



## **From Butter to EBITDA: Why Supply Chain Strategy Belongs in Product Design**

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**October 23, 2025**

### **Cost and revenues: branches of one value driver tree**

When a baker chooses which butter to use, they're not just making a flavor decision — they're making a financial one.

That same logic applies far beyond bakeries. Every product design engineer, formulator, or R&D chef working in a manufacturing business is making small, technical choices that ripple all the way through the P&L: ingredient cost, line efficiency, product quality, brand value, and, ultimately, EBITDA.

In today's competitive markets, companies that connect these dots — from ingredient specs to corporate financial outcomes — have a powerful advantage. And the function best positioned to bridge those dots is supply chain.

## The Hidden Economics of a Cookie

Let’s take a simple example: a commercial bakery with \$1 billion in cookie sales. On the surface, butter looks like just another input. In reality, it’s one of the most strategic cost and value levers in the entire process.

- **Cost impact:** Butter may represent 7–20 % of total cookie cost. A 10 % change in butter price can shift gross margin by a full percentage point.
- **Production impact:** Higher-fat or properly tempered butter can reduce mixing torque, improve yield, and cut energy costs.
- **Quality impact:** Fat content and crystal structure determine flavor and mouthfeel — the “buttery richness” consumers are willing to pay for.
- **Pricing impact:** Premium or certified butter (organic, grass-fed, PDO) can lift perceived quality and justify higher shelf prices.
- **Demand impact:** Higher price points inevitably reduce volume, but if margin per unit rises faster than volume falls, total EBITDA can still increase.

When you connect all of these factors, a single formulation choice — say, upgrading from commodity butter to European-style 82 % fat — can make or break profitability.

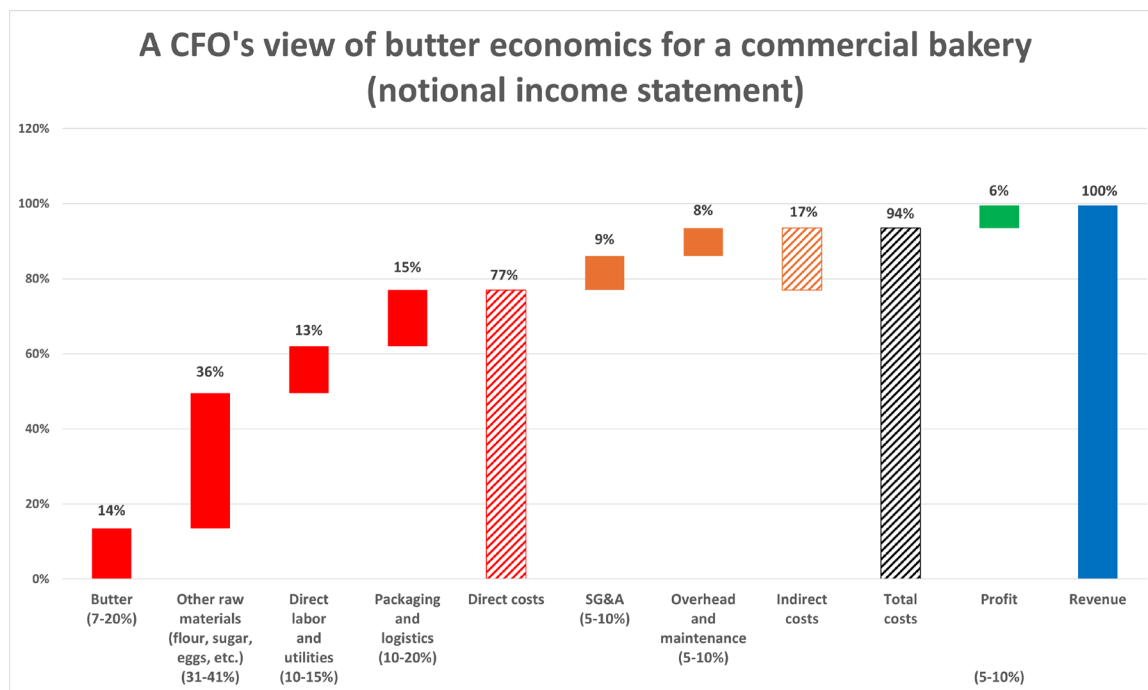
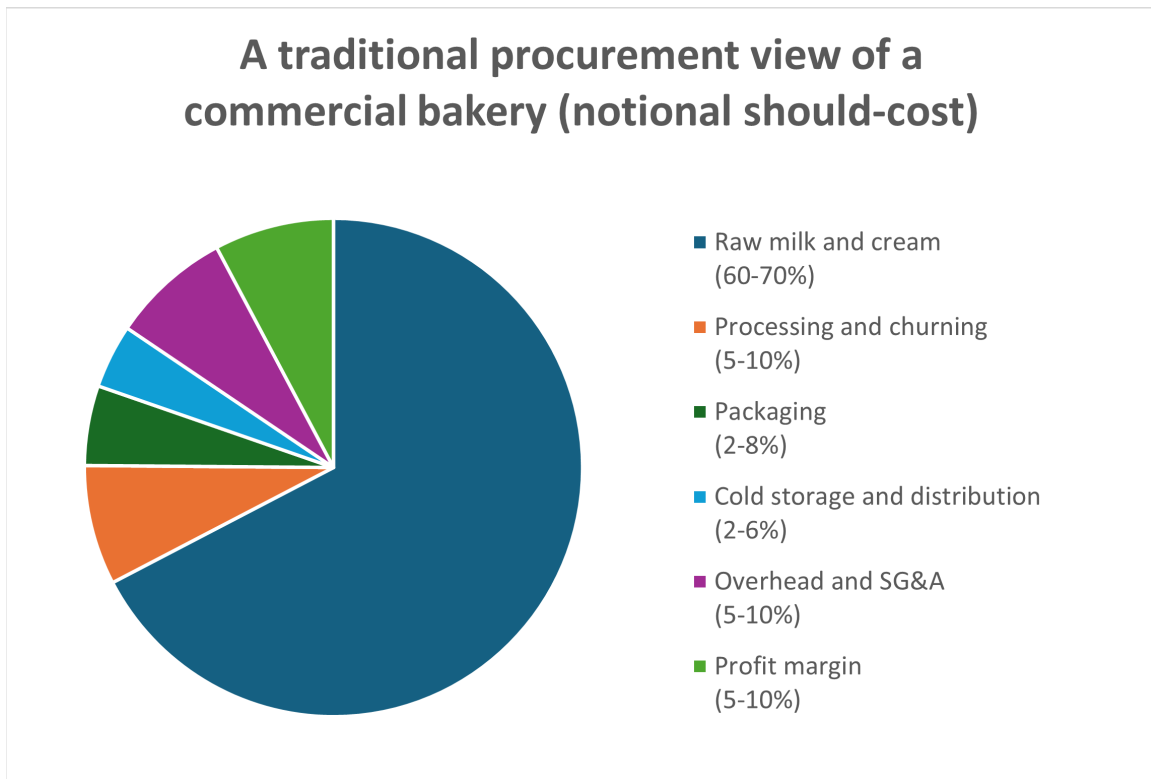


