



ARDENT
HIRE SOLUTIONS



01

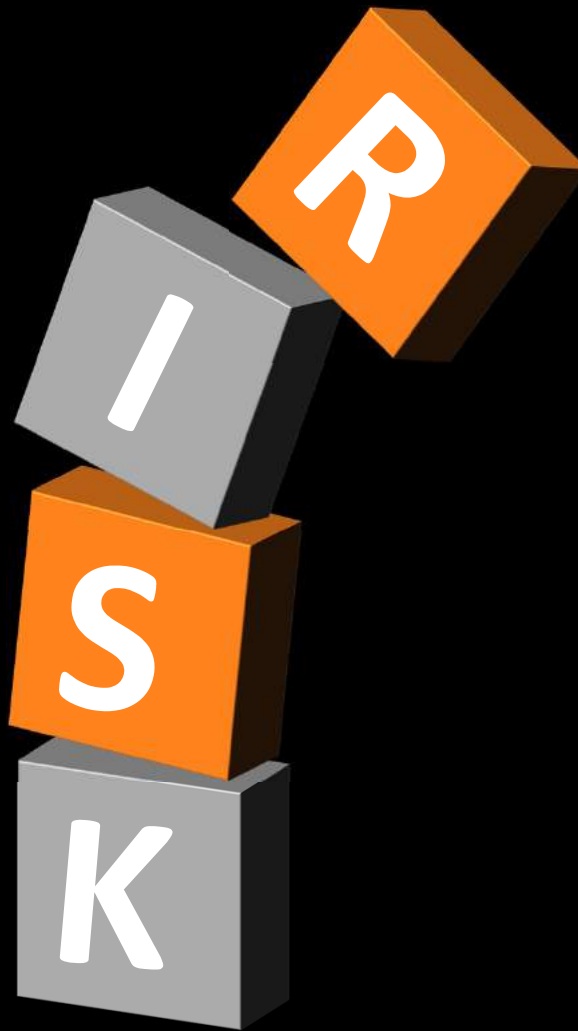
INTRODUCTION



**1 person killed every 7
days on a construction
site**

**1 fatality every 3 days
involving a vehicle**

**2 people died every 3
days at work**



**£73m in fines for
health and safety
breaches**

2018



ARDENT





02

SITE MANAGER





'Intelligent' hiring with Site Manager



Site Manager is the only software tool in the hire industry today that provides a practical solution for improving productivity, reducing operating costs and reducing risks



EXCAVATORS

Live

Utilisation
Out of hours
Checkmate
H&S alerts



DUMPERS

Live

Seatbelts
Loading/seatbelt compromise
Utilisation
Out of hours
Water in fuel
Air filter block
Low coolant
Oil pressure
Driving at speed
Checkmate
H&S alerts



ROLLERS

Live

Utilisation
Out of hours
Checkmate
H&S alerts



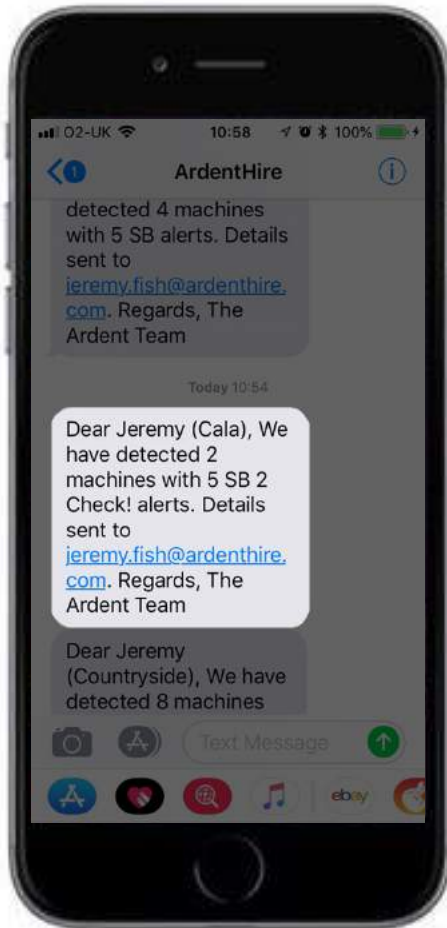
TELEHANDLERS

Live

Seatbelts
Utilisation
Out of hours
Driving at speed
Water in fuel
Idling
Low Battery
Time spent in reverse
Travelling with boom in air
Max speed reached per hour
Checkmate
H&S alerts



Site Manager: Hot Alerts



1 2 3 4 5 6 7 8 9 10 11 12 13 14

Dear Jeremy (Cala)

Please see recent *Hot Alert(s)*.

Customer: CALA HOMES

Division: CALA HOMES (CHILTERN) LTD

Telehandlers

Delivery Address	Machine	WIF	S/B	Check
Aspen Park, Haddenham	14MC0414			1Q
Aspen Park, Haddenham	18MT0073		08:32 (5)	3Q

CheckMate: (Operator answered 'No' to the following questions)

14MC0414 - Have you been given familiarisation for this machine? **(3 DAYS RUNNING)**

14MC0414 - Quality Check - test performed in 7 seconds

18MT0073 - Have you been given familiarisation for this machine? **(2 days running)**

18MT0073 - Is the seat belt fully operational?

18MT0073 - Are glazing and visual aids in good order?

