

## The Rise of Shared Mobility: Redefining Transportation in the 21<sup>st</sup> Century

Samuel Marson\*

Department of Applied Instrumentation and Electronics, University of Putra Malaysia, Serdang, Malaysia

### ABOUT THE STUDY

In the last decade, shared mobility has emerged as a revolutionary concept that is transforming the way we move around in cities. This innovative approach to transportation, driven by technology and changing societal attitudes, has given rise to new possibilities for efficient, affordable, and sustainable mobility solutions. Shared mobility encompasses a range of services, including car-sharing, ride-hailing, bike-sharing, and scooter-sharing, among others. This article explores the growing trend of shared mobility and its potential to reshape urban transportation systems.

### Shared mobility defined

Shared mobility refers to the idea of using shared resources and services to meet transportation needs instead of relying on private vehicle ownership. It leverages the power of technology platforms, such as mobile applications, to connect users with available modes of transportation. Whether it's summoning a ride from a transportation network company like Uber or Lyft, renting a bike for a short trip, or sharing a car with others, shared mobility offers flexible alternatives to traditional transportation methods.

### Advantages of shared mobility

**Cost savings:** Shared mobility reduces the financial burden associated with car ownership. Instead of purchasing, maintaining, and insuring a private vehicle, individuals can opt for on-demand services, paying only for the trips they take. This approach can significantly reduce expenses for those who do not require a car on a daily basis.

**Environmental sustainability:** Shared mobility plays a vital role in promoting sustainability and combating climate change. By encouraging the use of shared vehicles, fewer cars are on the road, leading to reduced traffic congestion and lower emissions. Additionally, the integration of electric and hybrid vehicles into shared mobility fleets further contributes to the overall environmental benefits.

**Improved urban livability:** Shared mobility has the potential to alleviate traffic congestion and enhance urban livability. By reducing the number of private vehicles on the road, cities can reclaim valuable space used for parking, allowing for more green spaces, wider sidewalks, and dedicated cycling lanes. Consequently, this shift can make cities more pedestrian-friendly and foster community interaction.

**Last-mile connectivity:** Shared mobility options like bike-sharing and scooter-sharing have revolutionized last-mile connectivity, bridging the gap between public transportation and final destinations. Commuters can easily access and utilize these services to cover short distances, making public transit more accessible and convenient.

### Challenges and future directions

While shared mobility offers numerous advantages, it also faces challenges that must be addressed for its continued success.

**Infrastructure and regulation:** To support shared mobility, cities need to develop the necessary infrastructure, including dedicated lanes, charging stations for electric vehicles, and parking areas for shared bikes and scooters. Additionally, regulations must be updated to ensure the safety and fairness of shared mobility services while considering the interests of traditional transportation providers.

**Equity and accessibility:** It is crucial to ensure that shared mobility services are accessible to all members of society, regardless of income, location, or physical ability. Steps should be taken to address potential disparities and provide affordable options in underserved communities.

**Data privacy and security:** Shared mobility platforms collect vast amounts of user data, including personal information and travel patterns. It is essential to establish robust data privacy and security measures to protect individuals' information and prevent misuse.

Looking ahead, the future of shared mobility holds immense potential. Advancements in autonomous vehicles, electric mobility,

---

**Correspondence to:** Samuel Marson, Department of Applied Instrumentation and Electronics, University of Putra Malaysia, Serdang, Malaysia, E-mail: smmrsn8712@hotmail.com

**Received:** 10-May-2023, Manuscript No. AAE-23-25737; **Editor assigned:** 13-May-2023, PreQC No. AAE-23-25737 (PQ); **Reviewed:** 31-May-2023, QC No. AAE-23-25737; **Revised:** 07-Jun-2023, Manuscript No. AAE-23-25737 (R); **Published:** 14-Jun-2023, DOI: 10.35248/2167-7670.23.12.237

**Citation:** Marson S (2023) The Rise of Shared Mobility: Redefining Transportation in the 21<sup>st</sup> Century. Adv Automob Eng. 12:237.

**Copyright:** © 2023 Marson S. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

---

and connectivity are expected to further revolutionize shared transportation. As technology continues to evolve, we can envision a seamlessly integrated system of shared mobility, where different modes of transportation seamlessly connect to provide efficient, convenient, and sustainable urban mobility.

## CONCLUSION

Shared mobility represents a paradigm shift in how we approach transportation. By embracing the principles of sharing, flexibility,

and sustainability, shared mobility offers a compelling alternative to traditional car ownership and helps address some of the pressing challenges faced by urban areas.

With careful planning, investment in infrastructure, and collaborative efforts between public and private sectors, shared mobility can shape a future where cities are more livable, accessible, and environmentally friendly.