



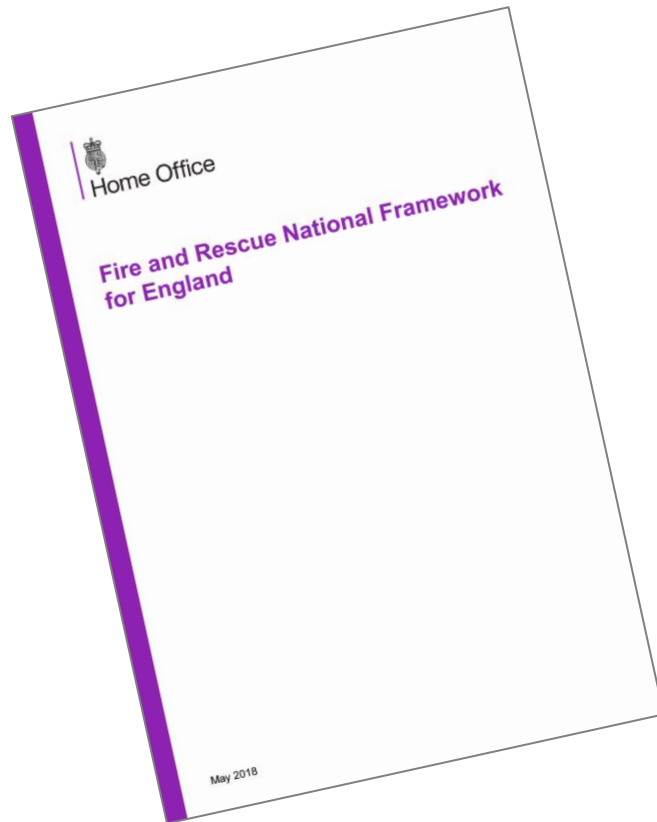
NORTH YORKSHIRE
FIRE & RESCUE SERVICE

How we Define and Manage Risk Now and in Future

Statutory Duty



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National Framework

- Sets out Government's expectations and requirements for Fire and Rescue Authorities in England

Integrated Risk Management Plan

- Analyses and assesses foreseeable risks
- Sets out how prevention, protection and response resources are used to manage risk
- Sets out our intended outcomes

Definition of Risk – Current Model



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COMMUNITY SAFETY PLAN

2016/17 – 2020/21



2010-2015 Incidents			
Station area	Total score	Station area	Total score
1 York	7064.4	19 Boroughbridge	805.0
2 Scarborough	6640.7	20 Bedale	772.3
3 Harrogate	5481.6	21 Filey	748.2
4 Selby	5126.5	22 Settle	661.0
5 Acomb	4771.9	23 Easingwold	639.1
6 Huntington	2908.2	24 Heln	100x RTCs (5) = 500
7 Northallerton	2325.8	25 Leyt	50x building fires (5) = 250
8 Ripon	1871.5	26 Sum	100x outdoor fires (2) = 200
9 Skipton	1844.1	27 Lyth	200x false alarms (0.1) = 20
10 Whitby	1745.8	28 Gras	Total Risk Score = 970
11 Tadcaster	1710.1	29 Kirk	
12 Richmond	1508.5	30 Haw	
13 Malton	1446.5	31 Ben	
14 Colburn	1402.3	32 Reeth	261.0
15 Thirsk	1351.2	33 Robin Hood's Bay	260.0
16 Pickering	972.9	34 Sherburn	223.4
17 Stokesley	965.6	35 Masham	191.2
18 Knaresborough	840.3	36 Danby	143.3

Commissioner's Local Business Case, later confirmed by HMICFRS, identified current risk model primarily based on:

- historical number and type of incidents we've attended

Secondary data included:

- partner agencies
- commercially available

So, current resources are largely based on historic demand.

Using wider range of data will better predict future demand.



Understanding the risk of fire and other emergencies



Future Risk Model



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Data sets being used:

- People data: population, gender, age
- Societal data: Indices of Mass Deprivation, social housing, health, living alone, smoking, alcohol and drug misuse, mental health problems, care hours
- Infrastructure data: local plans and housing, non-residential building risk, transport
- Environmental data: climate, flood risk, wildfire risk
- Other data: national risk register and Local Resilience Forum risk register

