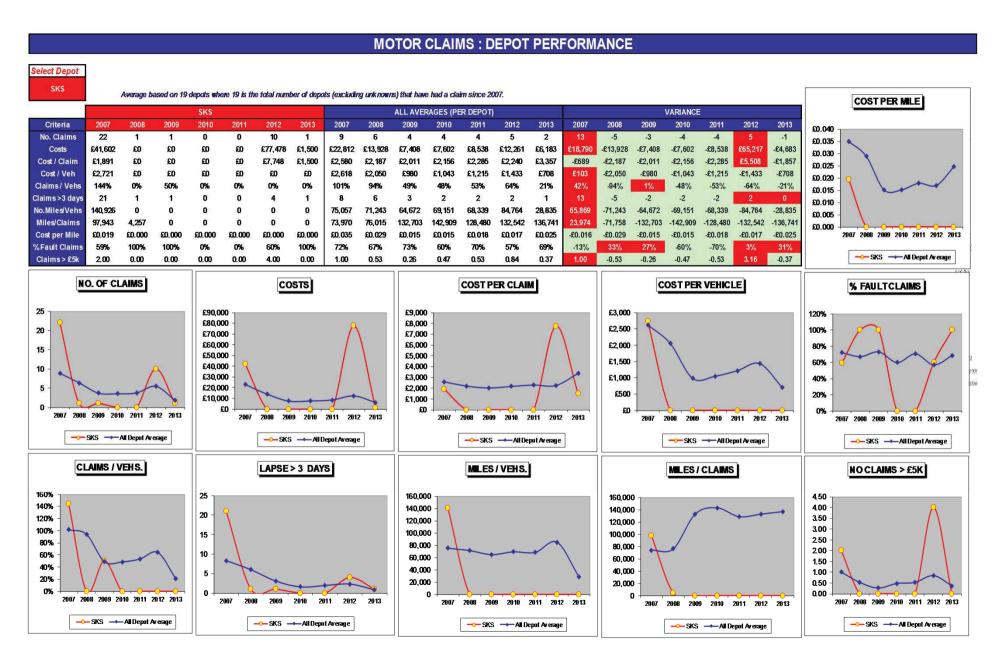
Types of reports

- Conventional reporting.
- Volumes => interactive reporting.
- Target/performance based reporting.
- Benchmarking between departments/between clients.

Audience

- Responsible client managers.
- Departmental responsibilities, departmental heads, accountants, risk managers.
- Underwriters, etc.

Sample Reports - Interactive and Organisational/Regional



Sample Reports - League Table Reporting

A Client Ltd: XXXXXX Claims Report: Summary By Division (Leaderboards)

			Yea	rly Division Le	eaderboards	3				
Select Divi	sion of Interest			-	Divisio	on 1				
	2008		2009		2010		2011		2012	
Division	Total	Division	Total	Division	Total	Division	Total	Division	Total	
Division 5	22	Division 1	34	Division 3	22	Division 1	12	Division 5	5	
Division 1	18	Division 5	28	Division 5	19	Divison 3	12	Division 1	4	
Division 3	17	Division 2	16	Division 1	9	Division 5	6	Division 3	2	
Division 2	4	Division 3	14	Division 2	9	Division 4	6	Division 2	2	
Division 4	3	Division 4	7	Division 4	4	Divison 2	5	Division 6	0	
Division 6	0	Division 6	1	Division 6	0	Division 6	0	Division 4	0	
Grand Total	64	Grand Total	100	Grand Total	63	Grand Total	41	Grand Total	13	
	2008	200	9	201	2010		2011		2012	
Division	Total	Division	Total	Division	Total	Division	Total	Division	Total	
Division 1	£48,187	Division 5	£83,963	Division 3	£152,781	Division 1	£45,692	Division 5	£12,362	
Division 5	£38,611	Division 1	£73,988	Division 5	£30,598	Divison 3	£30,603	Division 1	£8,623	
Division 2	£22,456	Division 3	£23,158	Division 1	£4,012	Division 5	£5,250	Division 3	£2,369	
Division 3	£11,394	Division 2	£19,731	Division 2	£3,526	Division 4	£4,463	Division 2	£1,124	
Division 4	£8,965	Division 4	£1,213	Division 4	£999	Divison 2	£3,963	Division 6	£0	
Division 6	£0	Division 6	£850	Division 6	03	Division 6	£0	Division 4	£0	
Grand Total	£129,614	Grand Total	£202,902	Grand Total	£191,917	Grand Total	£89,971	Grand Total	£24,478	
	2008	200	2009		2010		2011		2012	
Division	Total	Division	Total	Division	Total	Division	Total	Division	Total	
Division 1	£2,677	Division 5	£2,999	Division 3	£6,945	Division 1	£3,808	Division 1	£2,156	
Division 5	£2,145	Division 1	£2,642	Division 5	£1,391	Divison 3	£2,550	Division 5	£3,091	
Division 2	£1,248	Division 3	£827	Division 1	£182	Division 5	£438	Division 2	£281	
Division 3	£633	Division 2	£705	Division 2	£160	Division 4	£372	Division 3	£592	
Division 4	£498	Division 4	£43	Division 4	£45	Divison 2	£330	Division 4	£0	
Division 6	£0	Division 6	£30	Division 6	£0	Division 6	£0	Division 6	£0	
Grand Total	£2,025	Grand Total	£2,029	Grand Total	£3,046	Grand Total	£2,194	Grand Total	£1,883	

