

International Journal of Sports Technology and Science

https://www.globsportsjournal.com/

ISSN: 3023-6266



MICRO LIVING SPACES AND THE FURNITURE INDUSTRY

(Analysis study)

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Received: 04.11.2024 Revised version received: 25.11.2024 Accepted:13.12.2024

Abstract

In our increasingly urbanized world, housing shortages, space constraints, economic concerns, and other factors have led individuals to experience isolation within crowded environments, prompting a growing desire to "live in smaller spaces." This wish, emerging from the minimalist living philosophy, has been materialized through the creation of apartments or houses smaller than 40 square meters as a modern solution to challenges. The significant reduction in living spaces has affected not only architecture but also various sectors, most notably the furniture industry. Products have been redesigned to cater to micro-living standards, or existing products have been adjusted to meet these newly defined requirements. This article explores how the shift toward micro-living has transformed consumer behavior, influenced design innovations, and reshaped the furniture industry. The analysis is structured around several interconnected themes to provide insight into the current and future impact of micro-living on the furniture sector.

Keywords: Micro living, urbanization, furniture, multifunctional, sustainable

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1. Introduction

In an era characterized by rapid urbanization, housing shortages, and escalating economic challenges, the concept of micro living has emerged as both a necessity and a lifestyle choice for many individuals. Defined by the adoption of living spaces smaller than 40 square meters, this trend reflects a profound shift towards minimalist living, where the focus is placed on efficiency, functionality, and sustainability. As urban populations swell and space becomes increasingly scarce, the furniture industry is experiencing a dramatic transformation, driven by the demands of these compact environments.

This article explores the intricate relationship between micro living spaces and the furniture industry, examining how consumer behavior has evolved in response to the necessity of living in smaller areas. It delves into the innovative design practices that have emerged to meet the challenges of micro living, highlighting the shift towards multifunctional and space-saving furniture solutions. Additionally, the economic implications of this trend on the furniture sector are analyzed, along with the challenges faced by traditional manufacturers and the opportunities that have arisen for startups and niche brands. As more individuals embrace the philosophy of living with less—prioritizing quality over quantity and sustainability over superfluity—the furniture industry finds itself at a pivotal crossroads. This analysis aims to illuminate the current changes and future implications of micro living on the furniture market, providing valuable insights for industry stakeholders and consumers alike. With sustainability and adaptability as key themes, the intersection of micro living and the furniture industry presents a compelling narrative of innovation, opportunity, and transformation.

The rise of micro-living spaces has emerged as a significant trend in contemporary urban lifestyles, prompting a shift in how we approach space, design, and functionality. This phenomenon not only fuels innovation but also transforms consumer behaviors and reshapes market dynamics. As more individuals embrace the principles of minimalism and efficient living, the demand for multifunctional, space-saving, and sustainable furniture is steadily increasing.

Consequently, furniture companies must be agile, adapting to these evolving consumer preferences while harnessing new technologies and materials to create designs that resonate with the micro-living ethos. The future prosperity of the furniture industry relies on the ability of companies to market innovative and affordable solutions that fulfill the unique needs of space-conscious consumers. In this rapidly changing landscape, success belongs to those who prioritize innovation, sustainability, and a deep understanding of consumer demands. Ultimately, the ongoing transformation within the furniture industry should reflect a progressive approach aimed at enhancing the quality of human life in increasingly compact living environments.

As urbanization continues to surge, particularly in densely populated areas, many individuals are finding themselves in smaller living spaces than previous generations. This shift necessitates a reevaluation of how we design our homes and the furniture within them. Traditional, bulky pieces are giving way to adaptive solutions that not only save space but also enhance the functionality of microliving environments. From modular sofas that can be reconfigured for different occasions to wall-mounted desks that can be folded away when not in use, innovation is at the forefront of furniture design.

2. Method

2.1. Research Model

The research model proposed for this study aims to investigate the intricate relationships between micro-living trends, consumer behavior, and the furniture industry's response to these changes. The model is designed to encompass several core components:

Micro-Living Characteristics: This variable examines the defining traits of micro-living spaces, including their size, design elements, and the lifestyle choices of individuals who adopt this living arrangement. Key factors include:

Space limitations

Minimalist design

Focus on sustainability

Consumer Behavior: Understanding how consumers in micro-living situations make purchasing decisions is crucial. This component will explore:

Preferences for multifunctional and space-efficient furniture

Attitudes toward sustainability and eco-friendly products

Price sensitivity and value perception

Market Dynamics: This aspect of the model investigates how the demand generated by microliving influences the overall market, including:

Shifts in supply and demand for furniture products

Emerging trends in design and functionality

Competitive strategies adopted by furniture manufacturers

2.2. Hypotheses

H1: As the popularity of micro-living increases, the demand for multifunctional furniture will rise.