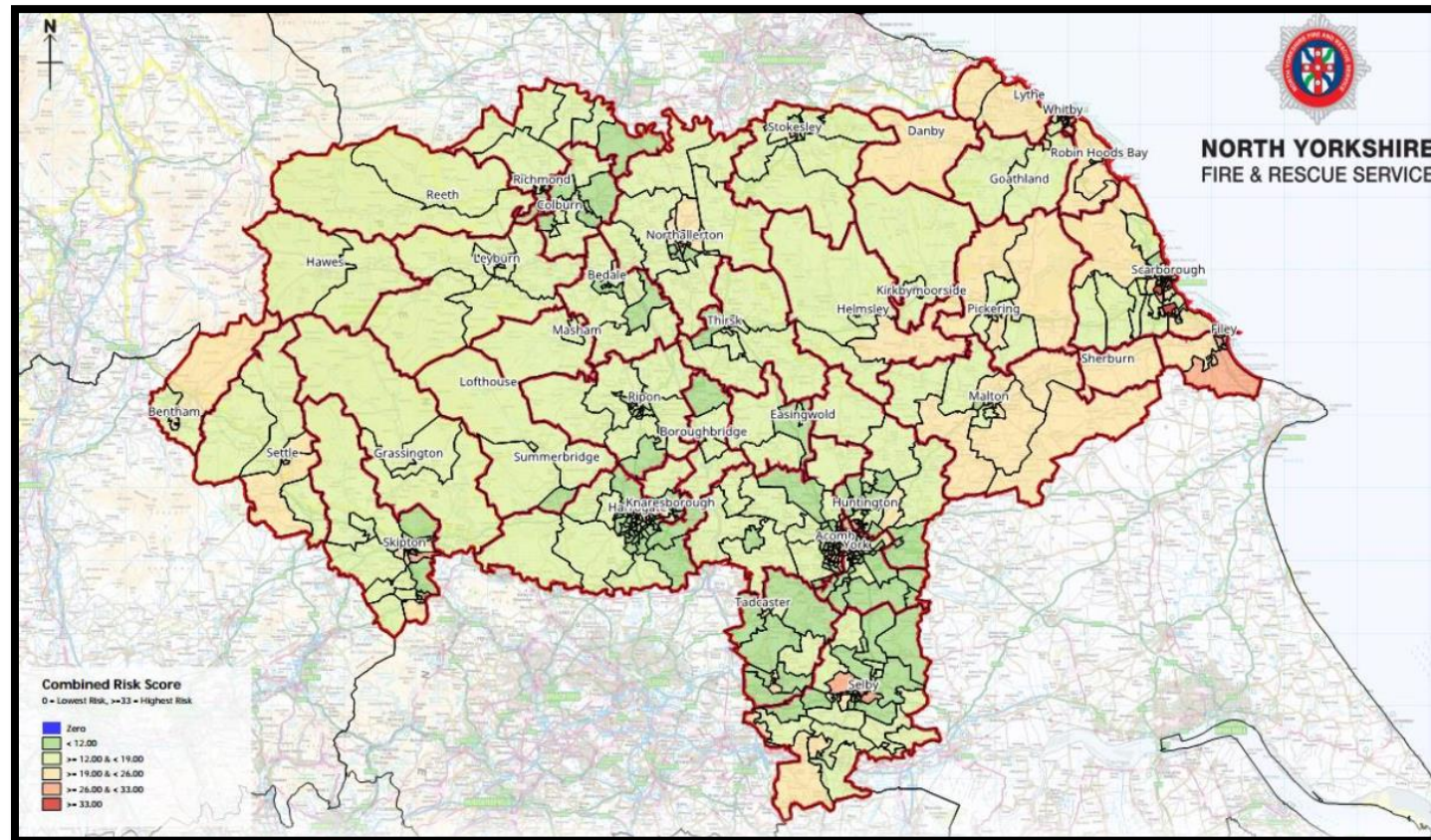
AND

- *5 years of incident data (fire, road and water)*



Community Risk Profile – What we've Discovered

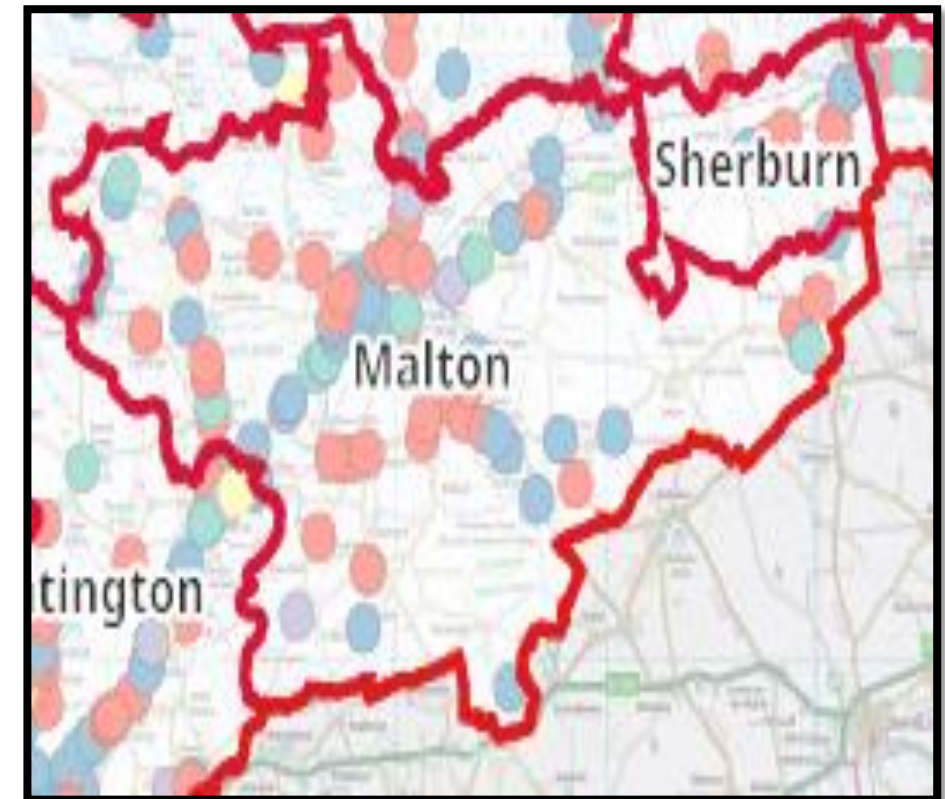
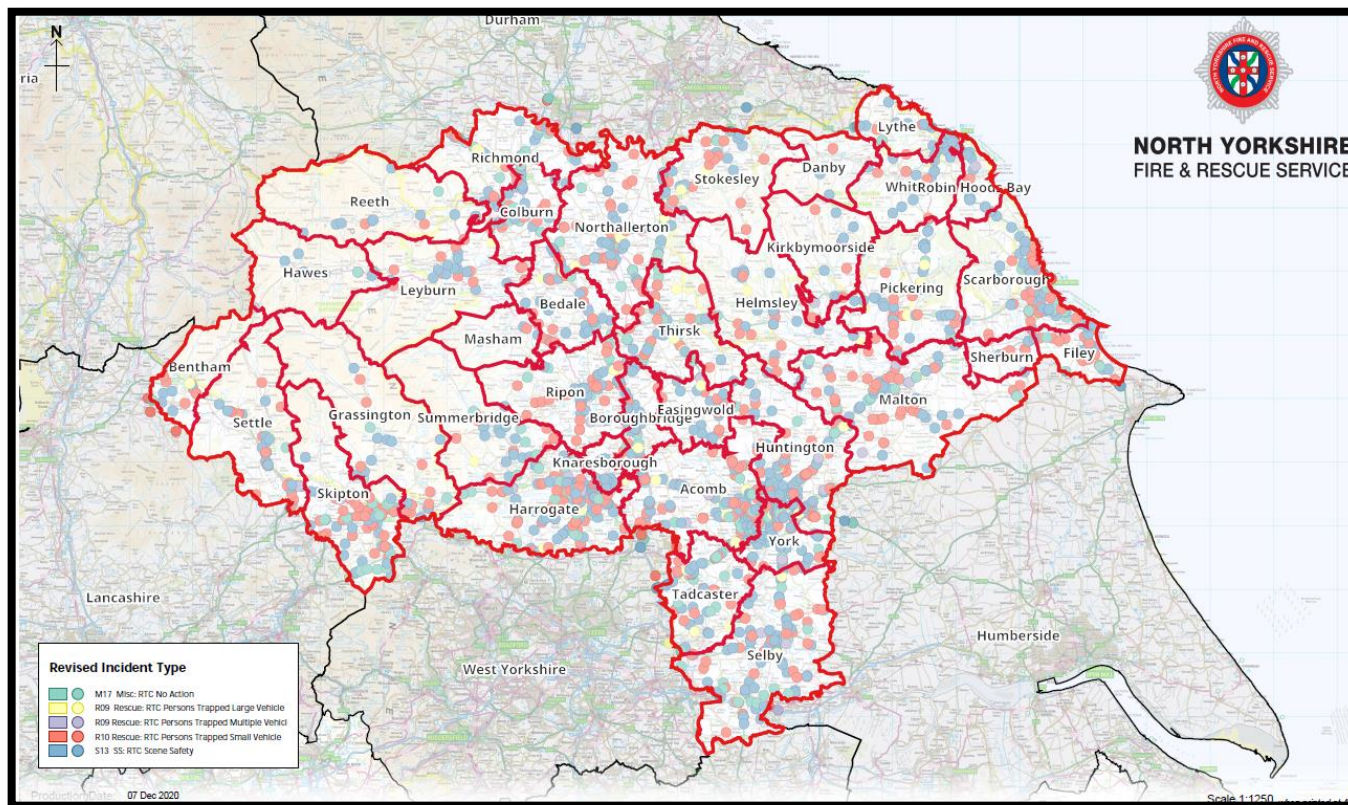
e.g. People risk – likelihood of accidental dwelling fire





Risk Profile – Use of Incident Data

Road Traffic Incidents attended by NYFRS over 5 years





What Next?

We will:

- interpret the data to fully understand risk
- review resources to best balance Prevention, Protection, Response and Resilience activity

Timeline

- March/April: interpret risk, and develop options
- May: draft options
- Summer: formal consultation
- Autumn/Winter: final Risk and Resource Model for implementation