Methodology

Data Collection and Sources

Fanbase Data:

- Data Source: SBRnet's study of American soccer fans who support foreign teams
- **Sample Size (by year)**: 3,475 respondents in 2021+ 6,426 in 2022 + 6,330 in 2023 + 6,666 in 2024 + 7,064 in 2025
- Collection Period: January of each following year (e.g., January 2021 for 2020 calendar year)
- Units: Thousands of American fans (e.g., 1,000k = 1 million fans)
- Scope: Adjusted for ~277 million Americans aged 13 or older

Performance Data:

- Sample Size: 25 teams across the English soccer pyramid
- Metric: Final league position at the end of each previous season (2019-20 through 2023-24)
- **Timing:** Final positions correspond to the same calendar year as the January fan data
- Coverage: Premier League positions (1-20) and Championship/League One positions (21+)

Statistical Methods

Correlation Analysis:

- Method: Pearson correlation coefficient
- Formula: $r = [n(\Sigma xy) (\Sigma x)(\Sigma y)] / \sqrt{[n(\Sigma x^2) (\Sigma x)^2][n(\Sigma y^2) (\Sigma y)^2]}$
- Interpretation:
 - o r > 0.7: Very strong correlation
 - o r > 0.5: Strong correlation
 - o r > 0.3: Moderate correlation
 - o r < 0.3: Weak correlation

 Group Analysis: Separate correlations calculated for team subsets (Big 6, position tiers, growth categories)

Growth Calculations:

- Year-over-Year Growth: [(Current Year Previous Year) / Previous Year] × 100
- Total Growth: [(Final Year First Year) / First Year] × 100
- Absolute Change: Final Year Fans Initial Year Fans

Team Categorization:

- Big 6: Manchester United, Manchester City, Liverpool, Arsenal, Chelsea, Tottenham Hotspur
- Position Tiers: Top (1-6), Upper Mid (7-10), Lower Mid (11-14), Bottom (15+)
- **Growth Groups:** High (>50%), Moderate (0-50%), Negative (<0%)

Sample Composition

- Valid Teams for Correlation Analysis: 18 teams with complete position and fanbase data
- Total Teams in Dataset: 25 teams
- Missing Data Handling: Teams with insufficient data points are excluded from specific analyses but are included in overall trends where applicable

Key Assumptions and Limitations

Data Quality Assumptions:

- Fanbase estimates represent reasonable approximations of American support
- Timing of January collection captures fan reactions to major events from previous season
- Final league positions provide objective performance indicators and do not leave room for bias

Analytical Limitations:

- Sample Size: Limited to 5-year period, constraining long-term trend analysis
- External Factors: Analysis doesn't account for specific events (ownership changes, major signings, scandals) beyond their reflection in final positions

- **U.S. Population**: Sample size relatively small when compared to the number of potential fans
- **Promotion/Relegation Effect:** Teams' data availability varies based on survey sample and may not account for all English clubs with American support

Statistical Considerations:

- **Outlier Impact:** Manchester United's exceptional fanbase relative to performance significantly affects overall correlations
- Small Sample Bias: Some team categories have limited observations, reducing statistical reliability
- Temporal Alignment: Six-month lag between January fan data and May position finalization may affect correlation strength

Sensitivity Analysis:

- Alternative correlation calculations performed with and without outliers
- Group definitions tested with varying threshold boundaries

This methodology provides the foundation for analyzing the complex relationship between team performance and American fanbase development in the Premier League ecosystem.

Key Findings

- **Total Market Growth:** American Premier League fanbase expanded by **62.3**% from 2020-2024, growing from 18.6 million to 30.2 million fans
- **Growth Pattern:** Peak expansion occurred in 2022 (+35.0%), followed by stabilization and the first decline in 2024 (-1.0%)
- **Performance Correlation:** Strong negative correlation (-0.676) between league position and fanbase size, indicating American fans strongly favor successful teams
- Market Concentration: Top 6 teams dominate with average fan bases of 3.8 million vs. 245k for mid-tier teams
- Notable Performers: Newcastle United achieved extraordinary growth of 970% following ownership change, while relegated teams like Leeds United and Sheffield United suffered severe losses of American fans