# Pompano Education Corridor Transit Study

**September 3, 2015**

# Agenda Overview

- **Update on Public Involvement**
  - Results from ongoing survey
  - Outreach to Broward College
- **Plan and Materials for September Public Meetings**
- **Multi-modal Land Use Analysis Approach**
  - Walk accessibility
  - Transit accessibility
- **Tech Memos 2 and 3 comments**
- Adjourn

# Update on Public Involvement

# Public Involvement Update – Survey Results

- **14 total responses (as of Thu 7/16)**
- **50+ total responses (as of Tue 8/25)**
  - All English responses
  - Mostly age 18 and under
  - Location data on where people live and where they work/visit

- **70% of respondents <u>never</u> ride the bus**

- **Broward College students live in:**
  - North Lauderdale
  - Pompano Beach
  - Deerfield Beach
  - Margate
  - Coconut Creek
  - Coral Springs

**I would take the bus more if…**

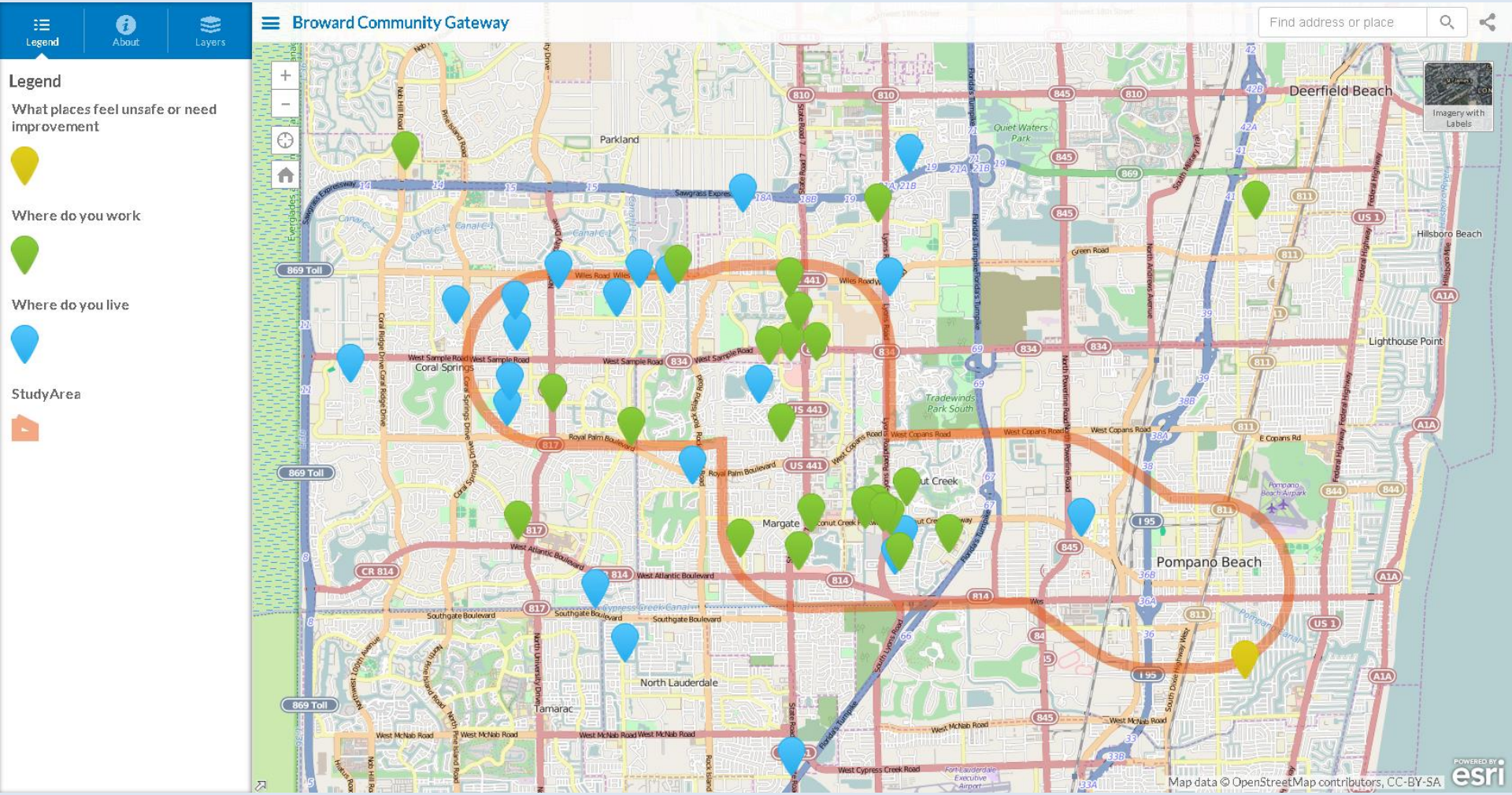
….the bus came more frequently

…the bus stopped closer to where I live/where I need to go

…there are safety/security improvements on buses

…I don't have to transfer to a second bus

# Survey Results - Location data from August responses not yet entered



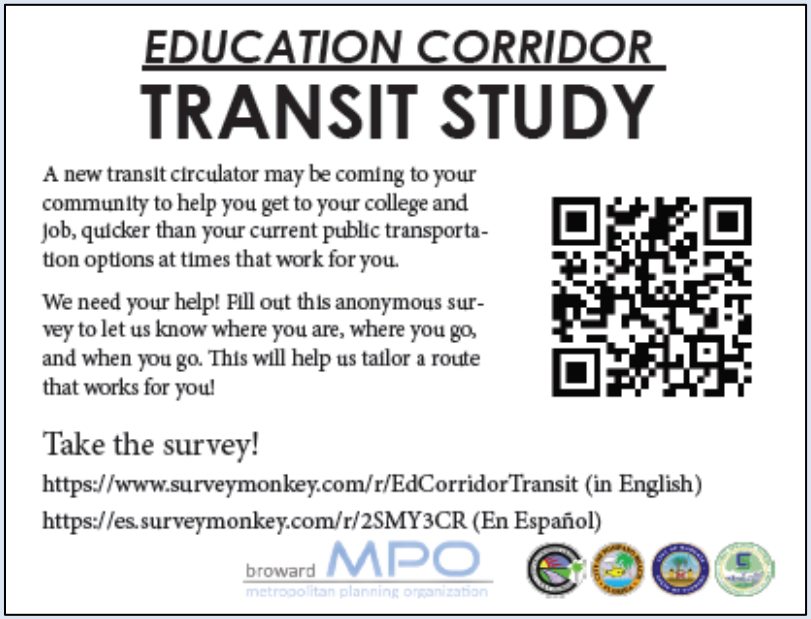
# Public Involvement Update – Additional Outreach

**Canvased Broward College First & Second Day of Class**

- More than tripled the response rate
- Cleanliness and weather protection were mentioned frequently

**September Public Meetings**

- Wednesday September 30, 2015
- 6:00 to 7:00 PM
- Larkins Community Center, Pompano Beach
- 2nd location and date TBD
- One-on-one conversations with project team
- Open house format – boards, flipcharts, comment cards
- Showcase alternatives and evaluation criteria
- Ask public "What have we missed?"
- Which features of the alternatives do you like the best?
- Not asking participants to pick an alternative



## Draft Plan and Materials for September Public Meeting(s)

# Pompano Education Corridor Transit Study

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metropolitan planning organization

## Cities' Transit Service Objectives

### 1. Improved Transit Access for Educational Institutions

- Direct Service; inter-city service

### 2. Support for Planned Development

- City Centers, Community Redevelopment Agencies (CRA)
- Improved walkability, complete streets – revitalize SR 7
- Enhanced Mobility Hubs

### 3. Continuous East – West Transit Service

- Bus (that) makes a complete end-to-end connection from a western to an eastern terminus
- Eliminate forced transfers at SR 7

# Pompano Education Corridor Transit Study

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## Study Background

2012 – City of Pompano Beach awarded a Transportation, Community, and System Preservation (TCSP) Grant from the FHWA: **$968,948**

A portion of the grant is used to fund this transit study that will examine the long-range transit opportunities that could better link the four cities (**$200,000**)

- Link educational and employment opportunities within the corridor
- Analyze various transit alternatives
- Identify funding for future implementation

