

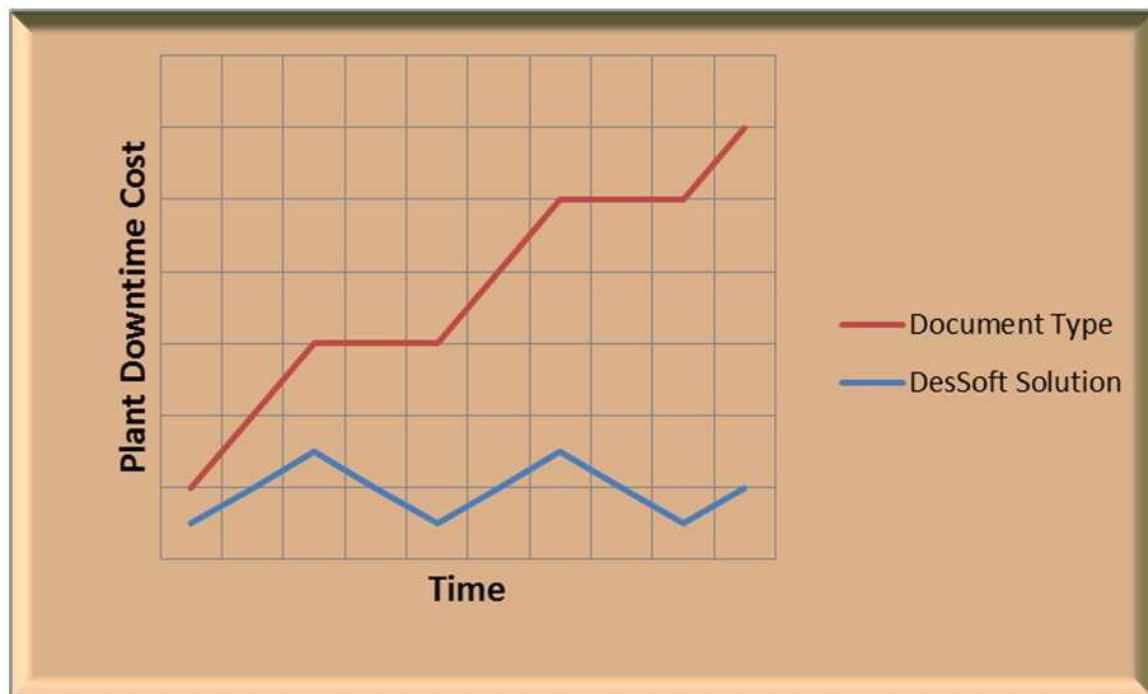
**Cost Savings that are achieved by using DesSoft products:**

Plants designed in document type applications with deliverables in document format only proved that plant downtime cost increased over time due to documentation not being kept up to date purely because too many documents have to be updated manually.

With designs being done within a database application ensures that changes like tag changes only have to be made once in one place and all associated documents, list and reports would be updated simultaneously thus minimizing plant downtime and cost throughout the plant life cycle.

During the last ten years the market moved more towards plant design being done in database applications due to the pull effect from end-users realising the long-term cost saving advantages as well as having a shorter EPC process from the designers meant earlier production and return on investment.

The following graph illustrates the cost principle:



Initial capital cost saving by including the following as part of the standard

**DesSoft application:**

Hookups, Datasheets, Built in Report-Designer, Racking and Routing, Cable Block diagrams, Auto-generation of loop and termination diagrams, template style diagrams in various formats like DWG, VSD, etc.

### **Increasing the Bottom Line**

Industry pressures forced design houses to offer total EPC faster and more efficiently than ever before. The only way this could be achieved was to move to database applications with the following benefits compared to document type applications.

- As there is no duplication of information engineering is more efficient.
- Information can be accessed and edited by all users (provided they have the administrative rights) from a central database.
- Concurrent license management reduces total license cost.
- PLC code and SCADA graphic can be designed faster with our user tools.
- Documents, lists and reports are generated automatically from the database apposed to manual creation.
- Data can be imported and exported for re-use.
- The amount of checking and rework limits most traditional documentation to much less accuracy where 100% accuracy is possible within DesSoft applications. Thus greater accuracy at less cost.
- More accurate design means less on-site delays and rework.
- Improves commissioning performance and hand over.
- The impact of design changes can easily be assessed by accessing various lists and reports indicating spare capacity of cables, cores and terminals.
- New changes can be made immediately with a full understanding off cost implications.
- Man-hour reductions between 50% and 70%.
- Man-hour reduction implies less cost and more throughput of designs improving ROAM, ROI etc. ensuring a competitive advantage to the design company.