

Fire Cover Review: Efficiency Savings

Nottinghamshire Fire and Rescue Service

Final Report

30 September 2022



Executive Summary

Some of the key points arising are as follows:

- It is possible to make £1.5m of savings with an optimal reduction in pumping appliance provision while expected response times remain within the NFRS response target.
- It is possible to make £0.8m of savings and to improve expected average first pump performance to all incidents.
- Ashfield station was often selected as a station to deploy a wholetime pump from (currently it is a day-crewed and on-call station), even in options with an overall reduction in pumping appliance provision.
- A relevant outcome from the fire cover review that ORH undertook for NFRS in 2021 was that there is potential for NFRS to improve wholetime turnout times. This could negate some of the response performance impacts associated with reducing pumping appliance provision.
- NFRS currently performs narrowly within its response target. There is the potential that, even with no material changes to the service, response times could fall just outside target due to natural variation.
 - In this report, while it comments on whether expected performance will remain in target, the closer times are to eight minutes, the greater likelihood that they could fall just outside depending on the reporting period.

Introduction

Nottinghamshire Fire and Rescue Service (NFRS) commissioned Operational Research in Health Limited (ORH) to undertake this independent review of alternative pumping appliance deployments.

ORH undertook a comprehensive assessment of risk in 2021 to provide a Community Risk Review and Assessment of Risk. This report builds on that review, but with a focus on the operational service. ORH have identified where changes could be made, while best maintaining operational response times, to meet the needs of efficiencies that may be required.

The models that ORH set up and validated for the 2021 Fire Cover Review are still fit for purpose and were used for this project.

This report does not constitute a stand-alone piece of work, but needs to be considered in the wider NFRS context alongside professional judgement, local knowledge, statutory duties, financial considerations and other strategic priorities.

ORH has significant experience of working with fire and rescue services and other emergency services, with more information provided on the following pages and at http://www.orhltd.com/





ORH helps emergency services around the world to optimise resource use and respond in the most effective and efficient way.

We have set the benchmark for emergency service planning, with a proven approach combining rigorous scientific analysis with experienced, insightful consultancy. Our expert team uses sophisticated modelling techniques to identify opportunities for improvement and uncover hidden capacity. Simulating future scenarios ensures that solutions are objective, evidence-based and quantified.

Every organisation faces a unique set of challenges, so remaining independent and flexible allows us to deliver an appropriate solution every time. The outputs of our work enable clients to make robust, data-driven decisions and explain them clearly to stakeholders.

ORH's approach is always tailored to the needs of the client. Above all, we are committed to getting it right, for the good of our clients and the people who rely on their services.



Scope

The agreed scope between NFRS and ORH is summarised as follows:

Undertake resource modelling, based on the NFRS risk profile and maintaining response standards, to deliver approximate savings from pumping appliance provision of:

- £1m
- £1.5m
- £2m

- £2.5m
- £3m

The optimal deployments should be identified, and associated impacts provided.





Current Position And Approach Overview



Current Deployment Position

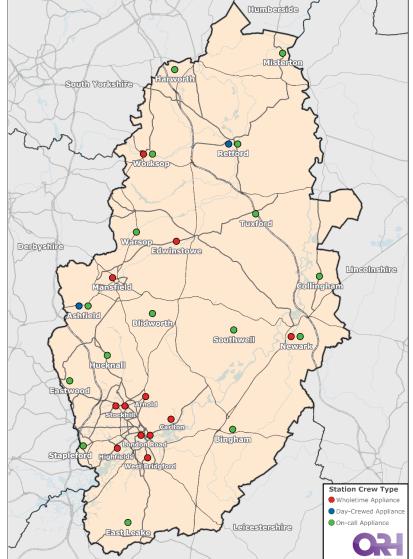
NFRS deploys 30 pumps across 24 stations. There are a mix of wholetime, day-crewed and on-call resources.

As part of this review, NFRS was wiling to consider day shift crewing (DSC), which would be wholetime in the day and not crewed at night.

	Pump 1	Pump 2		
WT-WT	WT	WT		
WT-DSC	WT	DSC		
WT-OC	WT	ОС		
WT-X	WT	-		
DC-OC	DC	ОС		
DSC-X	DSC	-		
OC-X	ОС	-		
Number of Pumps				

Total Stations

Current
2
0
2
6
2
0
12
30
24



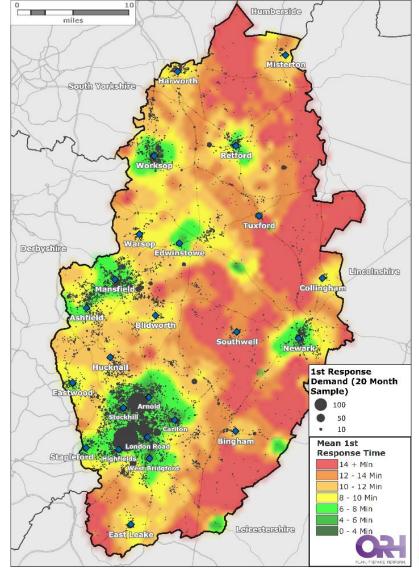


Current Response Performance

As stated in NFRS's 2019-22 strategic plan, the response target is for the first pump to arrive in an average of eight minutes at all incidents service-wide, from the time the pump is assigned. NFRS currently performs narrowly within this target.

