

What is TLC?

A major facet of Supportability Engineering is the ability to **cost** all of the **options** identified for a System.

By costing Support options for the entire life cycle Aspire are able to advise customers on the most **cost-effective** way to design, manufacture and support a System or Product through life.

Costs incurred throughout a System's Life Cycle are heavily dependent upon characteristics of the System and design related decisions made in the early phases of the product Life Cycle.

In these early stages, comparatively small costs may have been incurred but major portions of the overall System Life Cycle Cost (SLCC) may well have been committed.

About Aspire TLC

Aspire can provide expertise across the complete spectrum of TLC, for a product or system life cycle. We cover all aspects of programme and operational costs and analysis including:

- Support Life Cycle Cost Prediction
- Operating Costs
- Acquisition Programme Costs
- Manufacturing Cost Prediction
- Software Design Cost Prediction
- Software Support Cost Prediction
- Cost of Ownership (COO)
- Investment Appraisal
- TLC Trade offs

For More Information about our TLC services please **CONTACT US**. We will arrange for a Subject-Matter-Expert to talk to you.



Aspire Methodology

Most predictive models fail to address the generation, maintenance and population of a centrally controlled Cost Breakdown Structure (CBS).

Aspire have developed a methodology and a toolset that addresses this key issue and enables close linkage to be achieved with the Through Life Management Plan (TLMP) and the Cost of Ownership (COO) required for UK MoD Acquisition programmes.

The Aspire 'TLC - Collection and Management Environment' (T-CAM) enables a customised Project CBS to be generated quickly. T-CAM enables cost profiles to be created for all the elements in the CBS.

Cost categories are established that apply to every cost element in the CBS. T-CAM creates a CBS for each of these cost categories. This results in the impact of inflationary or discount factors being viewable, allowing each cost category to be analysed in isolation.

T-CAM can select a specific time range to be included when calculating TLC enabling sunk costs to be removed from the calculations without losing the underlying data; it also enables the cost associated with a Contractor Logistic Support (CLS) or Private Finance Initiative (PFI) contract period to be isolated from the same data set that would be used to determine the entire TLC.

Aspire

Understanding TLC using T-CAM

The Aspire T-CAM tool enables the customer to quantitatively understand programme costs "up-front". This reduces the risk of committing to a spend profile that is uncertain and in which the cost drivers are either not fully defined or are poorly understood.

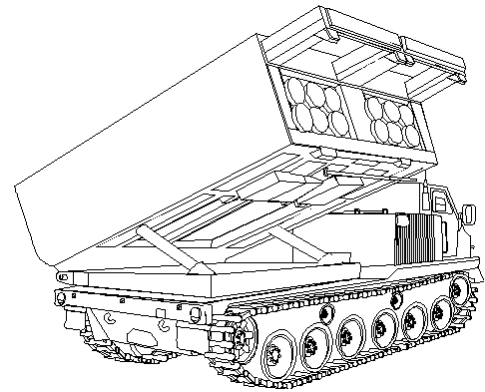
Aspire takes a "Total System" perspective and T-CAM enables these costs to be isolated not only to the phase in which they will be spent but also to individual cost areas. This gives greater understanding of the costs involved, allows differing scenarios to be modelled and consequently delivers a low risk solution to deriving the most cost-effective total system solution.

With the shift towards greater involvement by the producer in the Operating & Support (O&S) phase of the System Life Cycle through Public Private Partnership (PPP) / Private Finance Initiative (PFI) or CLS based contracts there is now a growing need for all areas of industry dealing with Government Agencies and Departments to fully define the total COO for a system. This increases their probability of winning the manufacturing contract and reduces risk on themselves during the follow on O&S Phase Support Contracts.

Future Combat and Liaison Vehicle (FCLV)

Aspire provided support to Vickers Defence Systems on the FCLV programme for the British Army. A key deliverable was the magnitude of TLC for FCLV for its 30 year service life.

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Multi Launch Rocket System (MLRS) European Fire and Control System (EFCS)

Aspire provided assistance to the Through Life Costing programme of this large European project encompassing the planning of the Through Life Costing programme, the generation of a comprehensive Cost identification and collation management tool.

Aspire populated the tool with data derived from a number of contributing areas (e.g. Programme Management, Production, Commercial and Support) and conducted the analysis and preparation of Summary Reports for inclusion in the formal Commercial Proposal to the EFCS Project Team and Customer (BWB).



Aspire Scandinavian Office:
Boasstigen 6
S-691 33 Karlskoga
SWEDEN.
Tel: +46 586 817 22
Fax: +46 586 817 29
Email: info@aspirecl.com
Website: www.aspirecl.com

