



Osama Nijmeh - Data Analytics - Riyadh Metro

Project Introduction – Riyadh Metro Data Insights

Welcome to "Riyadh Metro Data Insights" – a comprehensive Power BI dashboard designed to explore, analyze, and visualize key data related to the Riyadh Metro system.

This project, developed by Osama Nijmeh, aims to provide a clear and interactive overview of metro operations, including station distribution, line directions, passenger flow, and network coverage. By leveraging the power of data visualization, this dashboard helps stakeholders, planners, and the public gain valuable insights into the performance and structure of Riyadh's growing public transportation network.

Whether you're a data enthusiast, urban planner, or simply curious about how Riyadh moves, this dashboard offers a user-friendly and informative experience.

Key Insights – Riyadh Metro Data Insights

- 1- Total Metro Stations: 94 stations across 6 metro lines, with the most common station type being Elevated.
- 2- Station Ratings: The average rating across all stations is 3.66, with Ad Douh and Ad Dar Al Baida among the top-rated stations.
- 3- Comment Availability: 89.36% of stations have user comments, indicating strong engagement and feedback.
- 4- Bus Network Integration: The dashboard includes data from 116 bus lines, with 70 unique destinations and 58 unique origins, enhancing the multimodal view of Riyadh's public transport.
- 5- Shelter Types & Development Stages: Bus stops are categorized by shelter type and development stage, providing insights into infrastructure readiness and passenger comfort.



Trivia time!

**When was Riyadh
Bus launched?**



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Khalid Call Center
19933

Metro Line, Type & Comments

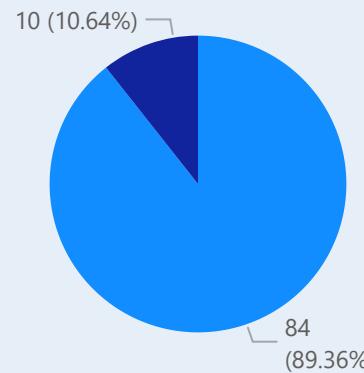
- ✓ 1
- ✓ 2
- ✓ 3
- ✓ 4

Station type

- At Grade
- Deep Underground
- Elevated
- Shallow Underground

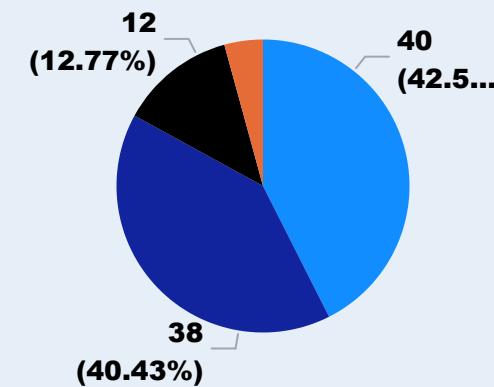
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Comment Availability per Station



