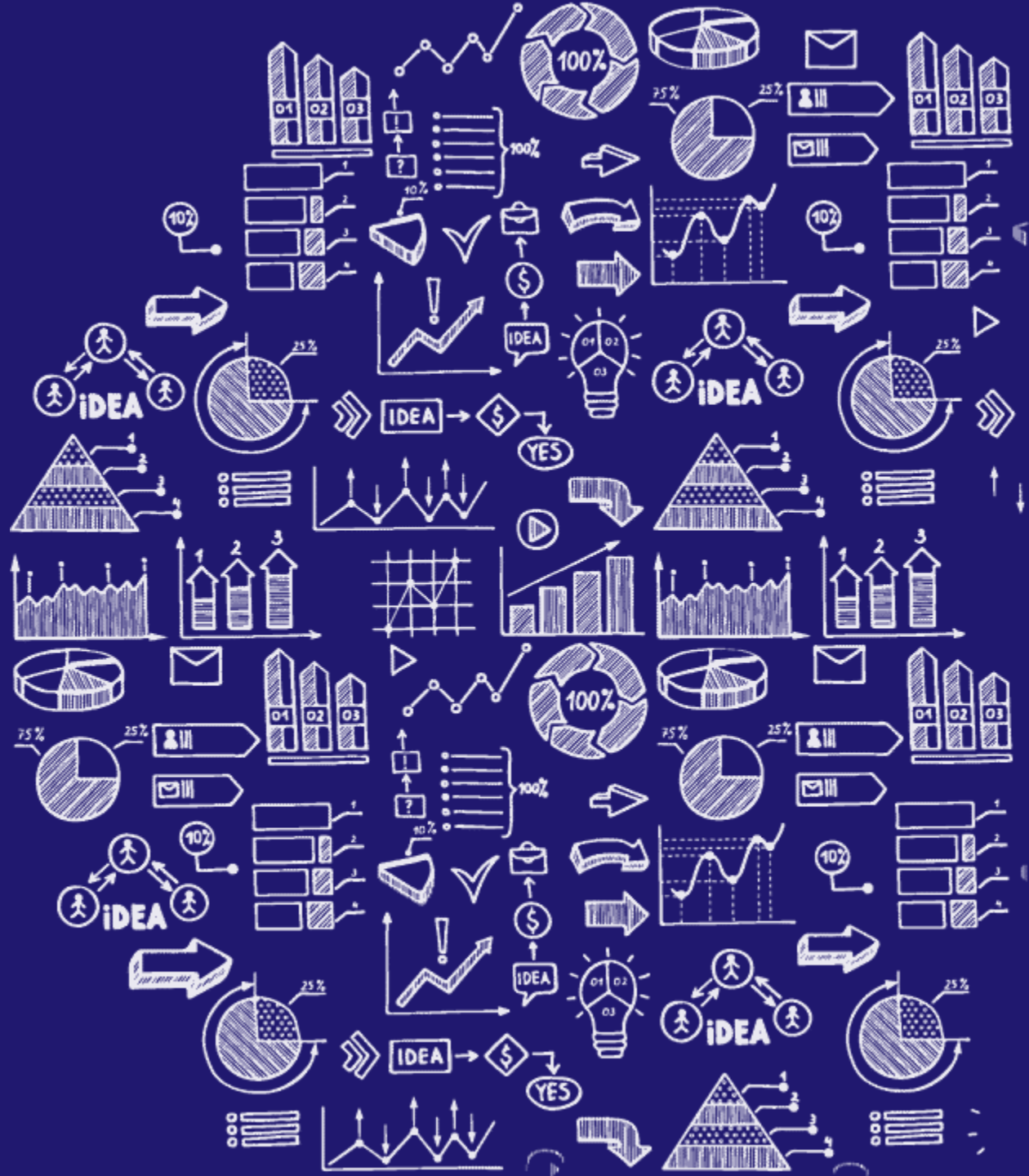
Gramener
Insights as Stories

Visualization consolidated deck

Supply chain visibility



A global beverage manufacturing firm reduced manufacturing cost 2.5% leveraging analytics

Our client business objective was to **improve the yield quantity of the Drug product** manufacturing
Three months of historical data were available

Gramener used Exploratory Data Analysis to understand various patterns
But since the key question was which operational and material parameters are important, we applied classification and regression models for rules and variable importance

Client has better visibility on which parameters are driving the yield of the product
This enabled them to target for their 'Golden' batch to achieve output of 117 kg against 114 kg per year previously

2.5%

Manufacturing cost reduction

Regression analysis is performed on cost components to understand inter dependencies.
E.g; How energy cost would change when labor cost is reduced by 20%