# Pompano Education Corridor Transit Study

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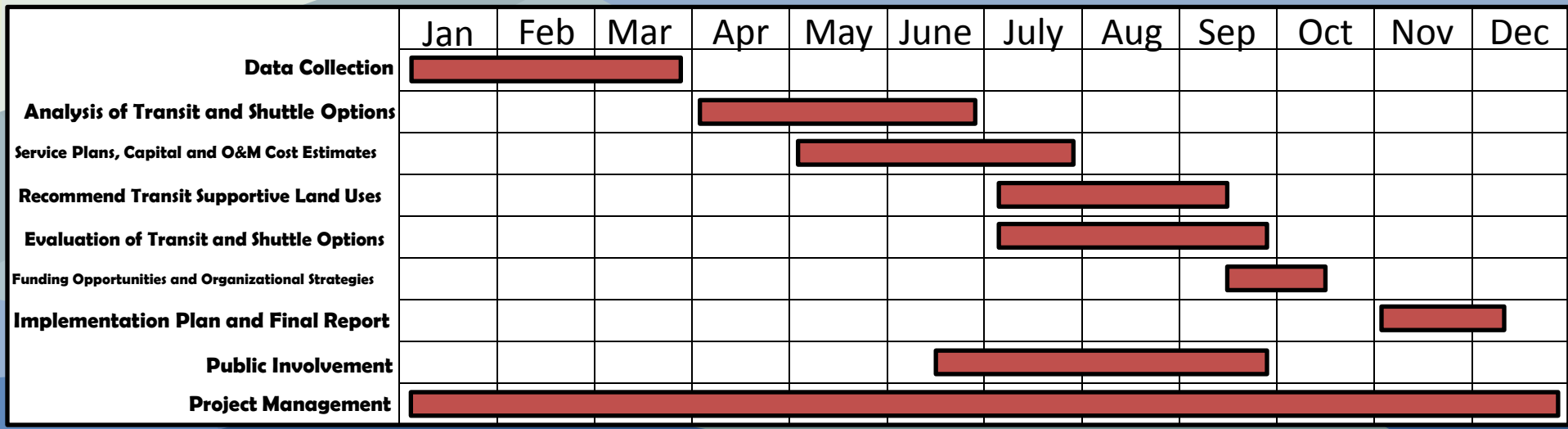
## Study Schedule



# Pompano Education Corridor Transit Study – Study Area

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| ID | Destination |
|---|---|
| 1 | Monarch High School |
| 2 | Coconut Creek High School |
| 3 | Dave Thomas Educational Center |
| 4 | Atlantic Vocational Technical Center |
| 5 | Broward College - North Campus |
| 6 | Charles Drew Elementary School |
| 7 | Markham Elementary School |
| 8 | Blanche Ely High School |
| 9 | Coral Springs High School |
| 10 | Northwest Regional County Library |
| 11 | Coconut Creek Promenade |
| 12 | Seminole Coconut Creek Casino |
| 13 | Coconut Creek Community Center |
| 14 | Northwest Regional Hospital |
| 15 | Margate Transit Terminal |
| 16 | Northeast Transit Terminal |
| 17 | Margate School of Beauty |
| 18 | Everest University |
| 19 | Sun Ed High School of North Broward |
| 20 | Broward Health Coral Springs |
| 21 | Broward College - Coral Springs Campus |

## Legend

**Type**

- Activity Center
- Charter School
- Health Care
- Library
- Public School
- Secondary Education
- Transit Terminal
- Education Corridor Study Area

0 2 Miles

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

# Pompano Education Corridor Transit Study – Alternative #1

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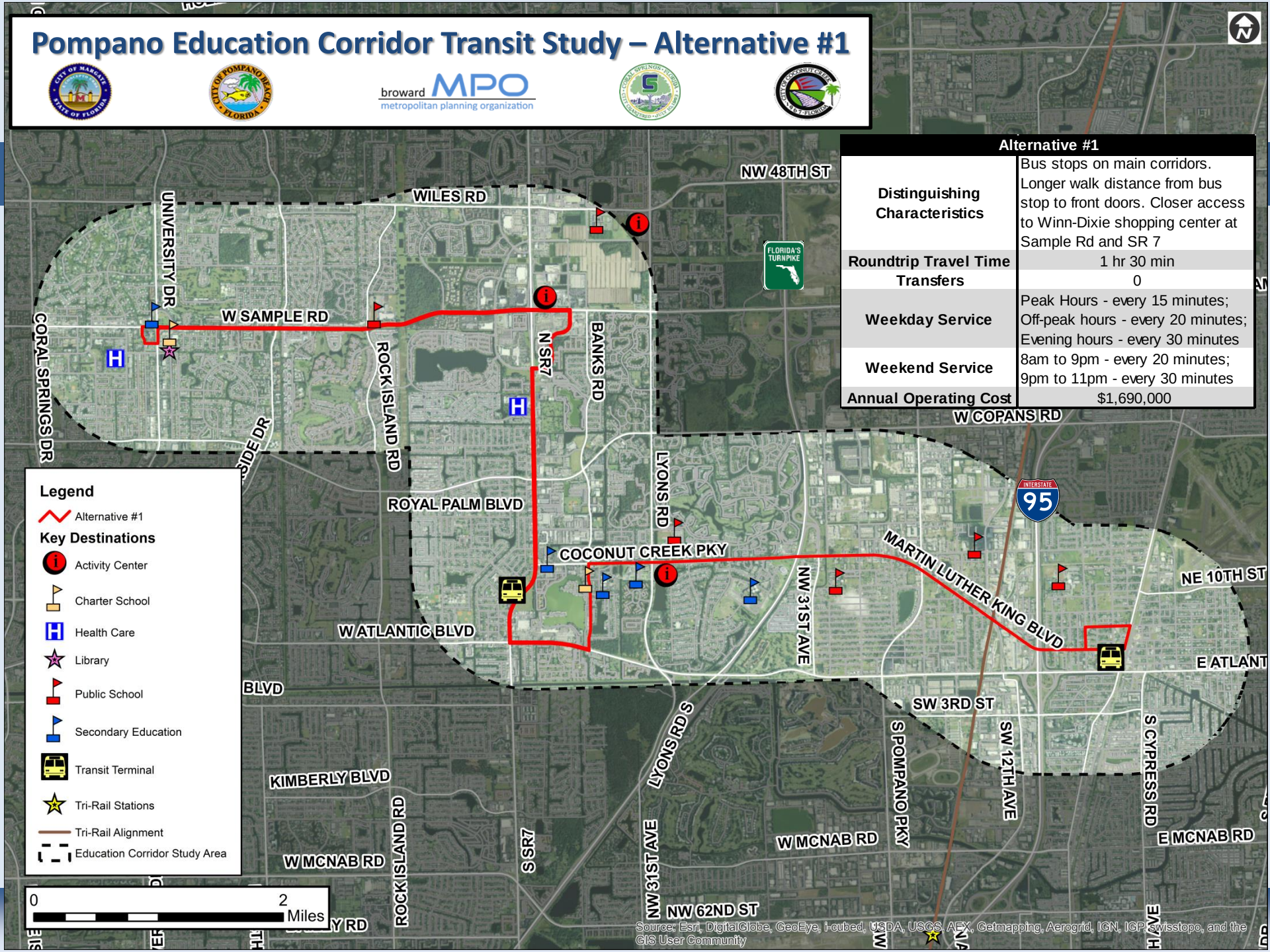
| Alternative #1 | |
|---|---|
| Distinguishing Characteristics | Bus stops on main corridors. Longer walk distance from bus stop to front doors. Closer access to Winn-Dixie shopping center at Sample Rd and SR 7 |
| Roundtrip Travel Time | 1 hr 30 min |
| Transfers | 0 |
| Weekday Service | Peak Hours - every 15 minutes; Off-peak hours - every 20 minutes; Evening hours - every 30 minutes |
| Weekend Service | 8am to 9pm - every 20 minutes; 9pm to 11pm - every 30 minutes |
| Annual Operating Cost | $1,690,000 |



