Supply base optimisation: strategically streamlining and strengthening the supplier portfolio

Supply base optimisation refers to the systematic analysis, consolidation and further development of a company's supplier portfolio. The aim is to reduce the number of active suppliers to a high-performing, risk-appropriate level while improving quality, costs and security of supply. For buyers in the manufacturing industry, it is a central instrument of strategic procurement.

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Key facts at a glance

01 Supply base optimisation encompasses supplier analysis, selection, consolidation and development across the entire purchasing volume.

02 In practice, companies typically concentrate 70–80% of their purchasing volume on significantly fewer suppliers than at the start of the optimisation.

03 Successful optimisation combines cost savings with risk reduction and quality improvement, rather than mere supplier reduction.

04 Supplier consolidation increases negotiating leverage, but carries dependency risks that must be actively managed.

05 Classic KPIs include supplier count, spend concentration, OTIF rate and cost development per supplier category.

06 Regular review cycles, often annual or semi-annual, keep the portfolio aligned with changing market and demand conditions.

Definition: supply base optimisation

Supply base optimisation is the strategic process by which a company deliberately shapes the composition of its supplier portfolio. Instead of historically grown, fragmented supplier structures, a balanced ratio of performance strength, risk diversification and cost rationale is pursued.

Distinction from supplier reduction

Optimisation does not automatically mean minimisation. A pure reduction in supplier numbers can create dependencies and weaken demand-side leverage. Optimisation assesses each supplier on performance, cost position, quality level and strategic contribution, then decides whether to expand, retain, develop or replace. Adding new suppliers can also be part of an optimisation, for example to diversify risk or when a tendering strategy process identifies better market partners.

Positioning within supplier management

Supply base optimisation is part of strategic supplier management and builds on spend analyses, supplier evaluations and market analyses. It draws on results from negotiation management and provides inputs for operational processes such as call-off agreement structures or category strategies. The term is often used synonymously with supplier consolidation, but is broader in scope, as it also includes qualification and onboarding of new suppliers.

Objectives and benefits of supplier consolidation

The benefits of optimisation become apparent in several dimensions: cost, quality, risk and internal efficiency. Companies use the approach to eliminate waste in purchasing volume and concentrate resources on high-performing partners.

Cost effects and volume bundling

Bundling volumes with a few high-performing suppliers increases negotiating power and typically improves purchasing terms, volume discounts and payment terms. In addition, transaction costs fall because less master data maintenance, auditing and order processing is required. Economies of scale in logistics, tooling costs and minimum order quantities can be better exploited.

Quality and process stability

Fewer, better-vetted suppliers lead to more stable processes and fewer interfaces. Complaint management becomes more efficient, as 8D report processes with well-established partners run faster. The process capability of critical supplied parts can be monitored and developed more specifically than with a fragmented supplier landscape.

Efficiency in operational procurement

In day-to-day operations, optimisation pays off through shorter requisition-to-PO lead times, clearer escalation paths and fewer expedited order situations, because the assignment of requirements to suppliers is more unambiguous. Freed-up procurement capacity can be invested in strategic topics such as should-costing or outsourcing potential analysis.

Methods and approach in the optimisation process

The process typically follows a multi-stage sequence from analysis through evaluation to implementation and control. A fact-based segmentation of the portfolio is essential.

Spend and portfolio analysis

The starting point is a complete spend analysis by category, supplier and site. Classic tools include ABC analysis for volume distribution and the supplier portfolio based on criteria groups such as delivery performance, price level, quality and innovative strength. An offshoring potential analysis can supplement whether parts of the portfolio can be structurally optimised through sourcing from low-wage countries.

Evaluation, selection and RFP process

The analysis is followed by a structured evaluation with clear criteria and weightings. Where market potential exists, a tendering strategy using RFI, RFP or e-auction supports objective supplier selection and creates competitive pressure. Should-costing helps to understand cost drivers and assess offers realistically.

Contracts and implementation

Implementation culminates in framework and call-off agreements with defined terms, contract durations and right to audit clauses. Price adjustment clauses and provisions on raw material price volatility and currency hedging prevent cost advantages from being eroded by market fluctuations. Fixed Incoterms such as CPT clarify the transfer of transport costs and risk.

Key KPIs for managing the supplier portfolio

Without measurable metrics, optimisation remains guesswork. Established KPIs make portfolio quality visible and create the basis for regular reviews.

Portfolio and spend metrics

Key figures are the number of active suppliers per category, the share of volume held by the top five or top ten suppliers, and the share of spend volume covered by contracts. In addition, supplier shares by region show how diversified the portfolio is, and how much procurement takes place offshore.

Performance and quality metrics

Delivery reliability (OTIF), complaint rate and reliability in responding to short-term demand fluctuations document operational performance. The duration of requisition-to-PO lead time indicates process efficiency, while the cost savings rate per category measures the financial success of the optimisation.

Risk metrics

Indicators such as the number of single-source items, the average remaining contract term or the share

of suppliers without valid certifications reveal hidden weaknesses. Regular supplier audits and evaluations provide the data basis.

Risks and controls in supply base optimisation

Consolidation creates dependencies and can undermine resilience if implemented uncritically. Control mechanisms and design flexibility offset these risks.