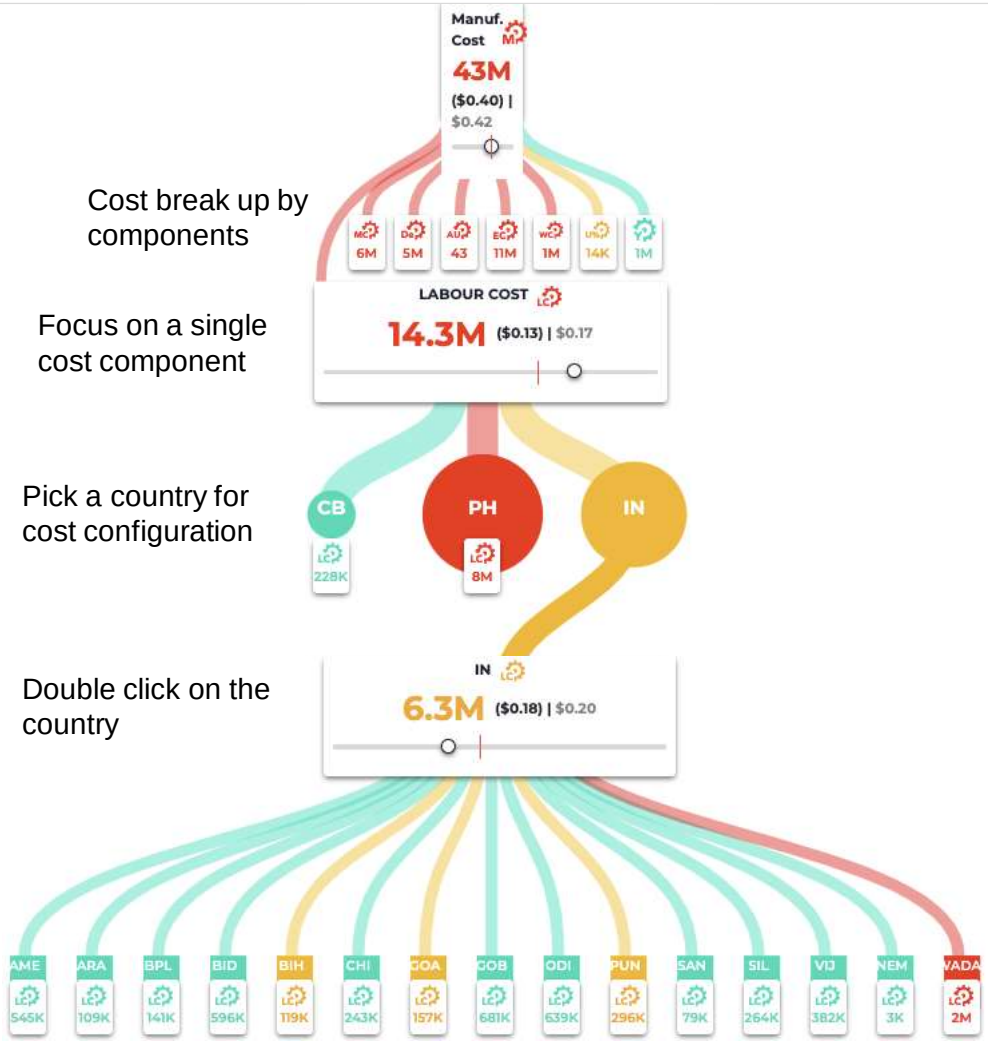
Cost break up by components

Focus on a single cost component

Pick a country for cost configuration

Double click on the country

Cost exploded view by manufacturing plants



Cost Command Center

A leading retailer improves supply chain visibility and reduces bottlenecks

A leading retailer wanted to identify operational bottlenecks in transportation of products from manufacturers / suppliers (vendor partners) to DCs / warehouses all the way to the stores covering the entire supply chain network.