H2: Consumers in micro-living spaces demonstrate a higher preference for sustainable products compared to traditional consumers.

H3: Furniture companies that prioritize innovation and sustainability will experience greater market success in the context of micro-living.

2.3. Data Collection and Analysis

The research model will guide the data collection process, which may include surveys, interviews, and market analysis. Qualitative and quantitative methods will be employed to ensure a comprehensive understanding of the issues at hand.

In conclusion, this research model not only provides a structured approach to understanding the evolving relationship between micro-living and the furniture industry but also serves as a foundation for further empirical investigation into this dynamic landscape.

3. Results

The Rise of Microhabitats

Although micro living may seem like a new concept, it is actually rooted in older practices. Its recent surge in popularity, however, is linked to various factors: increasing population density, a growing preference for solo living, economic limitations in adequately addressing essential and social needs, and a rising awareness of environmental issues leading to the adoption of minimalism. Perhaps the most significant driver is urbanization, which has led to a scarcity of available land despite population growth and concentration in specific areas. According to Nobel laureate economist Robert Merton, urban sprawls have led to a new wave of living solutions that not only maximize space but also contribute to environmental sustainability by reducing the urban footprint. What began as a necessity has evolved into a social trend, particularly among affluent groups in highly populated cities like Istanbul, New York, Tokyo, and London.

Consumer Behavior in Micro Living Spaces

The rise of micro living has significantly changed people's approach to furniture and home decoration. In micro living spaces, every square meter matters, leading consumers to seek multifunctional, space-saving, and visually unobtrusive designs. Minimalism and multifunctionality have therefore become key elements.

According to Professor Jane Jacobs, small spaces demand a more thoughtful approach to furniture, where every item serves multiple purposes, reflecting the principles of sustainable living and minimalism¹. For example, in a micro apartment, a single design can incorporate sofa, bed, workspace, and bookshelf. In response to consumers' evolving needs, preferences, and philosophies, furniture manufacturers have been inclined to innovate and create designs that can easily adapt to various requirements.



Figure 1: Multifunctional sofa

A central theme in these designs is minimalism.

Given the limited space, consumers are more selective about the items they bring into their homes, preferring fewer but better-designed and durable products.

Design Innovations in the Furniture Industry



Figure 2: Space-saving micro apartment

The furniture industry has witnessed a wave of design innovations catering to the micro living trend. These innovations have enabled consumers to personalize and adapt their living spaces through modular furniture that serves the "less but better" principle. Such furniture is designed to be flexible, easily reconfigurable, and expandable as needed, thus maximizing space efficiency. To optimize space usage, features such as descent-ascension, opening-closing, folding-expansion mechanisms have been integrated into furniture designs.

These innovations not only enhance the usability of small

spaces but also maintain an aesthetically pleasing environment. In addition to the functions, appearances and space covered by the designs, the lightweight and durable materials such as wood and metal alloys that make up the design were highlighted, thus aiming to make the furniture durable and easy to carry. Additionally, technological integrations have made micro living furniture more sophisticated, with smart features that align with contemporary needs.

Economic Impacts on the Furniture Industry

The rise of micro living has impacted not only consumer behavior and design innovations but also significantly influenced the economic landscape of the furniture industry. As demand for furniture designed for smaller spaces has surged, market dynamics have shifted, creating both challenges and opportunities for furniture manufacturers and retailers.

In recent years, demand for compact furniture has shown robust growth, driven by the growing popularity of micro living. According to industry reports, the global market for space-saving furniture is projected to reach substantial figures over the next decade,

with a compound annual growth rate

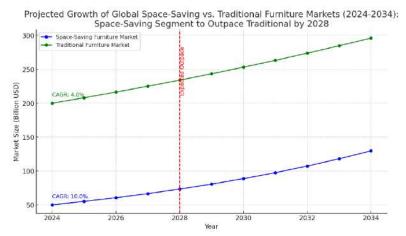


Figure 1: Projected Growth of Global Space Saving vs Traditional Furniture Markets (2024-2034)

(CAGR) expected to surpass that of traditional furniture segments.

Challenges Faced by Traditional Furniture Manufacturers

The shift towards micro living has had a profound impact on various aspects of furniture manufacturing, including design, production, and marketing. To remain relevant, furniture manufacturers must embrace new approaches and innovations. But -especially- companies that have historically focused on traditional furniture designs or whose products have become standard may have difficulty adapting to changing market demands.