Dependency and single-source risks

The stronger the supplier consolidation, the greater the impact of a single partner's failure. Countermeasures include qualified second suppliers for critical items, safety stocks and clearly defined escalation paths. Where risks are high, a bank guarantee or contractually agreed capacity commitments can serve as safeguards.

Contractual control instruments

Right to audit clauses, performance measurement via scorecards and defined response times keep agreed performance verifiable. Automatic contract renewals should be managed deliberately, otherwise suboptimal arrangements become entrenched. In the event of price deviations or renegotiations, negotiation management provides the methodological framework.

Supplier development instead of pruning

Not every underperforming supplier needs to be replaced immediately. Targeted supplier development, joint improvement projects and clearly communicated performance targets can stabilise weaker partners and preserve knowledge. Selection-out then follows a fair, documented process.

Current developments: resilience, digitalisation and sustainability

Classic optimisation is being extended by new requirements. Resilience, sustainability and digital transparency are changing evaluation criteria.

Resilience over pure cost

Supply chain disruptions and geopolitical risks have shifted thinking: pure cost reduction through extreme consolidation or radical offshoring is viewed more critically. Diversification, dual sourcing and nearshoring options are gaining importance alongside price comparison. Hedging strategies for raw material and currency risks are becoming part of supplier strategy.

Digital transparency and sustainability

Supplier portals, spend analytics tools and integrated ERP processes with digital documents such as the goods receipt note (GRN) continuously improve the data basis. At the same time, sustainability

criteria are being incorporated: CO accounting, life cycle assessment (LCA) and certificates are becoming increasingly mandatory in supplier evaluation. Documentation in line with regulations such as the German Supply Chain Act (LkSG) expands the classic elements of supplier vetting.

New procurement models

4PL models and integrated logistics providers can reduce the number of direct supplier contacts and consolidate goods flows from multiple sources. Standardisation of part characteristics, cross-tooling qualification and data compliance also reduce the structural complexity of the portfolio.

Typical metrics

Metric	Typical value
Number of active suppliers per category	Typically a reduction of 20–40% within one optimisation cycl *Benchmark; critical items remain multi-sourced*
Spend concentration of top five suppliers	commonly 60–80% *depending on category; high values require risk management*
OTIF delivery reliability	> 95% *target value for key suppliers after optimisation*
Contract coverage of spend volume	> 80% *share of volume under framework agreements; remainder flexible*
Realised cost savings	typically 3–8% per optimised category *over the first optimisation cycle*

Practical example

A medium-sized mechanical engineering company with around 420 active suppliers and a heavily fragmented sheet-metal and machine-parts supply base initiates an optimisation programme. The goal is a leaner portfolio with stable security of supply.

- Spend analysis and an ABC portfolio show that around 60% of volume flows through 300 small suppliers; parts are bundled by category.
- For key categories, a tendering strategy is run with RFPs and a concluding e-auction; framework agreements with price adjustment clauses and right to audit are concluded.
- Critical items are given qualified second suppliers; weaker partners go through a nine-month development programme with scorecard reviews.
- After twelve months, the number of suppliers in the analysed categories falls by more than a third, the OTIF rate rises significantly, and contract coverage of the volume doubles.

Conclusion

Supply base optimisation is more than a cost-saving exercise: it strategically shapes the supplier portfolio and balances cost, quality, risk and innovative strength. Success requires fact-based analysis, clear evaluation criteria and disciplined implementation through contracts and scorecards. Companies that actively manage risks through second suppliers and regular reviews gain resilience and efficiency at the same time. In dynamic markets, optimisation is not a one-off project but a continuous process. Those who embed it create a sustainable competitive advantage in procurement.

Frequently asked questions

? What does supply base optimisation mean?

Supply base optimisation refers to the systematic shaping of the supplier portfolio, for example through supplier analysis, evaluation, consolidation and development. The goal is an optimal balance between cost, quality, performance and risk diversification. It replaces unstructured, historically grown supplier structures with a deliberately managed portfolio.

? How many suppliers are optimal?

There is no universally valid number, as it depends on the category, criticality and market structure. In practice, many companies concentrate 70–80% of their volume on a few key suppliers while retaining second sources for critical parts. What matters is not the absolute number, but a well-founded balance between volume bundling and risk diversification.

? What steps does supplier base optimisation involve?

Typically five steps: spend and portfolio analysis, criteria-based supplier evaluation, selection e.g. via RFP or e-auction, contractual anchoring in framework and call-off agreements, and continuous performance monitoring with KPIs. The cycle is often repeated annually.

? What are the risks of supplier consolidation?

The main risks are dependency on individual suppliers, the impact of disruptions and potential price fatigue due to limited competition. Countermeasures include second suppliers, safety stocks, flexible contract clauses and regular market benchmarking to maintain competitive intensity.

? Which metrics are measured in supply base optimisation?

Key KPIs include the number of active suppliers, spend concentration (e.g. share of the top five suppliers), contract coverage, OTIF delivery reliability, complaint rate and realised savings per category. In addition, single-source ratios and the average remaining contract term indicate the risk profile.

? How does supply base optimisation differ from supplier consolidation?

Supplier consolidation is a concrete measure within optimisation, in which suppliers are merged or reduced. Supply base optimisation is the overarching strategic process, which also encompasses supplier development, onboarding of new suppliers, risk management and sustainability.

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