18MT0073 - Quality Check - test performed in 9 seconds

Parameter Settings:

Hot Alerts (notified hourly and daily - including weekends)

Telehandlers

WIF - Water in Fuel

S/B - Seat Belts

Check - CheckMate daily machine check (*)

Excavators

None selected

Mini Excavators, Dumpers and Rollers

Check - CheckMate daily machine check (*)





Case Study: Edwalton Fields, March '18





Case Study: Reducing risk

Customer				Utilisation %			Hours		Fuel Cost		Fuel Idle		CO2	Alerts			
Sites		Fitted	Rank	Util	Var	Idle	Engine	Idle	£	Litres	£	Litres	kg	Bat	WIF	S/B	DaS
Edwalton Fields, Edwalton		2	1	74.1	23.7	23.5	154.9	36.4	735	826	65	72	2,197	0	0	0	0
Customer				Utilisation %			Hours		Fuel Cost		Fuel Idle		CO2	Alerts			
Account	Sites	Fitted	Rank	Util	Var	Idle	Engine	Idle	£	Litres	£	Litres	kg	Bat	WIF	S/B	DaS
BOVIS HOMES LIMITED (MERCIA)	13	14	4	51.7	1.3	27.4	1,674.2	459.1	8,734	9,813	747	839	26,103	0	0	1,277	0
BOVIS HOMES LIMITED (SOUTHERN)	12	20	5	51.5	1.1	27.2	2,183.1	593.7	10,508	11,807	997	1,119	31,407	0	0	246	5
BOVIS HOMES LIMITED (WESTERN REGION)	11	18	3	52.0	1.6	23.7	1,883.4	447.2	9,411	10,574	735	826	28,127	0	0	1,307	5
BOVIS HOMES LIMITED (NORTHERN HOME)	16	22	1	54.4	4.0	29.4	2,559.2	753.1	12,612	14,171	1,231	1,383	37,695	0	0	1,064	2
BOVIS HOMES LIMITED (WEST MIDLANDS)	15	19	7	43.0	-7.4	18.3	1,589.6	291.3	8,325	9,354	474	532	24,882	0	0	148	9
BOVIS HOMES LTD (SOUTH EASTERN REGION)	14	20	2	53.7	3.3	25.8	2,317.8	598.1	11,826	13,288	1,021	1,147	35,346	0	0	592	3
BOVIS HOMES LTD (SOUTH WEST)	16	18	6	45.8	-4.6	24.8	1,631.3	404.7	8,199	9,212	657	738	24,504	0	0	1,672	0
131				50.4			13,838.7	3,547.2	£69,615	78,219	£5,862	6,584	208,063	0	0	6,306	24

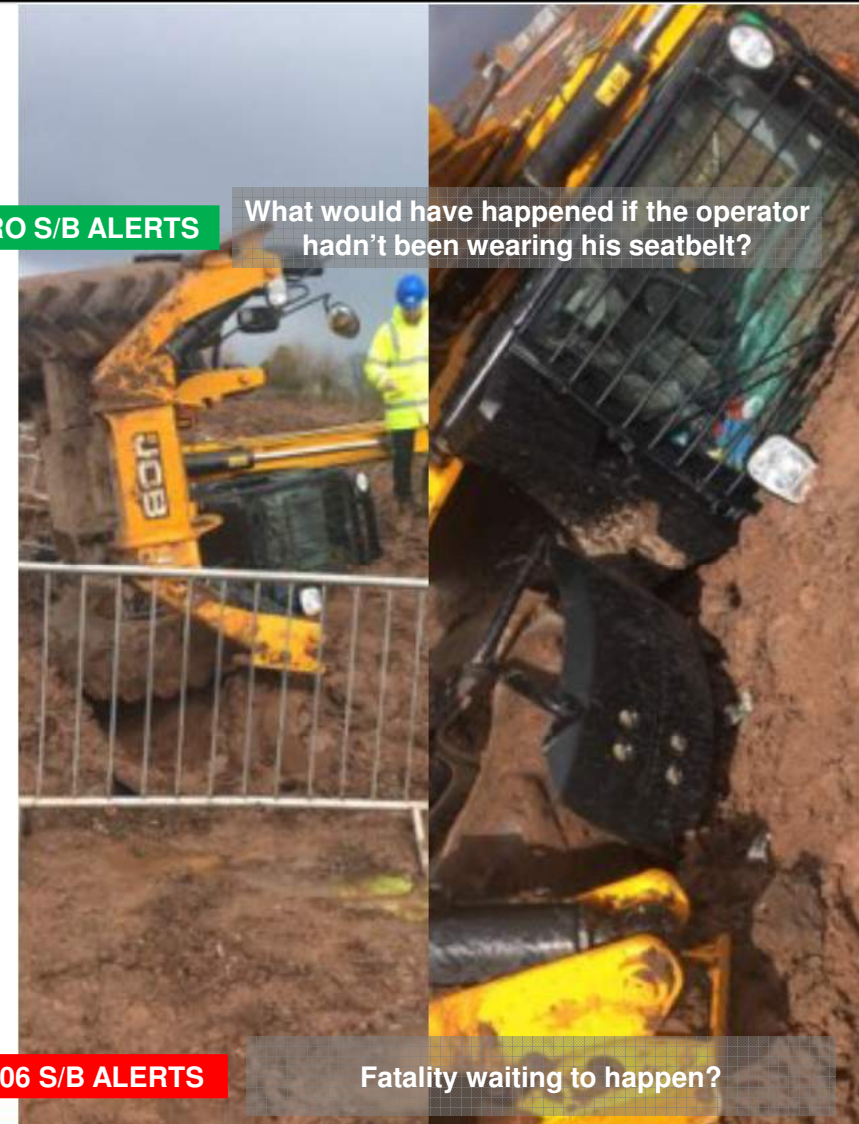
Data is for last calendar month (i.e. March 2018)

ZERO S/B ALERTS

What would have happened if the operator hadn't been wearing his seatbelt?

6,306 S/B ALERTS

Fatality waiting to happen?





