



Manufacturing Footprint Optimization

(Automotive Accessories Manufacturer)

Partnered with the client to evaluate financial impact of optimizing manufacturing footprint across multiple scenarios, that encompassed expanding/closing existing facilities, expanding production to economical geographies, and discontinuing unprofitable product lines, to improve profitability (through synergy gains)

FOOTPRINT OPTIMIZATION FOR AN AUTOMOTIVE ACCESSORIES MANUFACTURER



ABOUT THE CLIENT

Client is an automotive accessories manufacturing company that sells accessories and spare parts for trucks, jeeps and cars with a widespread footprint across U.S. and Canada



SITUATION

- Given the widespread manufacturing footprint, 18 plants across U.S. and Canada, there was an opportunity to optimize the same to improve profitability
- Merilytics partnered with the client to evaluate financial impact of optimizing manufacturing footprint across multiple scenarios, that encompassed expanding/closing existing facilities, expanding production to economical geographies, and discontinuing unprofitable product lines, to improve profitability (through synergy gains)



VALUE ADDITION

- Developed a dynamic financial model providing flexibility to tweak the COGS and SG&A related assumptions across scenarios by analyzing the synergies in consolidating manufacturing operations
- Provided visibility into key cost drivers sizing the potential opportunity by optimizing the cost and estimated the potential impact on bottom line profitability under the different scenarios thus, facilitating informed decision making
- Snapshot of projected savings in EBITDA across all the scenarios, highlighting the favorable/unfavorable variances in costs vs. baseline to better understand net impact of each movement

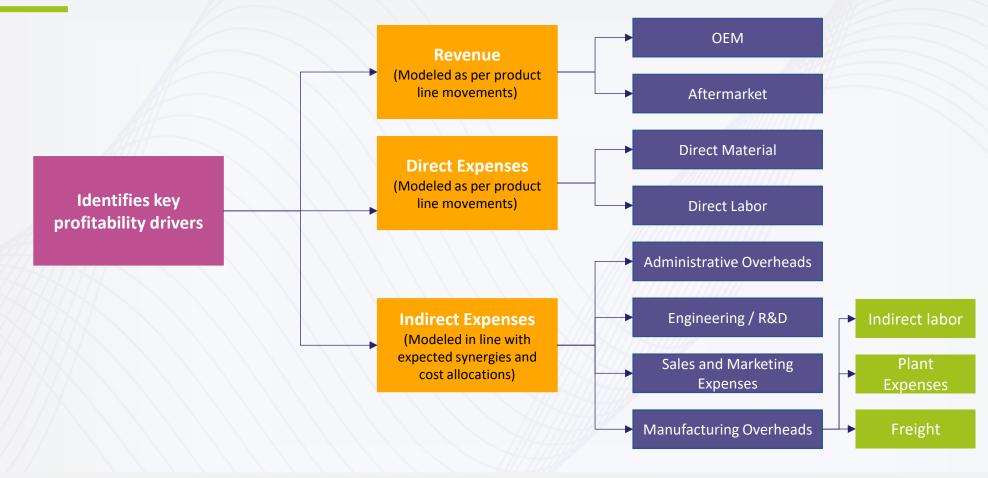


IMPACT

- Identified opportunity with a projected EBITDA savings of \$16.9M (7%) by consolidating multiple manufacturing plants into a Mega facility at a new location, reducing procurement cost and manufacturing overheads, thereby improving margins
- The model demonstrated that administrative costs were not linear with production and consolidating production facilities led to a sizeable reduction in Selling, General and Administrative overheads and operational costs







- 1 Identified key profitability drivers essential for scenario-wise financial impact analysis Revenue, Costs (Direct & Indirect)
- 2 Broken down the revenue at a product-line level at each manufacturing plant to estimate plant-wise revenue for each scenario
- 3 Estimated Direct Material and Direct Labor cost for each product line to estimate plant wise revenue for each scenario
- 4 Indirect expenses (non linear to production) were modeled considering synergetic gains through consolidation as a % of actual Cost

EXHIBIT #1 – SCENARIO SUMMARY



Facilitates comparison with selected base year

ILLUSTRATIVE

Footprint Optimization Analysis Summary

Please choose the base line year from the dropdown in cell D4

Year 20XX

	Scenario - 1			Scenario - 2			Scenario - 3		
	Actual Amount	Savings, \$	Savings, %	Actual Amount	Savings, \$	Savings, %	Revised	Savings, \$	Savings, %
EBITDA, \$	\$228,634 K	\$2,591 K	1.13%	\$228,634 K	\$5,706 K	2.50%	\$231,551 K	\$2,756 K	1.19%
Direct Materials (DM)	\$373,610K	\$0 K	0.00%	\$373,610K	\$0 K	0.00%	\$365,705 K	\$0 K	0.00%
Direct Labor (DL)	\$92,107K	-\$254 K	-0.11%	\$92,107K	\$0 K	0.00%	\$89,593 K	\$0 K	0.00%
Manufacturing OverHead	\$98,091K	\$1,373 K	0.60%	\$98,091K	\$4,406 K	1.93%	\$93,652 K	\$2,072 K	0.09%
Freight Outbound	\$36,136K	\$162 K	0.07%	\$36,136K	\$567 K	0.25%	\$34,644 K	\$665 K	0.2 9%
Warranty Costs	\$11,069K	\$0 K	0.00%	\$11,069K	\$0 K	0.00%	\$10,926 K	\$0 K	0.0
Sales General & Administration (SG&A)	\$36,805K	\$1,416 K	0.62%	\$36,805K	\$733 K	0.32%	\$35,057 K	\$35 K	0.02%
Other Income / (Expenses)	-\$93K	-\$106 K	-0.05%	-\$93K	\$0 K	0.00%	-\$96 K	-\$16 K	-0.01%





Signifies additional cost