Modelled Base

	Lif	e-Risk Incide	nts	All Incidents
District	Average 1st	Average 2nd	% of 1st in 15 Minutes	Average 1st
Service-Wide	7:55	11:13	95.0%	7:57
Ashfield	8:52	12:34	95.6%	9:06
Bassetlaw	9:07	14:53	91.4%	9:37
Broxtowe	7:26	11:33	97.0%	7:26
City of Nottingham	6:56	8:01	97.5%	6:31
Gedling	6:30	10:24	97.8%	7:01
Mansfield	7:19	13:06	98.0%	7:52
Newark & Sherwood	9:23	14:55	89.5%	10:02
Rushcliffe	9:24	12:13	88.9%	9:47





Approach: ORH Models

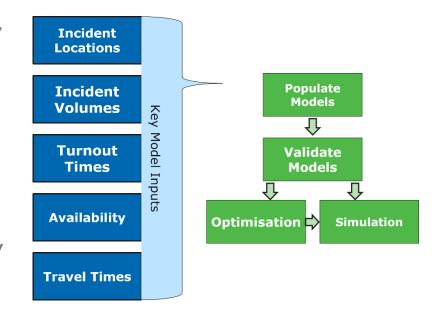
The models that ORH set up and validated for the 2021 Fire Cover Review are still fit for purpose and were used for this project.

ORH used optimisation modelling to identify different configurations of pumping appliances that meet different levels of savings.

Constraints and criteria were required to ensure resulting options are feasible.

The criteria and constraints were defined by NFRS and are described on the next page.

Simulation modelling was used to fully evaluate the alternative deployments and impacts on performance.





Approach: ModellingOptimisation Criteria and Constraints

Criteria/Constraint	Notes
Minimise average attendance times	Aligned to NFRS attendance target of average within 8 minutes
First pump attendance	Optimisation will likely remove/reduce second pump crewing in favour of first pumps
Nottinghamshire-wide performance	There could be large differences in performance in some areas compared to others
Only existing station locations considered	
Would not introduce new on-call crews	







Station Costs

NFRS provided the following costs per type of station, depending on the number of pumps and crewing types, to feed into the optimisation modelling:

	Pump 1	Pump 2	Exp	pected Cost
WT-WT	WT	WT	£	2,245,424
WT-DSC	WT	DSC	£	1,807,454
WT-OC	WT	OC	£	1,459,978
WT-X	WT	-	£	1,234,978
DC-OC	DC	OC	£	797,476
DSC-X	DSC	-	£	572,476
OC-X	OC	-	£	225,000



Approach: Deployment Configurations Using example of £1m Savings (£0.9m to £1.1m)

ORH found all the combinations of station types that result in £1m of savings (with a £100k

tolerance).

Station Type	Current		Alternative Combinations										
WT-WT	2	2	1	1	2	0	1	1	1	2	1	0	1
WT-DSC	0	0	0	1	0	1	0	1	0	0	0	1	0
WT-OC	2	3	2	0	2	3	1	3	3	1	2	2	0
WT	6	5	8	9	6	7	9	5	6	7	7	8	10
DC-OC	2	1	1	1	1	1	1	1	1	1	2	1	1
DSC	0	0	0	0	0	0	0	0	1	0	0	0	0
ОС	12	10	10	10	11	11	11	12	12	12	12	12	12
Stations	24	21	22	22	22	23	23	23	24	23	24	24	24
Savings (£m)	-	£ 1.02	£ 1.02	£ 0.90	£ 1.02	£ 1.01	£ 1.02	£ 1.01	£ 1.01	£ 1.02	£ 1.01	£ 1.01	£ 1.02

Modelling was used to identify the optimal deployment and measure the impact on response times.

The same process was carried out for the different levels of savings.

ORH also identified some options that did not fit within the savings thresholds but could be worth further consideration. For example, a deployment that resulted in £0.8m of savings, which improved average first pump attendance times.

Deployment maps and full performance impacts are presented on the following pages.

