Cost and Profitability Solutions for Project-Based Manufacturing

impact
ECS

For project-based manufacturers, the ImpactECS cost and profitability platform provides tools to calculate and track actual costs, statistics and variances in multiple views while maintaining detailed cost element data.

The ImpactECS platform leverages existing ERP and financial systems to provide mission critical solutions for project-based manufacturers.

Actual Cost Visibility

Detailed and accurate actual costs are a critical requirement for project-based manufacturers. ImpactECS offers the ability to directly calculate the specific cost of every input (material, labor) and allocate overhead costs by Work Breakdown Structure (WBS).

Integrated Indented Bill of Materials (BOM)

Effective project-based costing requires the ability to maintain cost element detail as costs move up through the Work Breakdown Structure as WIP items are consumed by other WIP items as well as the final product. ImpactECS uses an **indented BOM structure** that supports unlimited levels for a specific WBS. The available cost detail also improves **transfer pricing visibility** since accurate cost results ensure that profit margins between divisions are accessible to users with proper security level. Additionally, the BOM structure in ImpactECS provides a straightforward way to account for losses throughout the production process and allows **factoring of sub-items** to the ultimate end item.

Multiple Views of Bill of Materials

ImpactECS makes it possible to maintain multiple BOMs simultaneously, providing cost views from different time periods and based on different assumptions. While ImpactECS does not limit the number of BOMs that can exist at once, potential BOM types for project-based manufacturers include:

As Planned BOM - During the bidding process, the As Planned BOM is used to generate quotes based on the likely production process to offer an initial view of costs.

As Built BOM - This view captures the cost of the project as it happens and is used for reporting and real-time project management.

What-if BOM - Simulate the effect of changing inputs or business requirements in a sand-box environment to understand likely outcomes of any adjustment.

Projection BOM - This forward-looking BOM provides the ability to understand the forecasted cost at completion or at any future time period.

View, Analyze and Report Results

With ImpactECS, project-based manufacturers gain the ability to manage, report and compare cost results at any level in a meaningful way.

- **View complete cost breakdown of material, labor, overhead, and statistics**
- **Expose and analyze operational variances at both the cost and statistical levels and between various BOMs**
- **Isolate costs and statistics at multiple levels within BOMs**
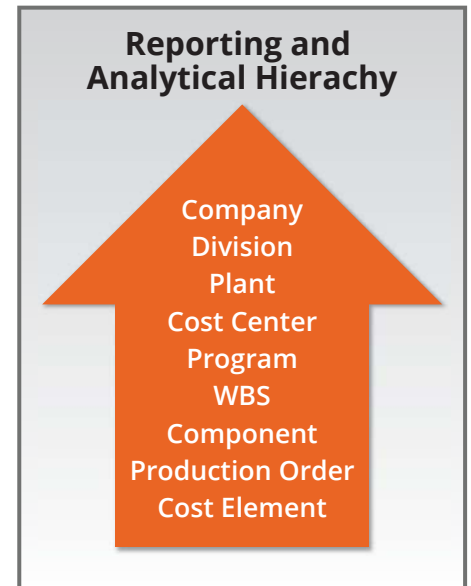
Rapid Project Cost Estimations

Develop estimates for future projects without reinventing the wheel. By using planned, actual or projected results from similar projects and current operating budgets as a basis, cost estimates for new projects are quickly developed using tested logic and assumptions.

