

Procurement Analytics Automotive Accessories Manufacturer

Partnered with the client to identify opportunities for savings and informed procurement decision making with the help of an automated dashboarding suite. As part of this, streamlined the process to centrally track the procurement contracts and spend across plants, analyze the spend, payment terms, POs, etc.

Procurement Analytics for an Automotive Accessories Manufacturer

Situation

- Given the widespread manufacturing footprint and plant-level sourcing, corporate procurement team had limited visibility into procurement processes.

 There was an opportunity at a company level to analyze the spend better, track pricing trends, and identify savings opportunities
- Partnered with the client to identify opportunities for savings in procurement spend and enable informed decision making with the help of an automated
 dashboarding suite. As part of this, process was streamlined to centrally track procurement contracts, spend across plants, analyze the spend, payment
 terms, etc.

Accordion Value Add

- Built automated data flows to consolidate and integrate purchase orders, supplier invoices and payments data from multiple ERP systems (Microsoft Dynamics GP, Infor Visual, Traverse, Sage 500, etc.) and legacy databases into a central data repository for further analysis
- Created a central contracts repository to streamline the process of tracking new contracts and setup automated reminders with respective contract owners for contract negotiation, renewals and pricing updates on a monthly basis using 'Power Automate'
- Built the spend cube to provide visibility into the spend by commodity, vendor, and plant. Analyzed the Purchase Price Variance (PPV) to quantify the
 impact of pricing changes and benchmarked the same against the commodity pricing trends to help the team identify savings opportunities, manage vendor
 performance and risks
- Analyzed the vendor payment terms to identify payment trends, gaps in leveraging current credit days or discount terms, and identified the potential saving
 opportunities by rationalizing payment terms across plants and suppliers

Impact

- Analyzing the spend cube highlighted that top 8% of the suppliers accounted for 80% of the total spend highlighting an opportunity to diversify the supplier base and have centralized contracts across plants enabling better negotiating power
- Reconciliation of contracts with the supplier invoices highlighted inconsistencies in the invoices of \$500K either due to mismatch with contract price or payment terms agreed in the contract
- Sized a savings opportunity of \$400K by rationalizing the payment terms by vendor and commodity by timely payments to vendors (against paying early)

Analytical Solutions – Procurement Analytics



SPEND CUBE

- Analyzed procurement spend by Plant, Commodity, and Vendor highlighting diversification
- Data driven commodity management
- Sustainable Procurement savings through strategic sourcing and optimization of supply base



PURCHASE PRICE VARIANCE

- Analyzed the purchase price trends at a commodity level and quantified the financial impact
- Benchmarked the pricing trends with the commodity indexes to validate the pricing changes



CONTRACTS PRICE AUDITS

- Audited the compliance between PO prices, invoiced prices, and contracted prices for accurate spend
- Ensured consistency across purchase managers, commodities, and suppliers



PAYMENT TERMS RATIONALIZATION

- Analyzed latest payment terms and identified opportunity for rationalization
- Provided visibility into best payment terms across vendors of same commodity or for same vendor across various plants to size the savings opportunity

