

VERSION 6



The purpose of CATLOC is to provide qualified decision support through calculation and analysis of costs and revenues in one or several alternative scenarios. In the new CATLOC version 6, this ability has been further improved with the addition of a refined sensitivity analysis, a new ability to import from SIMLOX and an improved import from OPUS10.

NEW BENEFITS

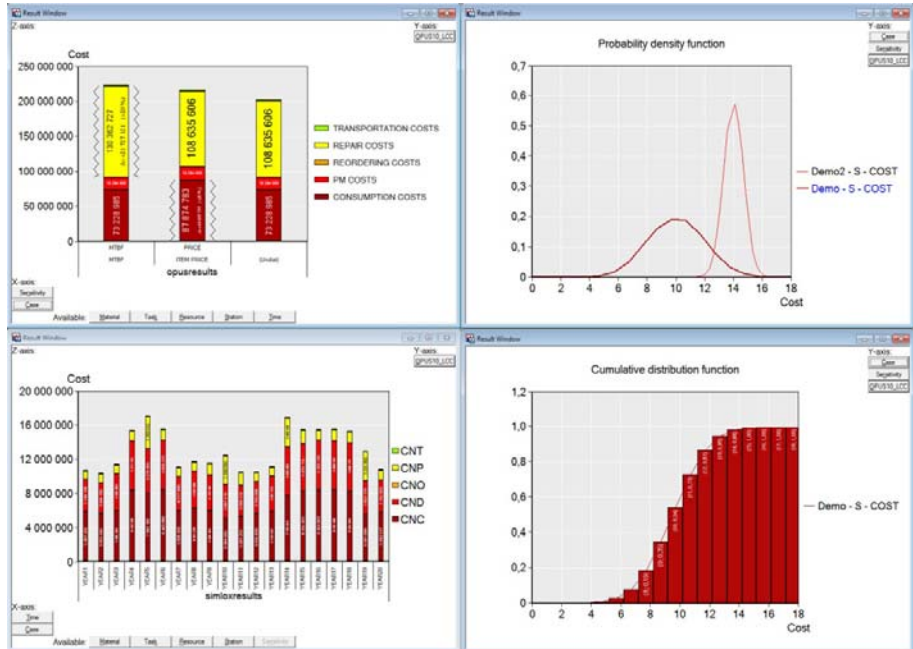
NEW CAPABILITY TO IDENTIFY & QUANTIFY UNCERTAINTIES

INCREASED ABILITY TO ANTICIPATE RISKS AND PREDICT DEVIATIONS

NEW IMPORT FROM SIMLOX - USE SIMULATION RESULTS AS INPUT FOR COST/REVENUE ESTIMATES

IMPROVED IMPORT FROM OPTIMIZATION TOOL OPUS10

COST ANALYSIS INCLUDING ENVIRONMENTAL FEES AND IMPACT COSTS



CATLOC VERSION 6 INCLUDES SEVERAL NEW CAPABILITIES THAT PROVIDE THE USER WITH MORE ACCURATE DECISION SUPPORT AND BETTER INTEGRATION TO THE OTHER TOOLS IN SYSTECON'S TOOL SUITE

CATLOC IN BRIEF

CATLOC is a comprehensive, flexible cost/revenue analysis tool with outstanding analysis capabilities. It accommodates any type of Life Cycle / Whole Life Costing as well as planning and budgeting, cost monitoring what if analyses, etc.

CATLOC offers a unique modelling approach with a multi-dimensional cost model that can be 100% user defined. A set of cost model templates is provided for modelers not wanting to start from scratch.

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DECISIONS WITH CONFIDENCE

CATLOC is a universal decision support tool for estimating cost and revenue flows and for predicting the economic consequences of choices and decisions. With its effective analysis capabilities and 100% user defined cost/revenue structure, CATLOC can be utilized in many different contexts and application areas; e.g. budgeting, cost/revenue analysis, Life Cycle Costing and consequence analysis.

CATLOC is used in key programmes by leading organisations worldwide. The ultimate aim for CATLOC is to make it as easy as possible to get the decision support needed for making informed decisions with a high confidence level. The sensitivity analysis in the new release takes an important step towards this objective, as it offers great

possibilities to manage risks and make more confident decisions.

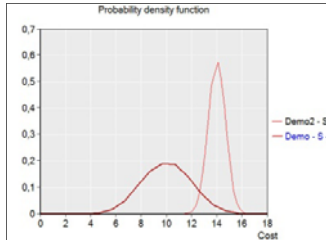
CATLOC is part of Systecons's tool suite, which primary focus area is logistic support analysis. At the same time, CATLOC is a generic stand-alone tool that is also ideal for contexts not related to logistic support. So far, however, a majority of CATLOC users also use other tools in the suite. The extended and improved integration with these tools should be a very useful enhancement for these users. Input data and results from OPUS10 optimizations and SIMLOX simulations can now be used directly as input for CATLOC.

Another new addition is *Categories*, which is a way to group costs. It is for example very suitable for modelling environmental fees and impact costs, side by side with traditional costs.