- Has Comment
- No
 - Yes

Distribution of Station Types

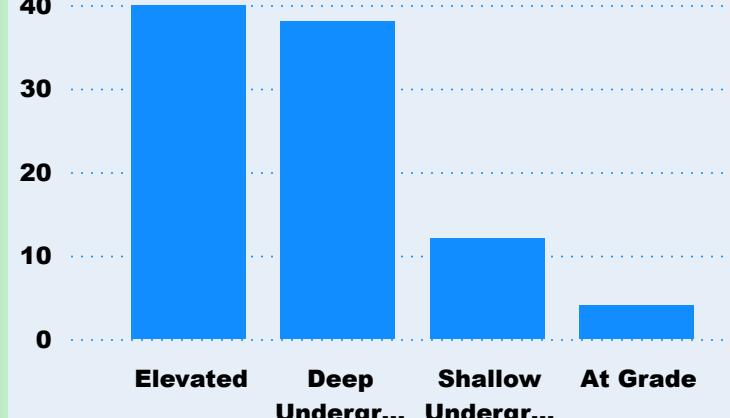


- Station type
- Elevated
 - Deep Undergr...
 - Shallow Und...
 - At Grade

Station Count per Metro Line



Station Count by Type



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Most Frequent Station Type

4

Number of Metro Lines

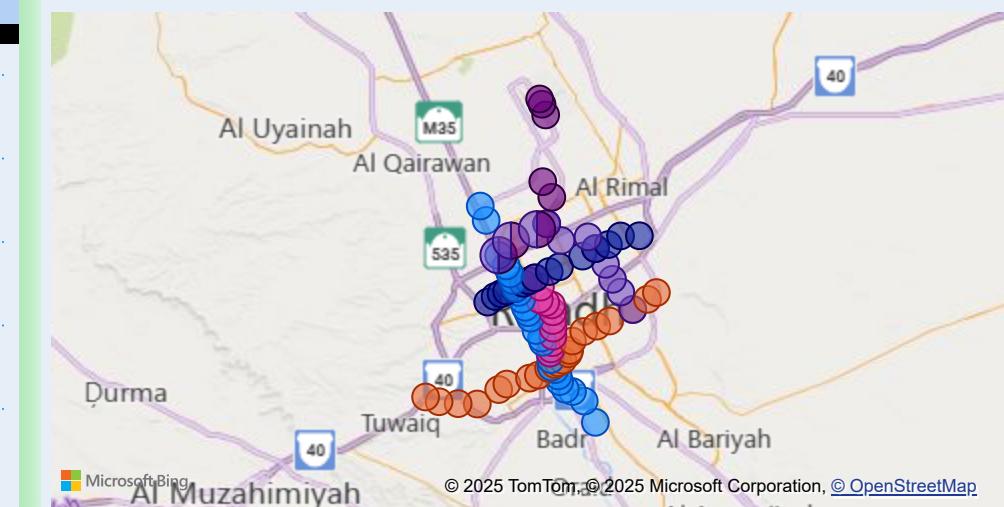
6

Total Number of Stations

94

Station and First Station Map by Line

Metro line number ● 1 ● 2 ● 3 ● 4 ● 5 ● 6



Total Stations

100

Highest Rating

5.00

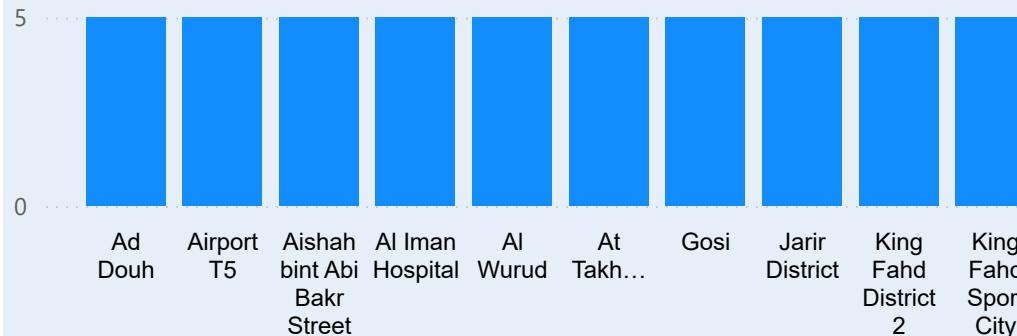
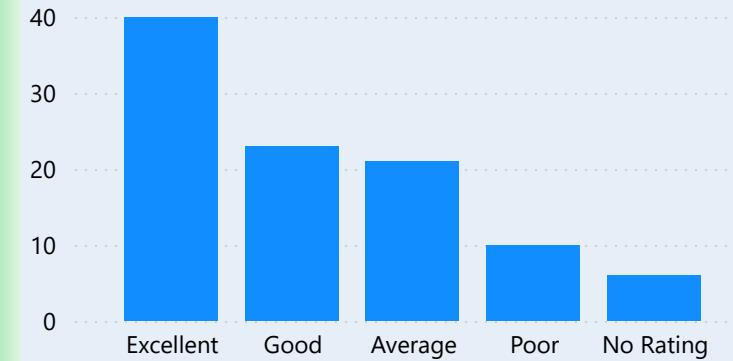
Stations with No Ratings

