

Hawkrose

Strategic Choices Tool

Service Definition





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1 Strategic Choices Tool

1.1 Service Description

The Strategic Choices Tool (SCT) is a Machine Learning (ML) decision support tool which highlights the costs and consequences of potential investment decisions. The SCT enables clients to test multiple decisions, evaluate results and run optimisations to identify optimal choices.

It can run 1,000s of “what if?” scenarios in the room and ensures clients don’t waste £Ms on projects which don’t meet strategic requirements. The system can identify the ‘optimum’ future force mix, based on a range of constraints, threat levels and other parameters. The outputs are free from human bias, providing excellent use cases to debate. It can be used to engage external scrutineers, and generate portfolio balance of investment outputs.

The SCT Visualises the multiple consequences of policymaking and investment decisions in seconds – allowing the cause/effect decision loop to be tested multiple times before a decision is made. It also allows participants to ‘walk a mile in the shoes’ of the individual with the challenging problem – ensuring all stakeholders have similar pre-briefing before the policy debate occurs.

The SCT is currently being used in the Navy to assess the Carbon Emission consequences of their strategic choices (whether that be new zero carbon ships, or ships with different fuel types).

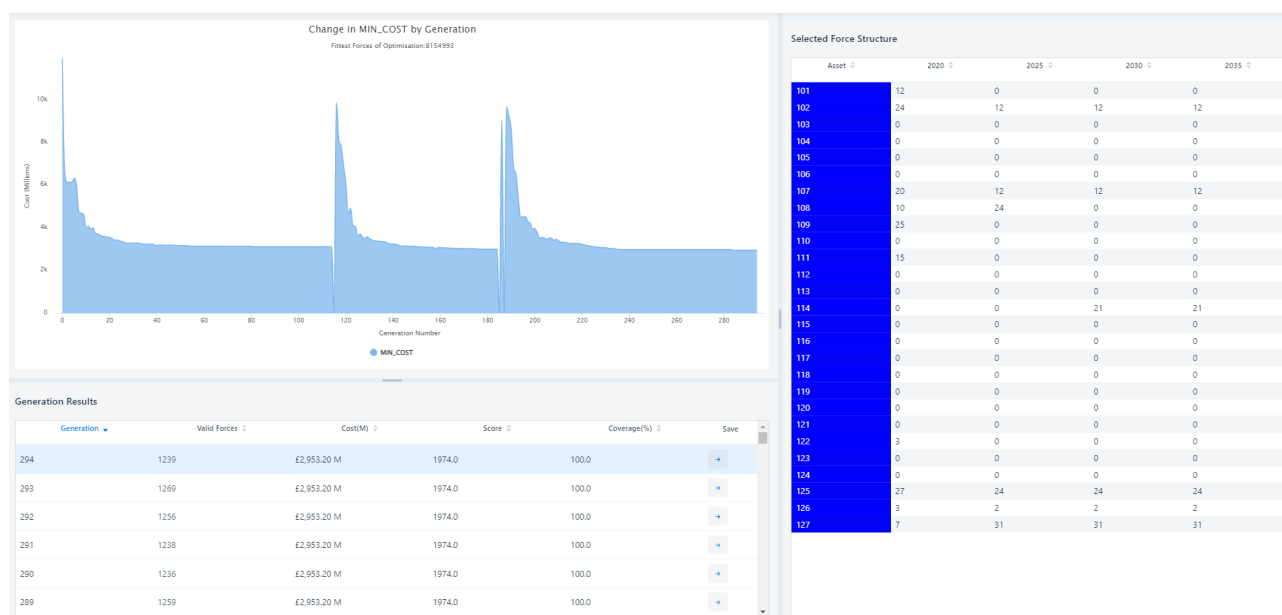
Have we done this before?

- 2019-20: Royal Navy – Questioning future of Maritime Aviation Force (over 2020-40)
- 2021-present: Royal Navy – Portfolio Balance of Investment of entire Maritime domain (2023-2055).
- 2023-present: RAF – Review of Crewed to Uncrewed asset transition (2024-2055).
- The software is currently deployed on UK MOD and DSTL Secret servers.

For more information see the Hawkrose website: www.hawkrose.com

1.1.1 Optimisation

The SCT Optimiser uses genetic algorithms to search for the optimal solution to a problem – e.g. selecting the best force mix based on lowest cost, best score or highest scenario coverage.

