

Comprehensive Report: Foot Traffic Management and Building Operations Analysis - - - ### Executive Summary

The total foot traffic recorded over the daily period was 112 visitors, with an average of 56.0 per measurement. Peak traffic occurred between 10:00–11:00, averaging 67.0 people, and the busiest location was the main_entrance with 112 total visitors. Operational insights show that 33.5% of capacity is utilized efficiently, suggesting potential for optimization. Strategic recommendations aim to improve visitor experience and resource allocation, while addressing potential risks such as weather impacts and operational inefficiencies. - - - ### Key Findings

- 1. Traffic Patterns:** Peak: 67.0 people between 10:00–11:00, with the main_entrance being the highest in total visitors. **Data Collection:** Average of 56.0 per measurement, indicating consistent but underutilized data collection frequency. **Weather Impact:** Clear weather (avg. 10.75) and sunny conditions (avg. 11.0) correlate with higher foot traffic, while cloudy and rainy days (avg. 3.0 and 4.0) suggest seasonal variability.
- 2. Operational Insights:** **Capacity Utilization:** 33.5% of capacity is already utilized, suggesting room for optimization. **Service Points:** Currently, only one service point is operational, which may limit visitor access. **Staffing:** Morning staff levels are adequate, but additional support is needed during peak hours. - - - ### Traffic Patterns Analysis

Entry Points: Lobby: Entry (avg. 20.0) and Exit (avg. 8.0) show consistent usage. South Gate: Both directions (avg. 14.0) and Exit (avg. 8.0) indicate seasonal and directional variability. **Weather and Time:** - Clear weather correlates with higher foot traffic, while foggy and rainy conditions reduce usage. **Hourly Aggregates:** -

10:00–11:00 is the peak time for traffic, with the main entrance being the primary source. - - - ### Operational Insights Service Point Optimization: Only one service point is operational, which may limit access to non - peak hours. Staffing: Morning staff is adequate, but additional support during peak hours could improve response times. Data Collection: Current frequency (daily) is low, which may hinder accurate analysis of seasonal trends. - - - ### Strategic Recommendations 1. Enhance Service Point Accessibility: - Introduce additional service points, especially near the main entrance, to optimize access during peak hours. - Implement a mobile app for real - time service point availability to reduce wait times. 2. Optimize Staffing: - Increase morning staff hours and consider rotating staff during peak times to improve response capacity. 3. Improve Data Collection: - Increase data collection frequency (e.g., 15–20 hourly measurements) to better understand seasonal trends and optimize staffing. 4. Weather - Resilient Infrastructure: - Install weather - responsive signage and lighting to enhance visitor experience during cloudy or rainy days. 5. Operational Efficiency: - Monitor and adjust operating hours to align with peak traffic times, ensuring optimal utilization of building capacity. - - - ### Risk Assessment Weather Risks: Cloudy and rainy days may reduce foot traffic, potentially affecting revenue and visitor satisfaction. Seasonal Variability: Seasonal shifts in foot traffic could strain budget planning and resource allocation. Operational Inefficiencies: Current staffing and data collection methods may limit long - term sustainability. - - Conclusion: By optimizing service points, enhancing staffing, and

improving data collection, the building can better manage foot traffic and enhance visitor experience, while mitigating risks associated with seasonal variability and weather impacts.