6

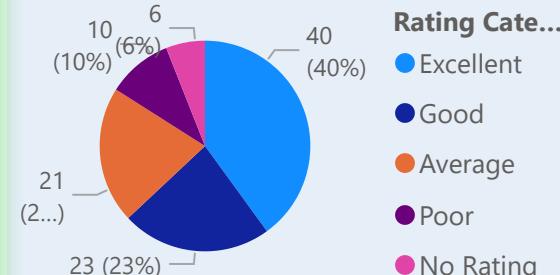
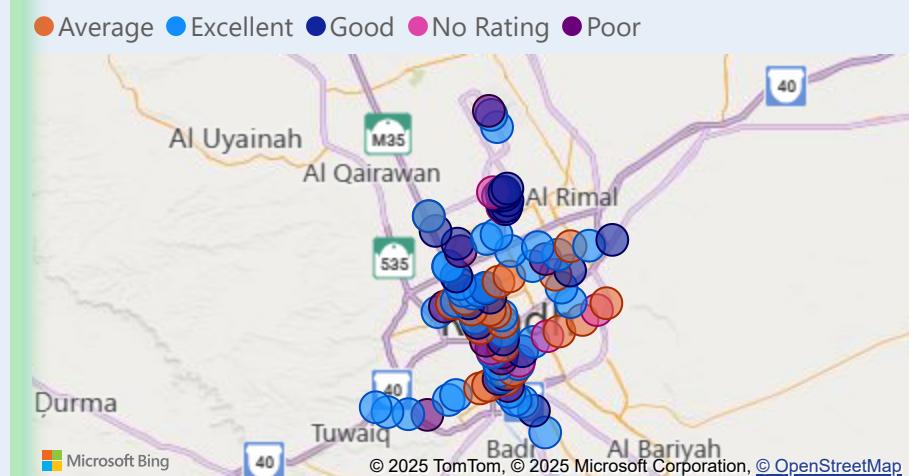
Rating Category

- Average
- Excellent
- Good
- No Rating
- Poor

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Top 10 Rated Stations**Number of Stations per Category****Average Rating by Category****Rated stations**

Name	Rating Category	Average of Average_Rating
A5	Good	4.30
Abu Dhabi square	Excellent	4.73
Ad Dar Al Baida	Excellent	4.97
Ad Dhabab	Average	2.50
Ad Douh	Excellent	5.00
Airport T1-2	Poor	1.25
Airport T3-4	Excellent	4.90
Total		3.66

Station Performance Categories**Station Ratings Map**

Filter by Destination

- Ad-Dirah
- Ad-Duraihemiyah
- Al Arid
- Al Awwal Park
- Al Khaleej
- Al Khalidiah
- Al Kharj Terminal
- Al Mansoura Park
- Al Yarmuk
- Al-Andalus
- Al-Aziziyyah
- Al-Ezdiyah
- Al-Faiha

Filter by Origin

- Ad Dar Al Baida
- Ad Douh
- Aishah bint Abi ...
- Al Awwal Park
- Al Batha
- Al Bat'ha
- Al Hamra
- Al Hilla
- Al Iman Hospital
- Al Khaleej
- Al Kharj Terminal
- Al Muorabba
- Al Urubah

Filter by Direction

- 1
- 2

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Number of Unique Destinations