All Customer Groups

Jeremy Fish | [Site Manager](#) | [Admin](#) | [Log Off](#)

BOVIS

All divisions

All sites

TELEHANDLERS

EXCAVATORS

MINI EXC

DUMPERS

ROLLERS

OTHER

LAST 12 MONTHS

LAST 6 MONTHS

LAST 3 MONTHS

LAST 1 MONTH

THIS MONTH

LAST WEEK

BY MONTH

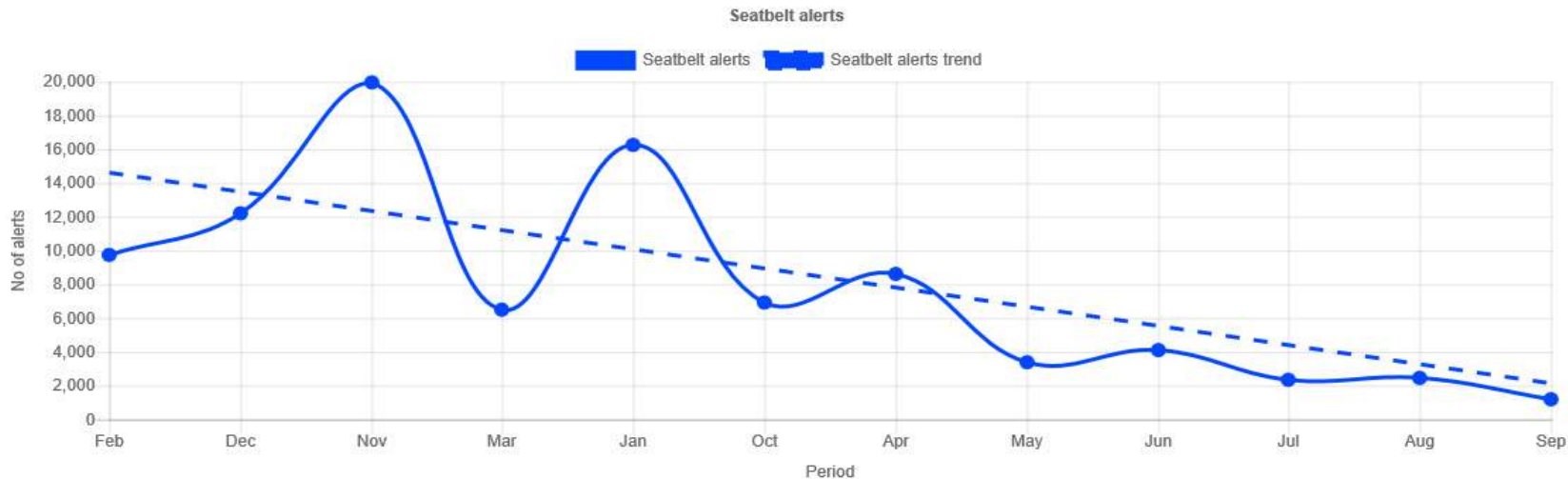
BY WEEK

BY DAY

EMAIL

REPORTS

Seatbelt alerts



Result: Reducing risk to operator safety by reducing the occurrences of a machine being operated without the seatbelt being worn


ARDENT
 SITE MANAGER ANALYTICS

All Customer Groups

Jeremy Fish | [Site Manager](#) | [Admin](#) | [Log Off](#)

BOVIS

All divisions

All sites

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BY MONTH

BY WEEK

BY DAY

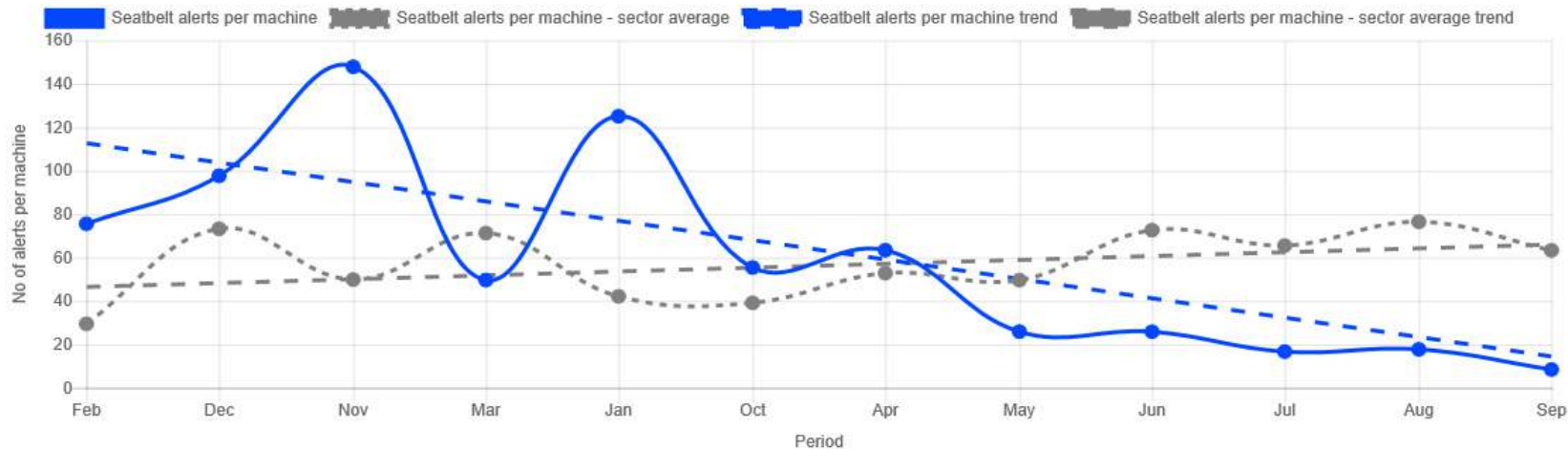
EMAIL

REPORTS

Seatbelt alerts per machine

Sector benchmarking : Housing sector

Seatbelt alerts per machine



Result: Reducing seatbelt alerts per machine compared to increasing seatbelts per machine for peers