One of the primary challenges is the need for continuous innovation. Since people are at the center of furniture designs for micro living, being who interacts with the world in many ways indirectly affects these designs. People change, furniture designs change too, there is no luxury of remaining static. In the context, consumers now prefer products that are functional, versatile, aesthetically pleasing, compact, customizable, and standard-sized.

While some manufacturers may experience disruptions in their business in the face of these and similar demands, many newly established companies and niche brands can easily respond to the demands and maintain or even strengthen their positions in the sector. As a result, traditional furniture manufacturers can gain strength in maintaining their market share against their competitors as long as they can respond to trends more quickly.



Figure 4: Transformation of a traditional furniture into an innovative furniture

Opportunities for Start-ups and Niche Brands

The micro living trend has created significant opportunities for start-ups and niche brands. These companies often excel at offering innovative solutions tailored to diverse needs, making them highly appealing to consumers. By specializing in modular, multifunctional, and space-saving furniture, these brands have successfully tapped into the micro living market. The foundation of this success lies in merging modern design principles with sustainable materials and the latest technologies to create practical yet stylish solutions for compact spaces, effectively marketed to the right audience. With the rise of e-commerce, marketing capabilities have been enhanced, allowing even very small brands to find platforms where they can reach a global audience. Services such as online marketplaces and direct-to-consumer (DTC) channels have democratized the competitive landscape for brands of

this nature, allowing them to compete more effectively with established brands and, in particular, with companies engaged in retail.

The Furniture Industry and Sustainability

In the face of environmental challenges, individuals who experience a conscious concern for the planet increasingly seek to integrate awareness of these issues into their lives, adapting their habitats accordingly. One of these critical issues is sustainability, which has thus recently become a vital consideration both for micro-living environments and within the furniture industry.

Sustainable vs Traditional Furniture Products: Key Metrics Comparison

The Impact of Micro Living on Sustainable Furniture Design



2015 2019 2017 2019 2021 2022 2016 2017 2018 2020 2021 Micro-living supports sustainability by encouraging individuals to reduce their consumption and live within smaller environmental footprints. This minimalist approach is reflected in an emphasis on sustainable design practices within the furniture market. However, sustainable furniture is not limited to consumers who specifically adopt this lifestyle. It is known that, at certain points in their lives, individuals may choose such products due to the limitations of personal or global resources. Furthermore, these types of products are not only environmentally conscious through their durability and ability to be recycled or upcycled, but they can also incorporate integrations that meet the needs of micro living.

Figure 2: Comparison of sustainable furniture products with traditional furniture products in terms of market share over time, sales growth rates, consumer preferences, and environmental impact.

The Rise of Eco-Friendly and Recycled Materials

The aforementioned consumer demands have increasingly driven furniture manufacturers to adopt materials with lower environmental impact; FSC-certified woods, recycled plastics, organic textiles, bamboo, and metal materials have thus emerged as prominent choices in this context. Recycled materials, in particular, have gained significant traction in the furniture industry. For

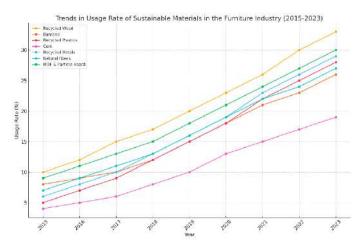


Figure 3 : Sustainable Materials in the Furniture Industry 2015-23

instance, some manufacturers opt to use recycled metals and plastics to craft modernminimalist furniture pieces that appeal to environmentally conscious consumers. Moreover, advancements in materials science are contributing to the development of new sustainable materials for furniture design. **Products** made from bioplastics and mushroom-based composites serve as evidence supporting this assertion. Moreover,

the focus on sustainability has extended beyond the final product to encompass the production process itself; brands have pursued greater awareness by exploring ways to reduce waste, energy consumption, and carbon emissions.

Consumer Interest in Sustainable Products and Responsible Producers Concerning Micro-Life

Consumer awareness regarding the environmental impacts of their purchases, especially among those who embrace the philosophy of micro-living, has led to an increased demand for sustainable furniture. This concern extends not only to the products themselves but also to the manufacturers, with brands that demonstrate a strong sense of corporate responsibility standing out among their competitors. Additionally, individuals who adopt a micro-living philosophy become loyal, long-term customers for these brands, as their preference for sustainable products is not merely a choice but a necessity to reduce their carbon footprint and maximize their quality of life. Furthermore, with manufacturers opting for environmentally conscious materials and practices, the momentum of the circular economy in the furniture industry has been strengthened. When combined with innovative ideas in the philosophy of micro-living, this has facilitated the emergence of new business models and revenue streams.

