

Optimisation

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HOW WE DO IT

Inputs to the model are taken from ORH’s analyses of travel times and population catchments. Optimisation criteria are determined through consultation with the client to reflect objectives and targets, such as minimising the average access travel time or maximising the population within 30 minutes’ drive of a facility. OGRE will then identify optimal solutions – in this case, to either increase the population within a 30-minute drive with the same number of sites or cover the same percentage of the population using fewer sites. The initial results are then discussed with the client to inform further modelling runs.

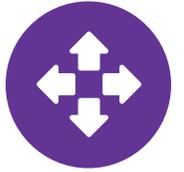
Current locations can be fixed within the model runs and optimisation carried out around them, or they can be removed to identify a completely greenfield solution. The number of locations can also be fixed or variable, according to the aim of the optimisation study. ORH consultants undertake many iterative optimisation runs to draw out favoured solutions.

OGRE can produce a ranked list of options, and identify the scope for operational efficiencies across estate and staffing. Once preferred options have been identified, they are evaluated using range cover models to provide a robust statistical comparison of the benefits of each.

Following the selection of a final set of locations, site-search maps are provided to assist the client in the procurement of new facilities.

KEY BENEFITS

- Solutions are bespoke, with optimisation objectives specified by the client
- Exhaustive analysis gives confidence in the chosen solution, with millions of options assessed by OGRE and preferred solutions evaluated using range cover models to produce performance statistics
- Practical support for implementation, with detailed location maps to assist the procurement of identified locations



Optimising Locations
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