£0.8m Savings **Deployment**

Station Changes	Current	Modelled Option
Ashfield	1DC 1OC	1WT 1OC
London Road	2WT	1WT
Stockhill	2WT	1WT 1DSC

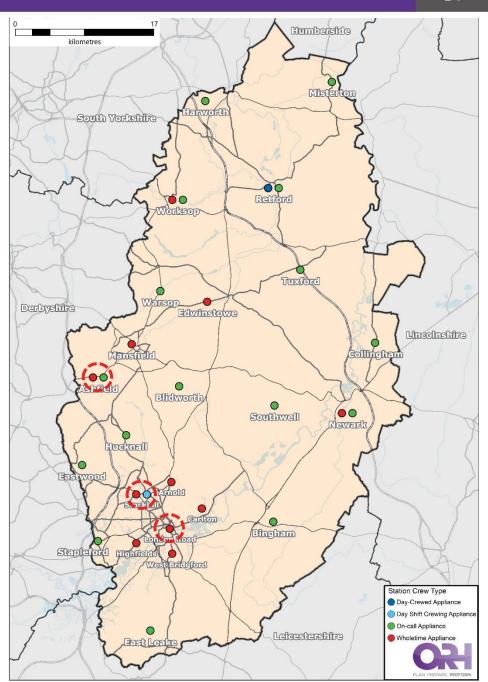
	Pump 1	Pump 2
WT-WT	WT	WT
WT-DSC	WT	DSC
WT-OC	WT	OC
WT-X	WT	-
DC-OC	DC	ос
DSC-X	DSC	-
OC-X	OC	-

WT	WT	WT		2	0
DSC	WT	DSC		0	1
C	WT	OC		2	3
X	WT	1		6	7
OC	DC	OC		2	1
-X	DSC	-		0	0
<	ОС	-		12	12
Number of Appliances				30	29
Total Stations				24	24

Modelled

Option

Current



£0.8m Savings Performance

Model Output

District				
Service-Wide				
Ashfield				
Bassetlaw				
Broxtowe				
City of Nottingham				
Gedling				
Mansfield				
Newark & Sherwood				
Rushcliffe				

Life-Risk Incidents					
Average 1st	Average 2nd	% of 1st in 15 Minutes			
7:56	11:31	95.0%			
8:06	12:11	97.0%			
9:07	14:53	91.3%			
7:29	11:49	96.8%			
7:09	9:06	97.3%			
6:34	10:30	97.5%			
7:17	12:32	98.3%			
9:23	14:55	89.5%			
9:31	12:36	88.4%			

- 1	All Incidents
Þ	\verage 1st
	7:56
	8:17
	9:37
	7:29
	6:41
	7:05
	7:49
	10:02
	9:53

Impact

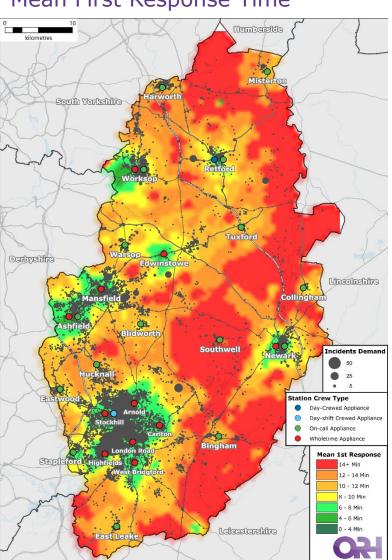
District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents		
Average 1st	Average 2nd	% of 1st in 15 Minutes
+0:01	+0:18	0.0%
-0:46	-0:23	1.4%
0:00	0:00	-0.1%
+0:03	+0:16	-0.2%
+0:13	+1:05	-0.2%
+0:04	+0:06	-0.3%
-0:02	-0:34	0.3%
0:00	0:00	0.0%
+0:07	+0:23	-0.5%

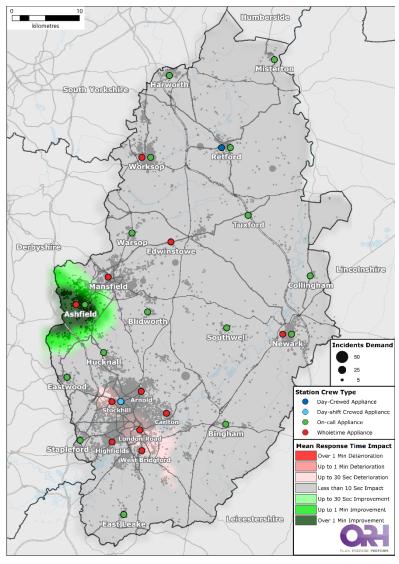
All Incidents	
Average 1st	
	-0:01
	-0:49
	0:00
	+0:03
	+0:10
	+0:04
	-0:03
	0:00
	+0:06

£0.8m Savings Performance

Mean First Response Time



Mean First Response Time Impact



£1m Savings Deployment

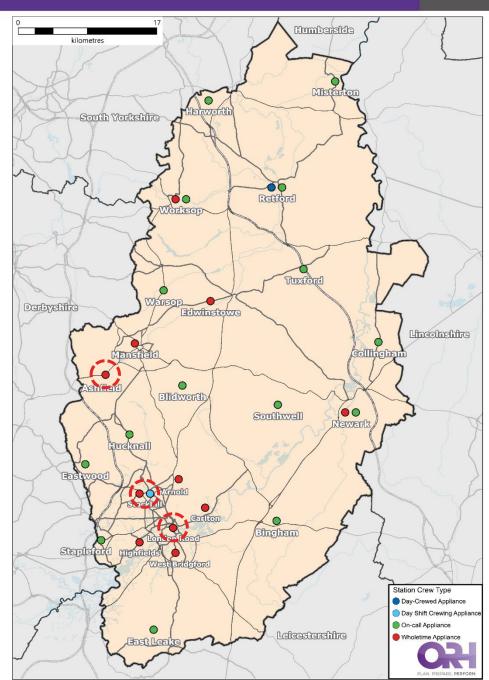
Station Changes	Current	Modelled Option
Ashfield	1DC 1OC	1WT
London Road	2WT	1WT
Stockhill	2WT	1WT 1DSC

