

Gus Lipkin

## Big Data in Transportation

### 1. Potential uses of big data in public transportation

- Link: <https://www.lufthansa-industry-solutions.com/de-en/solutions-products/big-data/potential-uses-of-big-data-in-public-transport/#:~:text=Big%20data%20analytics%20help%20the,and%20processed%20in%20real%20time.>
- The article briefly covers how big data analytics can help public transportation by optimizing operating procedures and cutting costs and targeted increases in transit passes. The former allows operators to optimize the system while the latter allows operators to maximize ridership.

### 2. Leveraging Big Data in the Public Transportation Industry

- Link: <https://www.apta.com/wp-content/uploads/Big-Data-Policy-Brief.pdf>
- The article's key takeaways are that:
  - i. Public transportation generates massive amounts of data every day
  - ii. This data can provide valuable insight and be used to improve service and efficiency
  - iii. "Leveraging Big Data requires long-term investment in infrastructure and talent"
  - iv. Big Data will have a larger role in funding decisions in the future

### 3. Chapter 7 - Public Transportation Big Data Mining and Analysis

- Link: <https://www.sciencedirect.com/science/article/pii/B9780128170267000072>
- I don't have access to the paper so I can only see the abstract
- "Based on our previous research results, the application of public transportation big data in areas such as bus arrival times prediction, commuting behavior mining, and performance evaluation of public transportation networks (E-Science public transportation big data platform) is introduced."