

Metro Transit Authority

Baltimore Red Line Analysis

EGR 7112 Economic/Social Equity Integrators



Advisor: Karl Schmidt Team: Iain Hunt, Ben Gilardi, Natalie Walker, Hector Cuadros

Project Overview

Overview

-Evaluate potential new light rail option running 14 miles in length with projected 55,000 daily ridership.

-Runs through East-West transportation corridor of Baltimore County/City.



Objective

-Using the STEEP model, evaluate two transit options for the East-West transportation corridor for Baltimore, MD.

-Two options include light rail, or maintaining existing auto/bus transit options.

Analysis

Social

connectivity and

reduced travel

Displacement,

gentrification,

reduced traffic

•Commuters:

Increased

•Residents:

times

Environmental

Technological

•Light rail: Not a

from auto.

• Five miles of

water table

challenge.

tunnels in high

new innovation,

but paradigm shift

presents technical

- •Greenhouse gas emissions per mile are reduced.
- However, with development and growth, overall miles traveled increases.

Economic

- •Revitalization and connectivity
- •Short and long term employment and revenue
- •If carbon is priced in the future, ROI increases.

Political

- Divisions across parties and levels of government
- •Election cycles and short term nature of politcal calculation

Conclusions & Recommendations