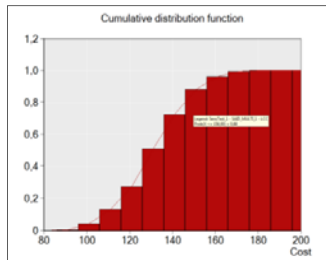
NEW SENSITIVITY ANALYSIS

With the new sensitivity analysis in CATLOC, uncertainties in cost and revenue estimates can be identified and quantified. This facilitates even more accurate and dependable decision support.



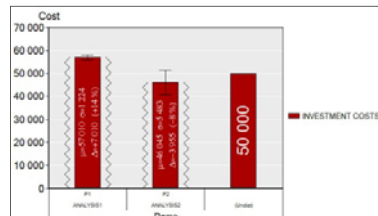
PROBABILITY DENSITY FOR A CERTAIN COST FOR TWO DIFFERENT CASES

By varying one or several parameters according to user defined probability distributions, one can analyse how results are affected. For example, the impact on revenue and cost from a 10% item price uncertainty or a variation of MTBF¹ or component resupply time according to a Poisson distribution.



PROBABILITY THAT THE COST FOR A SCENARIO IS LESS THAN OR EQUAL TO (X)

In a budgeting process, input data uncertainty and natural scenario randomness can now be accounted for, which means more accurate estimates. Furthermore, comparison of alternatives can be more complete and not only based on the overall estimates but also on the anticipated deviations and risks for each alternative.



COMPARISON OF COST AND ANTICIPATED DEVIATION FOR TWO ALTERNATIVE SCENARIOS

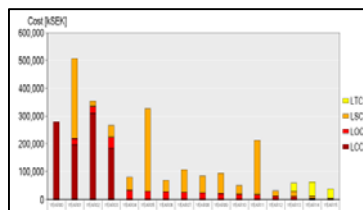
The less complex “old” sensitivity analysis is still highly useful for finding out which parameters have the biggest impact on the results.

¹ MTBF=Mean Time Between Failures

IMPROVED INTEGRATION

Systecon’s tool suite includes CATLOC, OPUS10 (optimization of spares & logistic support), and SIMLOX (simulation of operations & logistic support). The suite’s key strength is to analyse and dimension logistic support solutions based on operational requirements and economic consequences. The new import capabilities in CATLOC strengthen the whole suite, as results from optimizations and simulations are now easily translated to cost and revenue.

For SIMLOX especially, with output primarily related to efficiency and resource utilization, the improved integration opens up for new applications. Now, key results from SIMLOX like operation time accomplished, component consumption and maintenance actions performed can be imported to CATLOC and used as input for cost/revenue estimates.

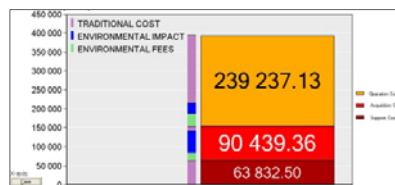


COSTS OVER TIME BASED ON A REALISTIC SIMULATION WITH TIME DISTRIBUTED EVENTS

Import from OPUS10 has been available in previous versions too, but it’s now completed to handle e.g. data related to the task based maintenance model in OPUS10.

NEW CATEGORIES TO MODEL E.G. ENVIRONMENTAL IMPACT

Procurement programs and other projects often require an account of the environmental impact of a solution. Environmental fees as well as other, more abstract, environmental impact costs can now be modelled side by side with traditional costs in CATLOC.



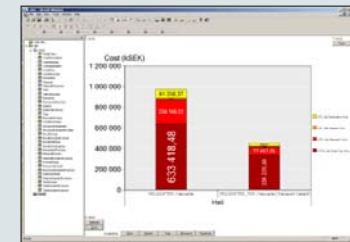
COSTS INCLUDING ENVIRONMENTAL FEES & IMPACT

This is possible through the use of user defined categories, which can be linked to the cost/revenue types. Categories can be applied in other contexts as well. Use of categories is fully supported in both input and result views (since version 5.1).

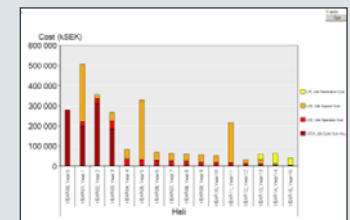
CATLOC IN BRIEF

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The advantages of CATLOC’s cost model become very apparent in the analysis view. It is as easy to move from e.g. cost totals on a high aggregate level to a detailed drill down in search of cost drivers.



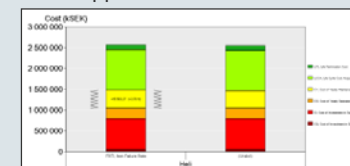
The result window is based upon the pivot value concept, which enhances the analysis capabilities. With a few mouse clicks the resulting costs can be shown distributed over time, across stations, resources, material types and tasks, or any combination of these. The user can also switch between numerical and graphical presentation of the results.



As there is no predetermined LCC structure, the user may choose to start with a very simple, rough model, and continue to expand and refine gradually as desired, rather than having to enter detailed parameter values up-front.

CATLOC is an ideal tool for unambiguous side-by-side comparison of alternatives. For example between:

- system design alternatives
- different logistic support solutions
- competing contractors or suppliers



CATLOC sensitivity analysis is ideal for analysing how results are affected if one or several parameters change with a certain percentage, or vary according to a probability distribution.