	Pump 1	Pump 2
WT-WT	WT	WT
WT-DSC	WT	DSC
WT-OC	WT	OC
WT-X	WT	-
DC-OC	DC	OC
DSC-X	DSC	-
OC-X	ОС	-

Number of Appliances

Total Stations

Current	Modelled Option
2	0
0	1
2	2
6	8
2	1
0	0
12	12
30	28
24	24



£1m Savings Performance

Model Output

District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents		
Average 1st	Average 2nd	% of 1st in 15 Minutes
7:57	11:38	94.8%
8:18	13:18	95.5%
9:07	14:54	91.3%
7:29	11:49	96.7%
7:09	9:06	97.3%
6:34	10:29	97.5%
7:20	12:42	98.0%
9:23	14:55	89.5%
9:30	12:35	88.5%

All Incidents	
	Average 1st
	7:58
	8:29
	9:37
	7:29
	6:41
	7:06
	7:52
	10:03
	9:53

Impact

District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents		
Average 1st	Average 2nd	% of 1st in 15 Minutes
+0:02	+0:25	-0.2%
-0:34	+0:44	-0.1%
0:00	+0:01	-0.1%
+0:03	+0:16	-0.3%
+0:13	+1:05	-0.2%
+0:04	+0:05	-0.3%
+0:01	-0:24	0.0%
0:00	0:00	0.0%
+0:06	+0:22	-0.4%

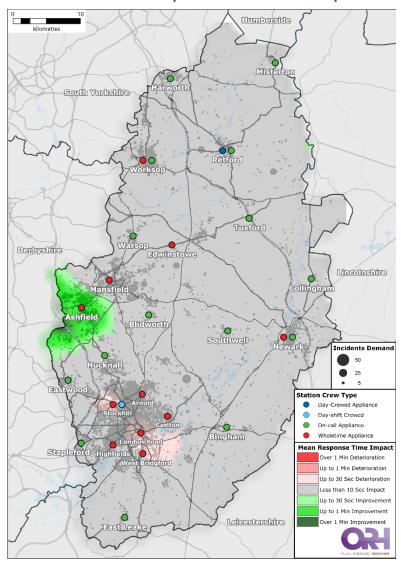
All Incidents	
Average 1st	
+0:01	
-0:37	
0:00	
+0:03	
+0:10	
+0:05	
0:00	
+0:01	
+0:06	

£1m Savings Performance

Mean First Response Time

South Yorkshire Derbyshire Lincolnshire Southwell Incidents Deman Station Crew Type Day-Crewed Appliance Day-shift Crewed On-call Appliance Wholetime Appliance Mean 1st Response 12 - 14 Min 8 - 10 Min Leicestershire

Mean First Response Time Impact



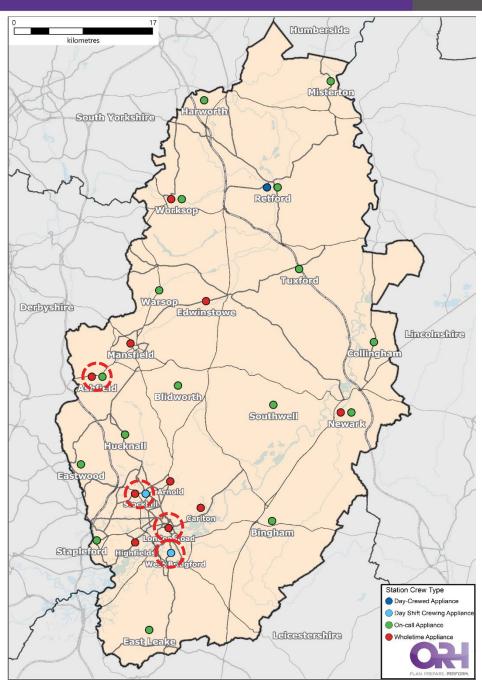
£1.5m Savings Deployment

Station Changes	Current	Modelled Option
Ashfield	1DC 1OC	1WT 1OC
London Road	2WT	1WT
Stockhill	2WT	1WT 1DSC
West Bridgford	1WT	1DSC

