

Bus Service Allocation Study

Land Use Advisory Committee 11/21/2019



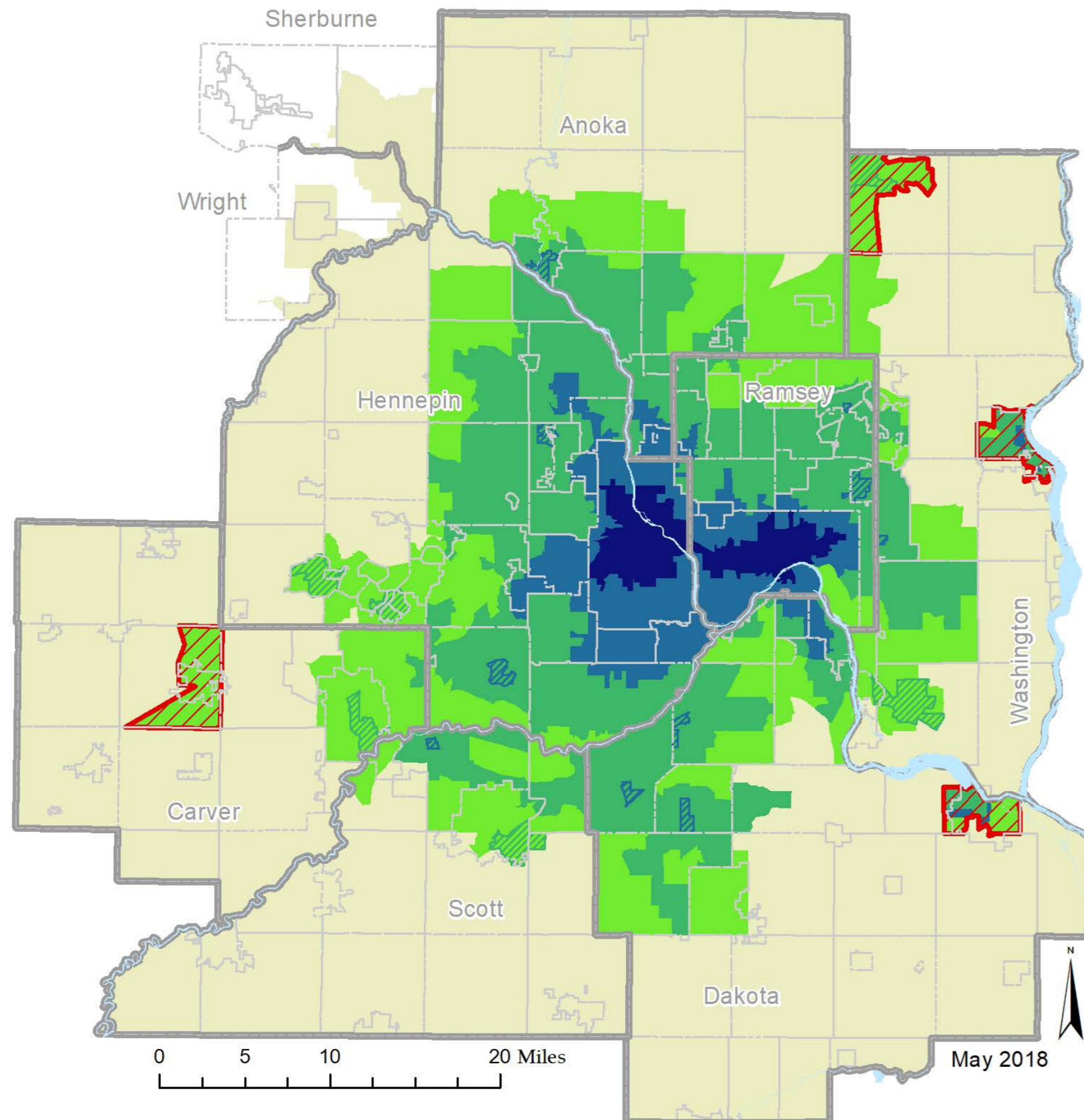
Agenda

- Introduction
- Transit System Overview
- Scope of Work
- Existing Conditions
- Alternative Scenario Analysis
- Workshops
- Service Allocation and Land Use

