

A Comparative Analysis of Pricing Approaches in the Cruise Industry in Response to Dynamic Pricing Factors

Sneha Satish Dingre

Data Analyst/ Modeler, Miami, FL, USA
snehadin412@gmail.com

Abstract: *This research paper provides a comprehensive analysis of various pricing strategies used in the cruise industry, emphasizing dynamic pricing. It examines the strengths and considerations of five key pricing strategies and their responsiveness to real-time market changes. The paper highlights the importance of aligning pricing strategies with business goals and market conditions, specifically focusing on the cruise industry's unique challenges and opportunities. This article is significant as it provides a detailed comparison of various pricing strategies in the cruise industry, offering insights into how dynamic market factors influence pricing decisions. Such analysis is crucial for businesses seeking competitive advantages in this industry.*

Keywords: pricing strategy, dynamic pricing, cruise industry, market analysis, competitive positioning

1. Introduction

Pricing Strategy plays an important role in driving organization goals and objectives and how it intends to place itself in the industry. There are several pricing strategies ranging from traditional methods to using technology to provide real time pricing. This paper discusses various pricing strategies in the market and how they are utilized based on the organizational objective. The paper also discusses dynamic pricing and the factors that influence real time changes in pricing of the product in a cruise industry. This study focuses mainly on how these factors influence different pricing strategies and whether these factors are taken into consideration while implementing pricing strategies.

2. Pricing Strategies

There are several pricing strategy models that businesses can adopt, each with its own advantages and considerations. Some commonly used pricing strategy models are:

a) Cost - Plus Pricing

Cost - plus pricing is a strategy where a company determines product prices by adding a markup to production costs. The approach involves calculating the total cost of production, including variable and fixed costs, and then adding a desired profit margin. This method provides simplicity and ensures profitability. According to [1], cost - plus pricing is commonly used in various industries, offering companies a straightforward way to cover expenses and generate profits. While it lacks market - driven insights, it provides stability and predictability in pricing, allowing firms to maintain financial sustainability by ensuring costs are adequately covered.

b) Value - Based Pricing

Value - based pricing is when companies decide how much to charge for something based on how much customers think it's worth. Instead of only thinking about how much it

costs to make, this way of pricing looks at what customers are happy to pay because of the good things they get from the product or service. Value - based pricing matches up with what customers like, making sure companies make the most money and keep customers happy. By talking about how valuable a product is, companies can get a good part of the market and make strong relationships with customers, which helps them do well and stand out in the marketplace. According to [2], marketing initiatives should focus not just on assessing the perceived value but also on consistently seeking avenues to enhance and closely align the perceived value of the product with the customer's expectations.

c) Penetration Pricing

Penetration pricing is when a company starts by selling things at a low price to get lots of people to buy them quickly. The idea is to build up a big group of customers and make a strong position in the market. As noted by [3], this way of doing things can help the company get lots of customers fast. As time goes on and more people start buying, the company might raise the prices, especially if they're making more or spending less to make the things. This kind of pricing works well in places where many companies are competing. It makes people want to buy, and it shows that the product is a good deal, making a strong foundation for the company to do well and make money over time.

d) Skimming Pricing

Skimming pricing strategy involves setting high initial prices for new products or services to target the early adopters or premium market segment. This strategy capitalizes on the willingness of certain customers to pay a premium for innovative or unique offerings. As emphasized by [4], skimming allows companies to maximize revenue from the market's upper segments before gradually reducing prices to attract broader customer segments. This approach is often used for cutting - edge technologies and luxury goods, aiming to recoup development costs quickly. Skimming pricing helps companies balance profitability with market penetration over the product's lifecycle.

e) Competitive Pricing

Competitive pricing is when a company decides how much to sell things for by looking at what other companies are charging. The aim is to get customers and do well in the market by having prices that are the same as or better than other companies. To do this, the company needs to keep an eye on what its competitors are charging and change its prices accordingly. Being good at competitive pricing is really important for doing well in the market. Companies using this strategy have to be careful. They need to find the right balance between having prices that match their competitors and still making enough money. This way, they can make sure they're keeping up with what customers want and what's normal in the industry.