Figure 1: A CFO's view of the business: costs, profit, and revenues

Figures 1 and 2 show traditional ways of looking at production and procurement costs. These perspectives fail to make necessary connections between features of purchased ingredients and options in supplier selection with EBITDA. A value driver tree provides explicit economic linkages between production inputs and business outcomes.



**Figure 2: A procurement view of the business: direct costs of materials and services**

## The Value Chain: Inputs→Process→Consumer→EBITDA

What you buy, how you buy it, and who you buy it from, drive financial performance. Ingredient and supplier choices can influence all aspects of a business: the customer's trust and engagement with the brand; the customer's enjoyment of the product (mouthfeel, texture, and flavor of the cookie); the manufacturability and production costs including waste and capital costs; direct and indirect ingredient costs.

Here's how the value chain actually behaves in practice:

- 1. Ingredient Selection** – A change in butter grade alters fat content, moisture, and consistency – influencing both cost and functionality.
- 2. Production Efficiency** – Physical differences affect mixing time, energy use, and scrap rates. A better-behaving ingredient can cut process costs by 2–5 %.
- 3. Product Quality & Consistency** – Texture, aroma, and color improve – sensory cues that define “premium” to consumers.
- 4. Brand Positioning & Pricing Power** – Premium sensory quality, supported by certifications (organic, grass-fed, traceable origin), enables higher price points.
- 5. Consumer Response & Price Elasticity of Demand** – Higher prices reduce demand; elasticity for premium cookies is typically around –0.7 to –1.0.
- 6. Net Financial Outcome** – If a 50 % price increase cuts volume by 40 %, but doubles contribution margin per unit, EBITDA rises.