Introduction

- Understand the competing roles that transit is serving in the region
 - Geographic coverage
 - Ridership productivity
- Analyze the existing allocation of transit resources between roles and develop alternative scenarios to understand impacts of changing resource allocation
- The need for this study highlighted by:
 - Regional Solicitation
 - Regional Service Improvement Plan
 - Transit expansion funding discussions

Existing Transit System – Market Areas

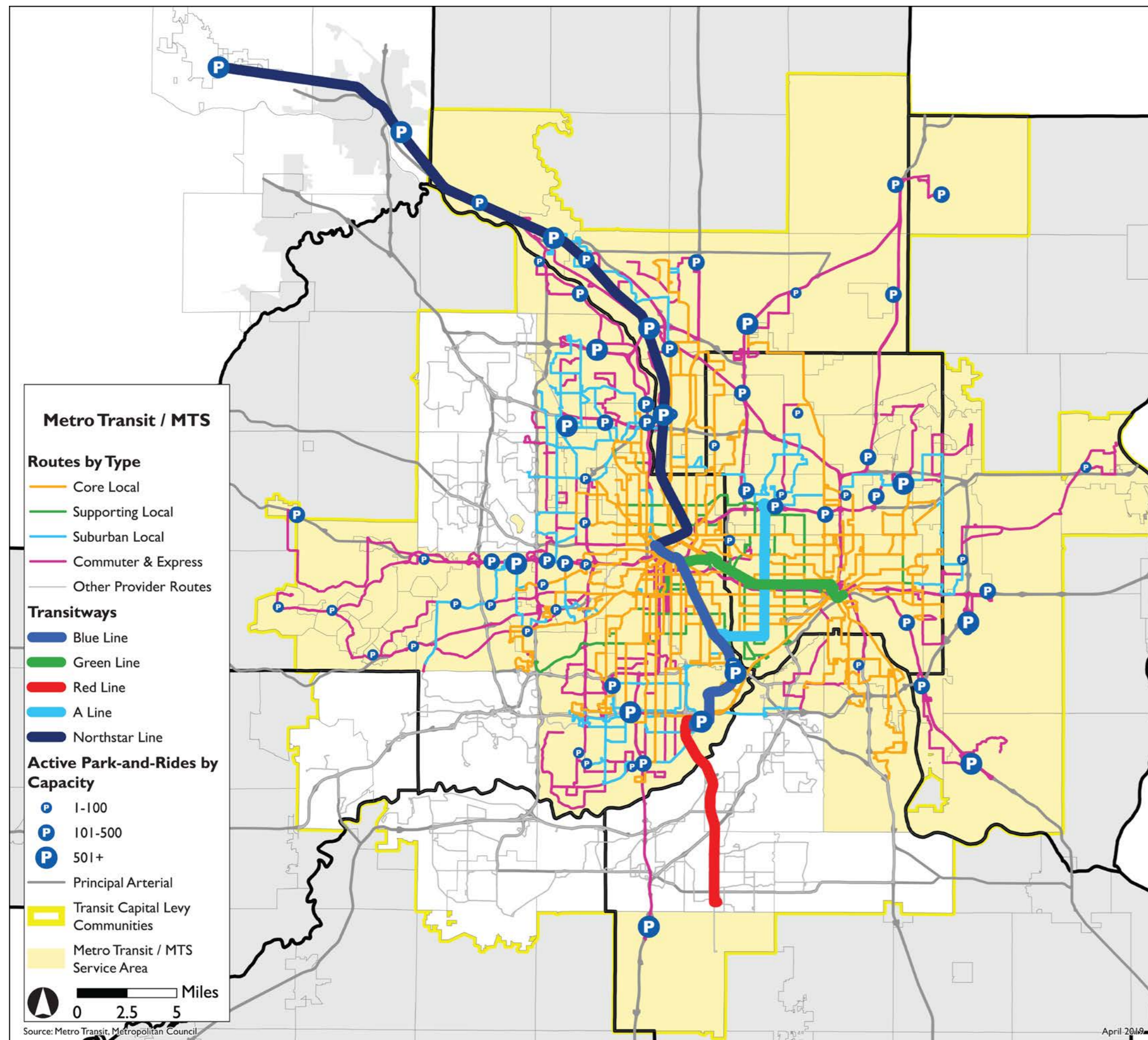


Transit Market Area Factors

- Population density
- Employment density
- Urban form (intersection density)
- Transit reliance (auto availability)