	Pump 1	Pump 2
WT-WT	WT	WT
WT-DSC	WT	DSC
WT-OC	WT	OC
WT-X	WT	-
DC-OC	DC	OC
DSC-X	DSC	-
OC-X	ОС	-

Number of Appliances	
Total Stations	

Current	Modelled Option	
2	0	
0	1	
2	3	
6	6	
2	1	
0	1	
12	12	
30	29	
24	24	



£1.5m Savings Performance

Model Output

District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents			
Average 1st	Average 2nd	% of 1st in 15 Minutes	
7:59	11:38	94.7%	
8:06	12:11	97.0%	
9:07	14:53	91.3%	
7:30	11:51	96.7%	
7:13	9:12	97.0%	
6:35	10:32	97.4%	
7:17	12:32	98.3%	
9:23	14:55	89.5%	
10:01	13:27	86.2%	

All Incidents		
	Average 1st	
	8:00	
	8:17	
	9:37	
	7:30	
•••••	6:44	
	7:07	
	7:49	
	10:02	

Impact

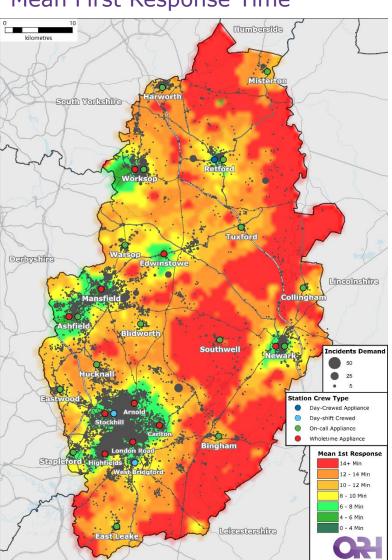
District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents			
Average 1st	Average 2nd	% of 1st in 15 Minutes	
+0:04	+0:25	-0.3%	
-0:46	-0:23	1.4%	
0:00	0:00	-0.1%	
+0:04	+0:18	-0.3%	
+0:17	+1:11	-0.5%	
+0:05	+0:08	-0.4%	
-0:02	-0:34	0.3%	
0:00	0:00	0.0%	
+0:37	+1:14	-2.7%	

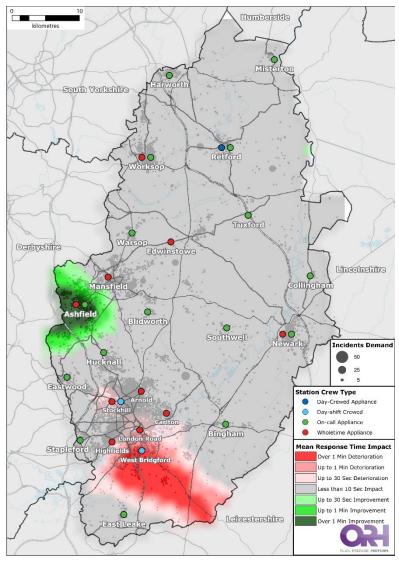
All Incidents
Average 1st
+0:03
-0:49
 0:00
 +0:04
 +0:13
 +0:06
-0:03
 0:00
+0:42

£1.5m Savings Performance

Mean First Response Time



Mean First Response Time Impact



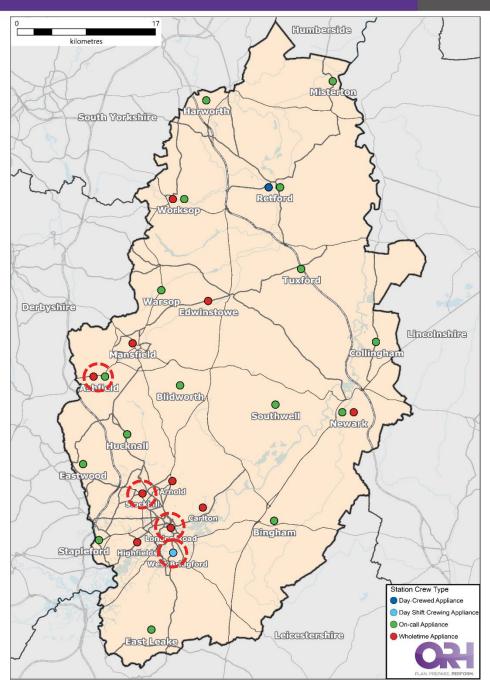
£2m Savings Deployment

Station Changes	Current	Modelled Option
Ashfield	1DC 1OC	1WT 1OC
London Road	2WT	1WT
Stockhill	2WT	1WT
West Bridgford	1WT	1DSC

	Pump 1	Pump 2
WT-WT	WT	WT
WT-DSC	WT	DSC
WT-OC	WT	OC
WT-X	WT	-
DC-OC	DC	OC
DSC-X	DSC	-
OC-X	OC	-

Number of Appliances	
Total Stations	

Current	Modelled Option
2	0
0	0
2	3
6	7
2	1
0	1
12	12
30	28
24	24



£2m Savings Performance

Model Output

District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents		
Average 1st	Average 2nd	% of 1st in 15 Minutes
8:03	11:55	94.6%
8:06	12:15	96.8%
9:07	14:53	91.4%
7:36	12:28	96.2%
7:24	9:59	96.8%
6:39	10:41	97.1%
7:17	12:33	98.3%
9:23	14:56	89.6%
10:01	13:28	86.0%