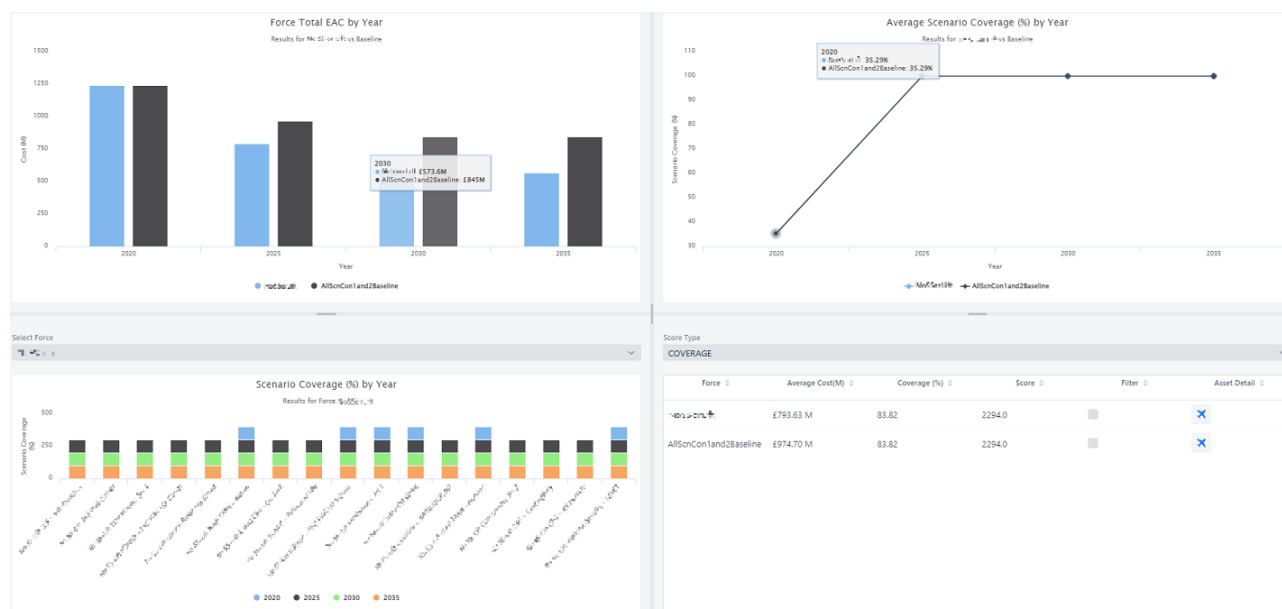


The best results can then be saved and assessed using the Evaluator.



1.1.2 Evaluation

The Evaluation module is used to analyse and compare the solutions provided by the Optimiser or solutions that the user has manually created.



1.1.3 Customisation

The Strategic Choices Tool is designed to be highly customisable and configurable. Customisable elements include:

- Assets
- Reference data
- Data structure
- Page flow
- Optimisation constraints
- Scenarios, scenario scoring
- Scenario linkages and nested scenarios

The platform is designed to be reconfigured and customised for each decision, transformation programme analysis or investment evaluation.

New data can be configured through the UI or uploaded via CSV.

1.1.4 Onboarding

The Strategic Choices Tool can be delivered as a hosted managed service or deployed into a customers' hosting environment. If deployed into a customer hosted environment a deployment guide is provided and training given to support system upgrades.

User guides are provided as standard, and training can be purchased as an additional service. This can be online or onsite, depending on customer requirements. Hawkrose also offer continuous user support packages where Hawkrose consultants can act as expert users.



1.2 Service Support

1.2.1 Support Levels

Support models are tailored to customers' requirements and based on agreed SLA's. Response times and support coverage is agreed and documented in a managed service agreement and tailored to the requirements of each customer and system deployment.

The Hawkrose standard approach is to offer three levels of support:

- **Bronze** – UK Office hours support with email-based fault notification
- **Silver** – Extended hours (7:00 – 22:00) 7 days per week with email-based fault notification and trouble ticketing system
- **Gold** – 24/7 support 7 days per week with email and phone-based fault notification and trouble ticketing system

Bespoke support packages can be agreed based on a Service Level Agreement with time to respond targets if required.

All customers are allocated a technical account manager to act as a point of escalation if required.