3. Introduction to Dynamic Pricing

Dynamic pricing is a strategy that involves adjusting prices for goods or services in real - time based on various factors to optimize revenue. This approach is particularly prevalent in industries like e - commerce, travel, and entertainment. According to [5], dynamic pricing relies on algorithms and data analytics to consider factors such as demand fluctuations, competitor pricing, and customer behavior.

The core idea is to set prices dynamically, responding to changes in market conditions to maximize profitability. For instance, in the airline industry, dynamic pricing considers factors like seat availability and seasonal demand to set ticket prices accordingly. In e - commerce, dynamic pricing may be influenced by factors like inventory levels, customer segmentation, and promotional events.

Dynamic pricing's effectiveness lies in its ability to adapt to real - time changes, helping businesses capitalize on high demand periods while offering competitive prices during low demand. However, it requires careful consideration of ethical and legal implications to ensure transparency and fairness, thereby avoiding any potential backlash from customers [6]. It's a balancing act, as companies seek to optimize prices without alienating customers or engaging in discriminatory practices. Dynamic pricing leverages technology and data analysis to set flexible, real - time prices, offering companies a tool to navigate dynamic market conditions and maximize revenue.

4. Dynamic Pricing in the Cruise Industry

Dynamic pricing strategy in the cruising industry involves real - time adjustments of cruise fares based on various factors to optimize revenue and adapt to market conditions. Factors influencing dynamic pricing in the cruising industry include:

- a) **Occasional Rise in Demand**
Dynamic pricing considers demand peaks during popular travel seasons, holidays, or special events. Cruise lines adjust prices to capitalize on high demand periods, maximizing revenue.
- b) **Rate of Cabin Filing**
Cruise lines dynamically price cabins based on availability. As cabins fill up, prices may increase to create a sense of urgency for customers to book early.
- c) **Booking Lead Time**
Prices may vary depending on how far in advance customers book their cruises. Early bookings may offer lower prices to incentivize early commitments, while last - minute bookings may have discounted rates to fill remaining cabins.
- d) **Vacation Itinerary**
Popular or exotic destinations may command higher prices. Dynamic pricing accounts for the perceived value of the cruise experience based on the itinerary and destination.
- e) **Competitor Pricing**
Monitoring competitors' pricing is crucial. If a competing cruise line adjusts its prices, others may follow suit to remain competitive and attractive to customers.
- f) **Customer Segmentation**
Dynamic pricing considers different customer segments, tailoring prices to attract budget - conscious travelers or those seeking premium experiences.
- g) **Macroeconomics**
Economic factors such as inflation, currency exchange rates, and global economic conditions can influence dynamic pricing decisions in the cruising industry.
- h) **Seasonality**
Dynamic pricing takes into account seasonal fluctuations, with pricing adjustments for peak and off - peak seasons.

5. Comparison of Pricing Strategies Based On Factors in the Cruise Industry

Below is a comparative analysis of five pricing strategies based on different factors in the cruise industry.

Table I: Comparison of Pricing Strategies

Factor	Cost - plus Pricing	Value - based Pricing	Penetration Pricing	Skimming Pricing	Competitive Pricing
Occasional rise in Demand	May not consider seasonality in pricing decisions, as it primarily focuses on covering costs and adding a markup.	May incorporate seasonality but relies more on perceived customer value.	Adjusts pricing to attract customers during low - demand periods to fill cabins.	May set higher initial prices during peak seasons to maximize revenue.	Adapts prices based on competitor responses during peak and off - peak times.
Rate of Cabin Filing	Cabin availability may not heavily influence pricing decisions as it's primarily cost driven.	Prices may be adjusted based on cabin availability, with higher demand leading to potential price increases.	May offer lower prices to fill available cabins, especially during the introductory phase.	Prices may be higher when cabins are limited, emphasizing exclusivity.	Responds to cabin availability to maintain competitiveness and market share.

