Hillsborough County MPO Transit Study

Leadership Team

August 20, 2007

Tampa International Airport

Meeting Agenda

- Technology Choices
- Needs and Opportunities
- Transit Concepts
- Comparative Land Use Analysis
- Measures of Effectiveness
- System Design Issues
- Current Activities and Next Steps

Technology Choices

Heavy Rail

New York

marta
Atlanta

Minnesota Avenue
Washington DC
2004 © Robert Barrows

Light Rail

Charlotte

Houston

Minneapolis

Commuter Rail

South Florida

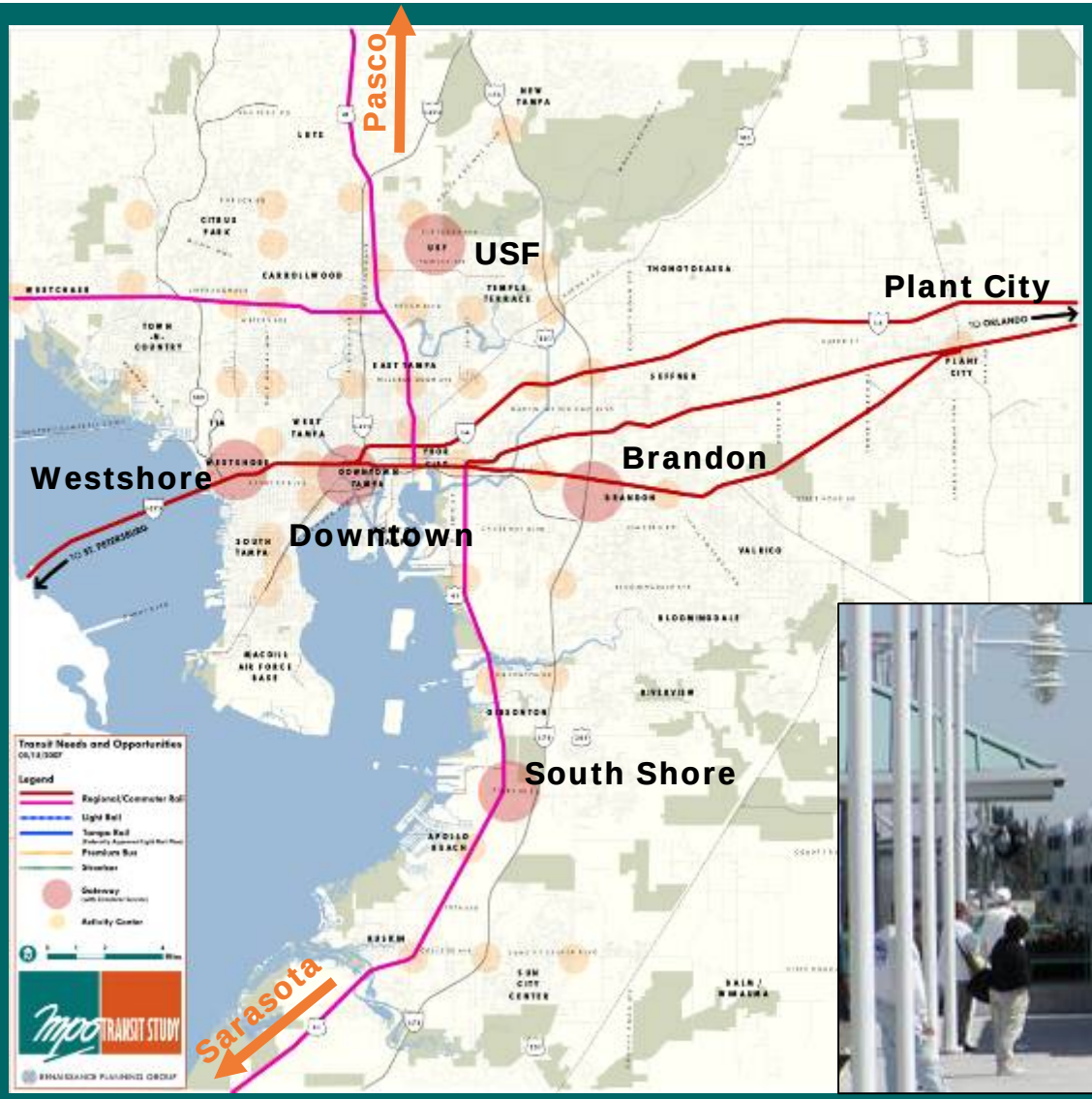
Charlotte

Chicago

DMU VS. Conventional Commuter Rail

Needs and Opportunities

Regional Rail Opportunities



- Existing CSX or New Track
- Peak Travel
- Park & Ride Lots

Light Rail Opportunities

- New Track or Existing Track
- Continuous Service