Brands That Adapt to Micro Living Spaces

As micro-living continues to shape the furniture industry, the following brands have successfully adapted to this trend by developing products specifically designed for small spaces. These brands' initiatives offer valuable insights for those interested in understanding how to succeed in a market with demand for space-saving, versatile, and sustainable furniture.

• IKEA-Swedish

IKEA addresses the challenge of designing furniture for small spaces through modularity, functionality, and affordability. In doing so, it focuses on sustainability, energy efficiency, and environmentally friendly goals and practices. For instance, the 'Kallax' shelving unit serves



Figure 4: IKEA Brimnes Bed Sketch

both as a room divider and a storage solution, while 'Brimnes' functions as both a bed and a storage space. 'Platsa,' on the other hand, is a furniture system that allows users to create personalized storage solutions suited even for micro-living spaces by mixing and matching different components (wardrobes, shelving units, and cabinets).

• Resource Furniture-New York

Resource Furniture is a manufacturer specializing in multifunctional furniture designed to meet the needs of urban residents, distinguishing itself with this feature. Its products are characterized by versatile designs idealized for micro-living spaces. In addition to quality and functionality, Resource Furniture places importance on the aesthetics of its designs, setting it apart from IKEA. For example, the 'Penelope' wall bed transforms from a stylish sofa into a comfortable bed with a simple pull, while the 'Goliath' table converts from a compact console into a full-sized dining table with seating capacity for up to 10 people.



Figure 9-10-11: Resource Furniture Penelope Bed



Figure 12-13-14: Resource Furniture Penelope Sofa



Figure 15-16-17: Resource Furniture Penelope Table

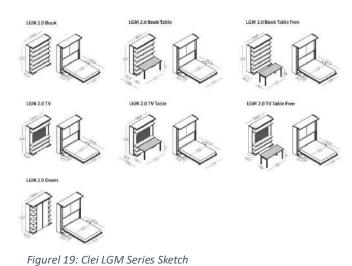
• BoConcept-Denmark



Modular sofas, extendable dining tables, and wall-mounted storage units are designed to fit seamlessly into small spaces. BoConcept, a preferred choice for consumers seeking a contemporary, aesthetic, spacious, and minimalist ambiance in their homes, also allows for customization to meet specific spatial requirements.

Figure 18: Boconcept Cupertino Desk

Clei-İtaly



Designing products that incorporate multiple functions in one, especially for small spaces, Clei focuses on solutions that can easily transition from one form to another, meeting multiple needs throughout the day. Clei's signature product line in the LGM series when a shelf or TV unit is opened or rotated, it can convert into a table or bed."

• Boxetti-Latvia

Boxetti produces furniture that embodies a sleek, functional, and modern approach to futurism and minimalism. Designed by Rolands Landsbergs, this collection maximizes functionality through each piece's seamless integration of hidden features. For instance, the 'Boxetti Lounge' module includes a sofa, a coffee table, and additional storage spaces, all of which can be concealed when not in use. The 'Boxetti Lunch' module, meanwhile, is a compact, self-contained kitchen that resembles a mini island, incorporating a workspace, refrigerator, sink, and extra storage compartments.



Figure 20: Boxetti Lunch



Figure 21: Ori Studio Suit

• Ori Living-Boston

Ori Living utilizes robotics to transform small living spaces into more efficient areas with the push of a button. For example, the Studio Suite is a compact furniture unit that can switch between a bedroom, living room, and office.

Nurus-Türkiye and Germany



Figure 22: Nurus Isola

In Türkiye, furniture manufacturers such as Nurus, Mudo Concept, Tepe Home, Doğtaş, Enza Home, and Lazzoni are generally observed to focus on issues like aesthetic appeal, collapsibility, and additional storage options. Unlike these companies, Nurus specifically aims to maximize efficiency by producing compact and contemporary furniture designed especially for offices.

For this purpose, it creates designs that support both concentration and the utilization of break times.

Additionally, these designs can be paired with electronic devices through "Nurus Links," allowing users to benefit from features such as information transfer, video conferencing, quick charging, and multimedia capabilities.

