

Statement of Characteristics

Halifax is experiencing an unprecedented population boom, with rapid growth and new developments fundamentally reshaping the urban landscape. As the city expands, ensuring that public infrastructure keeps pace with housing is a critical challenge. Current spatial analysis reveals that significant portions of the population are currently underserved, with many residents unable to reach a public transit stop within a standard 10-minute walking distance. This gap in the network limits mobility and creates a reliance on private vehicles.

To address these inequities, we conducted a comprehensive multi-criteria analysis that integrated population density, the location of new residential buildings, and the existing infrastructure of bus stops and routes. By mapping these variables, we identified specific "transit deserts" where the demand for service far exceeds current supply.

Based on these findings, our proposal introduces four new strategic bus routes designed to bridge these gaps. These routes include carefully placed bus stops that optimize coverage and bring thousands of residents back within the essential 10-minute walking threshold. By prioritizing data-backed connectivity, this plan not only supports Halifax's immediate growth but also fosters a more sustainable, accessible, and equitable transit future for the entire municipality.