Used in Transit Service Design Guidelines and Performance Evaluation

Existing Transit System – Route Types



Regular Route Bus

- Core local
- Supporting local
- Suburban local
- Commuter and express

Dial-a-ride

- Transit Link
- Metro Mobility

Van pool

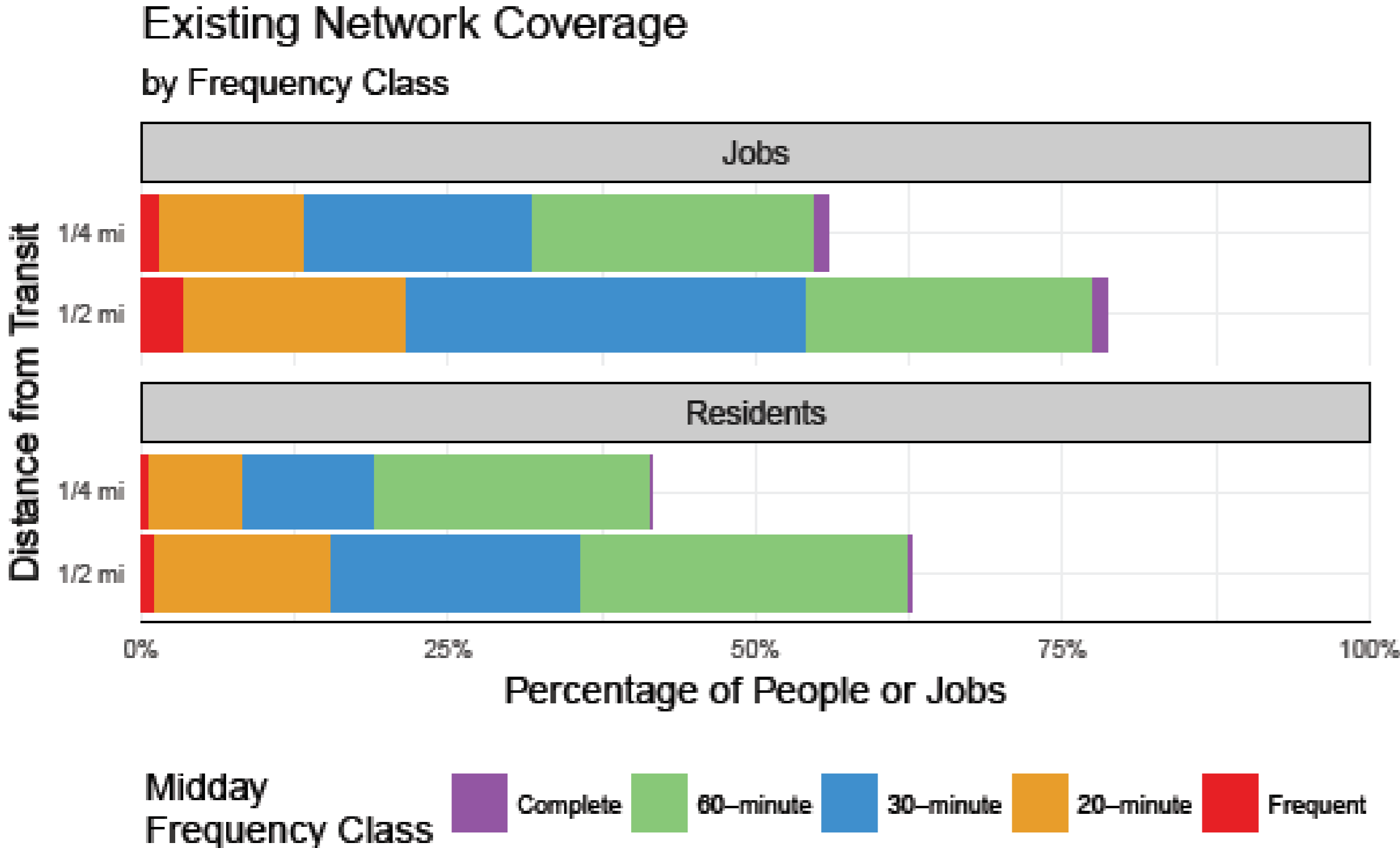
Transitways

- Light rail
- Commuter rail
- Three types of bus rapid transit

Scope of Work

- Public Outreach Analysis
- Existing Conditions Analysis
- Alternative Scenario Development and Analysis
- Coverage Service Guidelines
- Stakeholder Engagement Throughout
- Final Report

Existing Conditions



Coverage Area	Population	Pop %	Jobs	Jobs %	Service Area Higher Population Density ³	High Pop. Density %
METRO Service Area	3.5 Million	100%	1.8 Million	100%	1.1 Million	100%
Within 1/4 mile of all-day stop	1.6 Million	46%	1.2 Million	65%	752,000	70%
Within 1/4 miles of local stop, 5 miles P&R¹	4.0 Million	115%	2.5 Million	111%	1.05 Million	97%
Within 1/2 mile of 2014 light rail	105,700	3%	302,000	16%	54,000	5%
Within 1/4 mile of all-day frequent² stop	289,500	8%	475,000	26%	156,000	15%

Alternative Scenarios

Key Outcomes of the High Frequency Alternative:

5,700 more jobs are accessible in 45 minutes for the average person, a **36% increase** over the Existing Network

12,800 more jobs are accessible in 60 minutes for the average person, a **29% increase** over the Existing Network

37,300 fewer jobs are accessible within 2 hours of travel time for the average person, a **16% decrease** compared to the Existing Network

250,000 more people are within 1/2 mi of high-frequency service, a **285% increase** over the Existing Network

94,000 more jobs are within 1/2 mi walk of high-frequency service, a **151% increase** over the Existing Network

209,000 fewer people are near a transit stop served at any frequency, a **24% decrease** compared to the Existing Network.

109,000 fewer jobs are near a transit stop served at any frequency, a **22% decrease** compared to the Existing Network.

Key Outcomes of the Coverage Alternative:

About the same number of jobs would be accessible in 45 minutes for the average person.

1,600 fewer jobs would be accessible in 60 minutes for the average person, a **4% decrease** compared to the Existing Network

18,000 more jobs would be accessible within 2 hours of travel time for the average person, an **8% increase** over the Existing Network

28,000 fewer people would be within 1/2 mi walk of high-frequency service, a **21% decrease** compared to the Existing Network