Common Features of Successful Products Designed for Small Spaces



Figure 23: Furniture examples created based on common features

Furniture designed for small spaces, inspired by the brands and designs mentioned, can be characterized by versatility, modularity, aesthetic appeal, and sustainability. Versatility enables a single piece of furniture to serve multiple functions, allowing consumers to utilize their limited space in the most efficient manner. Modularity refers to the furniture's

ability to be customized and reconfigured according to the layout and size of the room. In addition to functionality, the design and aesthetic appeal of the furniture are also features that attract consumers. At this point, harmonious and modern designs that bring a sense of spaciousness to the space are often preferred. Finally, sustainability emerges as a prominent feature, particularly for environmentally conscious consumers who prioritize eco-friendly living.

Challenges and Future Trends

As the micro-living trend grows, the furniture industry faces various challenges and opportunities. The ability to capitalize on emerging trends and tackle these challenges will be critical to the future success of companies in this sector.

- a. Challenges Facing the Furniture Industry for Micro-Living Spaces:
- Meeting Demand for Innovation: Consumers living in micro-spaces have high expectations for
 the functionality and versatility of their furniture. To meet these demands, it is necessary to
 innovate continuously in design and materials, as well as to adapt to technological advancements.
 These innovations must progress at a steady pace, building upon previous developments.
 Companies unable to keep up with the pace of innovation risk losing market share to more agile
 competitors.
- Balancing Quality with Affordability: The relationship between the micro-living trend and urbanization was discussed earlier; in densely populated areas, the philosophy of micro-living often shifts from a preference to a necessity due to economic factors. As a result, consumers may seek products designed for small spaces that

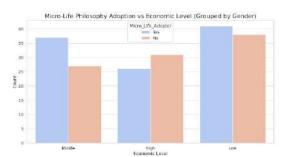


Figure 24 : People who adopt the micro-life philosophy and their economic levels

- share common successful features at a more affordable price. Furniture companies must meet this demand by providing affordable options without compromising on quality and standards.
- Managing Supply Chain Challenges: Large companies transitioning to sustainable materials and
 production processes face a range of challenges. Selecting eco-friendly materials suitable for
 furniture design, securing supply, implementing ethical labor practices, and minimizing carbon
 footprints all require careful coordination. Companies able to overcome these and similar
 challenges can remain competitive in the market.
 - b. Forecasts for the Future of the Furniture Industry in the Micro-Living World:
- *Growth of Modular and Multi-Functional Furniture:* As micro-living becomes more widespread, the demand for modular and multi-functional furniture is expected to grow. Innovations in this area will likely continue, with increased focus on designs that offer flexibility and adaptability.
- Expansion of Sustainable Practices: Sustainability will continue to be a driving force in the furniture industry. Companies prioritizing the use of sustainable materials, ethical production practices, and circular economy models will have a competitive edge in the micro-living market.

• Integration of Smart Technology: Technology has permeated every aspect of human life, fostering dependence on it. This reliance has diversified with the integration of smart technology into furniture products. Adjustable lighting, built-in charging stations, and smart storage solutions are already used to enhance functionality in small spaces, indicating the growing importance of this aspect. The following examples can be given regarding the relationship between technological developments and the furniture industry:

3D Printing and Customization: This allows for on-demand and personalized furniture production, supporting waste reduction, lowering production costs, and enabling consumers to design furniture that perfectly fits their small spaces.

Augmented Reality (AR) in Furniture Shopping: With augmented reality technology, consumers can see how furniture will look in their micro-apartments and assess its compatibility with other items before purchasing. This supports informed purchasing decisions and may reduce order returns and unnecessary consumption.

Smart Materials: The development of smart materials, such as fabrics that change color or texture depending on environmental conditions, could offer new possibilities in furniture design. These materials enhance the versatility and functionality of furniture, making them even more suitable for micro-living spaces.

4. Conclusions

The rise of micro-living spaces has not only spurred innovation but also altered consumer behaviors, reshaped market dynamics, and asserted influence over the furniture industry. As this philosophy reaches more people, the demand for multifunctional, space-saving, and sustainable furniture will continue to grow. The future of the furniture industry depends on companies' abilities to adapt to these evolving demands, leverage new technologies and materials to create unique designs that cater to the needs of micro-living consumers, and market these products at the most competitive prices. In this evolving landscape, companies that prioritize innovation, sustainability, and consumer needs analysis will achieve success more readily than their competitors. The changes in the furniture industry, both current and forthcoming, should always be part of a progressive process aimed at addressing human needs.

Acknowledgements

We would like to thank the study participants, our colleagues and all the scientists whose scientific resources we benefited from.

Declaration of Conflicting Interests and Ethics

"In this article, journal writing rules, publishing principles, research and publication ethics rules and journal ethics rules were followed. Liability for any violations that may arise regarding the article belongs to the authors. "The authors declare no conflict of interest."

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