All Customer Groups

Jeremy Fish | [Site Manager](#) | [Admin](#) | [Log Off](#)

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BY MONTH

BY WEEK

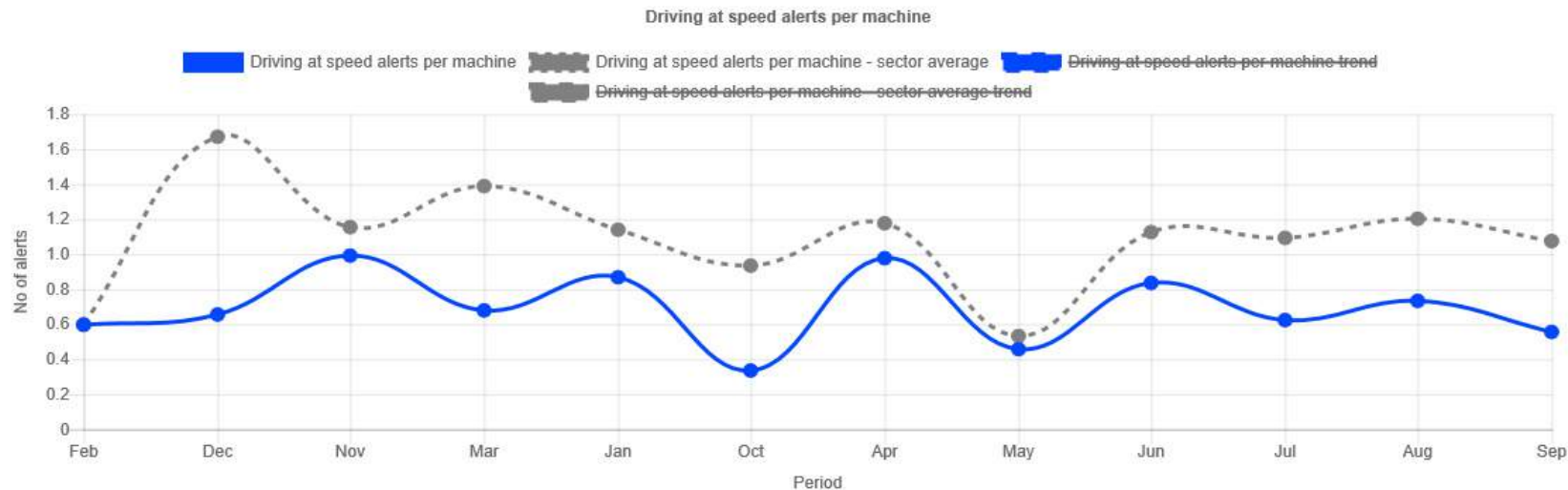
BY DAY

EMAIL

REPORTS

Driving at speed alerts per machine

Sector benchmarking : Housing sector



Result: Improved driving behaviour. Better than peers

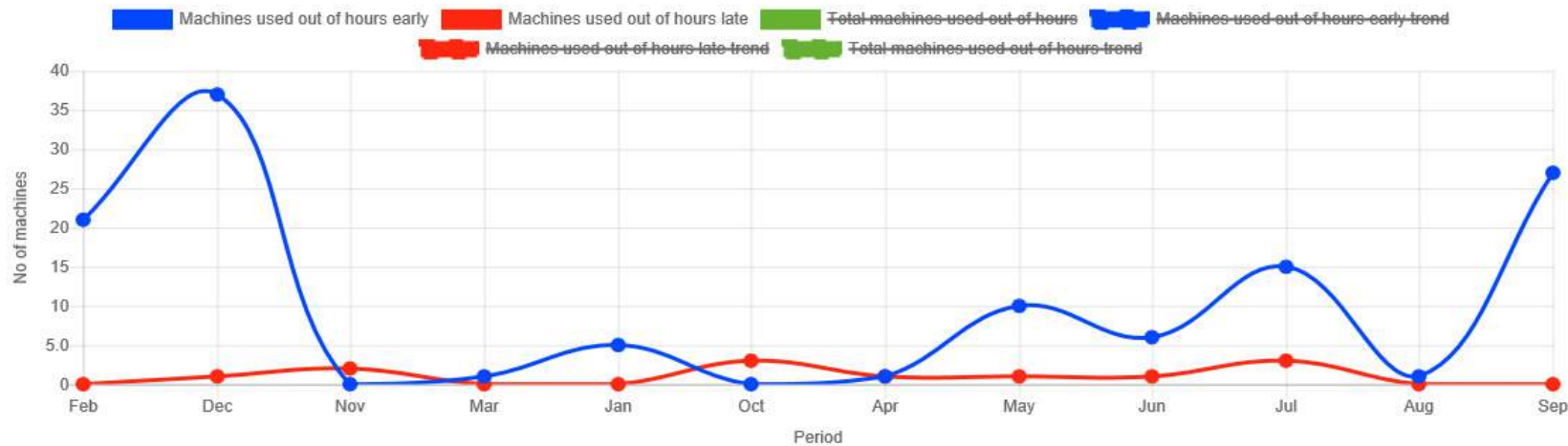


All Customer Groups

Jeremy Fish | [Site Manager](#) | [Admin](#) | [Log Off](#)

BOVIS <input type="button" value="v"/>		All divisions <input type="button" value="v"/>		All sites <input type="button" value="v"/>	
TELEHANDLERS	EXCAVATORS	MINI EXC	DUMPERS	ROLLERS	OTHER
LAST 12 MONTHS	LAST 6 MONTHS	LAST 3 MONTHS	LAST 1 MONTH	THIS MONTH	LAST WEEK
BY MONTH	BY WEEK	BY DAY		EMAIL	REPORTS
Machines used out of hours <input type="button" value="v"/>					