All Incidents	
Average	
1	
1	
1	

Impact

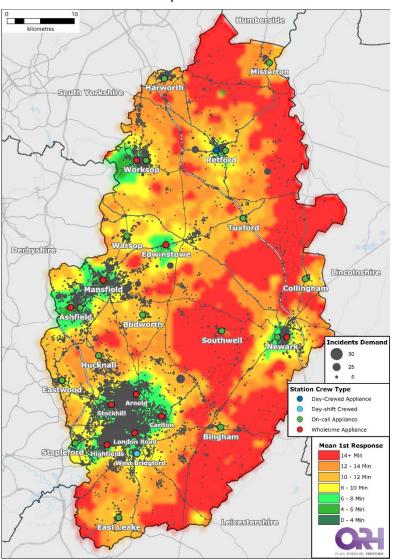
District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents		
Average 1st	Average 2nd	% of 1st in 15 Minutes
+0:08	+0:42	-0.4%
-0:46	-0:19	1.2%
0:00	0:00	0.0%
+0:10	+0:55	-0.8%
+0:28	+1:58	-0.7%
+0:09	+0:17	-0.7%
-0:02	-0:33	0.3%
0:00	+0:01	0.1%
+0:37	+1:15	-2.9%

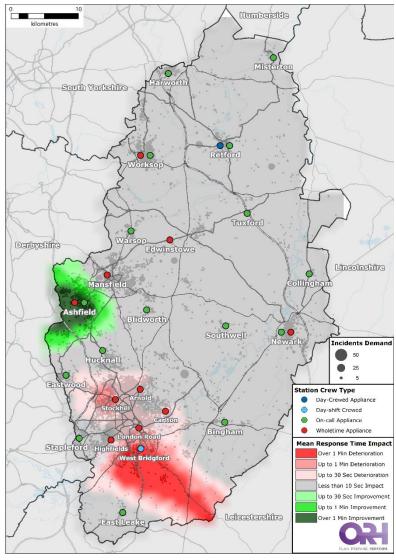
All Incidents Average 1st	
+0:07	7
-0:48	3
0:00)
+0:09)
+0:21	L
+0:10)
-0:03	3
0:00)
+0:43	3

£2m Savings Performance

Mean First Response Time



Mean First Response Time Impact



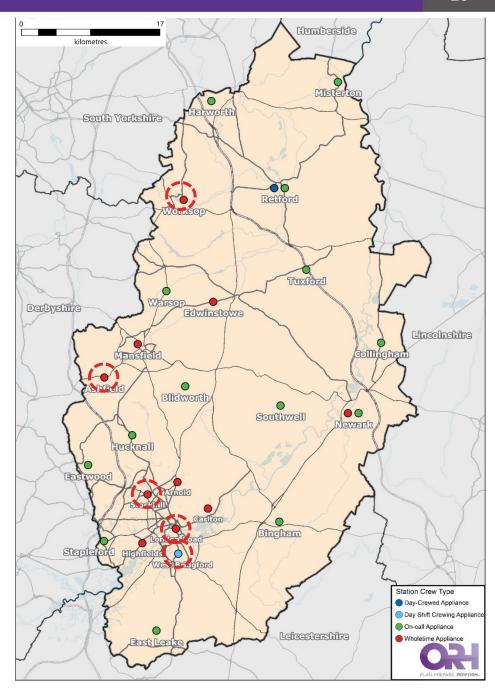
£2.5m Savings Deployment

Station Changes	Current	Modelled Option
Ashfield	1DC 1OC	1WT
London Road	2WT	1WT
Stockhill	2WT	1WT
West Bridgford	1WT	1DSC
Worksop	1WT 1OC	1WT

	Pump 1	Pump 2
WT-WT	WT	WT
WT-DSC	WT	DSC
WT-OC	WT	OC
WT-X	WT	-
DC-OC	DC	OC
DSC-X	DSC	-
OC-X	ОС	-
Number of Appliances		

Total Stations

Current	Modelled Option
2	0
0	0
2	1
6	9
2	1
0	1
12	12
30	26
24	24



£2.5m Savings Performance

Model Output

District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents		
Average 1st	Average 2nd	% of 1st in 15 Minutes
8:07	12:27	94.2%
8:19	13:21	95.4%
9:16	17:29	89.8%
7:36	12:27	96.2%
7:24	9:59	96.8%
6:40	10:41	97.1%
7:21	12:43	98.0%
9:25	14:57	89.3%
10:01	13:27	86.0%

