

# Procurement Analysis Case Study

## Overview

This procurement analysis project was developed to evaluate and optimize purchasing operations for a mid-sized organization. The goal was to gain visibility into procurement performance across suppliers, categories, and regions, with a focus on cost efficiency and supplier reliability.

## Business Problem

The organization lacked clear insights into procurement trends, resulting in:

- Poor visibility of total spend and top spending categories
- No systematic tracking of supplier delivery performance
- Inconsistent sourcing strategies across regions

## Objective

To build a data-driven dashboard that enables stakeholders to:

- Monitor total and category-wise spend
- Track supplier performance, especially on-time delivery rates
- Identify top suppliers by volume and value
- Evaluate procurement trends over time

## Dataset Description

The dataset includes 500 purchase order records with fields such as:

- Supplier name, region, and category
- Product details, quantities, and unit prices
- Order, expected delivery, and actual delivery dates
- Total cost and delivery performance (on-time vs delayed)

## Key KPIs and Metrics

- Total Procurement Spend
- Average Delivery Time
- On-Time Delivery Rate
- Top 10 Suppliers by Spend
- Spend Distribution by Region and Category

## Key Insights

- Office Supplies and IT Equipment were the highest spending categories
- Majority of late deliveries were concentrated in the Logistics and Furniture categories
- One supplier accounted for nearly 18% of total procurement spend
- North and West regions had the highest spend volume

## Recommendations

- Reassess sourcing strategies in Logistics and Furniture categories to reduce delays
- Negotiate volume discounts with top suppliers
- Standardize supplier evaluation criteria across all regions
- Continuously monitor delivery performance and act on consistent delays

## Tools Used

- Microsoft Excel (data preparation)
- Microsoft Power BI (dashboard development and visualization)

## Outcome

The interactive dashboard provided procurement managers with actionable insights, enabling them to identify cost-saving opportunities, monitor supplier reliability, and streamline procurement operations. It is a portfolio-ready project showcasing data storytelling, analytical thinking, and

dashboarding skills.