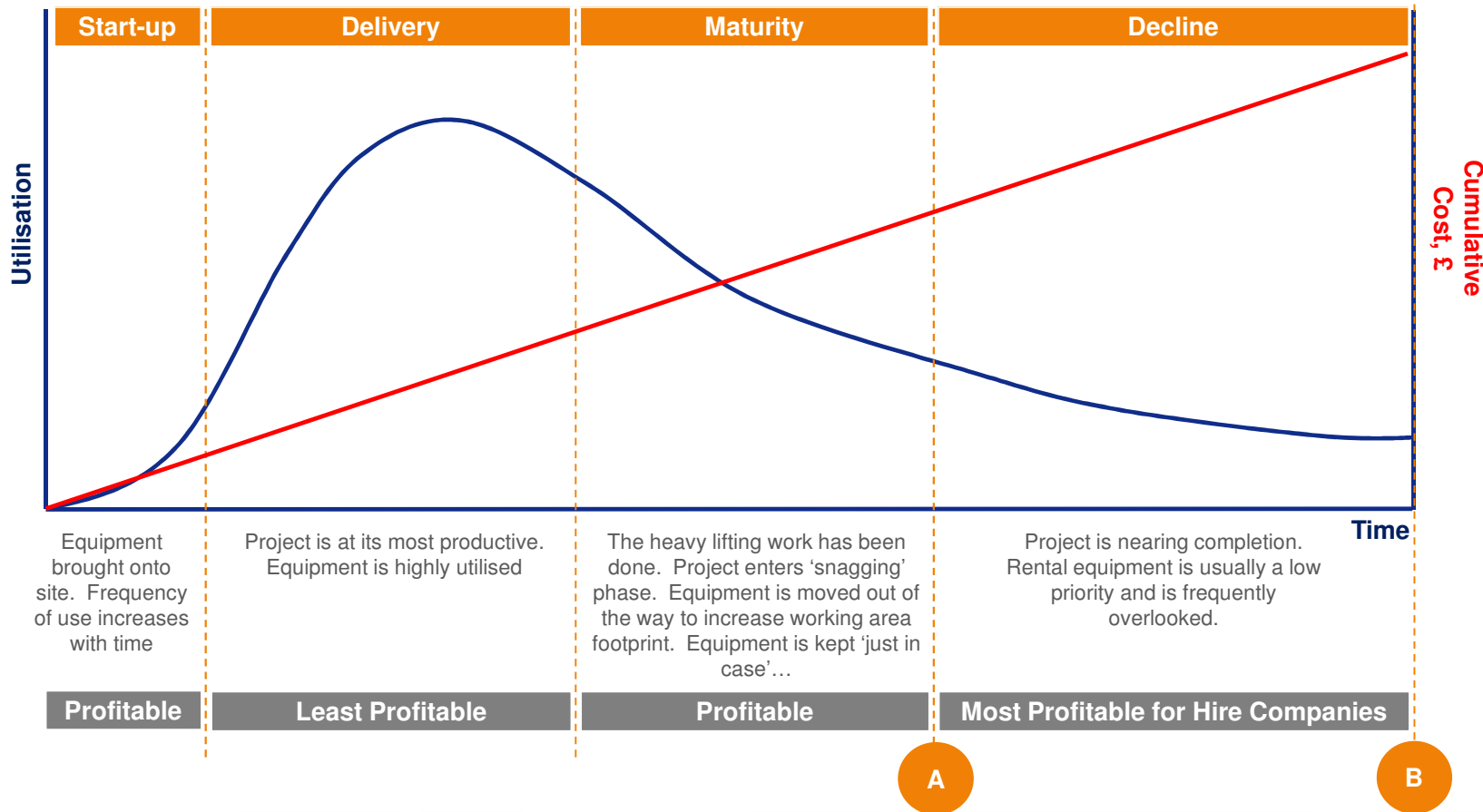
Machines used out of hours



Result: Reduced theft opportunity by identifying out of hours utilisation and reduce lone working risk



Case Study: Reduce operating costs



- Many sites off-hire equipment on a '**reactive**' basis – i.e. point 'B'.
- Site Manager prompts customers to off-hire equipment on a '**proactive**' basis – i.e. point 'A'.
- Users create utilisation 'thresholds' which trigger alerts if utilisation falls short.
- Alerts are emailed to users daily. Alerts include a link that can be used to off-hire equipment.
- If equipment is off-hired early, it can be more cost-effective to pay the transport to bring it back on site rather than paying ongoing rental charges.
- Depending on the number of machines on hire and the duration of the project, savings (i.e. the difference between 'A' and 'B') can range from £hundreds to £tens of thousands.



Case Study: How to save £100k a year



All Customer Groups

Jeremy Fish | [Site Manager](#) | [Admin](#) | [Log Off](#)BOVIS All divisions All sites