Booking Lead Time	Pricing decisions may not be significantly influenced by booking lead time.	May offer early booking discounts or dynamic pricing based on lead time and customer behavior.	May use dynamic pricing to encourage early bookings and build market share.	May offer incentives for early bookings during the skimming phase.	May adjust prices dynamically based on competitors and customer booking behavior.
Vacation Itinerary	Pricing may be more standardized based on the cost structure rather than specific itineraries or destinations.	Prices are influenced by the perceived value associated with specific itineraries and destinations.	Prices may be strategically set lower for new itineraries to attract customers quickly.	Higher prices may be set for premium or exotic destinations during the skimming phase.	Prices are adjusted based on competitor offerings for similar itineraries and destinations.
Competitor Pricing	May not be highly responsive to competitor pricing due to the cost - driven nature.	Prices are influenced by competitor pricing but are more focused on offering differentiated value.	May set lower prices than competitors to gain quick market share.	Initial prices may be set higher to differentiate from competitors.	Actively monitors and adjusts prices based on competitors' moves to stay competitive.
Promotion and Packages	Promotions and packages may not be a primary consideration in cost - plus pricing.	Pricing may be adjusted based on the value perception associated with promotions and packages.	Utilizes promotions and packages to attract customers and penetrate the market.	May offer promotional pricing during the skimming phase to stimulate demand.	Considers promotions and packages as part of a broader competitive strategy.
Macroeconomics	Less directly influenced by economic conditions, as pricing is cost - driven.	May adjust pricing to reflect economic conditions while considering the perceived value.	May use lower prices to stimulate demand during economic downturns.	Pricing may remain relatively stable, with potential adjustments during economic upswings.	Adapts prices based on economic conditions to remain competitive.
Customer Segmentation	Less influenced by customer segmentation in cost - plus pricing decisions.	Prices may vary based on different customer segments and their willingness to pay.	Adapts prices to target a broad customer base during the penetration phase.	Sets premium prices to attract specific customer segments during the skimming phase.	Adjusts prices based on the perceived value and preferences of different customer segments.

6. Conclusion

While dynamic pricing is a powerful and adaptable strategy, it may not universally be deemed "better" than other pricing strategies. The effectiveness of a pricing strategy depends on various factors, including the industry, market conditions, and business objectives. Each pricing approach, be it cost - plus pricing, value - based pricing, penetration pricing, skimming pricing, or competitive pricing, has its merits and is suitable in specific contexts. Dynamic pricing's strength lies in its real - time responsiveness to market changes, allowing businesses to optimize revenue by adjusting prices based on demand, competition, and other relevant factors. In dynamic industries with fluctuating conditions, such as e - commerce or travel, this approach can be particularly advantageous. It enables companies to capture value during peak demand periods, optimize inventory, and stay competitive in dynamic markets. However, dynamic pricing comes with challenges, including potential customer perception issues and the need for sophisticated technology and data analytics. Moreover, it might not be suitable for industries where stability and predictability are essential. Ultimately, the choice of a pricing strategy depends on the specific goals and circumstances of a business. A well - informed decision considers industry dynamics, customer behavior, and the company's competitive positioning. Rather than viewing dynamic pricing as universally superior, businesses should evaluate and select the strategy that aligns best with their unique needs and market conditions.

References

- [1] C. T. Horngren, S. M. Datar, M. V. Rajan, W. A. A. Maguire, and R. C. W. Tan, *Hornrgren's cost accounting: A Managerial Emphasis*, 16th ed. Pearson, 2017.
- [2] Netseva - Porcheva, Tatyana. (2011). Value - based pricing: A success factor in the competitive struggle. *Marketing*.42.227 - 236.10.5937/markt1104227N.
- [3] P. Kotler and G. Armstrong, *Principles of marketing*, 16th ed. Pearson, 2015.
- [4] U. McMahon - Beattie, "The Strategy and Tactics of Pricing: A Guide to Profitable Decision making, " *Journal of Revenue and Pricing Management*, vol.1, no.3, pp.286 - 287, Oct.2002, doi: 10.1057/palgrave.rpm.5170032. Available: <https://doi.org/10.1057/palgrave.rpm.5170032>
- [5] Fung, C., Kuk, A. C., & Liang, D. (2017). Dynamic pricing and ordering decisions with reference price effects. *European Journal of Operational Research*, 256 (2), 489 - 501.
- [6] Li, X., Wang, X., & Chen, H. (2019). A survey of dynamic pricing research and future directions. *Information Systems and e - Business Management*, 17 (2), 195 - 226.