70

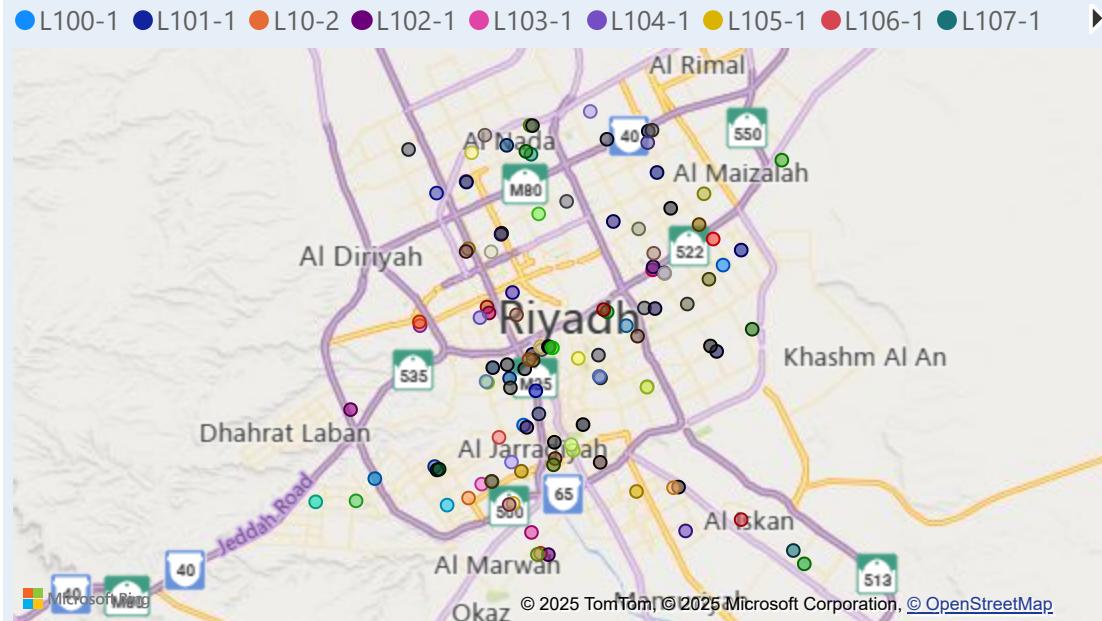
Total Number of Bus Lines

116

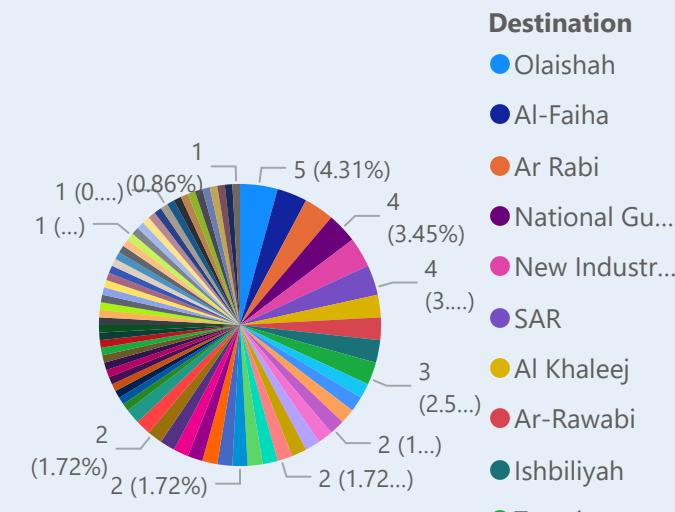
Number of Unique Origins

58

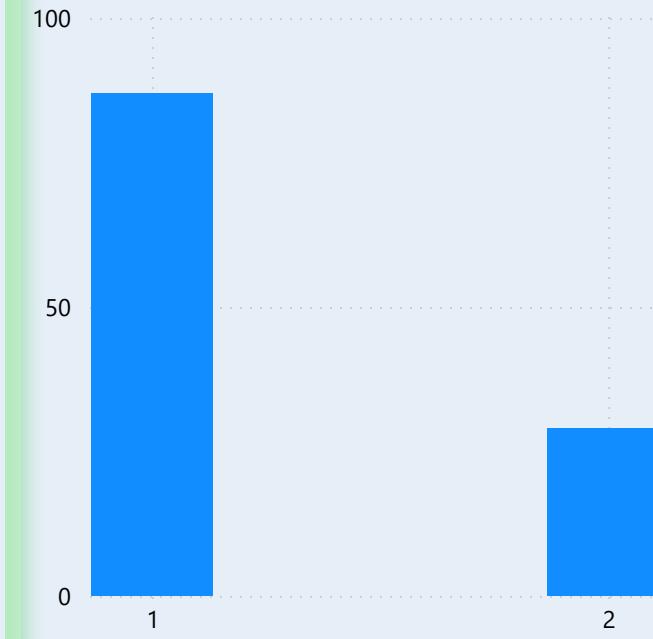
Interactive Map of Bus Routes



Number of Bus Lines by Direction



Number of Bus Lines by Direction



Active Bus Stops**Inactive Bus Stops****Total Number of Bus Stops**

3007

0

3007

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**Bus Stop Information Table**