# Pompano Education Corridor Transit Study – Alternative #2

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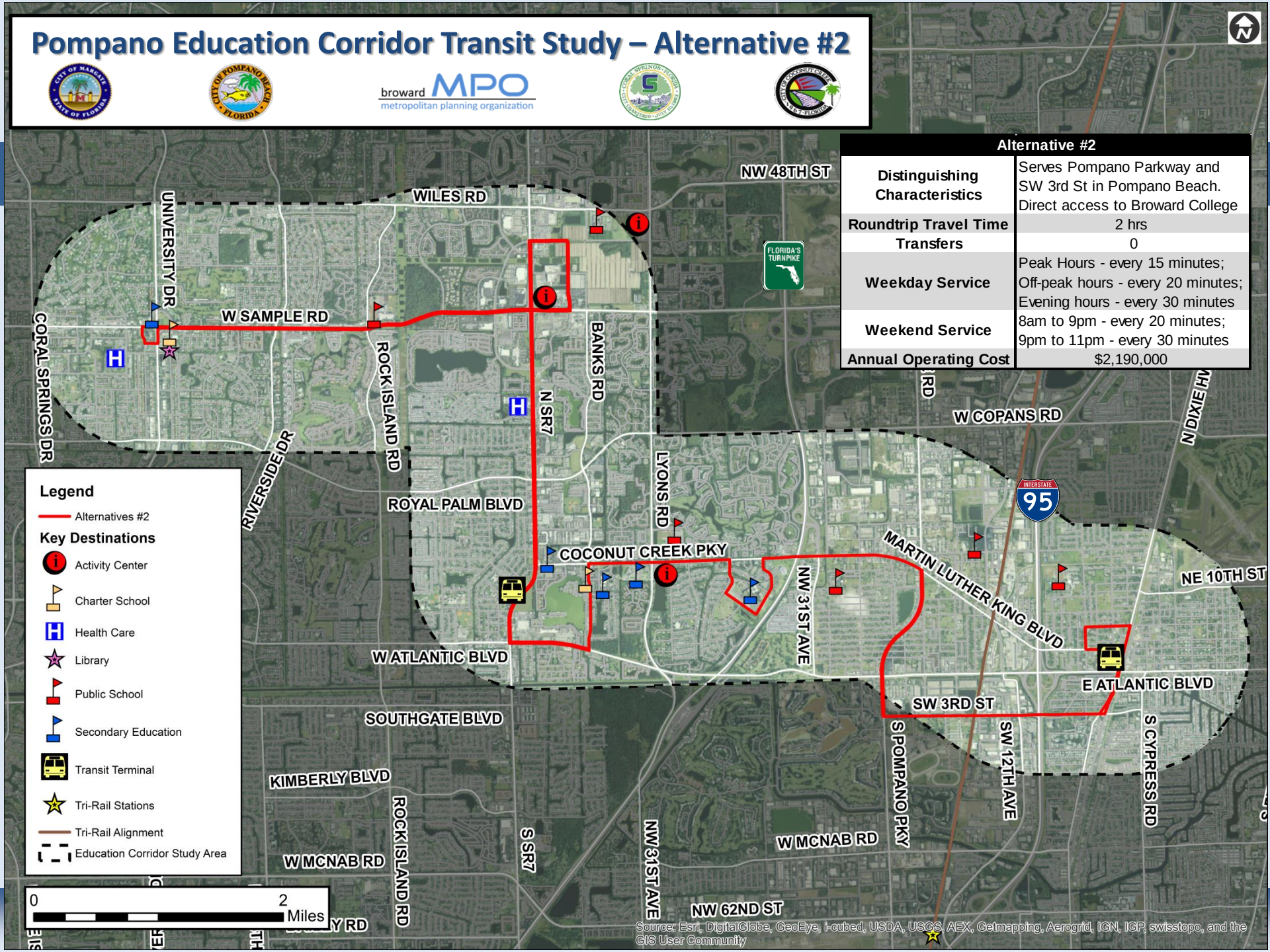
| Alternative #2 | |
|---|---|
| Distinguishing Characteristics | Serves Pompano Parkway and SW 3rd St in Pompano Beach. Direct access to Broward College |
| Roundtrip Travel Time | 2 hrs |
| Transfers | 0 |
| Weekday Service | Peak Hours - every 15 minutes; Off-peak hours - every 20 minutes; Evening hours - every 30 minutes |
| Weekend Service | 8am to 9pm - every 20 minutes; 9pm to 11pm - every 30 minutes |
| Annual Operating Cost | $2,190,000 |



# Pompano Education Corridor Transit Study – Alternative #3

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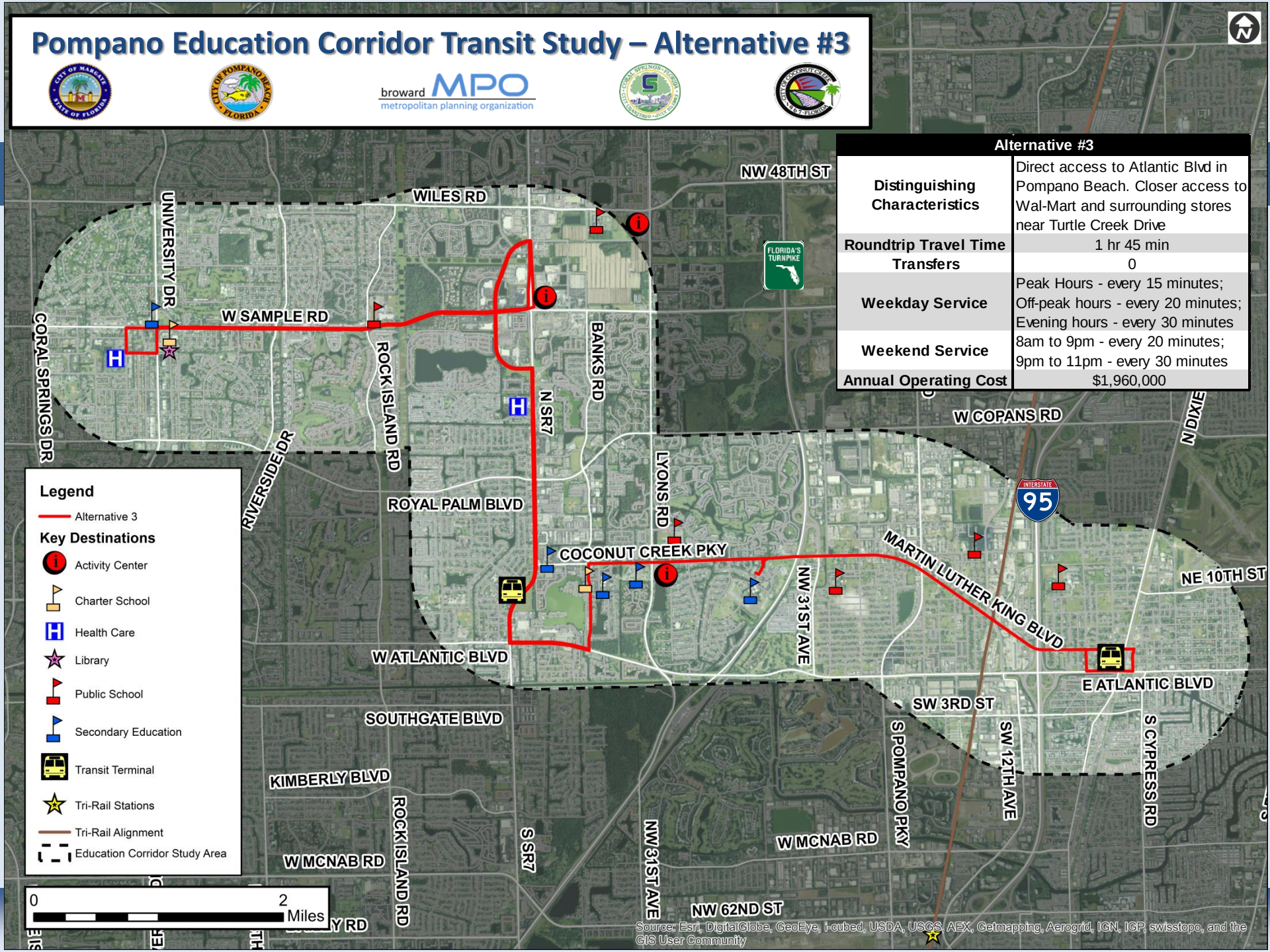


| Alternative #3 | |
|---|---|
| Distinguishing Characteristics | Direct access to Atlantic Blvd in Pompano Beach. Closer access to Wal-Mart and surrounding stores near Turtle Creek Drive |
| Roundtrip Travel Time | 1 hr 45 min |
| Transfers | 0 |
| Weekday Service | Peak Hours - every 15 minutes; Off-peak hours - every 20 minutes; Evening hours - every 30 minutes |
| Weekend Service | 8am to 9pm - every 20 minutes; 9pm to 11pm - every 30 minutes |
| Annual Operating Cost | $1,960,000 |