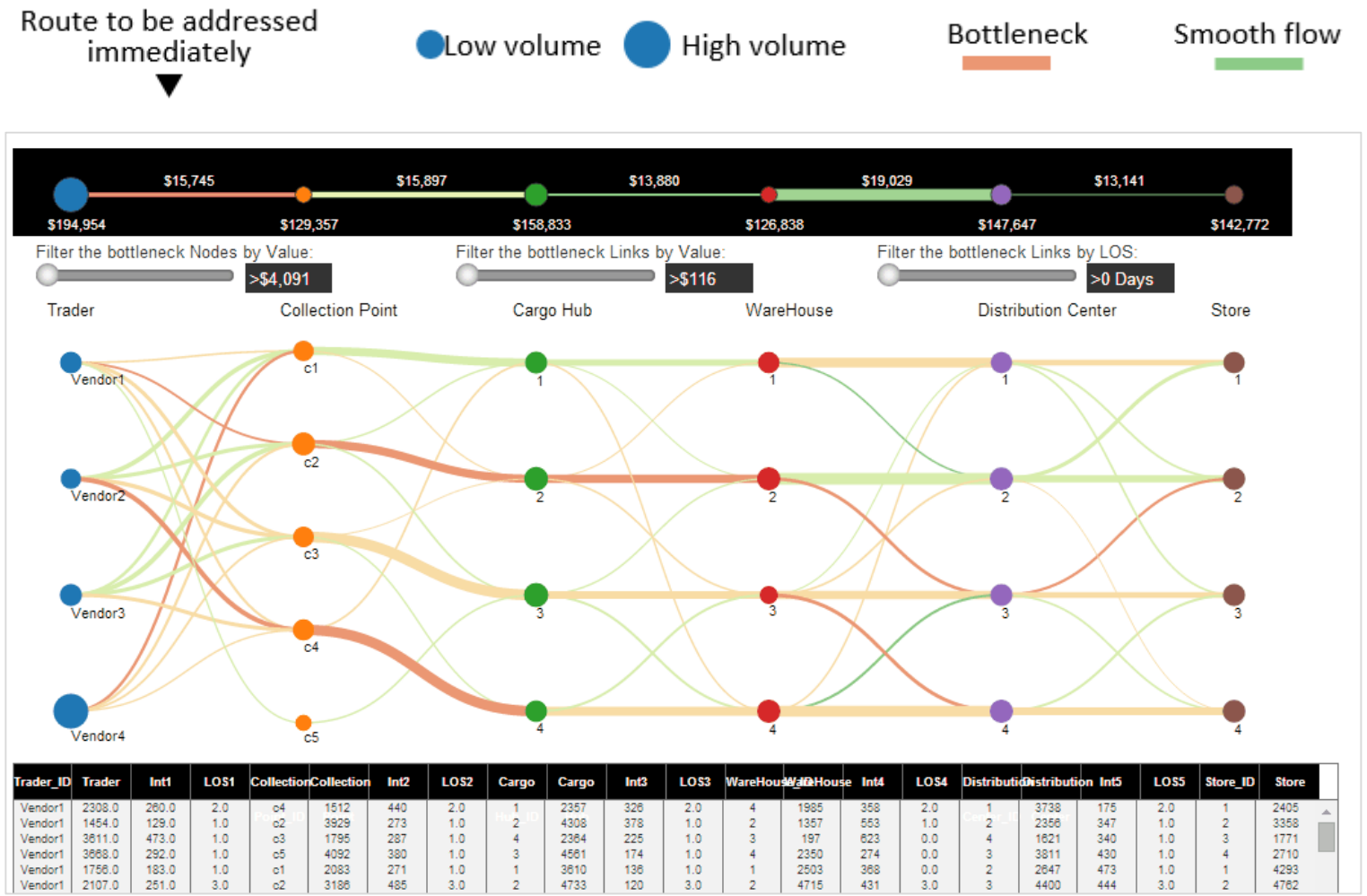
Several parameters like Transit Value (COGS), Product Type and Transit Time were analyzed to identify potential paths leading to high costs in the supply chain network. Gramener also deployed interactive controls for aided visual exploration of supply chain hotspots.

The visualization clearly identified the bottleneck along one strand of the supply chain, on which shipments were delayed by more than 200% of the normal shipment duration.

~50%

Reduction in stock over risk

A real-time visualization for transfer of goods from vendor to warehouse to store



Trader_ID	Trader	Int1	LOS1	Collection	Collection	Int2	LOS2	Cargo	Cargo	Int3	LOS3	WareHouse	WareHouse	Int4	LOS4	Distribution	Distribution	Int5	LOS5	Store_ID	Store
Vendor1	2308.0	260.0	2.0	c4	1512	440	2.0	1	2357	326	2.0	4	1985	358	2.0	1	3738	175	2.0	1	2405
Vendor1	1454.0	129.0	1.0	c2	3929	273	1.0	2	4308	378	1.0	2	1357	553	1.0	2	2356	347	1.0	2	3358
Vendor1	3611.0	473.0	1.0	c3	1795	287	1.0	4	2364	225	1.0	3	197	623	0.0	4	1621	340	1.0	3	1771
Vendor1	3668.0	292.0	1.0	c5	4092	380	1.0	3	4561	174	1.0	4	2350	274	0.0	3	3811	430	1.0	4	2710
Vendor1	1756.0	183.0	1.0	c1	2083	271	1.0	1	3610	136	1.0	1	2503	368	0.0	2	2647	473	1.0	1	4293
Vendor1	2107.0	251.0	3.0	c2	3186	485	3.0	2	4733	120	3.0	2	4715	431	3.0	3	4400	444	3.0	2	4762

A global Airline reduces delay in cargo delivery

A global airline wanted to identify the factors driving delay in cargo delivery. Specifically, the time from when the flight lands to when the cargo reaches the warehouse is the bottleneck. This needed to be optimized.