Executive Summaries

This Executive Summary compares the period from February 2013 to May 2013 The previous report covered the period from 01/01/08 to 31/01/13

This report covers the period from 01/01/08 to 30/04/13

Positive Variance = 0.1. Negative Variance = -0.1.

Total Claims	Open	Closed
22.7%	30.0%	16.7%
110 to 135	50 to 65	60 to 70
Largest Claim		Average Claim
	Employers'	
20.0%	Liability	3.5%
£100,000 to £120,000	Liability	£10,909 to £11,296
Outstanding	Paid	Total Incurred
23.1%	31.8%	27.1%
£650,000 to £800,000	£550,000 to £725,000	£1,200,000 to £1,525,000

Total Claims	Open	Closed		
25.0%	20.0%	40.0%		
20 to 25	15 to 7	5 to 7		
Largest Claim		Average Claim		
	Droporty			
33.3%	Property	28.0%		
£225,000 to £300,000		£50,000 to £64,000		
Outstanding	Paid	Total Incurred		
56.3%	75.0%	60.0%		
£800,000 to £1,250,000	£200,000 to £350,000	£1,000,000 to £1,600,000		

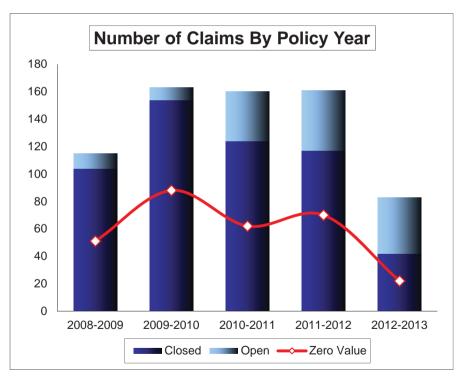
Total Claims	Open	Closed
	▼	
5.3%	-3.3%	11.1%
75 to 79	30 to 29	45 to 50
Largest Claim	Dud. Ca	Average Claim
	Public	
6.9%	Liability	1.3%
£58,000 to £62,000		£10,000 to £10,127
Outstanding	Paid	Total Incurred
V		
-5.6%	25.0%	6.7%
£450,000 to £425,000	£300,000 to £375,000	£750,000 to £800,000

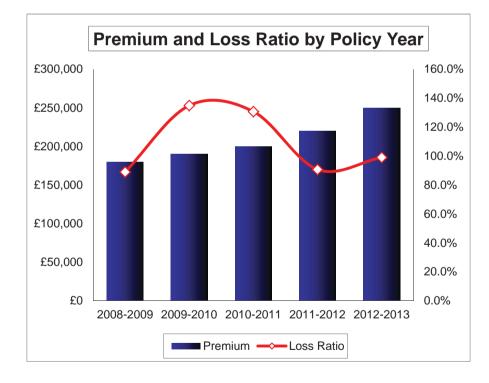
Total Claims	Open	Closed	
10.9%	11.4%	10.0%	
550 to 610	350 to 390	200 to 220	
Largest Claim		Average Claim	
	Motor		
6.3%	MOTOL	-1.2%	
£80,000 to £85,000		£3,818 to £3,770	
Outstanding	Paid	Total Incurred	
12.5%	5.6%	9.5%	
£1,200,000 to £1,350,000	£900,000 to £950,000	£2,100,000 to £2,300,000	