TELEHANDLERS

EXCAVATORS

MINI EXC

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OTHER

LAST 12 MONTHS

LAST 6 MONTHS

LAST 3 MONTHS

LAST 1 MONTH

THIS MONTH

LAST WEEK

BY MONTH

BY WEEK

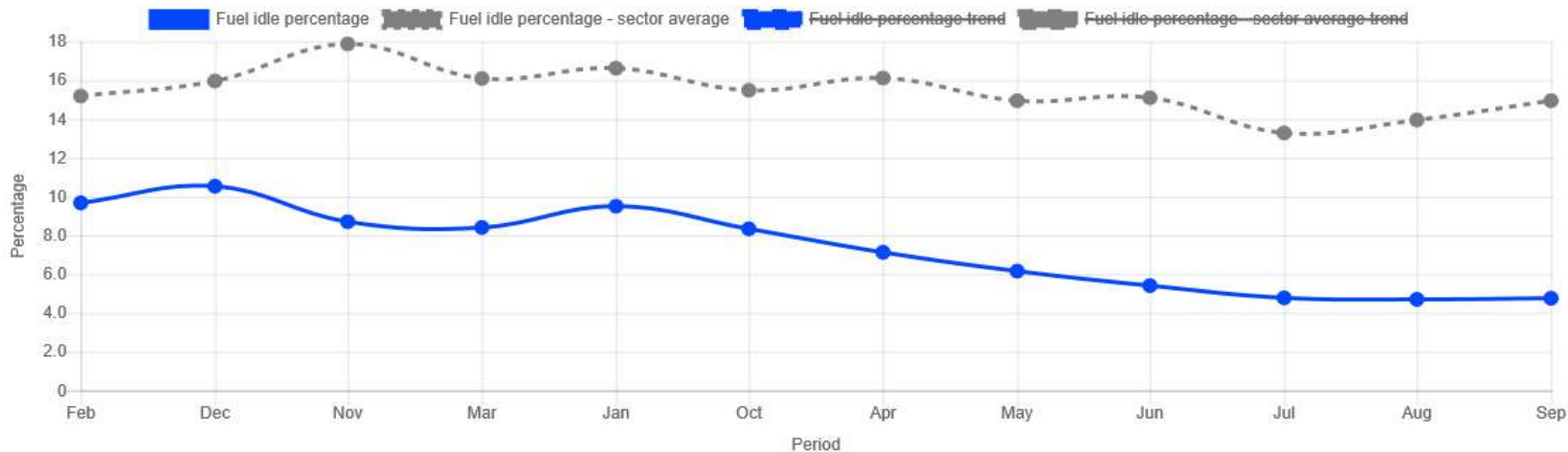
BY DAY

EMAIL

REPORTS

Fuel used in idle as a percentage Sector benchmarking : [Housing sector](#)

Fuel used in idle as a percentage of fuel consumed



Result: Fuel idling as a %age of fuel consumed has halved. On average it is 10% below peers



Case Study: How to save £300k a year



All Customer Groups

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BOVIS

All divisions

All sites

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LAST 12 MONTHS

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LAST WEEK

BY MONTH

BY WEEK

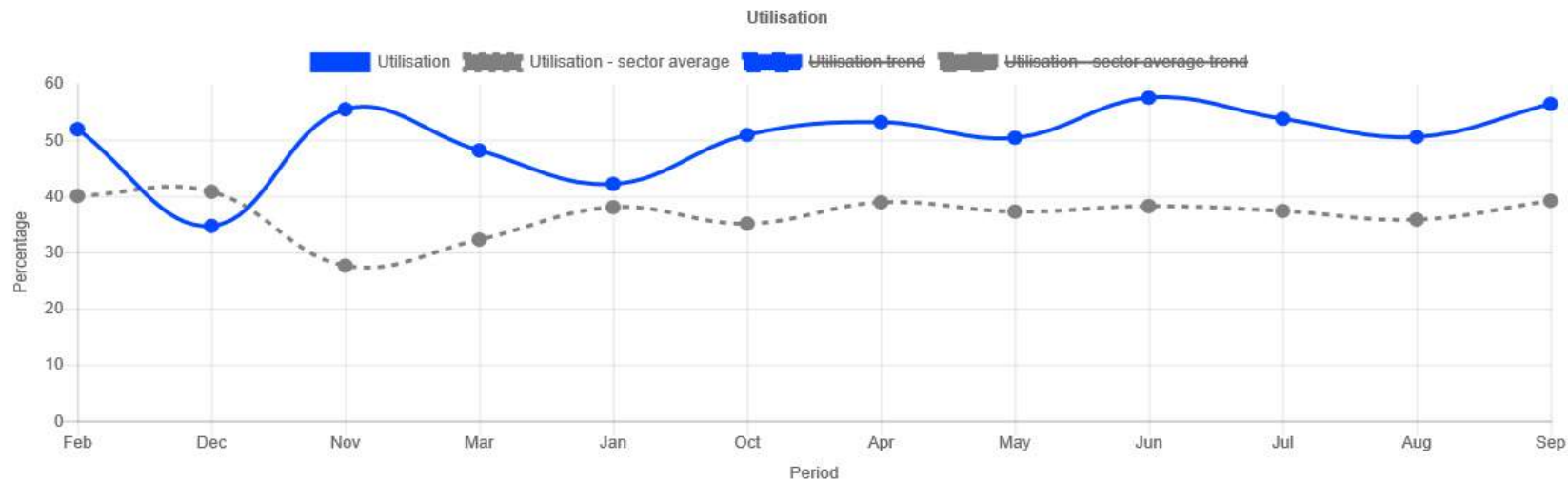
BY DAY

EMAIL

REPORTS

Utilisation

Sector benchmarking : Housing sector



Result: Improving utilisation above industry peers



03

ARDENT TV





Kean Hancox ▶ Telehandler Operators UK & Ireland

8 hrs · 🌐

Help!! What is this warning for?



👍 1

23 Comments

👍 Like

💬 Comment



Anthony William Palk ▶ Telehandler Operators UK & Ire...

16 July 2018 at 12:50 · 🌐

Anyone know what this fault code means



Mika Patara ▶ Telehandler Operators UK & Ireland

16 May 2018 at 21:51 · London · 🌐

How to fix this lads?



