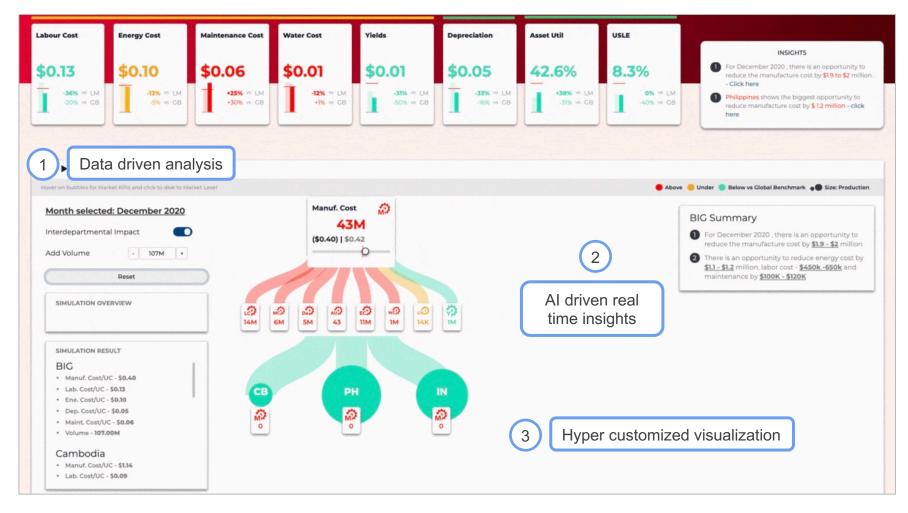
Gramener helped a global bottling manufacturer to optimize cost across 3 countries

Explore opportunities for cost rationalization and make your operations more efficient & agile

~4M mfg. cost savings

Perform an in-depth analysis of costs across the supply chain and understand interplay among them

You secure an enhanced ability to control the costs and identify opportunities for cost rationalization



Manufacturing cost optimization leveraging machine learnings

3

exemplifies the

most important

costs that need

Prepare mfg. cost tree by aggregating data from multiple

Manuf. Cost 🦽

43M

LABOUR COST 🦽

14.3M (\$0.13) | \$0.17

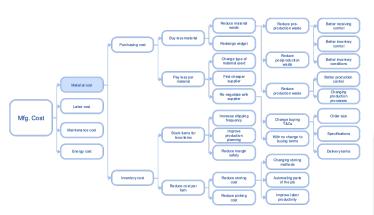
(\$0.40) | \$0.43

to be tracked

data sources

Gramener cost optimization solution looks at both past, current and future cost scenarios

Cost tree



Manufacturing cost tree



Compare mfg. plants on cost parameters and identify outliers

Exploratory data analysis

1

Cost relationship model

Determine how manufacturing cost impacts and gets impacted by other costs

Manufacturing cost = Bias

- + 1.08* Labor cost
- + 1.07* Energy cost
- + 1.1* Maintenance cost
- + Other variables

4

Cost simulation

Drill down mfg. cost for a specific plant by key cost levers such as labor, material, material, energy etc.

and know the cost variability based on changing demand patterns and volumes, and then work backwards to determine cost take out areas ahead of time

Forecast costs for a future scenario

Cost forecasting model

5



Provide guided response to a user on cost savings by acting on complex cost relationships