Summary By Year

A Client Ltd: XXXXX Claims Report: Summary By Policy Year (Loss Ratios)

Policy Year	Number Of Claims					Cost Of Claims			Largest Single	Average Cost Of	Premium	Loss Ratio
	Open	Closed	Total	Zero Value	Large Loss	Outstanding	Paid	Total	Claim	Claim	Fieliliulii	LUSS Ratio
2008-2009	11	104	115	51	1	£21,477	£138,669	£160,146	£17,049	£1,393	£180,000	89.0%
2009-2010	9	154	163	88	8	£52,421	£203,891	£256,312	£35,981	£1,572	£190,000	134.9%
2010-2011	36	124	160	62	6	£55,177	£205,843	£261,421	£23,021	£1,634	£200,000	130.7%
2011-2012	44	117	161	70	3	£81,292	£118,160	£199,451	£20,314	£1,239	£220,000	90.7%
2012-2013	41	42	83	22	8	£164,281	£83,307	£247,588	£26,477	£2,983	£250,000	99.0%
Grand Total	141	541	682	293	26	£374,648	£749,870	£1,124,919	£35,981	£1,649	£1,040,000	108.2%

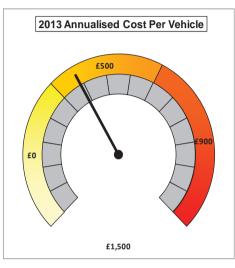


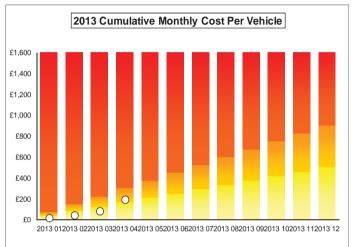


Sample Reports – Target Reporting Gauges

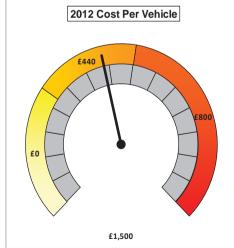
A Client Ltd: XXXXX Claims Report: Monthly Costs Analysis

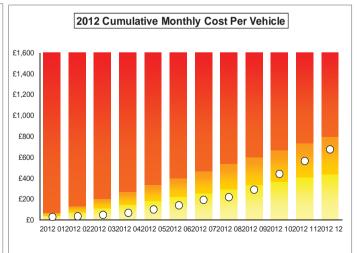
Current Policy Year								
Vehicles	600	Min	£500	Max	£900			
Loss Month	Monthly Cost	Monthly Cost Per Vehicle	Cumulative Cost Per Vehicle	Cumulative Minimum Target	Cumulative Maximum Target			
2013 01	£9,853	£16	£16	£42	£75			
2013 02	£15,425	£26	£42	£83	£150			
2013 03	£24,986	£42	£84	£125	£225			
2013 04	£66,586	£111	£195	£167	£300			
2013 05				£208	£375			
2013 06				£250	£450			
2013 07				£292	£525			
2013 08				£333	£600			
2013 09				£375	£675			
2013 10				£417	£750			
2013 11				£458	£825			
2013 12				£500	£900			
Year to Date	£116,850	£195		£167	£300			
Pro-Rate Year	£350,550	£584		£500	£900			