# Pompano Education Corridor Transit Study – Route Deviations in Coconut Creek

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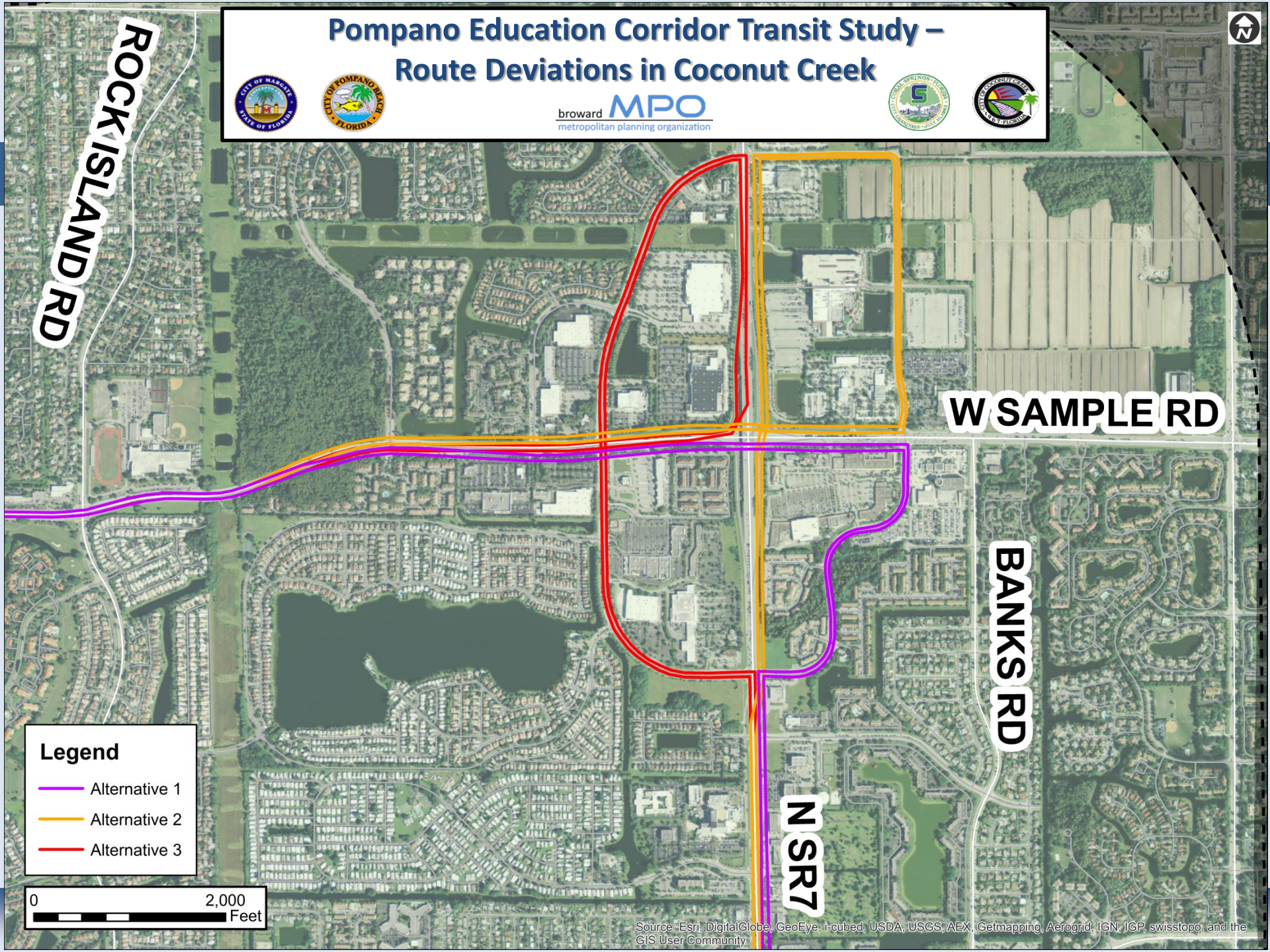
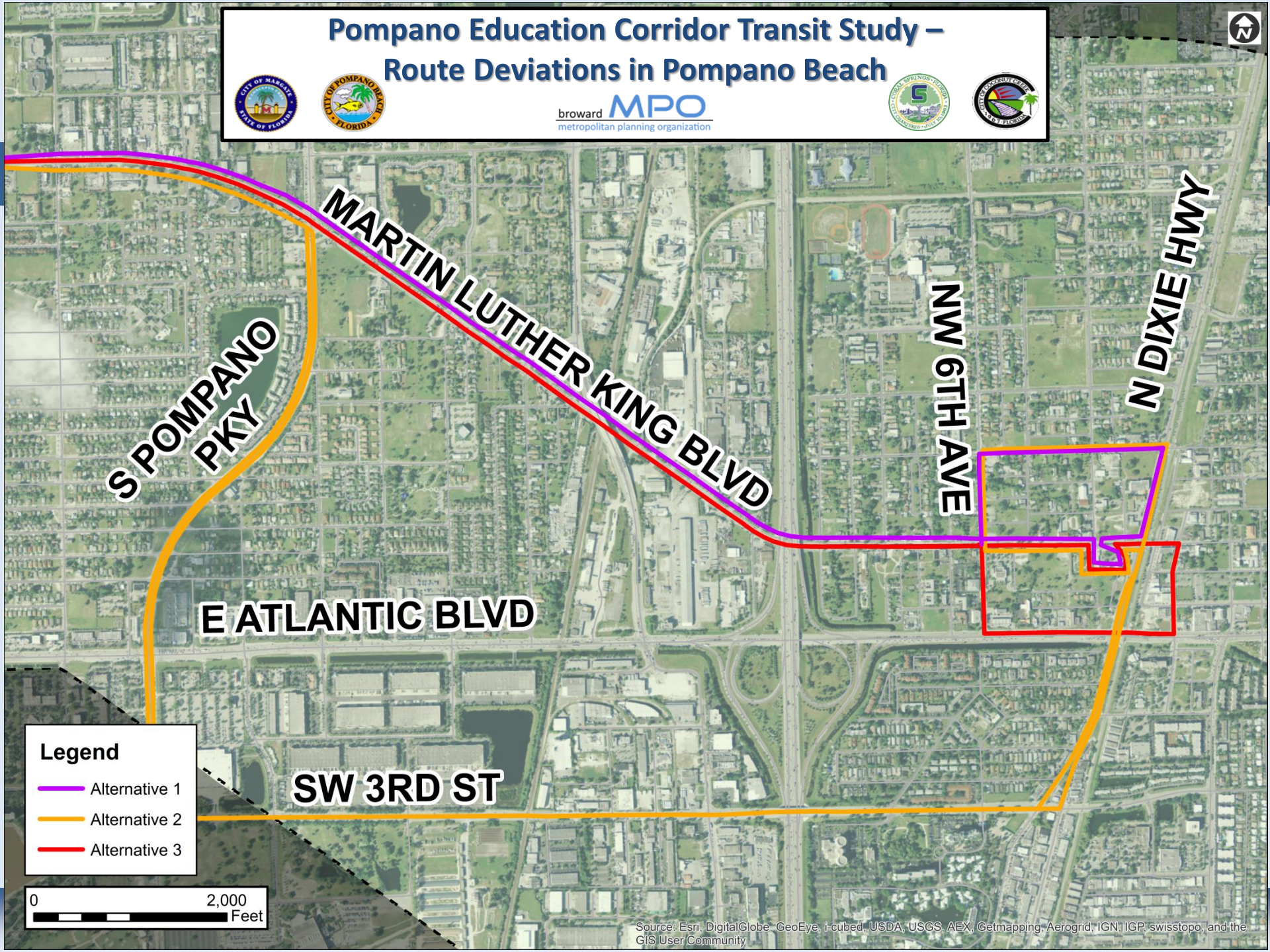
metropolitan planning organization



# Pompano Education Corridor Transit Study – Route Deviations in Pompano Beach

broward MPO
metropolitan planning organization



# Multi-modal Land Use Analysis Approach

# Land Use Analysis – Multimodal Accessibility

- **Access to Education and Employment opportunities**
  - Study purpose: increase access to opportunities

- **Accessibility Analysis**
  - Identify 'hot spots' and 'cool spots' of accessibility
    - Areas lacking in destinations nearby
    - Areas lacking in network connectivity
  - Evaluate existing plans, policies, and land development regulations
  - Recommend changes to increase accessibility and support the future transit service

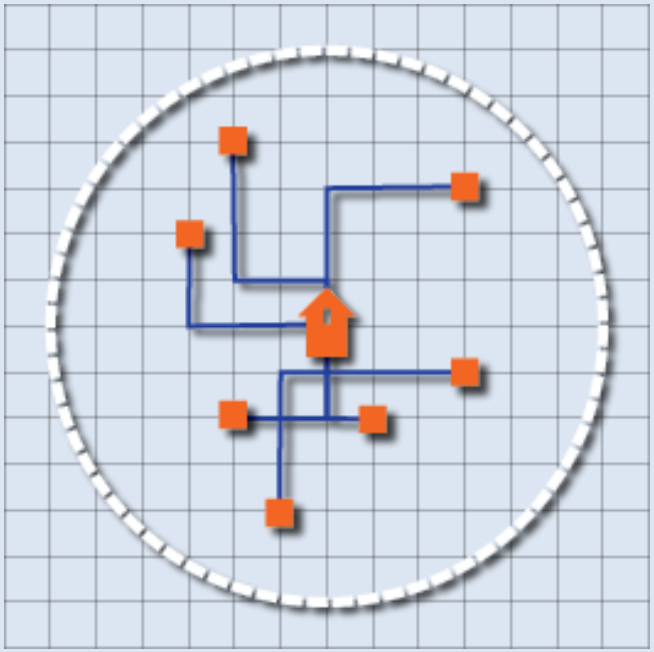
**ACCESSIBILITY =** $\frac{\text{Destinations}}{\text{Travel Time}}$

Destination Inputs:
- **Key Destinations**
- Employment
- Population
- Individual job sectors
- Socio-economic groups

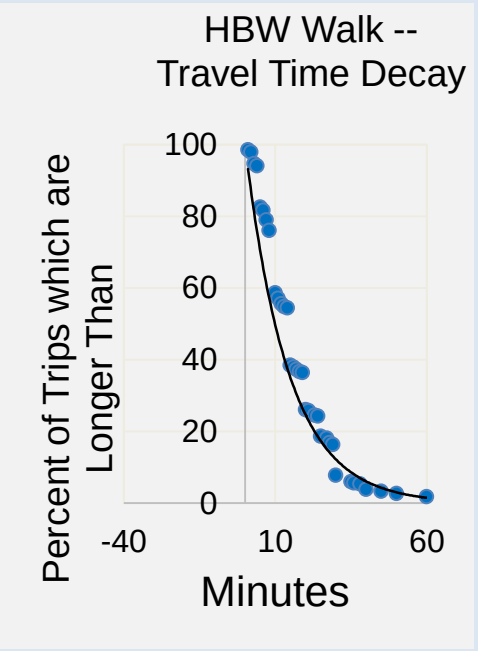
Travel Time Inputs:
- Transportation network
- Travel mode
- Distance Decay

