Advanced Cost Modeling

ImpactECS for SAP® allows users to quickly and accurately re-roll product costs using "what-if" or forcasted input data. By making use of core ERP and business warehouse data like BOMs, routings and activity rates, companies can establish an integrated scenario analysis platform.

ImpactECS runs on SAP HANA®

Leverage in-memory database performance to calculate costs and run simulations at speeds much faster than traditional relational databases.
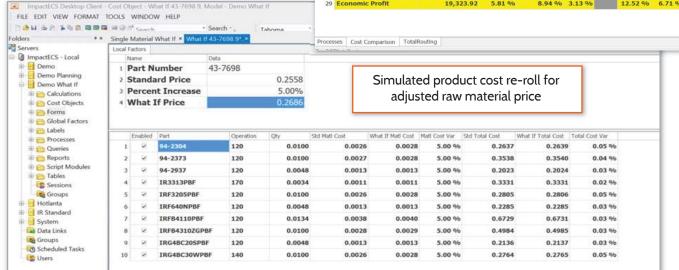
Common model input changes

Raw material and commodity prices

Currency rates

Volumes and mixes of manufactured products

Cost center spending and activity rates

	Name	Data
1	Company Average	☑
2	Customer Cat. Average	☑
3	Customer Information	
4	Cobj ID	1
5	ID	54
6	Name	7-Eleven - Boston
7	Scenario_ID	1
8	Scenario_Name	Jan 2011
9	Facility_ID	1
10		0.0000

Simulated profit & loss statement for distribution activities

	Activity Name	Data	Pct of Rev	Company Avg	Varaince		Cat Avg	Variance
1	Revenue	327,782.57	98.61 %	100.59 %	-1.99 %		100.38 %	-1.77 %
2	Pallet/Slip Sheet Charge	0.00	0.00 %	0.01 %	-0.01 %		0.01 %	-0.01 %
3	Club Pack Charge	0.00	0.00 %	0.02 %	-0.02 %		0.10 %	-0.10 %
4	Returns Revenue Loss	-980.03	-0.29 %	-2.92 %	2.63 %		-2.64 %	2.35 %
5	Freight Charges	5,613.25	1.69 %	2.30 %	-0.61 %		2.15 %	-0.46 %
6	**Total Revenue**	332,415.80	100.00 %	100.00 %	0.00 %		100.00...	0.00 %
7	Direct Cost	228,202.83	68.65 %	72.75 %	-4.10 %		70.50 %	-1.85 %
8	Deductions Cost	0.00	0.00 %	0.46 %	-0.46 %		0.58 %	-0.58 %
9	Pricing Compliance	0.00	0.00 %	0.02 %	-0.02 %		0.02 %	-0.02 %
10	DPS Rebate	2,520.00	0.76 %	0.14 %	0.62 %		0.18 %	0.58 %
11	Freight Cost	2,698.41	0.81 %	1.61 %	-0.80 %		1.49 %	-0.68 %
12	**Total Direct Cost**	233,421.24	70.22 %	74.98 %	-4.76 %		72.77 %	-2.55 %
13	Customer Service	11,261.64	3.39 %	1.16 %	2.23 %		0.88 %	2.51 %
14	Delivery	23,672.29	7.12 %	2.61 %	4.51 %		2.66 %	4.46 %
15	Negotiate	215.75	0.06 %	0.07 %	0.00 %		0.07 %	0.00 %
16	Occupancy	232.26	0.07 %	0.07 %	0.00 %		0.07 %	0.00 %
17	Order Entry	472.51	0.14 %	0.42 %	-0.28 %		0.43 %	-0.29 %
18	Order Loading	3,870.03	1.16 %	1.20 %	-0.04 %		1.16 %	0.00 %
19	Outside Sales	19,583.40	5.89 %	2.63 %	3.26 %		2.04 %	3.85 %
20	Packaging	0.00	0.00 %	1.15 %	-1.15 %		1.00 %	-1.00 %
21	Picking	10,643.51	3.20 %	3.41 %	-0.21 %		3.23 %	-0.02 %
22	Purchasing	6,141.66	1.85 %	1.70 %	0.14 %		1.64 %	0.20 %
23	Receiving	2,286.13	0.69 %	0.65 %	0.04 %		0.63 %	0.05 %
24	Returns	418.77	0.13 %	0.64 %	-0.51 %		0.58 %	-0.45 %
25	Source	215.75	0.06 %	0.07 %	0.00 %		0.07 %	0.00 %
26	**Total Indirect Cost**	79,013.71	23.77 %	15.79 %	7.98 %		14.46 %	9.31 %
27	AR Carrying Cost	293.95	0.09 %	0.17 %	-0.08 %		0.14 %	-0.05 %
28	Inventory Carrying Cost	362.97	0.11 %	0.12 %	-0.01 %		0.11 %	0.00 %
29	**Economic Profit**	19,323.92	5.81 %	8.94 %	3.13 %		12.52 %	6.71 %