Marcus Jones ▶ Telehandler Operators UK & Ireland

7 February at 08:08 · 🌐

Anyone know what this is see on here other day but can't remember





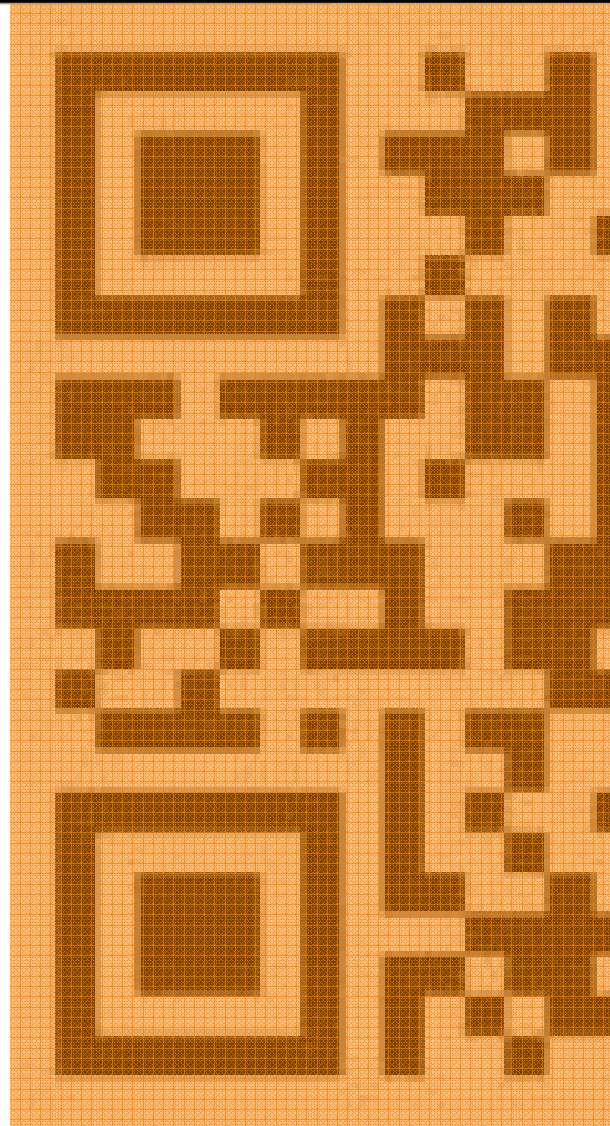
Online Site Support



- Ardent offers online site support to help minimise downtime, inconvenience and potential damage caused by misuse.
- The sticker is located inside the telehandler cab – online support can be accessed by scanning the QR code.
- A QR code scanner app is available for download from the Ardent web site.
- This is a free of charge service that is available on all Ardent telehandlers and excavators.

Benefits:-

- Reduces downtime;
- Reduces operating costs caused by downtime;
- Reduces potential damage to equipment and charges.

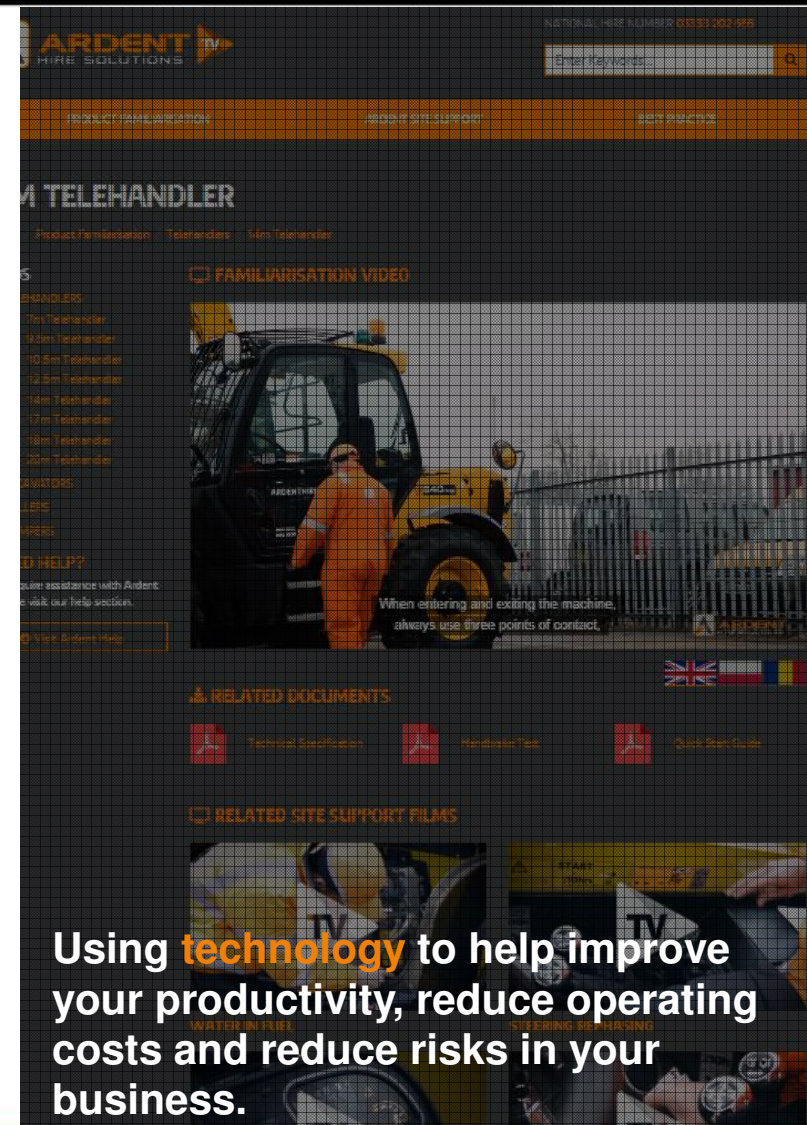




- Ardent is now able to help customers meet these obligations with its new familiarisation videos that are delivered through Ardent TV.
- Requested by the customer to the hire desk at the point of order.
- Delivered by our driver.
- Available in English & Polish (*Romanian available from Nov 2018*).