8:30 9:47 7:35 6:52 7:11 7:53	All Incidents	
8:30 9:47 7:35 6:52 7:11 7:53	,	Average 1st
9:47 7:35 6:52 7:11 7:53		8:07
7:35 6:52 7:11 7:53		8:30
6:52 7:11 7:53		9:47
7:11 7:53		7:35
7:53		6:52
		7:11
10:05		7:53
		10:05
10:30		10:30

Impact

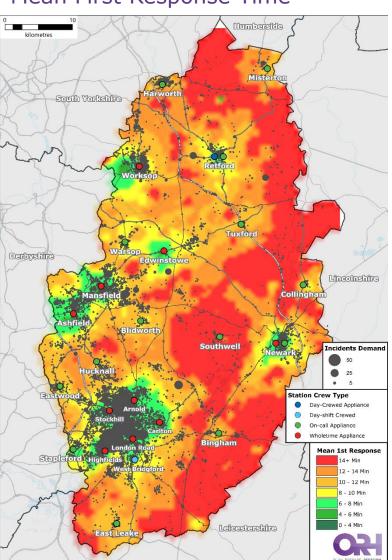
District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents		
Average 1st	Average 2nd	% of 1st in 15 Minutes
+0:12	+1:14	-0.8%
-0:33	+0:47	-0.2%
+0:09	+2:36	-1.6%
+0:10	+0:54	-0.8%
+0:28	+1:58	-0.7%
+0:10	+0:17	-0.7%
+0:02	-0:23	0.0%
+0:02	+0:02	-0.2%
+0:37	+1:14	-2.9%

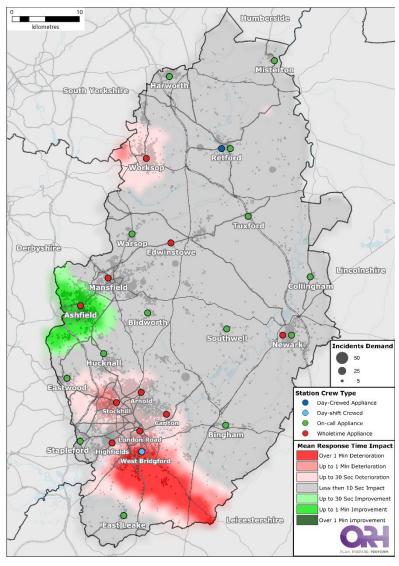
	All Incidents
	Average 1st
	+0:10
	-0:36
	+0:10
	+0:09
	+0:21
	+0:10
ļ	+0:01
	+0:03
	+0:43

£2.5m Savings Performance

Mean First Response Time



Mean First Response Time Impact



£3m Savings Deployment

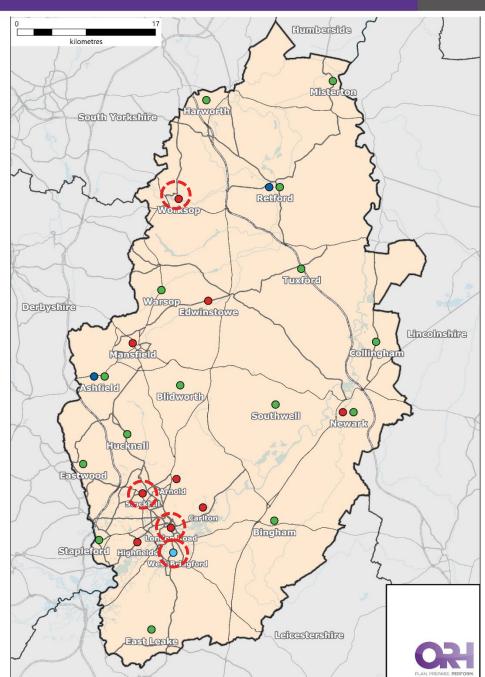
Station Changes	Current	Modelled Option
London Road	2WT	1WT
Stockhill	2WT	1WT
West Bridgford	1WT	1DSC
Worksop	1WT 10C	1WT

	Pump 1	Pump 2
WT-WT	WT	WT
WT-DSC	WT	DSC
WT-OC	WT	OC
WT-X	WT	-
DC-OC	DC	OC
DSC-X	DSC	-
OC-X	OC	-

Number of Appliances

Total Stations

Current	Modelled Option
2	0
0	0
2	1
6	8
2	2
0	1
12	12
30	27
24	24



£3m Savings Performance

Model Output

District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents		
Average 1st	Average 2nd	% of 1st in 15 Minutes
8:10	12:25	94.2%
8:53	12:39	95.4%
9:16	17:29	89.8%
7:36	12:28	96.2%
7:24	9:59	96.8%
6:40	10:42	97.1%
7:20	13:09	98.0%
9:25	14:57	89.3%
10:01	13:27	86.0%

All Incidents	
Averaç	je 1st
	8:10
	9:07
	9:47
	7:35
	6:52
	7:11
	7:52
	10:04
	10:30