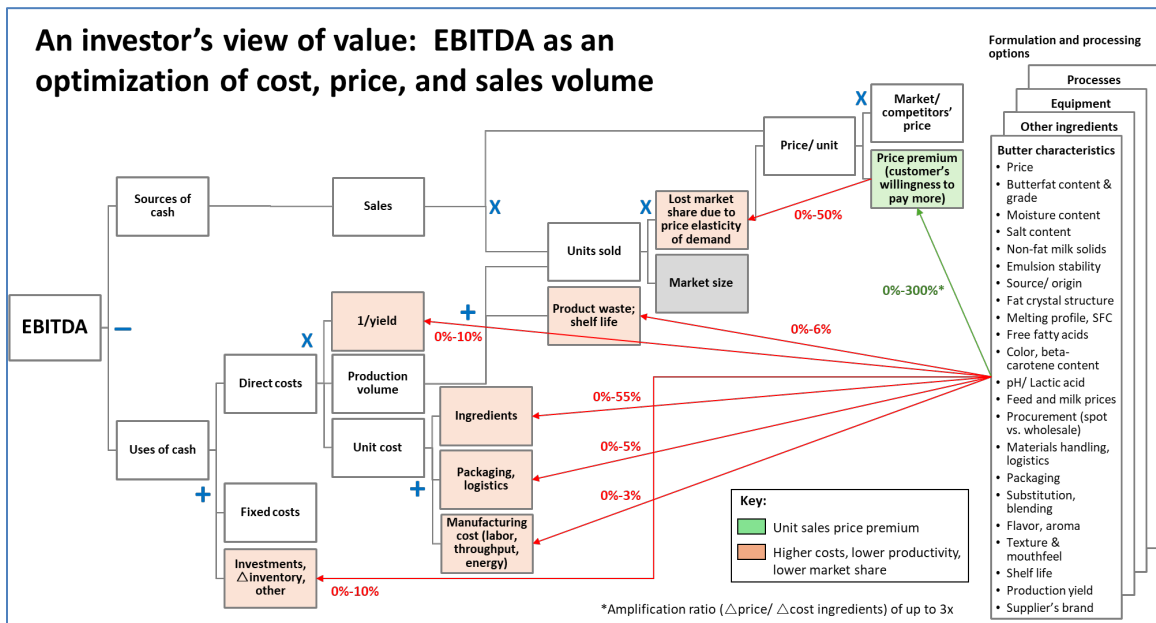


Figure 3: An investor connects sourcing of ingredients to production efficiencies, market share, and pricing premium

## The Role of the Supply Chain Strategist

Procurement is often seen as the “price negotiator,” but the best organizations take a bigger view in which supply chain strategy is synonymous with managing business value.

Supply chain professionals—which include procurement specialists—have access to supplier data, certifications, logistics capabilities, and market intelligence that design engineers rarely see. They understand:

- Which suppliers can guarantee traceability, hygiene, and cold-chain integrity.
- Which certifications (organic, ESG, PDO) justify consumer-visible claims.
- Which butter types or co-ops have stable pricing vs. commodity volatility.
- Where incremental cost translates into measurable brand or operational value.

When supply chain leaders are involved early — at the formulation or R&D stage — the company can quantify trade-offs between ingredient cost, production efficiency, consumer willingness to pay, and overall EBITDA impact.

Supply chain strategy doesn’t mean “buying stuff”; it has to do with maximizing margins.

## Cross-Functional Collaboration is a Missing Ingredient

To link product design to EBITDA, teams and stakeholders must collaborate:

- R&D / Product Engineering – Does this ingredient behave the way we need in the process?
- Marketing / Brand – Will customers taste, value, and pay for the difference?
- Supply Chain, including Procurement – Can we source it reliably, at scale, and with the right certifications?
- External partnerships, such as key suppliers and distributors

Only when these groups share a unified cost-to-value model can the company make informed, profitable ingredient decisions.

## Closing Thoughts

Butter is just one example of the complexity of interactions between product sourcing and product attractiveness. The same reasoning applies in chemicals, construction materials, packaging, and industrial components. The formulator (or design engineer) and procurement lead together determine how much value the company actually captures from its inputs.

When those choices are made in isolation — R&D chasing performance, procurement chasing price — the result is often sub-optimal. When they're made in concert — grounded in total value economics — the result is competitive advantage.

## Authorship

Peter Benda is a general management consultant specializing in strategic sourcing and supply chain management, front line productivity improvement, governance, and diagnostics. He has worked with clients in mining, utilities, manufacturing, financial services, transportation, defense R&D, federal and state agencies, and technology startups. Peter is on the Board of Advisors to Axtom, a SAAS solution that uses AI to automate tendering, negotiation, and contracting. He is a partner with Transpara, a platform that provides a easy to implement, cost effective solution for organizations of all sizes to monitor KPIs in real time. This article was generated with input from ChatGPT.

## Images

- Photo by StockPhotosHub.com: <https://www.pexels.com/photo/two-chocolate-chip-cookies-298485/>

## Hashtags

#Procurement #SupplyChain #ProductDesign #Manufacturing #CostReduction #EBITDA  
#StrategicSourcing #ValueEngineering #Axtom #Transpara

## Key words

cookies, bakery, food, supply chain, strategic sourcing, procurement, EBITDA, value engineering, Axtom, Transpara

## Header

If procurement focuses only on direct costs, value is left on the table. In this example, we look at how the complex aspects of butter sourcing affect manufacturability, customer experience, pricing, branding, market share, and ultimately EBITDA.