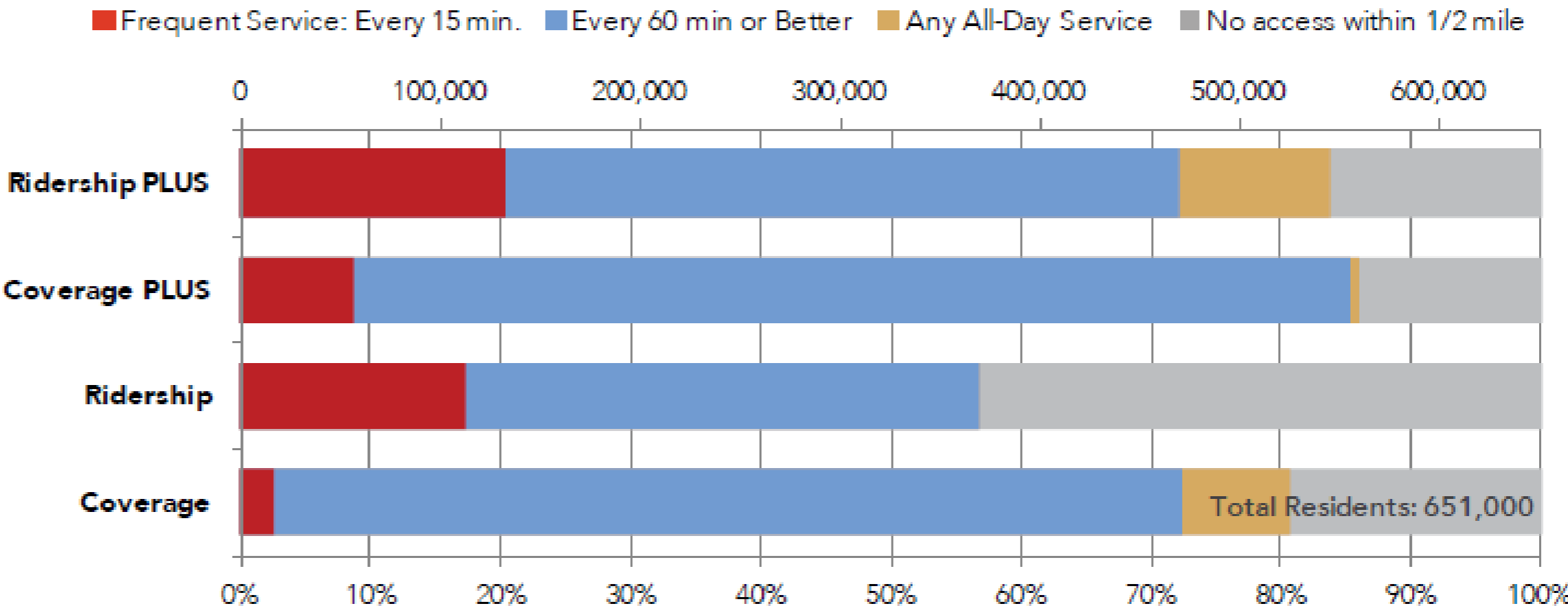
5,200 fewer jobs would be within 1/2 mi walk of high-frequency service, a **3% decrease** compared to the Existing Network

25,600 more people would be near a transit stop served at any frequency, a **3% increase** over the Existing Network