# Accessibility Score Calculation

Step 1: Find opportunities within reach

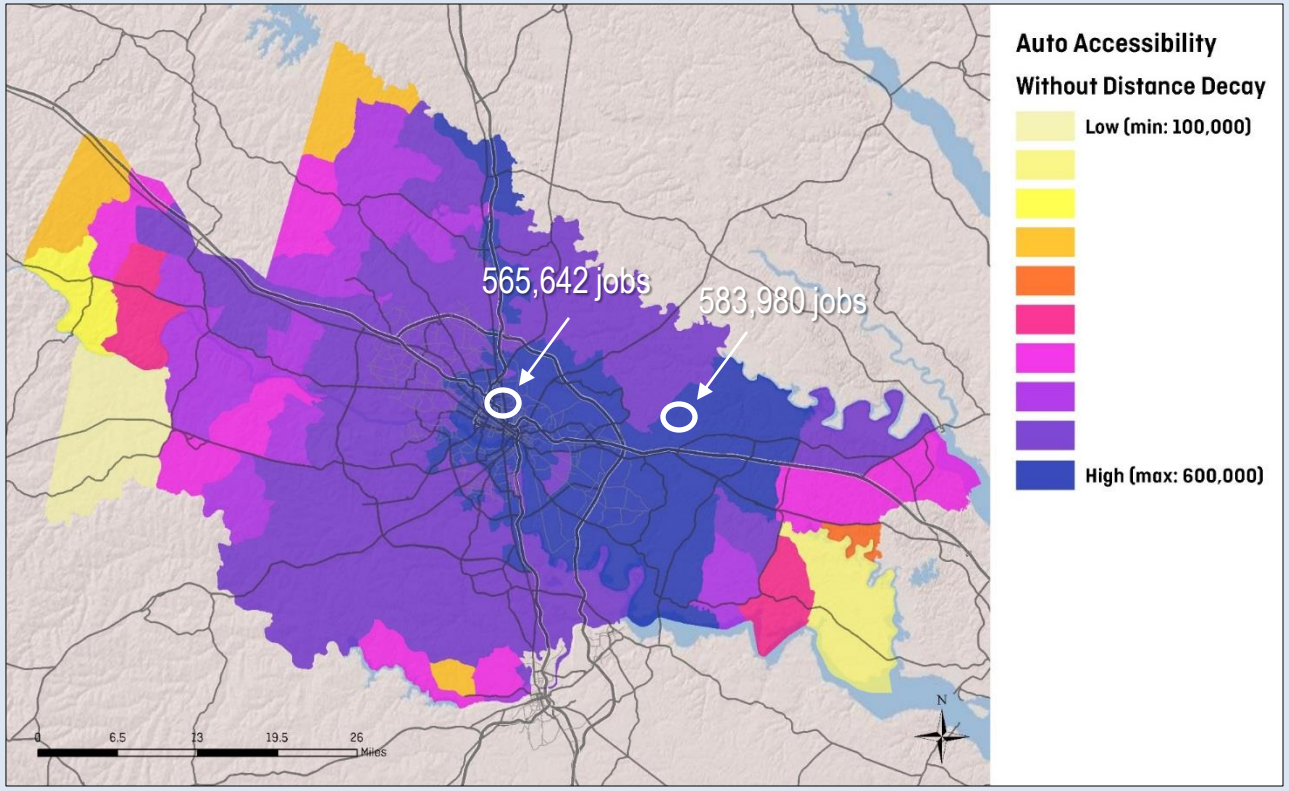


Step 2: Calculate "value" of each opportunity



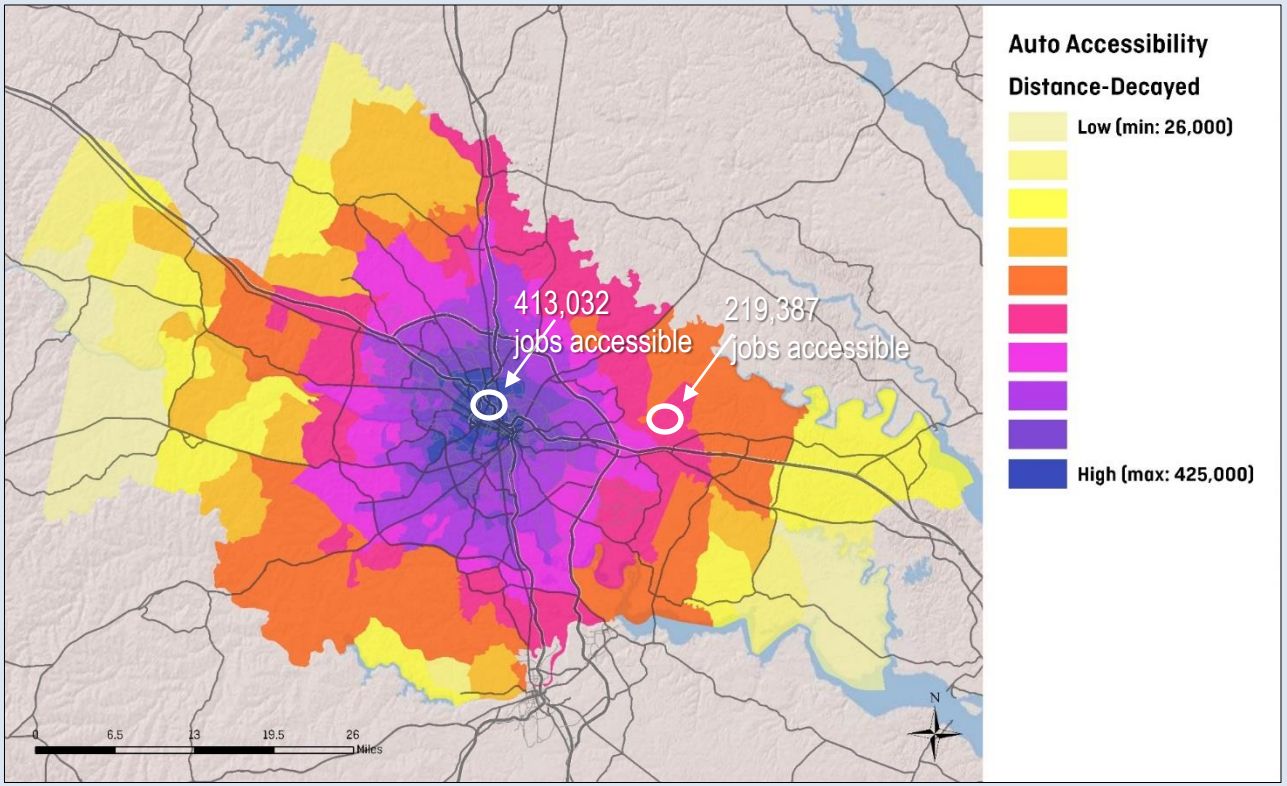

- Accessibility score is the sum of **all opportunities reachable in a period of time**
- Accessibility score also includes a **decay factor** based on travel survey data showing that people value closer opportunities more highly