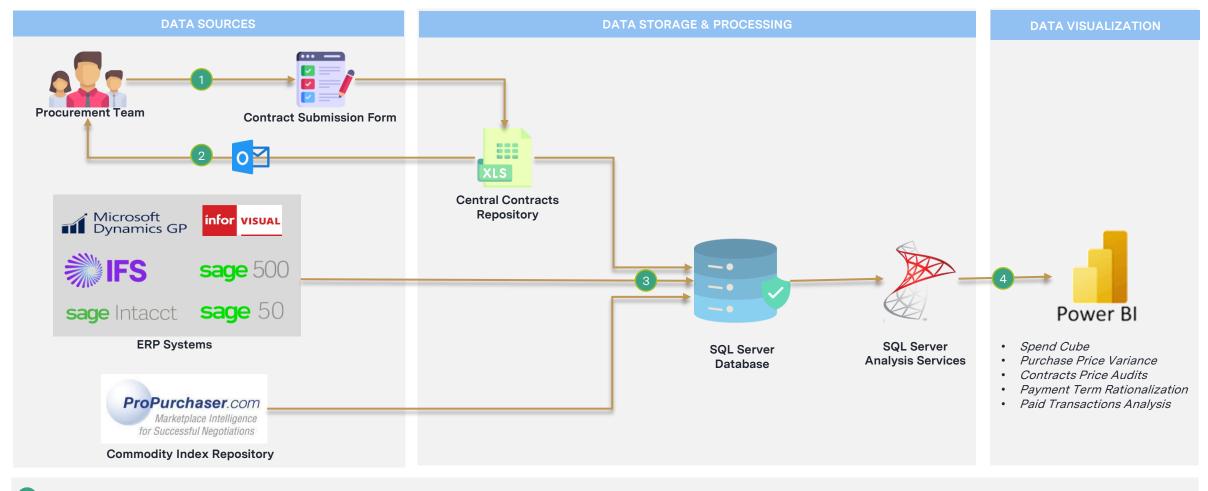


PAID TRANSACTIONS ANALYSIS

- Analyzed payment trends to identify underutilization of credit across plants, commodities, and suppliers as per payment terms
- Identified opportunities to maximize savings

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Methodology/ Approach - Procurement Data Flow

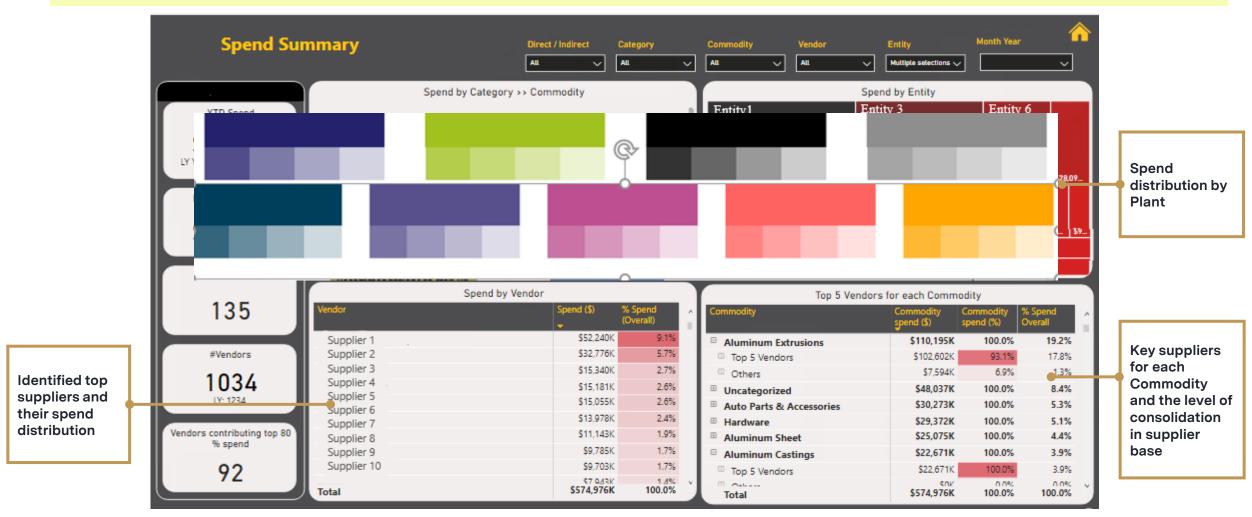


- 1 Ingested Purchase contracts/Price agreements from the Procurement team to the central contracts repository through a Microsoft form hosted on SharePoint
- 2 Setup automated reminders with respective contract owners for contract negotiation, renewals, and price revisions
 - Collated and ingested contracts, Purchase orders, Invoices, Payments, Commodity pricing data from multiple sources using SSIS and Python to SQL Server data repository
 - Built data models by leveraging Analysis Services (SSAS) to build Procurement metrics. Designed dashboards to automate and homogenize reporting, data analysis

Exhibit #1 - Spend Cube Dashboard

ILLUSTRATIVE

Analysis of historical spend across 3 dimensions – Commodity, Supplier and Plant. Spend Cube provides insights into category-level spend management, supplier relationship management, tail-end management and contracted spend-coverage.