Processes | Cost Comparison | TotalRouting

ImpactECS Desktop Client – Cost Object - What If 43-7698 9; Model - Demo What If
FILE EDIT VIEW FORMAT TOOLS WINDOW HELP

Folders — Servers — ImpactECS - Local — Demo — Demo Planning — Demo What If — Calculations — Cost Objects — Forms — Global Factors — Labels — Processes — Queries — Reports — Script Modules — Tables — Sessions — Groups — Hotlanta — IR Standard — System — Data Links — Groups — Scheduled Tasks — Users

Single Material What If | **What If 43-7698 9***

Local Factors

	Name	Data
1	**Part Number**	43-7698
2	**Standard Price**	0.2558
3	**Percent Increase**	5.00%
4	**What If Price**	0.2686

Simulated product cost re-roll for adjusted raw material price

	Enabled	Part	Operation	Qty	Std Matl Cost	What If Matl Cost	Matl Cost Var	Std Total Cost	What If Total Cost	Total Cost Var
1	✓	94-2304	120	0.0100	0.0026	0.0028	5.00 %	0.2637	0.2639	0.05 %
2	✓	94-2373	120	0.0100	0.0027	0.0028	5.00 %	0.3538	0.3540	0.04 %
3	✓	94-2937	120	0.0048	0.0013	0.0013	5.00 %	0.2023	0.2024	0.03 %
4	✓	IR3313PBF	170	0.0034	0.0011	0.0011	5.00 %	0.3331	0.3331	0.02 %
5	✓	IRF3205PBF	120	0.0100	0.0026	0.0028	5.00 %	0.2805	0.2806	0.05 %
6	✓	IRF640NPBF	120	0.0048	0.0013	0.0013	5.00 %	0.2285	0.2285	0.03 %
7	✓	IRFB4110PBF	120	0.0134	0.0038	0.0040	5.00 %	0.6729	0.6731	0.03 %
8	✓	IRFB4310ZGPBF	120	0.0100	0.0028	0.0029	5.00 %	0.4984	0.4985	0.03 %
9	✓	IRG4BC20SPBF	120	0.0048	0.0013	0.0013	5.00 %	0.2136	0.2137	0.03 %
10	✓	IRG4BC30WPBF	140	0.0100	0.0026	0.0028	5.00 %	0.2764	0.2765	0.05 %

ImpactECS for SAP® can execute and store an unlimited number of scenarios and compare any set of scenario results side-by-side.

SAP Partner   3C SOFTWARE

SAP® customers recognize the need for robust costing and simulation capabilities.

ImpactECS is one of the most versatile business modeling platforms available for finance and operations professionals. Some of the world's most recognizable companies have used ImpactECS in conjunction with SAP® to gain better business insight in the areas of product costing and profitability analytics.

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Seamless integration between SAP® and ImpactECS is supported through a certified interface.

The SAP® Data Integration Module is an SAPAdapter built into ImpactECS based on the Microsoft technology stack and the SAP .net Connector that extracts data from SAP® for use in ImpactECS models.

- Run predefined data extraction jobs to pull data from SAP®
- Import General Ledger, Product Master, Bill of Material, Routing, Raw Material Master and more

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