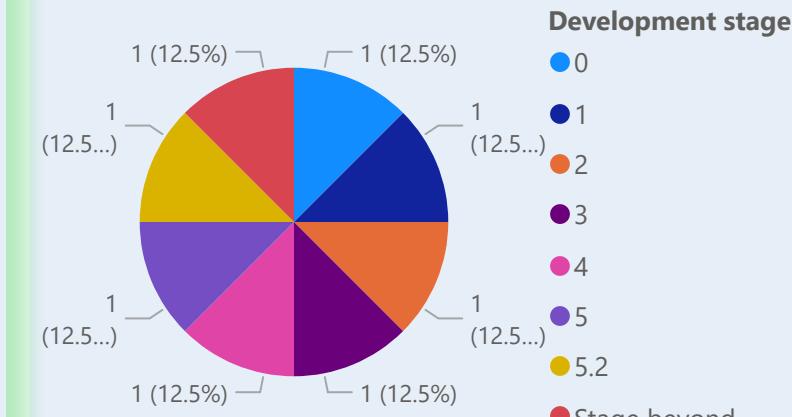
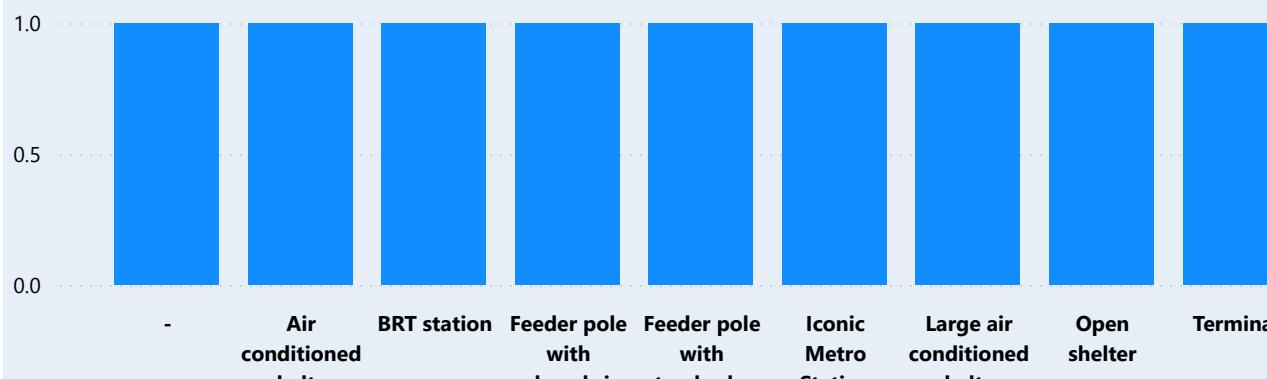
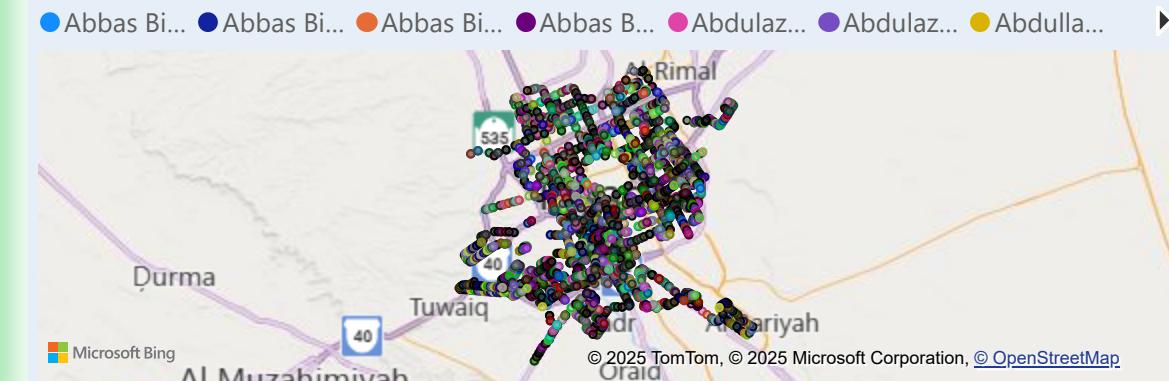
Bus station name	Shelter type	Development stage
Al Kharj B	-	2
Al Kharj C	-	2
Al Kharj D	-	2
Al Kharj F	-	2
Ali Ibn Abi Talib B	-	2
Ali Ibn Abi Talib D	-	3
Ali Ibn Abi Talib E	-	3
Ali Ibn Abi Talib F	-	3
Khalid Bin Alwaleed Road B	-	3