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Exhibit #2 - Purchase Price Variance

ILLUSTRATIVE

PPV by Plant

Purchase price variance (PPV), calculated as the difference between the current cost on an item and the baseline cost (previous period actual amount paid to procure item). Provides visibility into the impact of price change on overall procurement spend.

 $\text{Purchase Price Variance} = \frac{\sum_{All\ Items}(Price_t\ -Price_{t-1}).\ Quantity_t}{Total\ Spend_t}$

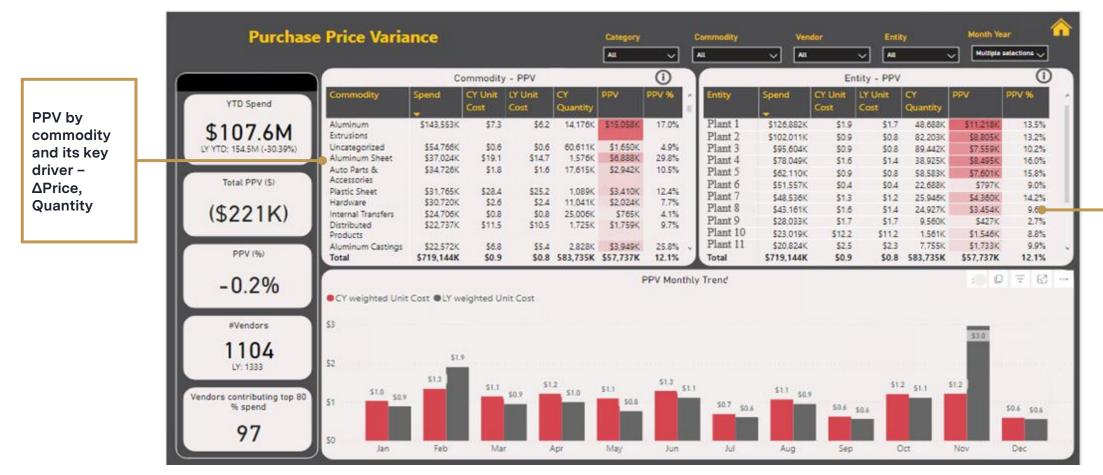


Exhibit #3 – Contracts Price Audits

ILLUSTRATIVE

3-step price compliance check to identify any price variances between negotiated contracts, purchase orders raised by plants and invoices created by vendors. Price audits help identify transactions that are not in compliance with the expected item costs and benchmarks compliance among plants, contract owners and suppliers to identify trends.

Invoice vs. contract price comparison to check if suppliers are honouring the negotiated prices

PO vs Contract price comparison to check if purchase managers are leveraging the negotiated prices Invoice vs. PO price comparison to identify inconsistencies in transactions