Impact

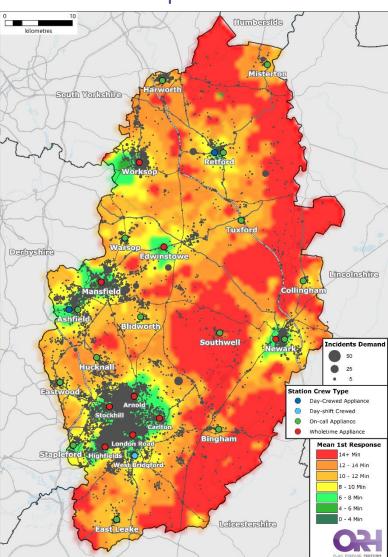
District
Service-Wide
Ashfield
Bassetlaw
Broxtowe
City of Nottingham
Gedling
Mansfield
Newark & Sherwood
Rushcliffe

Life-Risk Incidents					
Average 1st	Average 2nd	% of 1st in 15 Minutes			
+0:15	+1:12	-0.8%			
+0:01	+0:05	-0.2%			
+0:09	+2:36	-1.6%			
+0:10	+0:55	-0.8%			
+0:28	+1:58	-0.7%			
+0:10	+0:18	-0.7%			
+0:01	+0:03	0.0%			
+0:02	+0:02	-0.2%			
+0:37	+1:14	-2.9%			

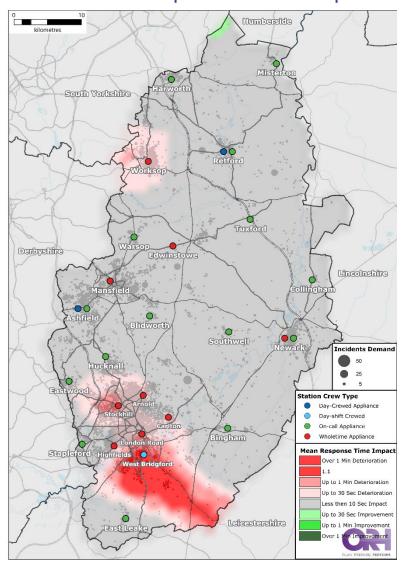
All Incidents				
Average 1st				
	+0:13			
	+0:01			
	+0:10			
	+0:09			
	+0:21			
	+0:10			
	0:00			
	+0:02			
	+0:43			

£3m Savings Deployment

Mean First Response Time



Mean First Response Time Impact



Modelling ResultsInitial Optimal Scenarios

		Base Position	£0.8m	£1m	£1.5m	£2m	£2.5m	£3m
	Actual Saving	-	£0.79m	£1.01m	£1.45m	£2.02m	£2.47m	£2.91m
	Average 1st to All Incidents	07:57	07:56	07:58	08:00	08:04	08:07	08:10
Optimal Deployment Changes	Ashfield	1DC 1OC	1WT 1OC	1WT	1WT 1OC	1WT 1OC	1WT	1DC 1OC
	London Road	2WT	1WT	1WT	1WT	1WT	1WT	1WT
	Stockhill	2WT	1WT 1DSC	1WT 1DSC	1WT 1DSC	1WT	1WT	1WT
	West Bridgeford	1WT	1WT	1WT	1DSC	1DSC	1DSC	1DSC
	Worksop	1WT 1OC	1WT 1OC	1WT 1OC	1WT 1OC	1WT 1OC	1WT	1WT



Modelling ResultsInitial Optimal Scenarios

It is possible to make £1.5m of savings with an optimal reduction in pumping appliance provision while expected response times remain within the NFRS response target. This involves the following changes to the deployment:

Station Changes	Current	Modelled Option
Ashfield	1DC 1OC	1WT 1OC
London Road	2WT	1WT
Stockhill	2WT	1WT 1DSC
West Bridgford	1WT	1DSC

It is possible to make £0.8m of savings and to improve expected average first pump performance to all incidents with the following changes:

Station Changes	Current	Modelled Option
Ashfield	1DC 1OC	1WT 1OC
London Road	2WT	1WT
Stockhill	2WT	1WT 1DSC

Station Workload

Station	Model Base:	Impact: Estimated difference in responses by station and savings option							
	Respnses by Station	£0.8m	£1m	£1.5m	£2m	£2.5m	£3m		
London Road	2,115	-517	-517	-439	-334	-334	-334		
Stockhill	2,049	-34	-30	0	-416	-413	-413		
Arnold	1,002	111	112	126	253	255	255		
Carlton	566	119	119	167	204	205	205		
Highfields	845	76	76	155	204	205	204		
West Bridgford	728	188	188	-96	-64	-63	-63		
Worksop	705	0	0	0	0	-140	-140		
Ashfield	629	89	-33	89	93	-29	5		
Edwinstowe	403	-11	4	-11	-11	72	68		
Stapleford	199	17	17	26	52	52	52		
All Others	3,332	-38	63	-18	18	190	159		
Overall	12,571	0	0	0	0	0	0		

Initial Responses. Does not include relief attendances etc.
Only stations impacted by over 50 incidents per year presented

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