Gramener built a model that identified the drivers of delay and created a what-if model that showed the impact of changing the underlying drivers.

The number of trained staff and number of forklifts (among others) emerged as the biggest drivers. Visualizing the impact of changing staffing levels and forklifts, airports re-structured their budgets and met all SLAs.

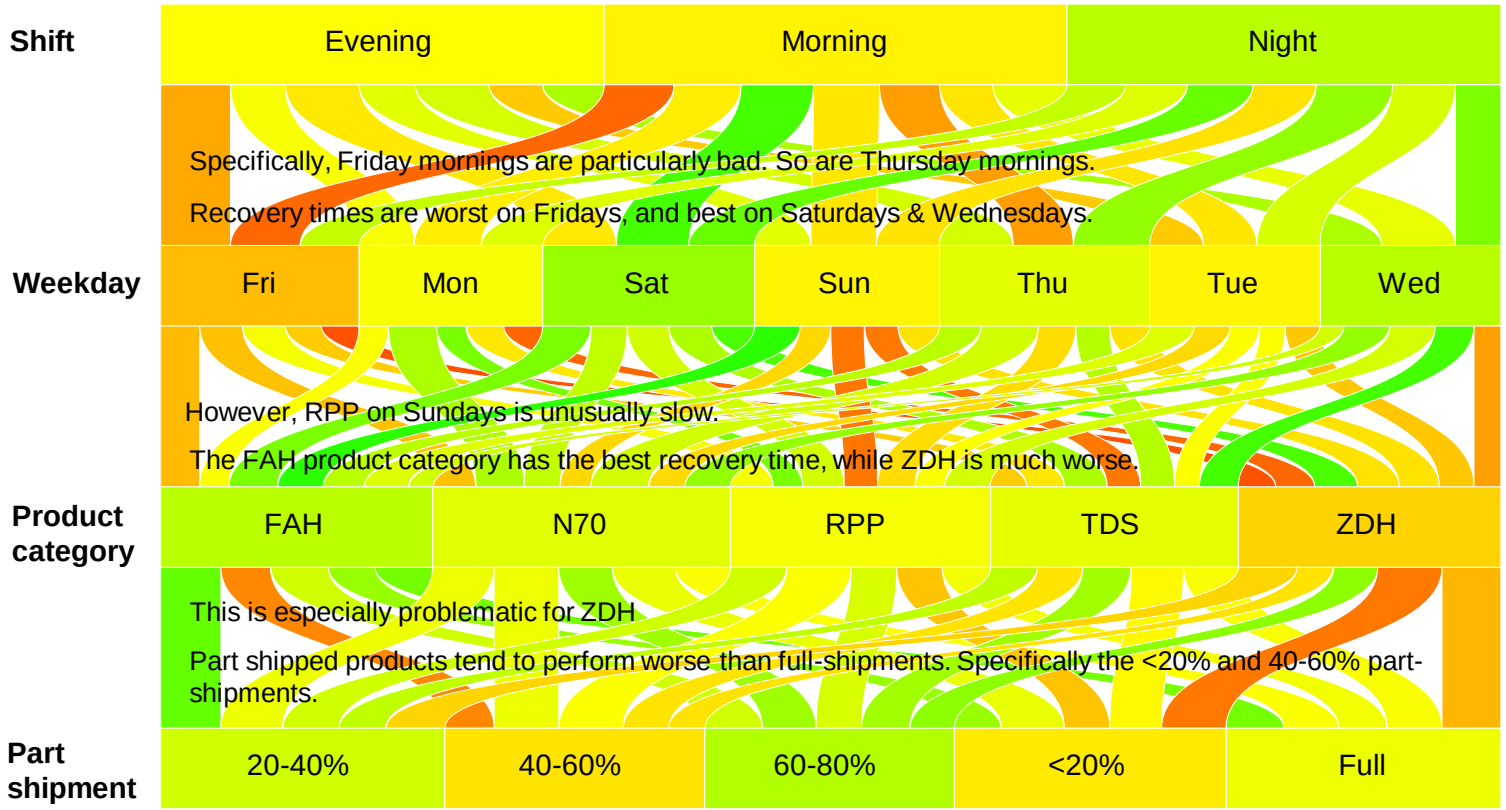
$ 180k

Budget savings with automation

70%

Net SLA achievement

Recovery times are neutral during the evening and morning shifts (mornings are slightly worse), night times are the best.



Supply Chain Simulator

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Thank You