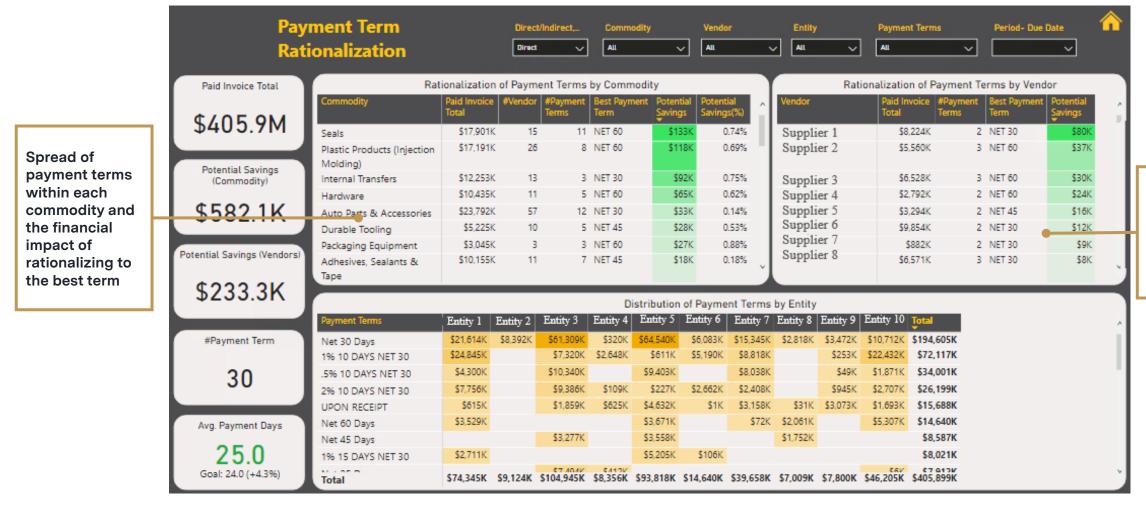
Summa	Invoice vs Contract as of (Invoice Date) Comparison					PO vs Contract Price (as of PO Date) Comparison					Invoice vs PO Comparison					
Vendor Name	Entity	Month	Total Amount (\$)	Actual Amount - Contracted Items (\$)	Expected Amount as per Contract	Variance (\$)	Variance (%)	Total Amount (\$)	Actual Amount - Contracted Items (\$)	Expected Amount as per Contract	Variance (\$)	Variance (%)	Invoice Total Amount (\$)	PO Total Amount (\$)	Variance (\$)	Variance (%)
Supplier 1			\$150,172	\$150,172	\$150,172	\$0	0.0%	\$150,172	\$135,192	\$135,192	\$0	0.0%	\$135,192	\$135,192	\$0	0.0%
Supplier 2			\$338,920	\$313,489	\$310,307	-\$3,182	-1.0%	\$358,250	\$329,191	\$306,279	-\$22,912	-7.5%	\$309,399	\$329,191	\$19,792	6.0%
Supplier 3			\$1,167,319	\$437,804	\$438,497	\$693	0.2%	\$1,166,245	\$247,684	\$248,514	\$830	0.3%	\$247,688	\$247,684	-\$4	0.0%
Supplier 4			\$106,436	\$45,193	\$45,195	\$2	0.0%	\$106,436	\$35,788	\$35,610	-\$178	-0.5%	\$35,788	\$35,788	\$0	0.0%
Supplier 5			\$327,797	\$205,247	\$200,618	-\$4,629	-2.3%	\$327,476	\$205,043	\$200,618	-\$4,425	-2.2%	\$205,247	\$205,043	-\$204	-0.1%
Supplier 6			\$236,675	\$235,978	\$234,198	-\$1,780	-0.8%	\$236,675	\$202,225	\$202,225	\$0	0.0%	\$202,225	\$202,225	\$0	0.0%
Supplier 7 ■ Supplier 7			\$115,315	\$9,632	\$10,776	\$1,144	10.6%	\$91,235	\$0		\$0		\$0	\$0	\$0	
Supplier 8			\$7,581,505	\$7,364,102	\$7,299,229	-\$64,873	-0.9%	\$7,309,178	\$7,089,027	\$7,221,949	\$132,921	1.8%	\$7,357,629	\$7,089,027	-\$268,602	-3.8%

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Exhibit #4 - Payment Term Rationalization

ILLUSTRATIVE

Analysis of latest payment terms to identify opportunities to streamline and harmonize the terms among suppliers. This provides visibility into best term across vendors of same commodity or for same vendor across plants to identify suppliers where negotiating better terms would have the largest impact.



Identifying gaps in terms offered by the suppliers to the sourcing units