1. [Executive Summary](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Executive+Summary&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIFRAB&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3):

* A brief overview of the supplier's performance, highlighting key strengths and weaknesses.
* Summary of overall performance rating (if applicable).

2. [Data Sources](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Data+Sources&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIHBAB&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3):

* Identification of where the data was collected from (e.g., internal systems, purchase orders, supplier reports, surveys).

3. [Data Collection Methods](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Data+Collection+Methods&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIJhAB&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3):

* Description of how the data was collected (e.g., automated systems, manual entry, audits).

4. [Key Performance Indicators (KPIs)](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Key+Performance+Indicators+%28KPIs%29&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIOhAC&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3):

* [**Quality**](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Quality&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIPBAC&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3)**:**
  + [Defect rate](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Defect+rate&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIURAB&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3) (percentage of products or services failing to meet standards).
  + [Product conformity](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Product+conformity&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQISRAB&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3) (degree to which products meet specifications).
  + Customer satisfaction (e.g., survey results).
* [**Delivery**](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Delivery&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIVhAC&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3)**:**
  + On-time delivery (percentage of shipments delivered on schedule).
  + [Lead time](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Lead+time&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIWRAB&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3) (time between placing an order and receiving it).
  + [Order fulfillment accuracy](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Order+fulfillment+accuracy&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIWxAB&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3) (percentage of orders delivered correctly).
* [**Cost**](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Cost&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIVRAC&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3)**:**
  + [Price competitiveness](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Price+competitiveness&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIRhAB&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3) (compared to other suppliers).
  + Cost savings (achieved through supplier improvements).
  + Total cost of ownership (overall costs associated with the supplier).
* [**Risk**](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Risk&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIVBAC&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3)**:**
  + Supplier risk score (assessment of potential risks like financial instability).
  + Compliance with regulations and standards.

5. [Analysis of Results](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Analysis+of+Results&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegQIcBAB&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3):

* Comparison of KPI performance against target values or previous periods.
* Identification of trends and patterns in performance.

6. [Recommendations](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Recommendations&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegUIgwEQAQ&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3):

* Suggestions for improving supplier performance, such as training, process improvements, or changes to the procurement process.

7. [Conclusion](https://www.google.com/search?cs=1&sca_esv=9436697198651bfc&sxsrf=AE3TifMTW7ajyzWanWLe0a_cE_EyzfcXzg%3A1749270172682&q=Conclusion&sa=X&ved=2ahUKEwjPwYKau96NAxX-EVkFHfaiHGoQxccNegUIiQEQAQ&mstk=AUtExfCK4Ocf77YiA39XsAAzWMwicp0YWQnEDTgGCvUBkIs8nEAkagX_9u8hS5KOf1gPHWsvdvWZDGH2j_KqiQP4hzGMyGvrzGJfHSflOpWOwdw2erDTPMb_hQBCl5hh9ZC5sjsxwULT95hB60ZYE56uuQykrdtufDBPmkQ2IlPm_e2PAsw&csui=3):

* Summary of key findings and overall assessment of the supplier's performance.

Headers

SupplierID Name Region Country ProductCategory Segment SegmentCriteria OnTimeDeliveryRate(%) AvgLeadTime(days) FillRate(%) LateShipmentCount PartialDeliveryCount DefectRate(%) FirstPassYield(%) IncomingRejectionPct(%) QualityIncidentCount CorrectiveActionCount UnitCost(USD) MaterialCriticality CostVariancePct(%) TotalSpend(USD) FreightLogisticsCost(USD) DiscountRate(%) AuditScore(GMP/ISO) CertificationStatus(FDA/BRC/USDA) ESGScore(%) SingleSourceFlag CountryRiskRating Responsiveness(avg. days to respond) ContractRenewalDate CollaborationIndex InnovationContributions SPI\_Trend ForecastDeliveryRisk(%) QualityRiskScore

- PHASE 2.0 : Data Understanding - Task 2.1 : Gathering Data - Deliverable : Data Collection Report - Task 2.2: Describing Data - Deliverable: Data Description Report - Task 2.3 : Exploring Data - Deliverable: Data Exploration Report - Task 2.4 : Verifying Data Quality - Deliverable : Data Quality Report

Weeks Phase/Task Milestone

1-4 Data Ingestion & Cleaning Cleaned, harmonized data ready for analysis

5-7 Feature Engineering & EDA Feature dataset finalized

5-9 SPI Calculation & Dashboard Prototyping First dashboard prototype (SPI metrics visual)

8-10 Model Development & Tuning Best-performing predictive model selected

11-12 Validation & Sensitivity Analysis Model evaluation & sensitivity report completed

12-13 Segmentation & Integration Prep Supplier tiers defined & integration plan ready

13-14 Documentation & Handoff All deliverables submitted & executive deck delivered

SupplierID Name Region Country ProductCategory Segment SegmentCriteria OnTimeDeliveryRate(%) AvgLeadTime(days) FillRate(%) LateShipmentCount PartialDeliveryCount DefectRate(%) FirstPassYield(%) IncomingRejectionPct(%) QualityIncidentCount CorrectiveActionCount UnitCost(USD) MaterialCriticality CostVariancePct(%) TotalSpend(USD) FreightLogisticsCost(USD) DiscountRate(%) AuditScore(GMP/ISO) CertificationStatus(FDA/BRC/USDA) ESGScore(%) SingleSourceFlag CountryRiskRating Responsiveness(avg. days to respond) ContractRenewalDate CollaborationIndex InnovationContributions SPI\_Trend ForecastDeliveryRisk(%) QualityRiskScore

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S001 Eco Enterprises Thailand Asia Pacific Thailand Components Strategic High spend, high value 88.4 55.6 95.2 18 8 3.4 96.6 4.9 1 1 $111.92 10 4.4 $3,100,889.00 $488,299.00 5.5 61 BRC 47 TRUE 1 9.7 3/4/2026 3.58 Smart Label Integration 0.69 26 6

S002 Pure Logistics Peru Latin America Peru Packaging Watchlist Low spend, low value 84 11.1 91.3 3 12 1 99 4.1 10 5 $179.60 6 -2.2 $173,709.00 $12,760.00 3.8 64 USDA 63 FALSE 3 1.8 7/7/2025 4.68 Food-Grade Bioplastics 0.52 22 8

S009 Advanced Supply Brazil Latin America Brazil Logistics Emerging Low spend, high value 96.3 43.7 76.5 4 12 1.6 98.4 0.9 0 4 $144.73 9 -1.8 $429,925.00 $44,794.00 5.2 71 USDA 70 TRUE 1 4.3 5/10/2026 3.52 Smart Label Integration 0.39 6 5

S035 Global Resources USA North America USA Raw Materials Preferred High spend, low value 74.4 39.5 97.8 18 7 6.4 93.6 3.4 0 1 $23.09 4 5.1 $2,508,056.00 $383,949.00 1.7 70 None 59 TRUE 1 5 10/29/2025 4.7 Introduced recyclable packaging 0.39 24 3

S042 Prime Logistics USA North America USA Ingredients Strategic High spend, high value 94.7 45 96.3 5 5 5.8 94.2 3.1 3 2 $198.75 8 -6 $4,561,809.00 $323,441.00 1.4 85 USDA 90 TRUE 2 8.1 12/30/2025 2.91 AI-driven demand forecasting 0.5 11 5