- Links Major Centers

Activity Center

Gateway

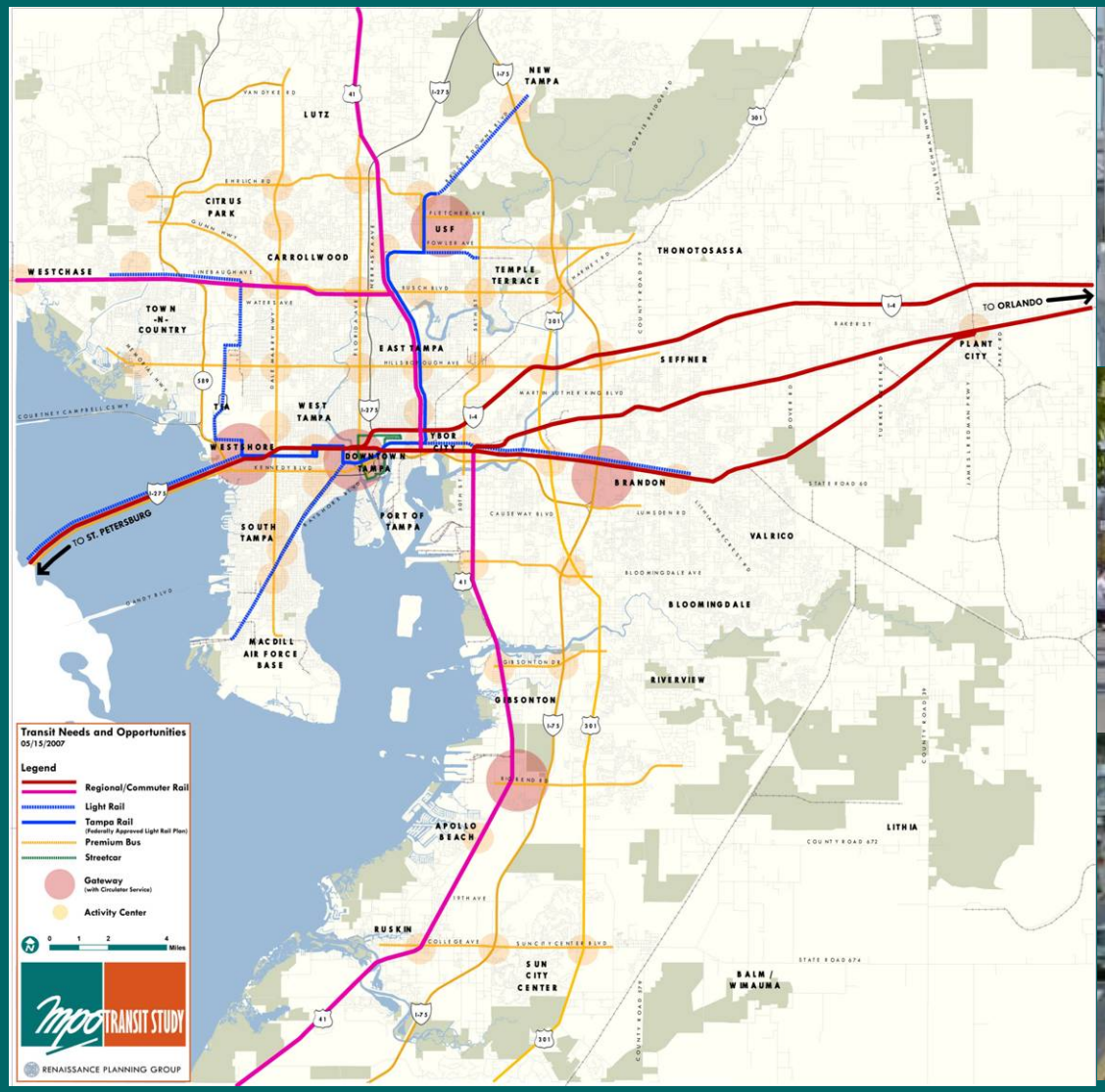
Bus Opportunities

- BRT - Dedicated Lane or Traffic Priority
- Express Service

Activity Center

Gateway

Transit Needs & Opportunities

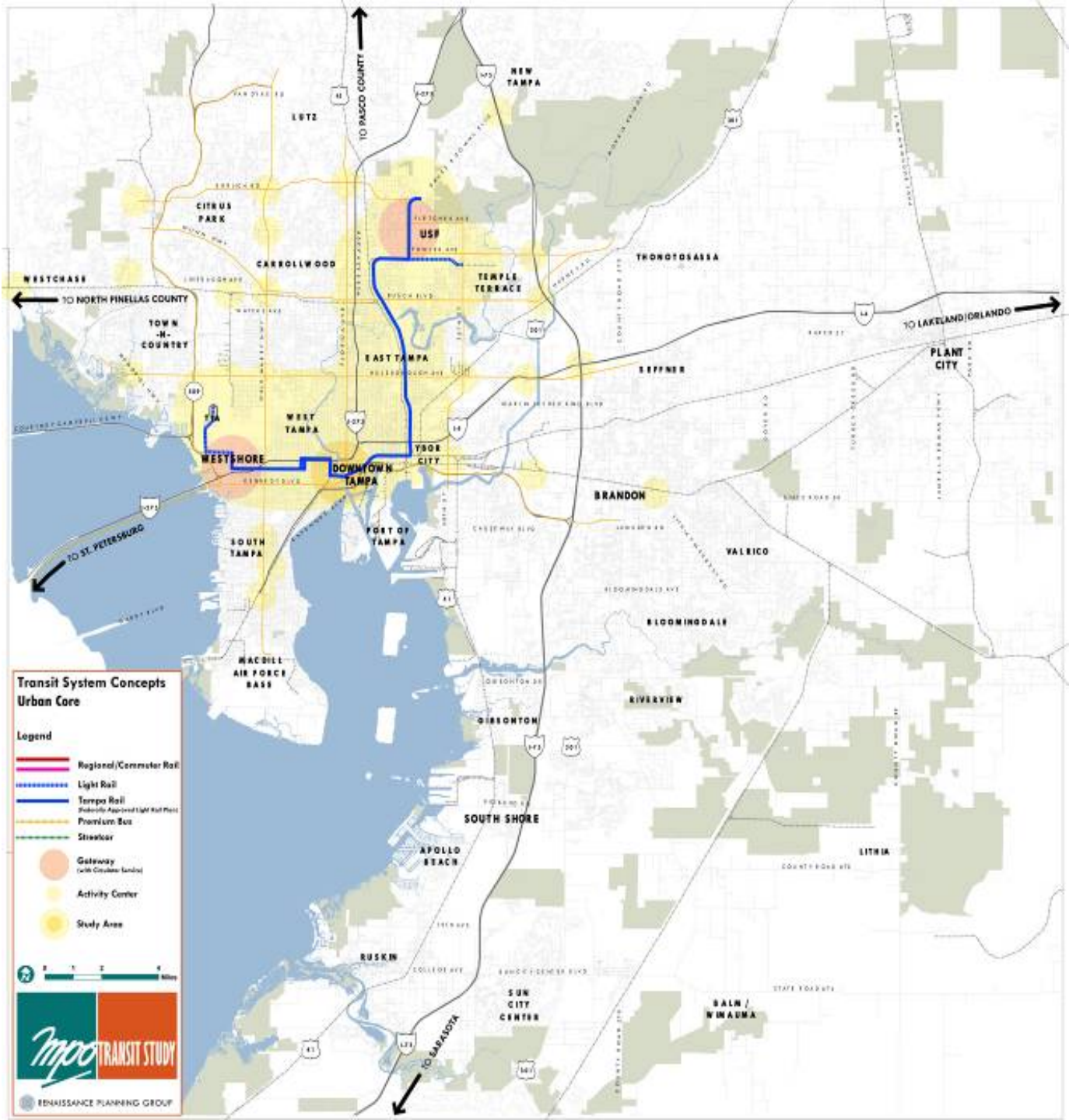


Transit Concepts

MPO TRANSIT STUDY

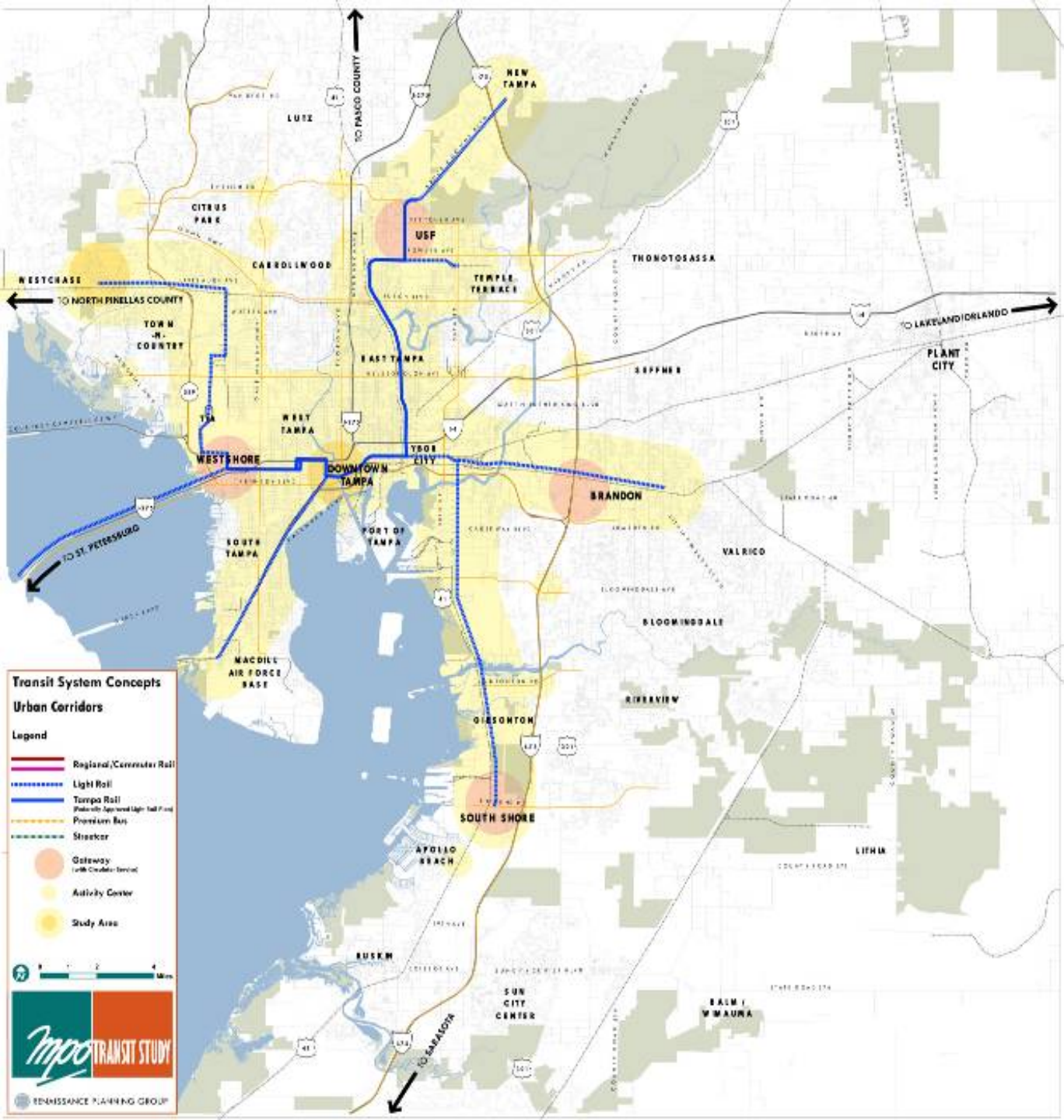
Concept A:

Diagram



Concept B:

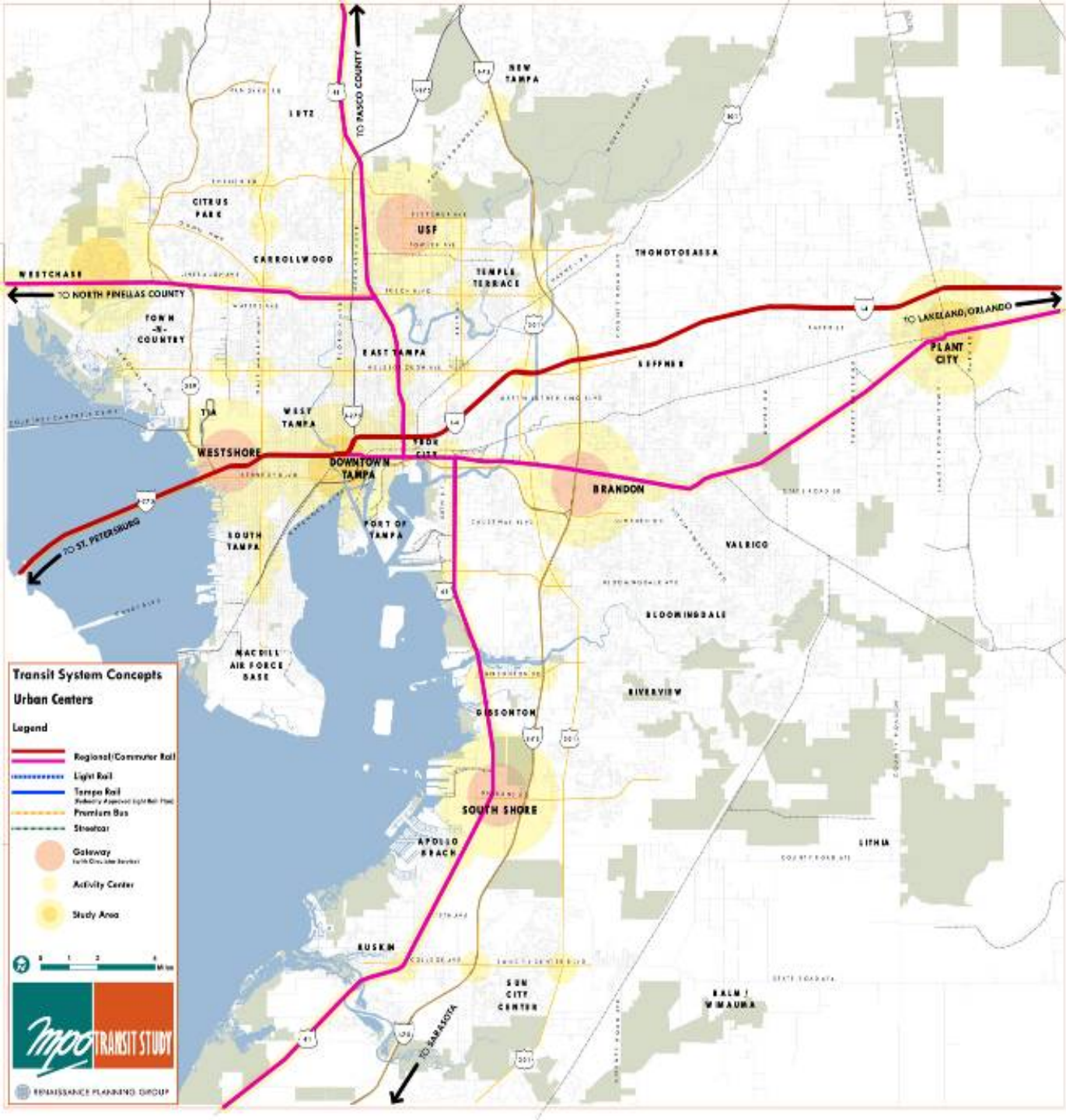
Diagram



MPO TRANSIT STUDY

Concept C:

Diagram



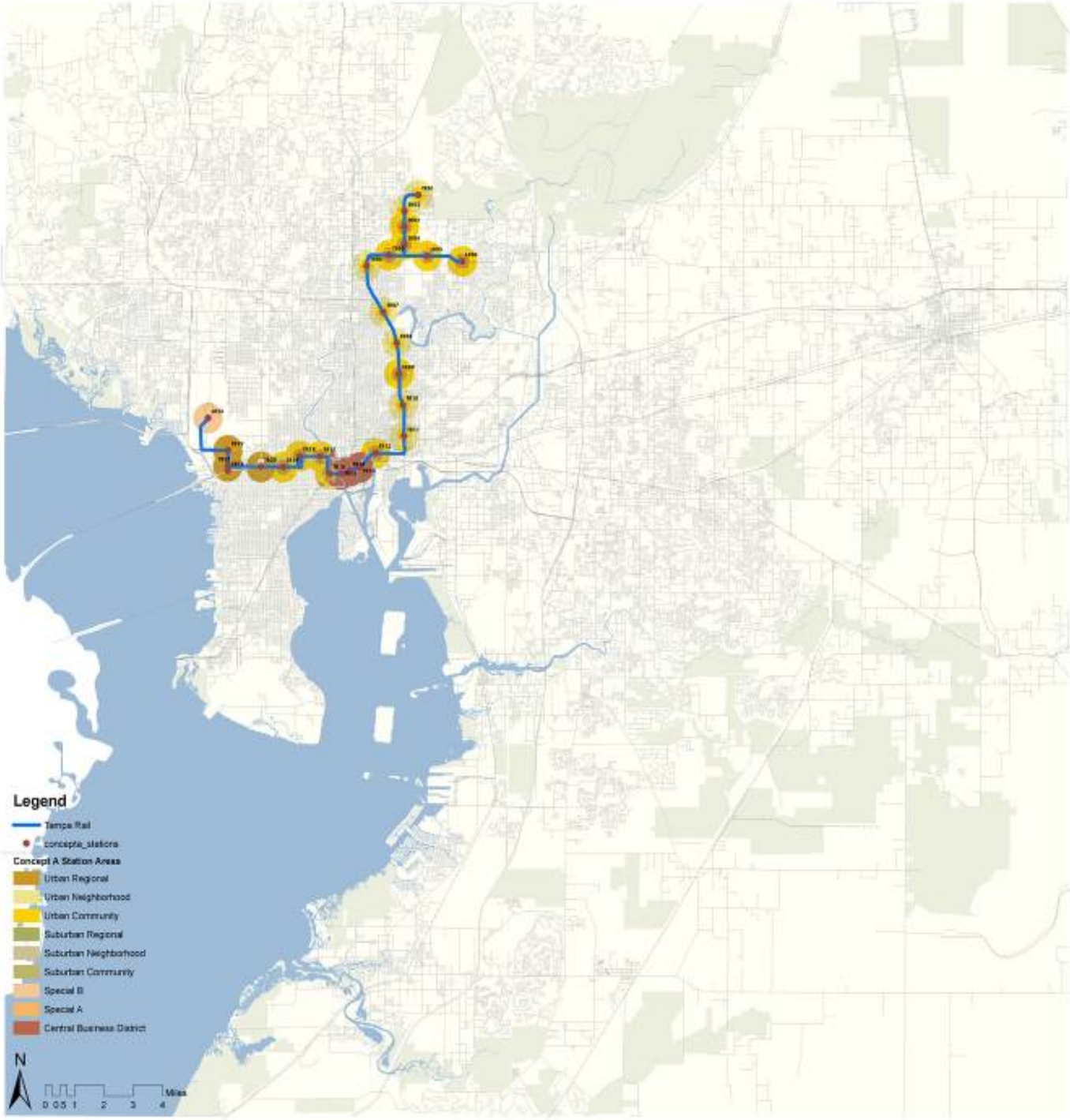
TRANSIT STUDY

Comparative Land Use Analysis for Transit Concepts

TRANSIT STUDY

Concept A:

Stations



MPO TRANSIT STUDY

Concept A:

HH Increment/

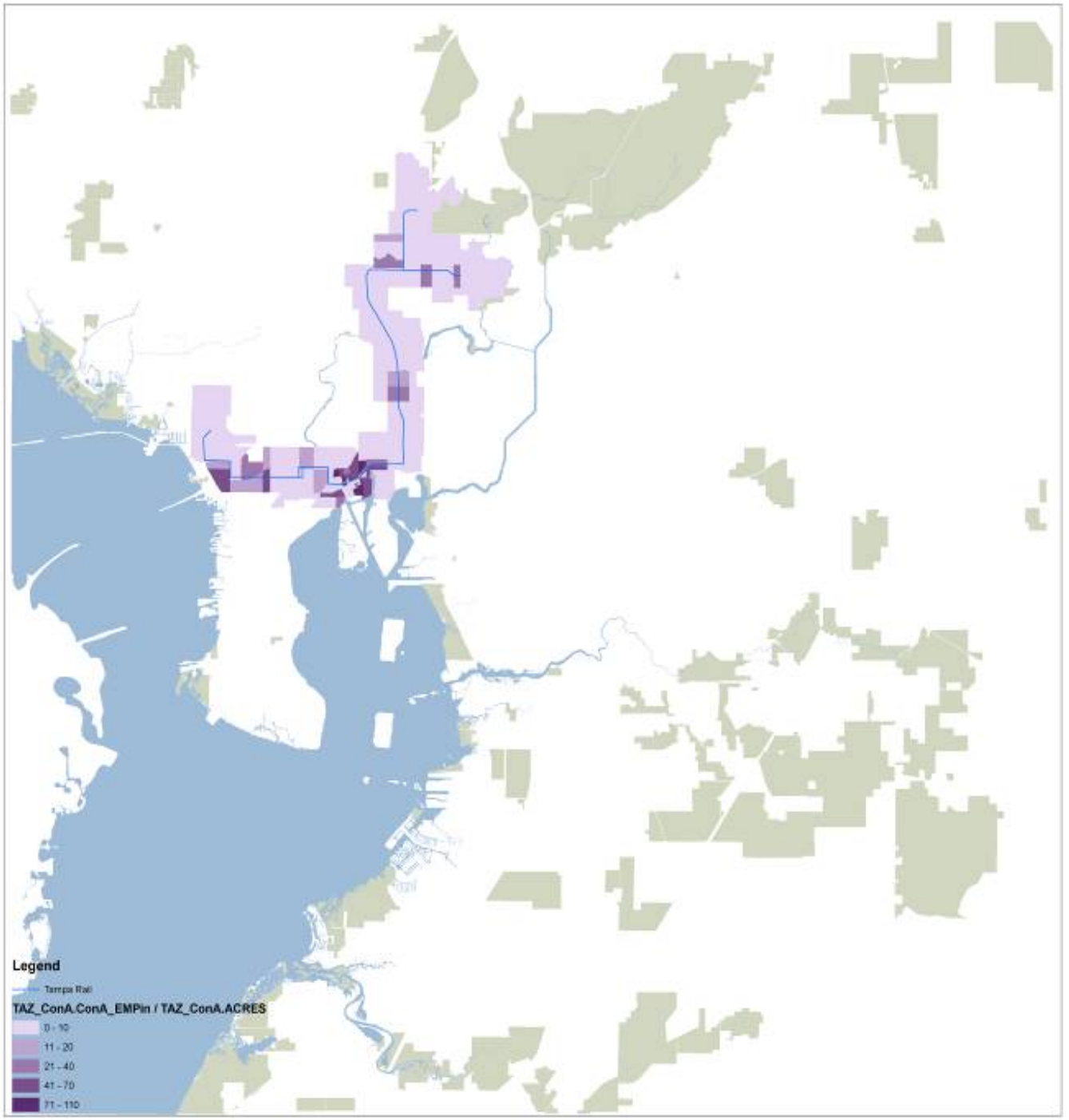
Acre by TAZ

MPO TRANSIT STUDY

Concept A:

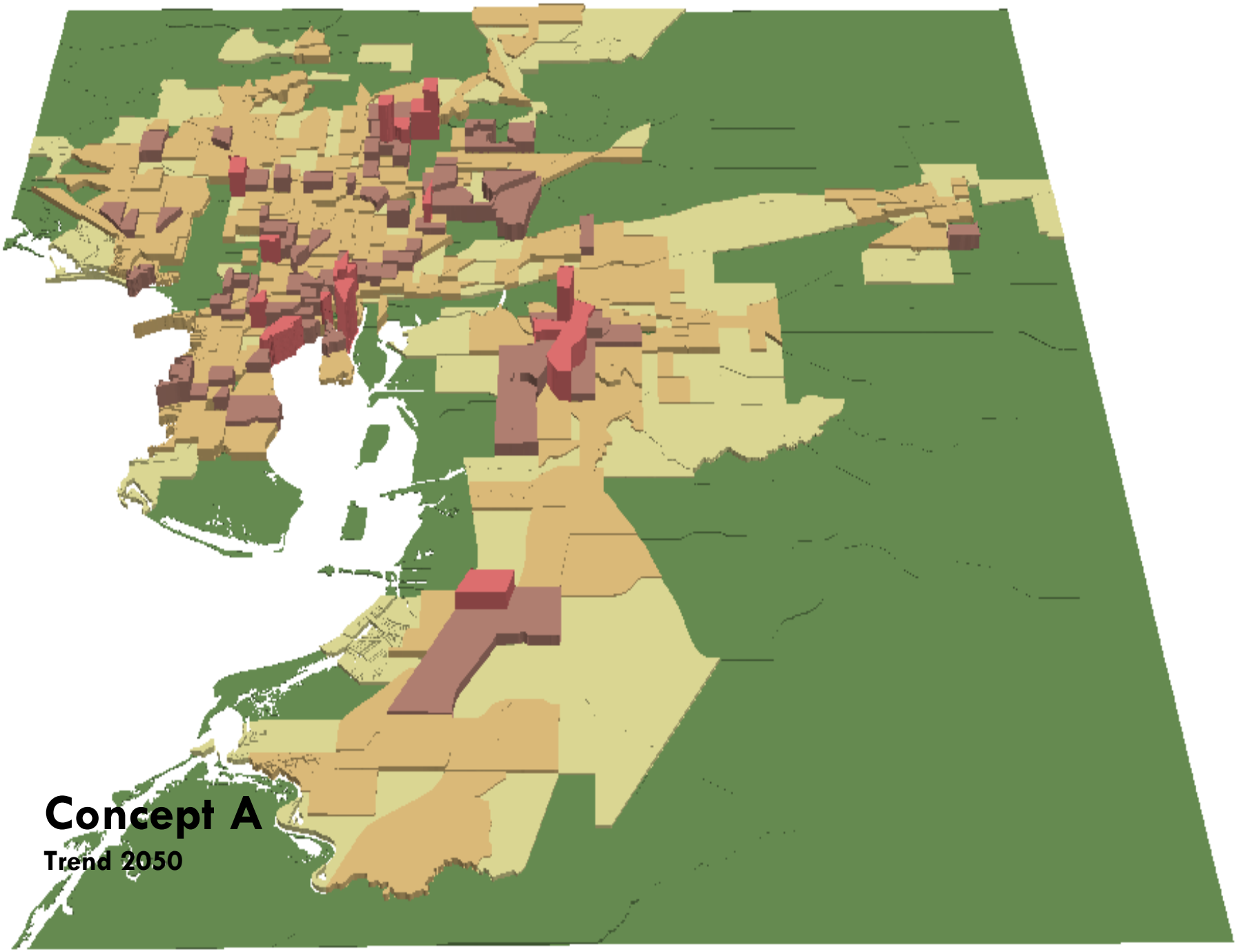
Jobs Increment/

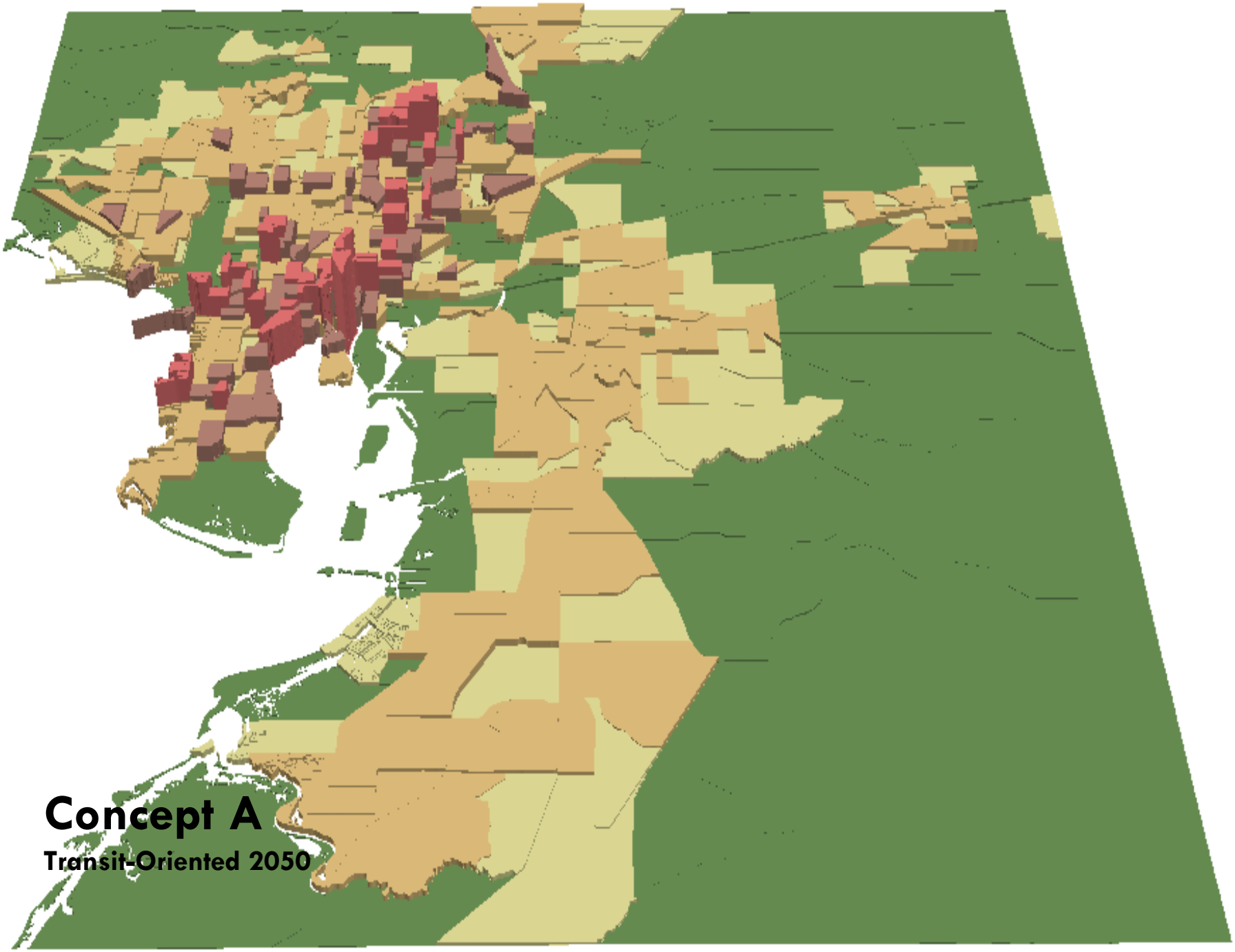
Acre by TAZ



Concept A