# The Role of Distance Decay



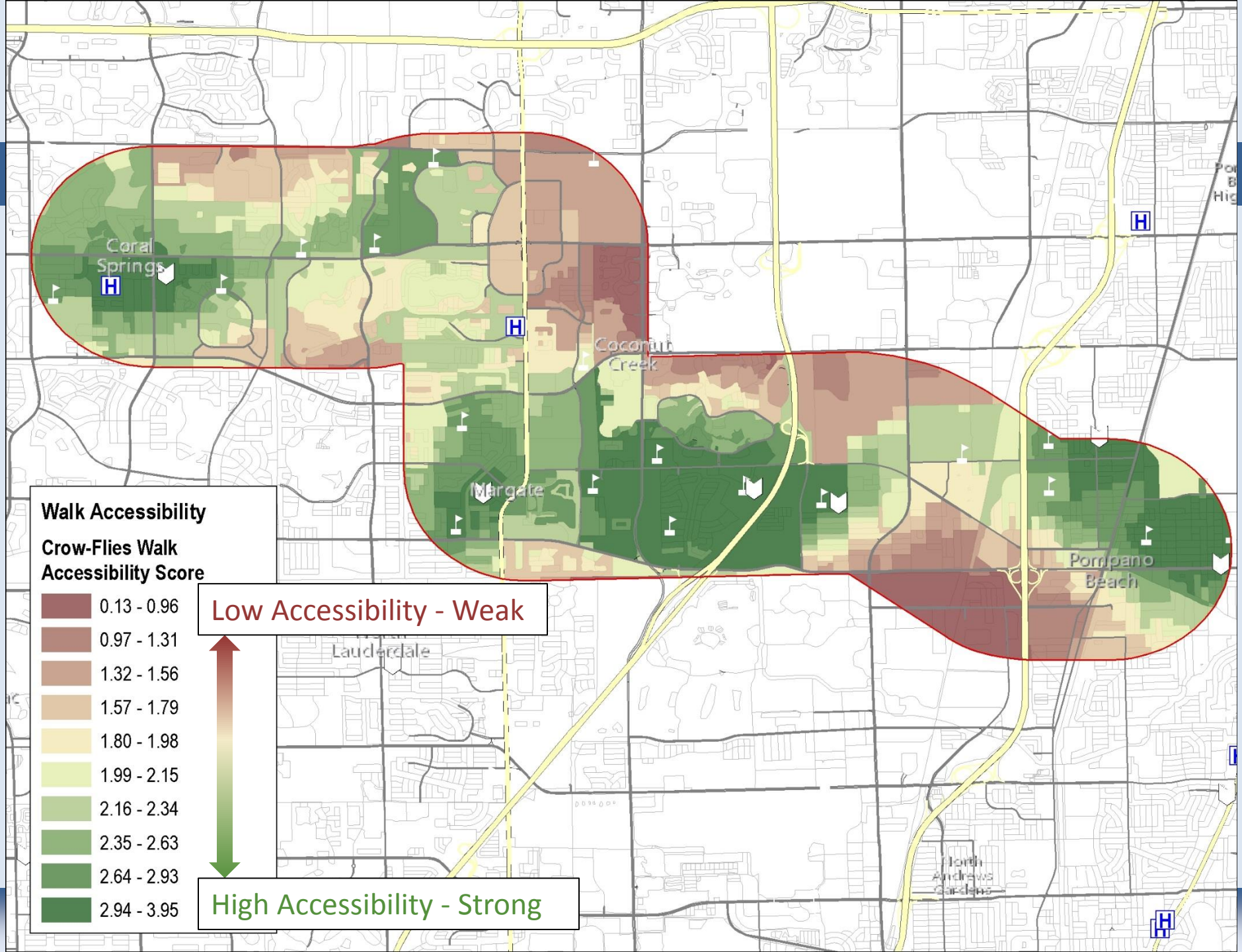

- Accessibility in Richmond region – Without Decay
- Without distance decay, the highway network is a primary influencer of access to opportunities