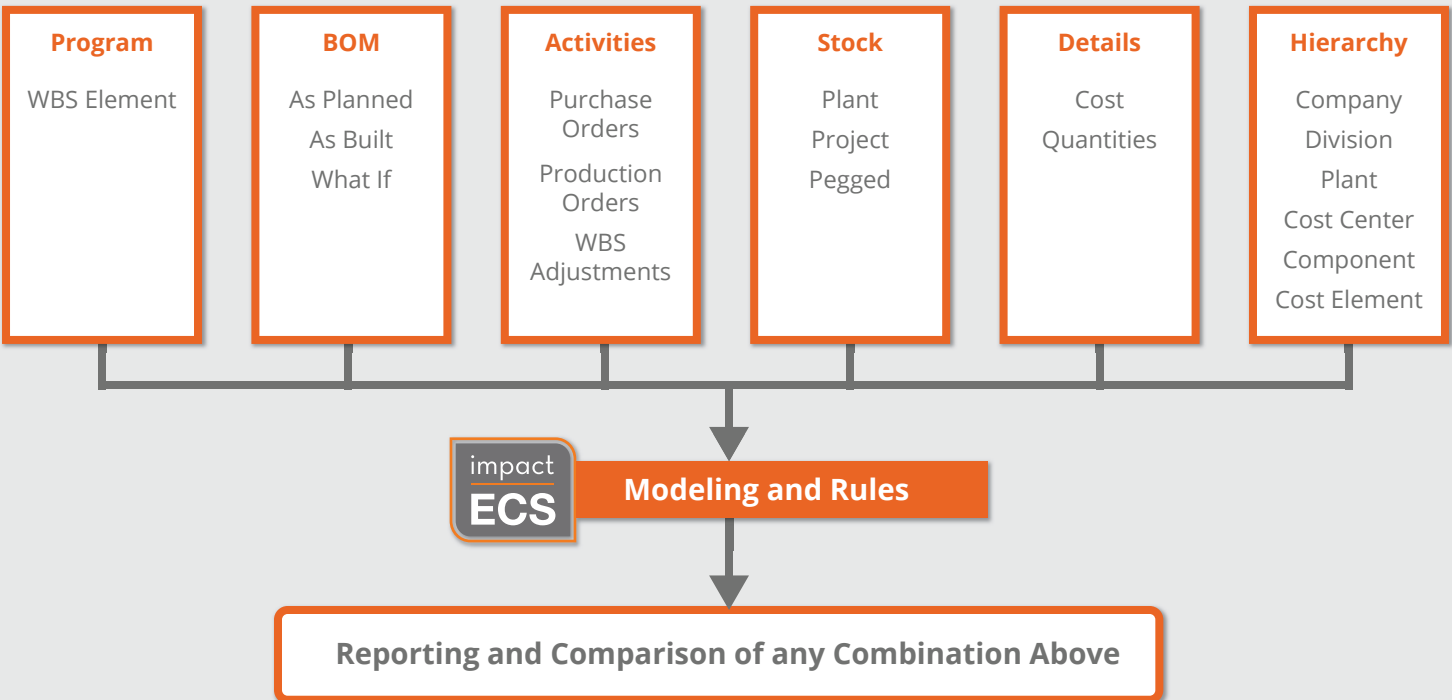## Internal and Government Audit Support

ImpactECS supports **DCAA, DCMA and internal audits** to ensure that project-based manufacturers are in compliance with the stringent regulatory requirements associated with government contracts.

Limited Business Disruption

The ImpactECS platform **augments existing ERP, financial, operations, and other legacy systems**, eliminating the need for expensive ERP module configurations or time-consuming systems conversions.

Reporting and Analytical Hierachy

Company
Division
Plant
Cost Center
Program
WBS
Component
Production Order
Cost Element

ImpactECS leverages a bottoms-up calculation methodology to support client specific analysis for multiple project-based data sets

Program	BOM	Activities	Stock	Details	Hierarchy
WBS Element	As Planned As Built What If	Purchase Orders Production Orders WBS Adjustments	Plant Project Pegged	Cost Quantities	Company Division Plant Cost Center Component Cost Element

impact **ECS** **Modeling and Rules**

Reporting and Comparison of any Combination Above
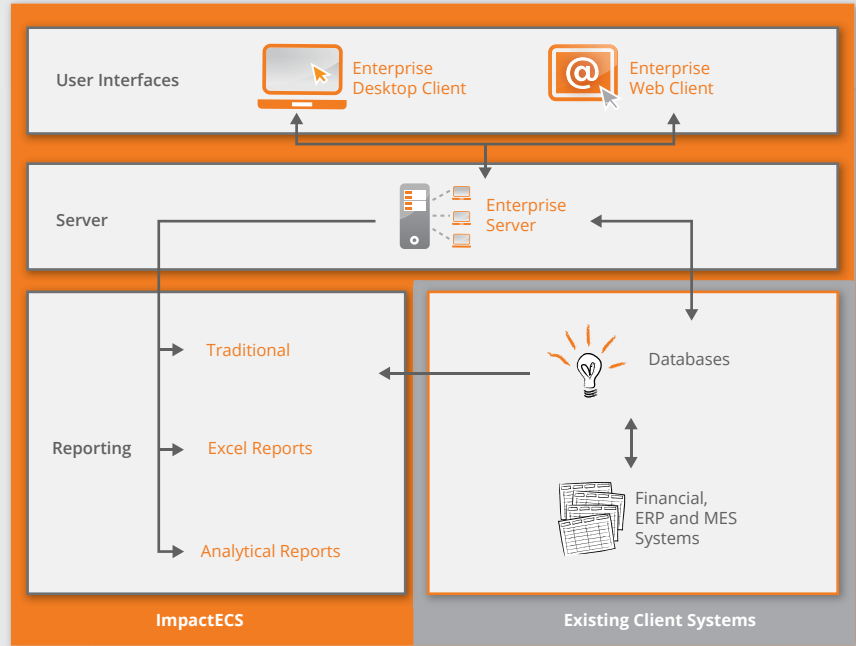

Learn more about ImpactECS   3csoftware.com

Connect Critical Data and Systems with ImpactECS

Designed to provide the best of both worlds, ImpactECS offers the benefits of a packaged software solution with the flexibility to meet the company's specific business need.

The ImpactECS platform contains a powerful calculation engine coupled with easy-to-use client interfaces and seamless integration with existing IT architectures. This combination of features allows manufacturers to create an unlimited number of models to evaluate any cost and profitability situation.

User Interfaces
Enterprise Desktop Client
Enterprise Web Client

Server
Enterprise Server

Reporting
Traditional
Excel Reports
Analytical Reports

Databases
Financial, ERP and MES Systems

ImpactECS
Existing Client Systems

Our Experience

ImpactECS is the leading cost and profitability platform with implementations at some of the world's most recognized companies.

About 3C Software

Founded in 1988, 3C Software has become the leading provider of cost and profitability systems to a wide range of industries. With over 600 installations in North and South America, Europe, Asia, and Australia, the ImpactECS platform gives business leaders the tools needed to build dynamic models to support the unique and complex analysis required to effectively manage their business.