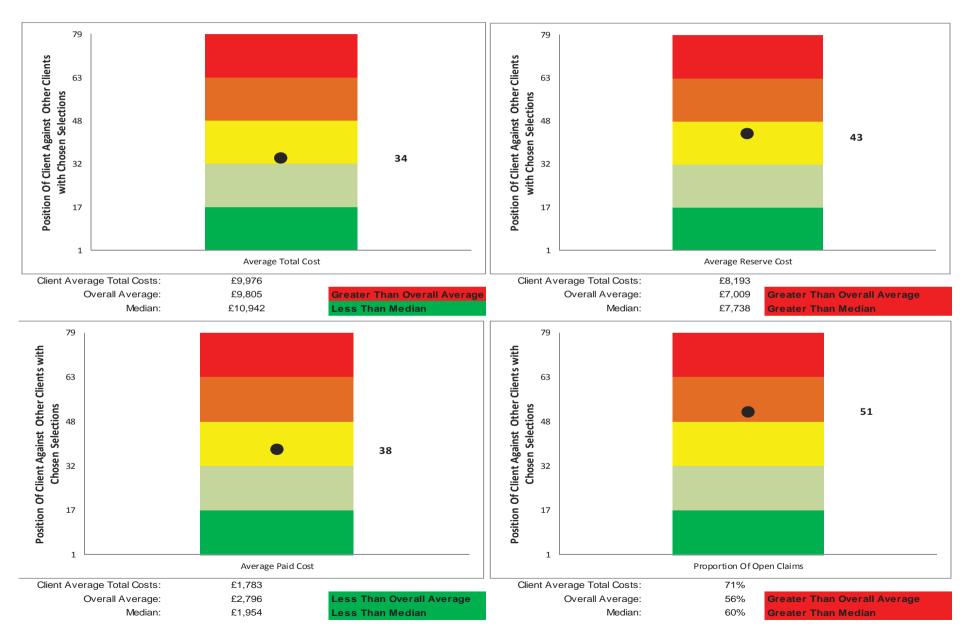


Previous Policy Year								
Vehicles	600	Min	£440	Max	£800			
Loss Month	Monthly Cost	Monthly Cost Per Vehicle	Cumulative Cost Per Vehicle	Cumulative Minimum Target	Cumulative Maximum Target			
2012 01	£16,583	£28	£28	£37	£67			
2012 02	£4,422	£7	£35	£73	£133			
2012 03	£9,996	£17	£52	£110	£200			
2012 04	£10,525	£18	£69	£147	£267			
2012 05	£17,536	£29	£98	£183	£333			
2012 06	£25,365	£42	£141	£220	£400			
2012 07	£31,365	£52	£193	£257	£467			
2012 08	£15,336	£26	£219	£293	£533			
2012 09	£41,593	£69	£288	£330	£600			
2012 10	£89,996	£150	£438	£367	£667			
2012 11	£75,000	£125	£563	£403	£733			
2012 12	£69,535	£116	£679	£440	£800			
Year to Date	£407,252	£679		£440	£800			
Pro-Rate Year	£407,252	£679		£440	£800			





Benchmarking Reports Quintile Analysis



Managing Cost of Claims

- Changes to the Ministry of Justice's road traffic accident portal
- First Notification of Loss (FNOL) procedures are still key.
- However, beware of third party capture pitfalls:
 - Key to key time.
 - Hire cars versus courtesy cars.
 - Transparency on costs.

Problems

Unable to correctly allocate costs internally:

- Internal friction with other departments.
- Lack of co-operation.

Unable to take appropriate corrective action.

Increasing claims costs.

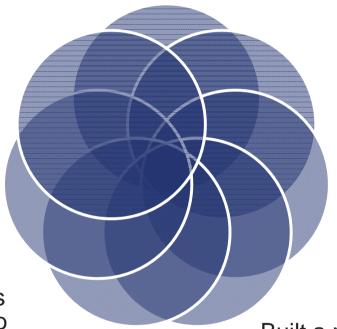
Limited claims information.

Limited understanding of why costs increasing:

- Claims leakage.
- Ineffective fleet risk management.

Action

Monitored progress of all claims and ensure effective insurer handling.



Created standard database to enable analysis.

Changed FNOL style to concentrate on causation and liability.

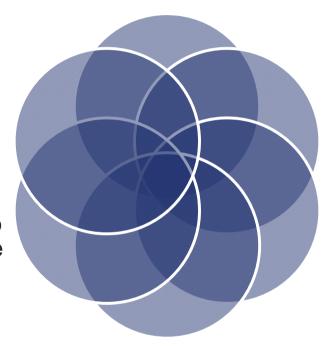
Supplied all drivers with bump cards so they knew which information they needed to collate.

Built a risk profile of every driver based on volume, severity, type of claim, type, and number of points on licence, and years driving experience.

Use of Data

Introduced system of driver training based on risk profile.

Created Fleet Risk Forum – to share best practice around the business. Well performing contracts were asked to present what they were doing and how it was impacting.



Correct allocation of costs internally, meant the right part of the business was being penalised for incidents.

Bespoke monthly reports for each operational division which were followed by discussions around claim causes and trend analysis.

Created league tables – put different parts of the business in competition against each other.

The Results

19.5% reduction in average cost per claim in first year

21%
reduction in accident frequency over next two years

26%
reduction in claims cost per vehicle over next two years

25%
reduction in premium which equated to £700,000 per year



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