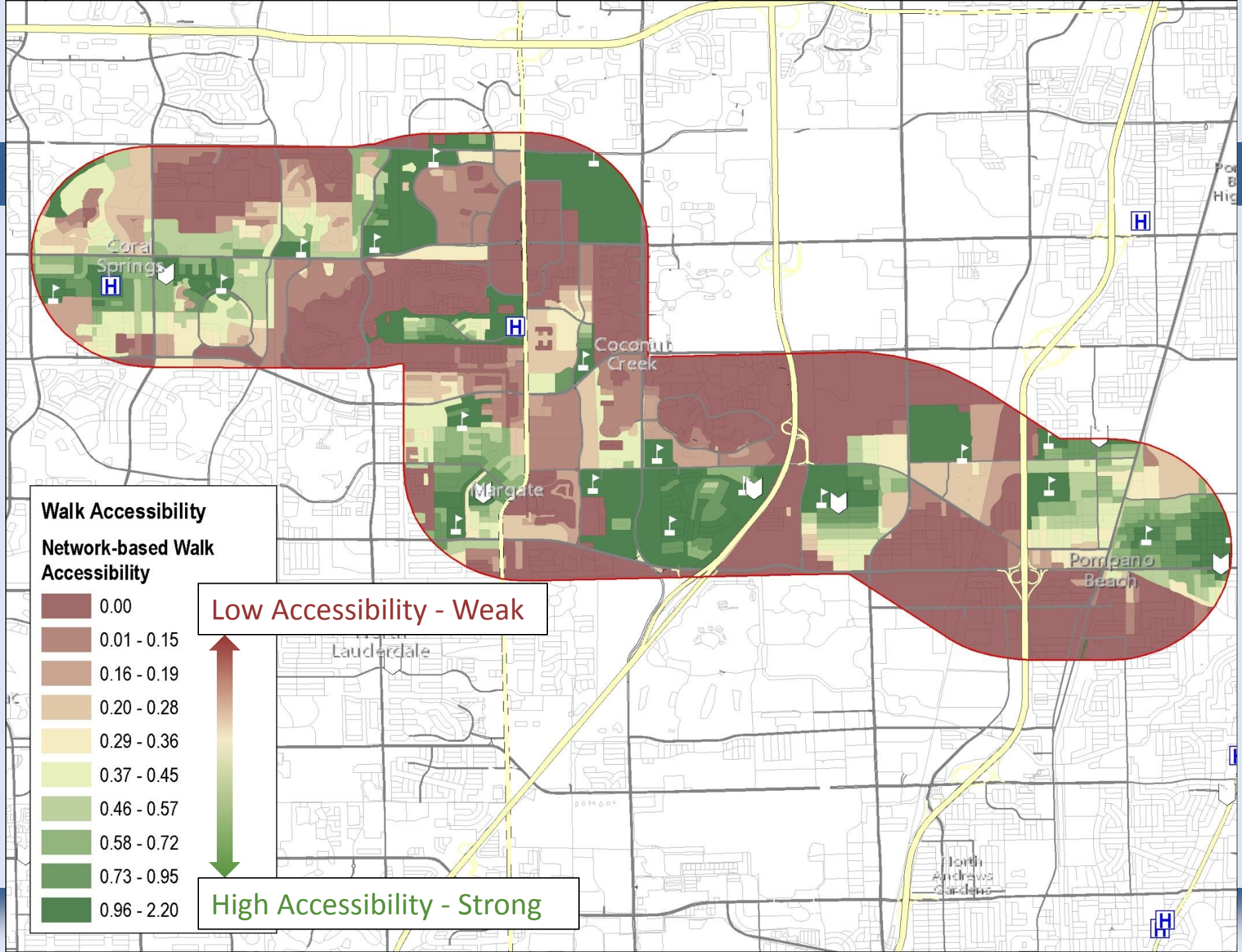
# The Role of Distance Decay

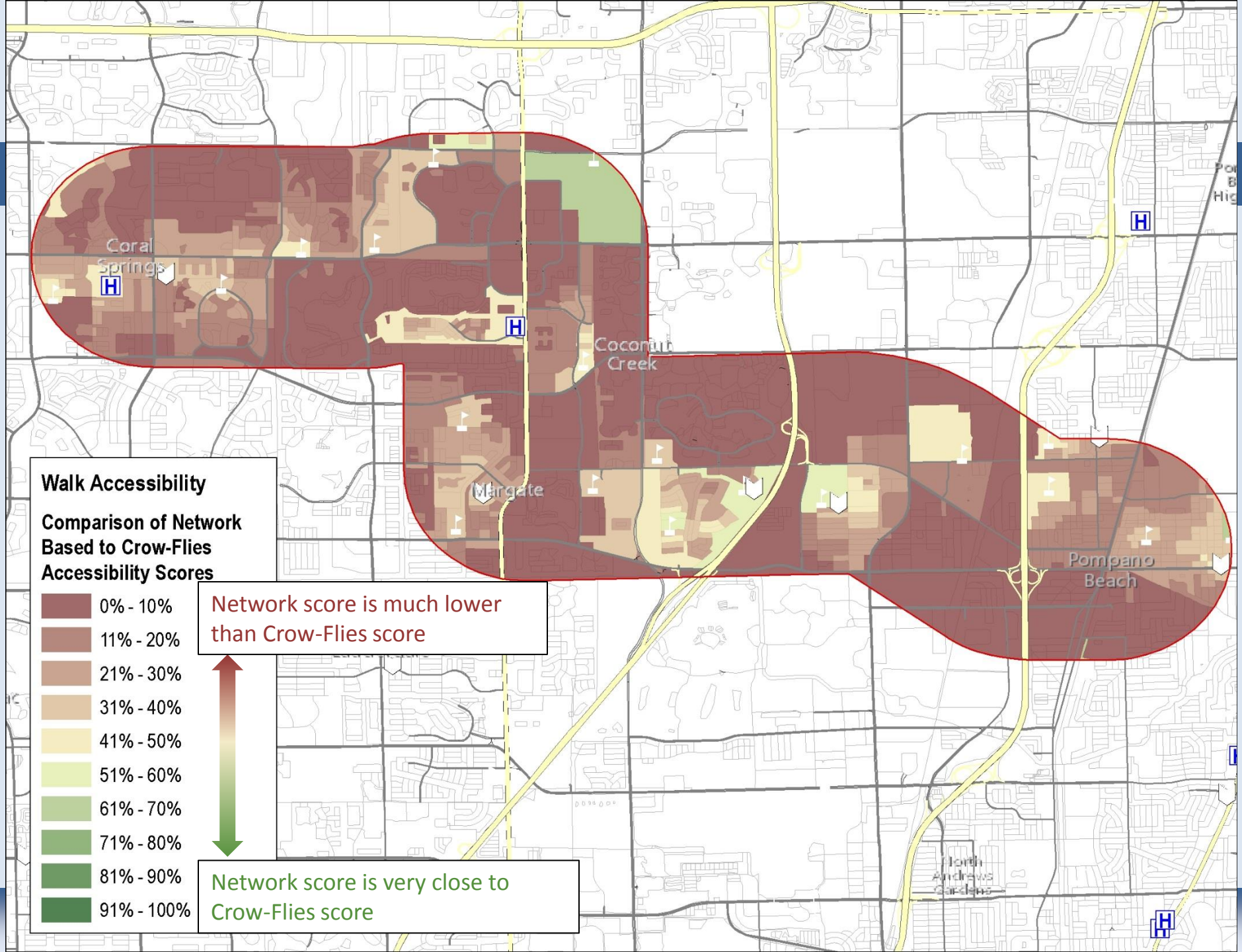


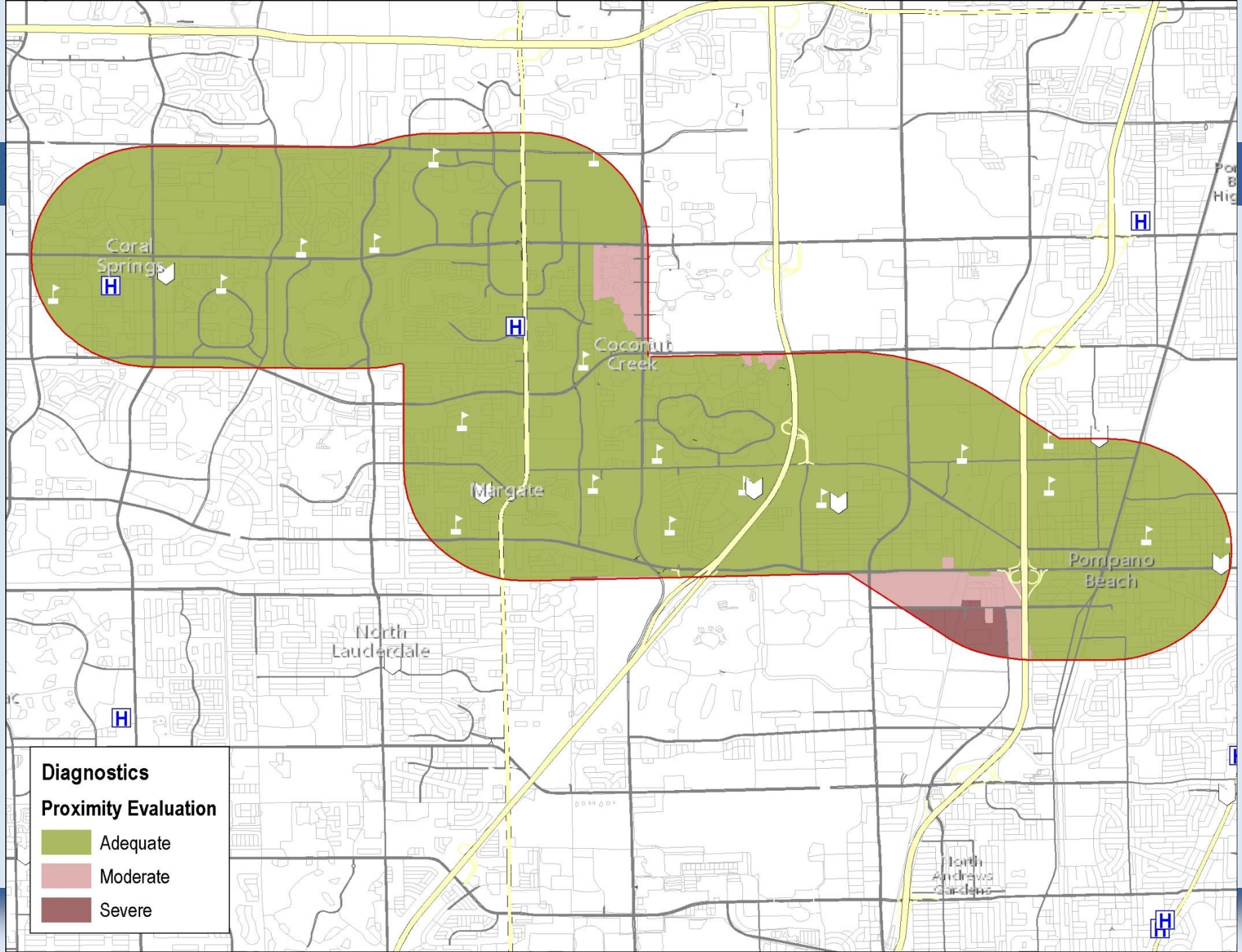

- With distance decay, places that have closer access to opportunity are emphasized
- Distance decay **quantifies the role of proximity**