Benefits:-

- Consistency in content and delivery;
- Operator knowledge is tested at the end of each session;
- A familiarisation certificate is provided on successful completion – along with an expiry date;
- Each session takes 15-20 mins;
- Reduces downtime arising from lack of operator knowledge or experience;
- Reduces the risk of damage through incorrect use or neglect.





RR1000 identifies IOOC as a serious issue that can be avoided with technology

- RR1000 - Health and Safety Laboratory for the HSE 2014 - "Inadvertent operation of controls (IOOC) in excavator plant – insight, analysis and recommendations for prevention by design"
 - "...inadvertent operation of excavator controls has the potential to cause serious injury or death; whether or not injury occurs is only a matter of chance."
 - RR1000 concluded that IOOC is an important safety issue in the construction industry
 - "...there are a number of viable and usable technical solutions...to IOC prevention"
 - "The operator view was that IOOC risk could be reduced through improved excavator design and the introduction of new technology"
 - "Forgetting control setting[s]" and "operating wrong switch" (page vii) were explanations identified by operators for IOOC.
 - "IOOC is an issue that spans all manufacturers of excavator equipment." (p24)
 - "IOOC occurs reasonably frequently." (p24)
 - Most major accidents occur within 12 hours of equipment handover.
-
- Section 9 (part II) of the PUWER 1998 regulations places obligations on employers to provide familiarisation awareness on work equipment.



Responsibilities and guidance for equipment familiarisation are provided in CPA1401 “Competence to Operate Construction Plant”

- Strategic Forum for Construction Plant Safety Group: “Competence to Operate Construction Plant”, CPA1401, first published in May 2014
- P23, section 7.1 “Familiarisation”
- “...It is therefore essential that operators and supervisors are given adequate familiarisation on an unfamiliar type of model of the plant and/or attachment on which they have not been trained, before they begin operations. **The employer of the operator is responsible for ensuring that familiarisation is undertaken**”.
- Familiarisation can be carried out by a “competent and authorised person”.
- Familiarisation “should be recorded by both the provider and the employer of the operator”.
- Should include:-
 - Layout and use of controls
 - Machine specific safe working procedures for connection and disconnection of attachments
 - Visual inspections
 - Pre-start checks



04

CHECKMATE

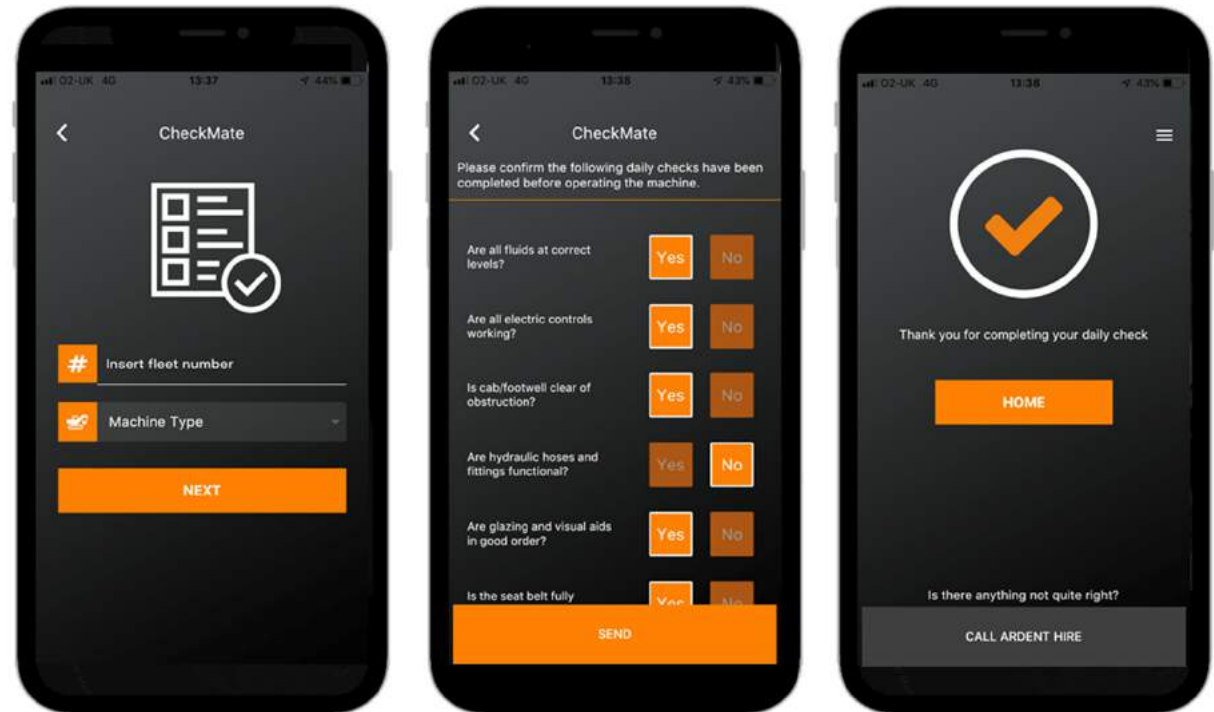




CheckMate

Available as part of Site Manager

- All businesses must ensure that their equipment is used and maintained correctly to reduce the risk of accidents or damage to health and to meet health and safety requirements. Under health and safety law, employers have a duty to minimise risks to employees
- Regular equipment inspections can help identify potential faults before they develop into costly and dangerous defects
- Reduces damage costs
- Reduces risks of accident
- Promotes safe working and best practice
- Follows guidelines in the manufacturers' operating manuals





Working with Ardent

The difference between ordinary and extraordinary is just a little extra