Filter by Shelter Type

-
- Air conditioned ...
- BRT station
- Feeder pole wit...
- Feeder pole wit...
- Iconic Metro Sta...
- Large air conditi...
- Open shelter
- Terminal

Filter by Development Stage

- (Blank)
- 0
- 1
- 2
- 3
- 4
- 5
- 5.2
- Stage beyond 5.2

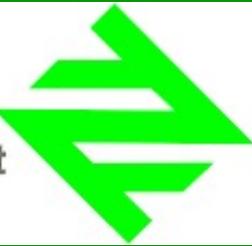
Bus Stops by Development Stage**Distribution of Bus Stops by Shelter Type****Spatial Visualization of Bus Stop Locations**

Metro Lines Summary Table

Metro line number	Metro line name	Color	Sum of Number of Coordinates
Metro 1	Metro Line 1 - Olaya-Batha-Al Hayer Road	#00ade5	39
Metro 2	Metro Line 2 - Abdula Rahman bin Ouf- Shaikh Hassan	#f0493a	18
Metro 3	Metro Line 3 - Madina Al Munawra- Amir Saad	#f68d39	52
Metro 4	Metro Line 4 - Airport Road	#ffd105	22
Metro 5	Metro Line 5 - King Abdul Aziz Road	#43b649	20
Metro 6	Metro Line 6 - Abdula Rahman bin Ouf- Shaikh Hassan	#984c9d	17
Total			168

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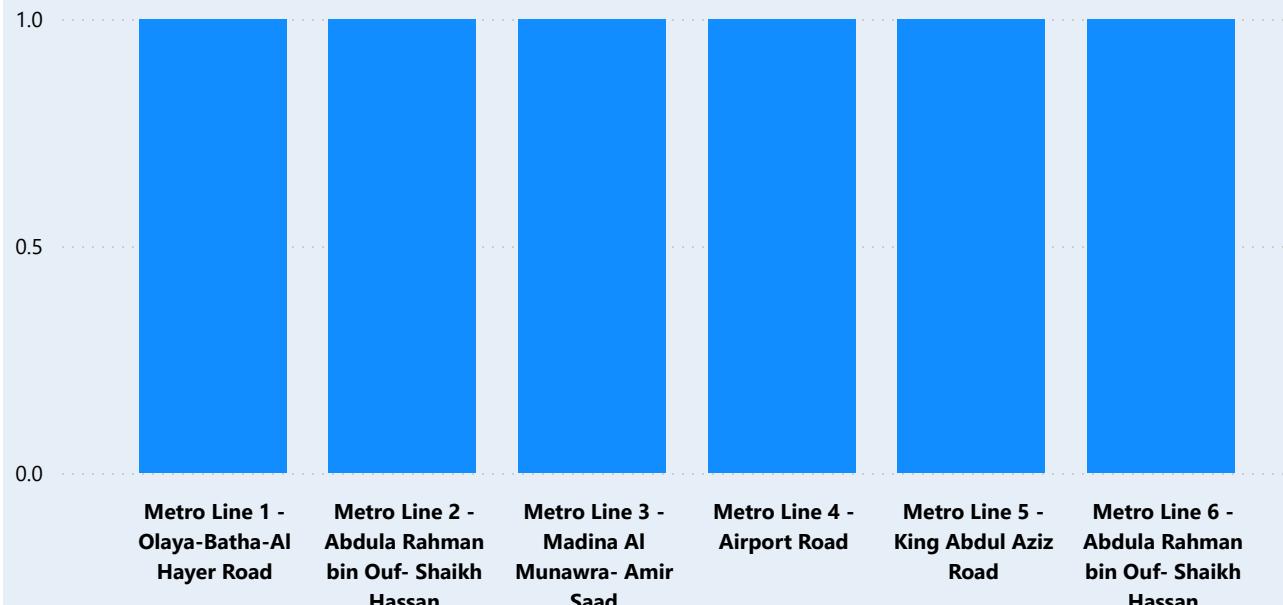
Total Coordinates Mapped

168

Total Metro Lines

6

Number of Coordinates per Metro Line



Geospatial Visualization of Metro Lines in Riyadh