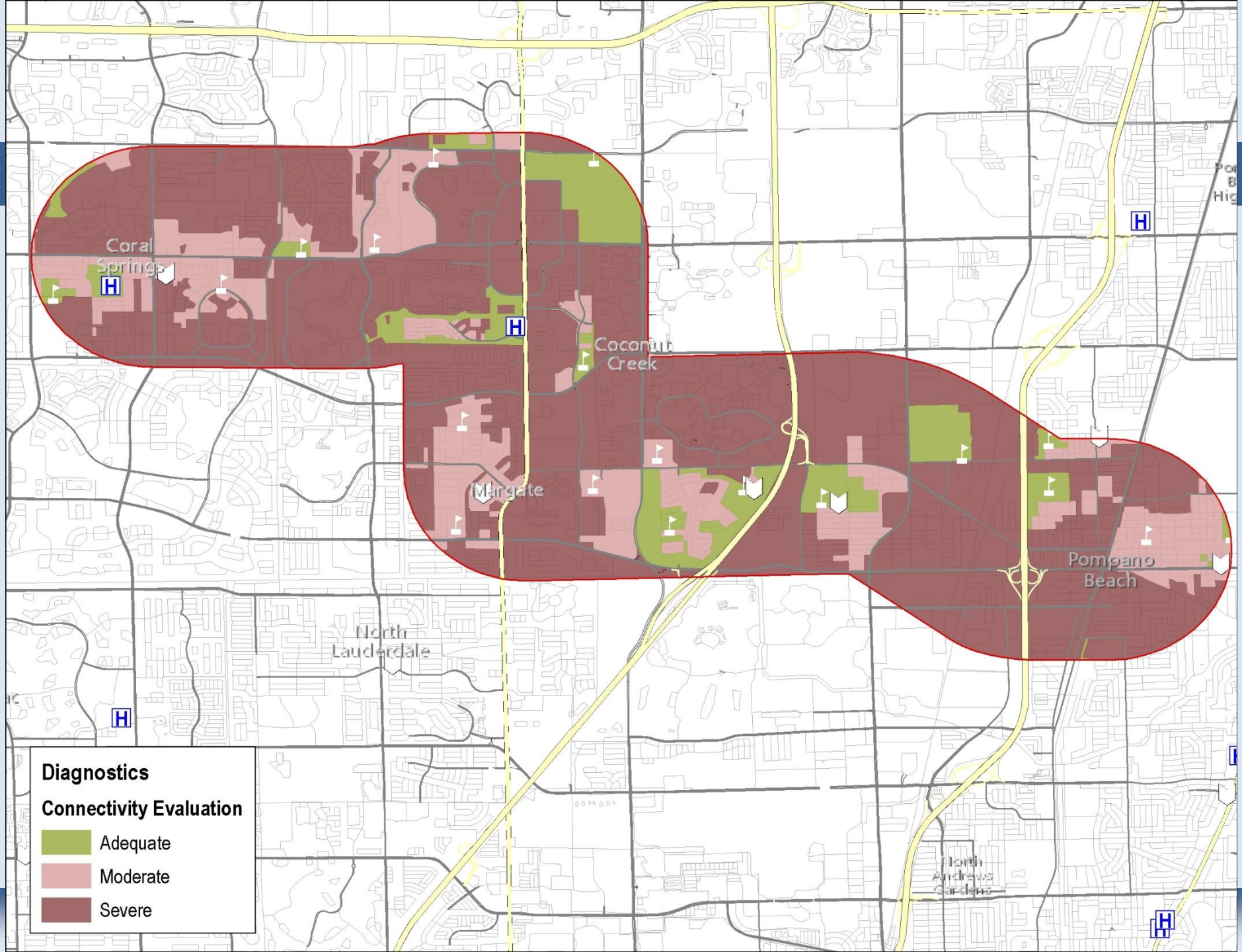
MEASURING ACCESSIBILITY

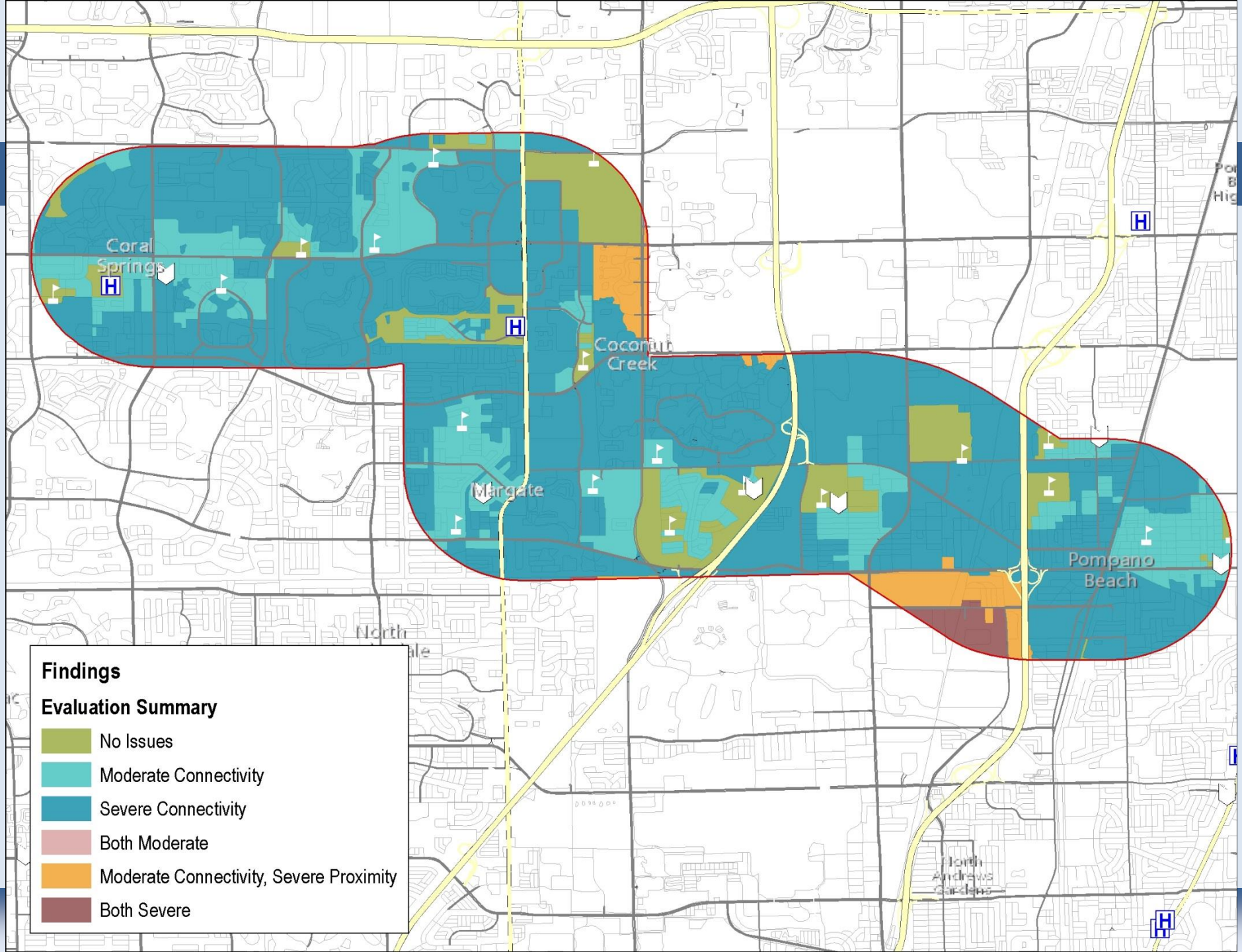

Coral Springs
Coconut Creek
Margate
Pompano Beach
Lauderdale
Walk Accessibility
Crow-Flies Walk Accessibility Score
0.13 - 0.96
0.97 - 1.31
1.32 - 1.56
1.57 - 1.79
1.80 - 1.98
1.99 - 2.15
2.16 - 2.34
2.35 - 2.63
2.64 - 2.93
2.94 - 3.95
Low Accessibility - Weak
High Accessibility - Strong

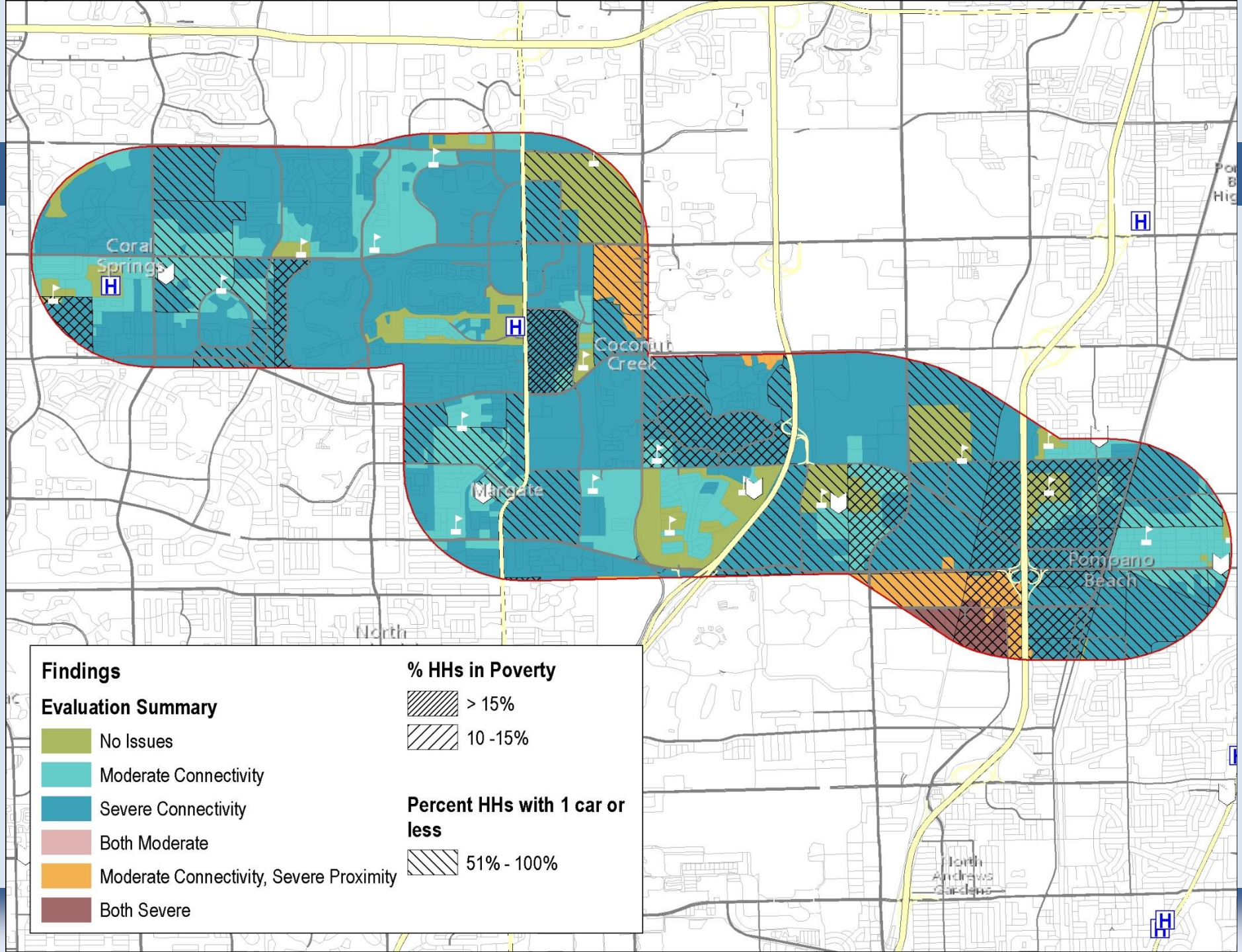

Walk Accessibility
Network-based Walk Accessibility
0.00
0.01 - 0.15
0.16 - 0.19
0.20 - 0.28
0.29 - 0.36
0.37 - 0.45
0.46 - 0.57
0.58 - 0.72
0.73 - 0.95
0.96 - 2.20
Low Accessibility - Weak
High Accessibility - Strong
Coral Springs
Coconut Creek
Margate
Pompano Beach
Lauderdale


Coral Springs
Coconut Creek
Margate
Pompano Beach
Walk Accessibility
Comparison of Network Based to Crow-Flies Accessibility Scores
0% - 10%
11% - 20%
21% - 30%
31% - 40%
41% - 50%
51% - 60%
61% - 70%
71% - 80%
81% - 90%
91% - 100%
Network score is much lower than Crow-Flies score
Network score is very close to Crow-Flies score


Coral Springs
Coconut Creek
Margate
Pompano Beach
North Lauderdale
Diagnostics
Proximity Evaluation
Adequate
Moderate
Severe


Coral Springs
Coconut Creek
Margate
Pompano Beach
North Lauderdale
Diagnostics
Connectivity Evaluation
Adequate
Moderate
Severe


Coral Springs
Coconut Creek
Margate
Pompano Beach
Findings
Evaluation Summary
No Issues
Moderate Connectivity
Severe Connectivity
Both Moderate
Moderate Connectivity, Severe Proximity
Both Severe


Coral Springs
Coconut Creek
Margate
Pompano Beach
North
Findings
Evaluation Summary
No Issues
Moderate Connectivity
Severe Connectivity
Both Moderate
Moderate Connectivity, Severe Proximity
Both Severe
% HHs in Poverty
> 15%
10 -15%
Percent HHs with 1 car or less
51% - 100%

# Land Use Accessibility Analysis

## Next Steps

- Analyze transit accessibility
  - Existing service
  - With proposed new service
- Examine land development regulations and zoning codes
- Develop recommendations for ‘cool spots’
  - Increase density and diversity of opportunities
  - Require greater connectivity standards

# Comments on Tech Memos 2 and 3

# Next Steps

- Public Outreach Meeting(s)
  - Wednesday September 30, 2015 – 6pm to 7pm
  - Larkins Community Center, Pompano Beach
  - 2nd location and date TBD
- Complete Tech Memo 4 and Tech Memo 5
- Next project management team meeting – September 24