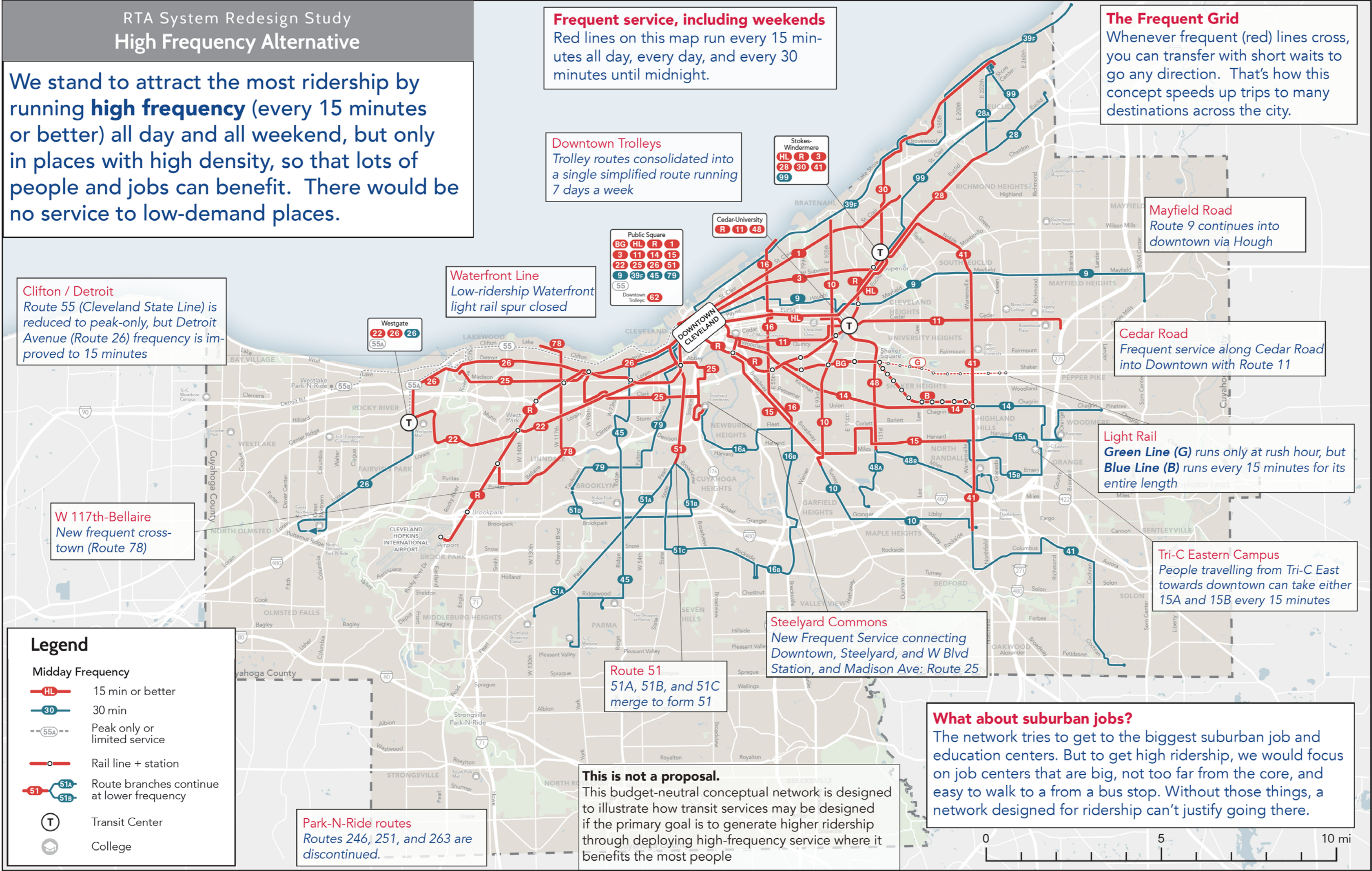
25,000 more jobs would be near a transit stop served at any frequency, a **5% increase** over the Existing Network

Residents with Access to Transit

within 1/2 mile of a Transit Route in Memphis, TN



Alternative Scenario



Workshops

- Workshops held at various points of the project
 - Existing Conditions and Methodology Review
 - Focus on what's important to know about existing system and framework for evaluation of scenarios
 - Two two-hour workshop opportunities
 - January/February 2020
 - Scenario Development and Analysis
 - Review scenario analysis and discuss trade-offs
 - Two workshops
 - March/April 2020

Service Allocation Study and Land Use

- Scenario development
 - What types of land uses or demographic areas are important to serve with coverage?
 - How can cities support transit through their land use plans?
- Evaluation
 - Land development patterns could strongly determine evaluation factors, among other things
 - Land development patterns influence transit system routing efficiency (e.g. circuitous road network limits options)
 - What evaluation factors should be used to assess whether the transit network is accomplishing regional goals?

Questions?

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