

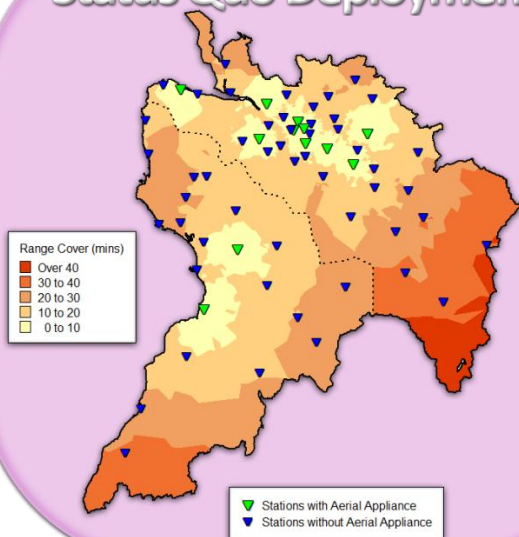
### Specialist Appliance Deployment Plans for Strathclyde

#### The Challenge

- Strathclyde Fire and Rescue (SFR) invested in a fleet of 12 Aerial Rescue Pumps (ARPs) to gradually replace the existing fleet of aerial platforms. The new state-of-the-art ARP vehicles are capable of providing combined high-reach and core firefighting and rescue capabilities.
- SFR needed to develop deployment and contingency plans for the ARPs to reflect the local risk profile and to maximise operational effectiveness.



#### Status Quo Deployments



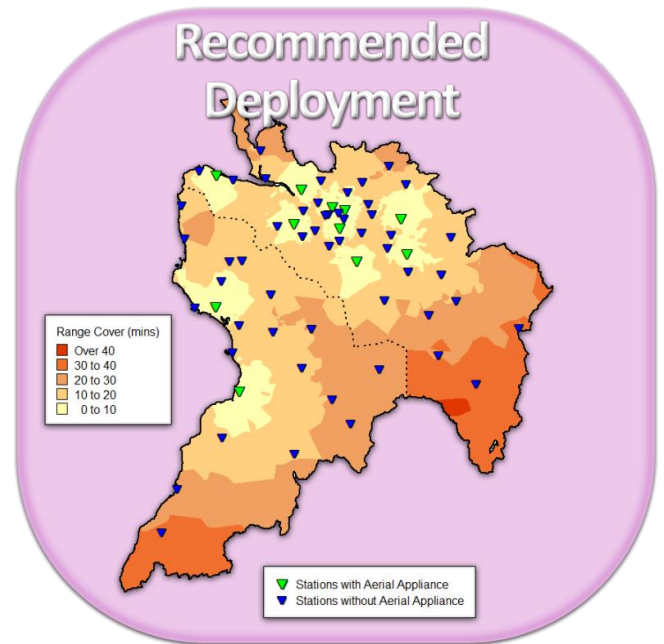
#### Approach

- ORH's optimisation tool, OGRE, was initially used to identify the best deployment locations, assuming that any station could host an ARP (unconstrained modelling).
- The unconstrained modelling results were provided for each area in a clear and transparent manner that allowed the Service to review and suggest changes that took account of non-operational issues.
- Subsequent modelling incorporated changes specified by the Service (constrained modelling).

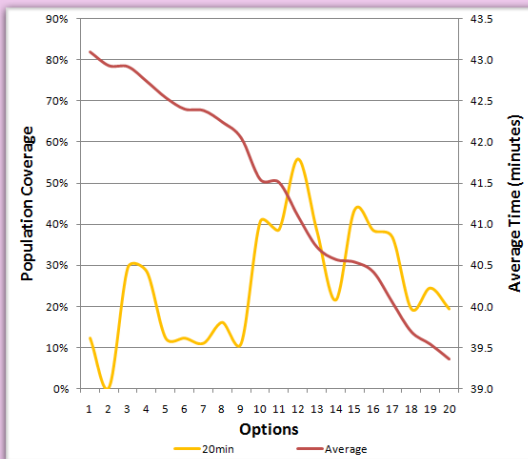


## The Solution

- A set of initial deployment plans were developed by ORH for each area to more closely reflect the individual local risk profile.
- Senior officers then reviewed and enhanced the plans to take account of training, estate and financial considerations.
- A final set of deployment and contingency plans were then produced that met the Service's criteria.



## Population Coverage



## Benefits

- In Glasgow and the surrounding areas, quicker ARP response times will be achieved with fewer appliances.
- In Ayrshire & East Renfrewshire, quicker ARP response times will be achieved with more appliances.
- In Argyll & Bute, substantially quicker ARP response times will be achieved as no ARPs had previously been deployed from stations inside the area.
- Clear, evidence-based ARP deployment plans and contingency plans were provided to SFR.

