

Strategic Inventory Modelling

The Client:

“BAE Systems is the premier global defence and aerospace company”

A global leader in the provision of military capabilities and systems. BAE Systems are bringing supply chain tools and techniques to the UK Government and Armed Forces



The Problem:

Our Client was tasked with designing a service that provided an agreed level of aircraft availability incorporating a range of assets.

Our task was to determine the supply chain design and spares investment required for the general systems and structures assets to meet the overall aircraft availability target, including emergent and scheduled maintenance demands for on-base and off-base repair. This included establishing the logistics planning assumption in conjunction with the RAF and MoD

The results:

A documented set of logistics planning assumptions was prepared in support of a recommended spares investment profile for the 5 year contract requirement.

The modelling output formed the basis of inputs to other activities across the overall project, including the manpower requirements forecast, warehousing sizing, transport service level agreement formulation and cost modelling and benefits case for the project

Our approach:

Collated, refined and documented the planning assumptions, including the forecasted number of aircraft and flying hours expected.

Determined the future maintenance strategy and squadron deployment across main and forward operating bases.

Established delay time assumptions for on-base and off-base (utilising DSDA).

Worked with the modelling team to create OPUS and scheduled maintenance models.

Co-ordinated the refinement of modelled outputs
Established the required spares investment to meet the desired aircraft availability targets.