Incremental Growth in Station Areas

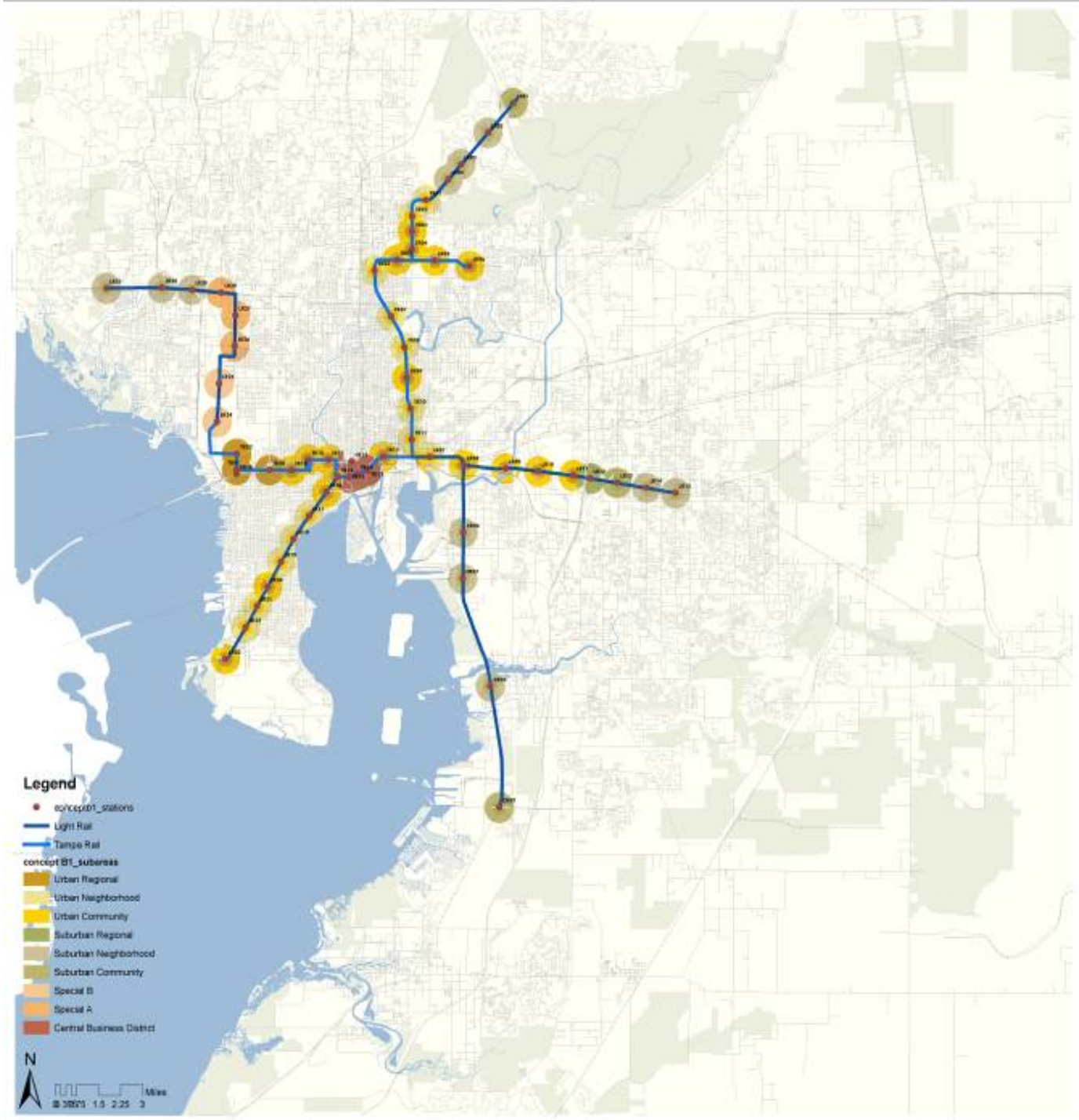

Concept A
Trend 2050


Concept A
Transit-Oriented 2050

TRANSIT STUDY

Concept B:

Stations

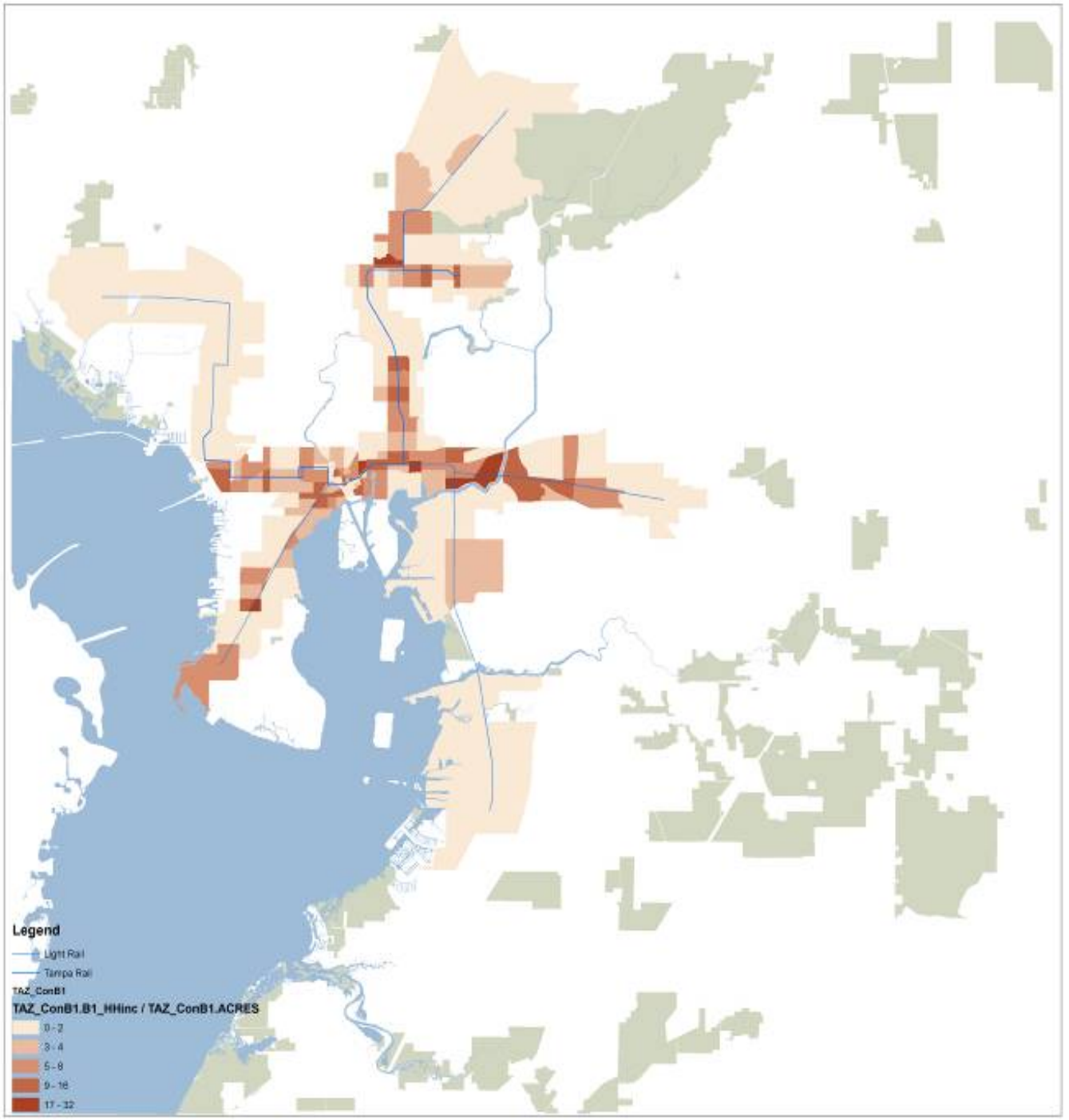


MPO TRANSIT STUDY

Concept B:

HH Increment/

Acre by TAZ

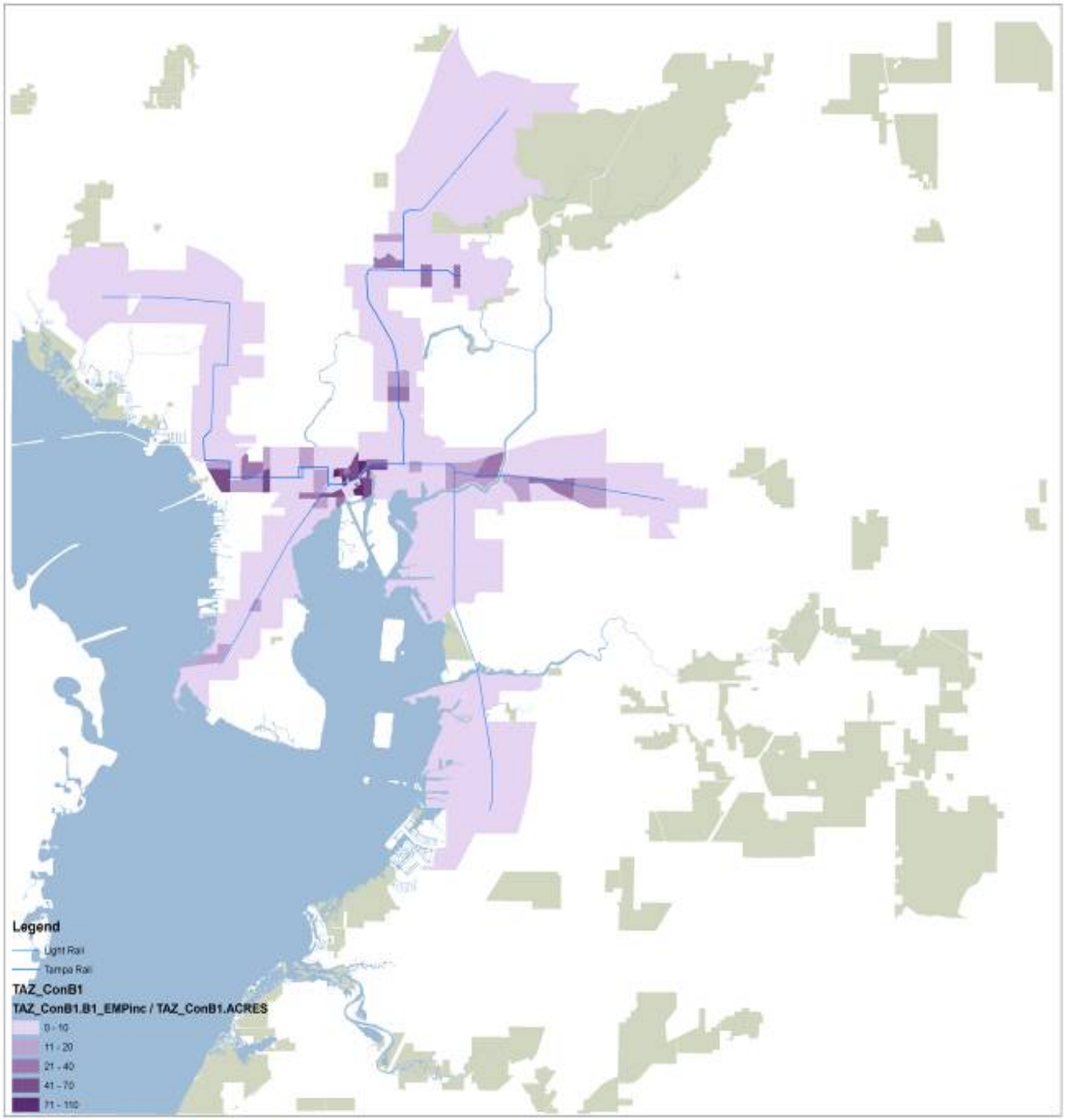


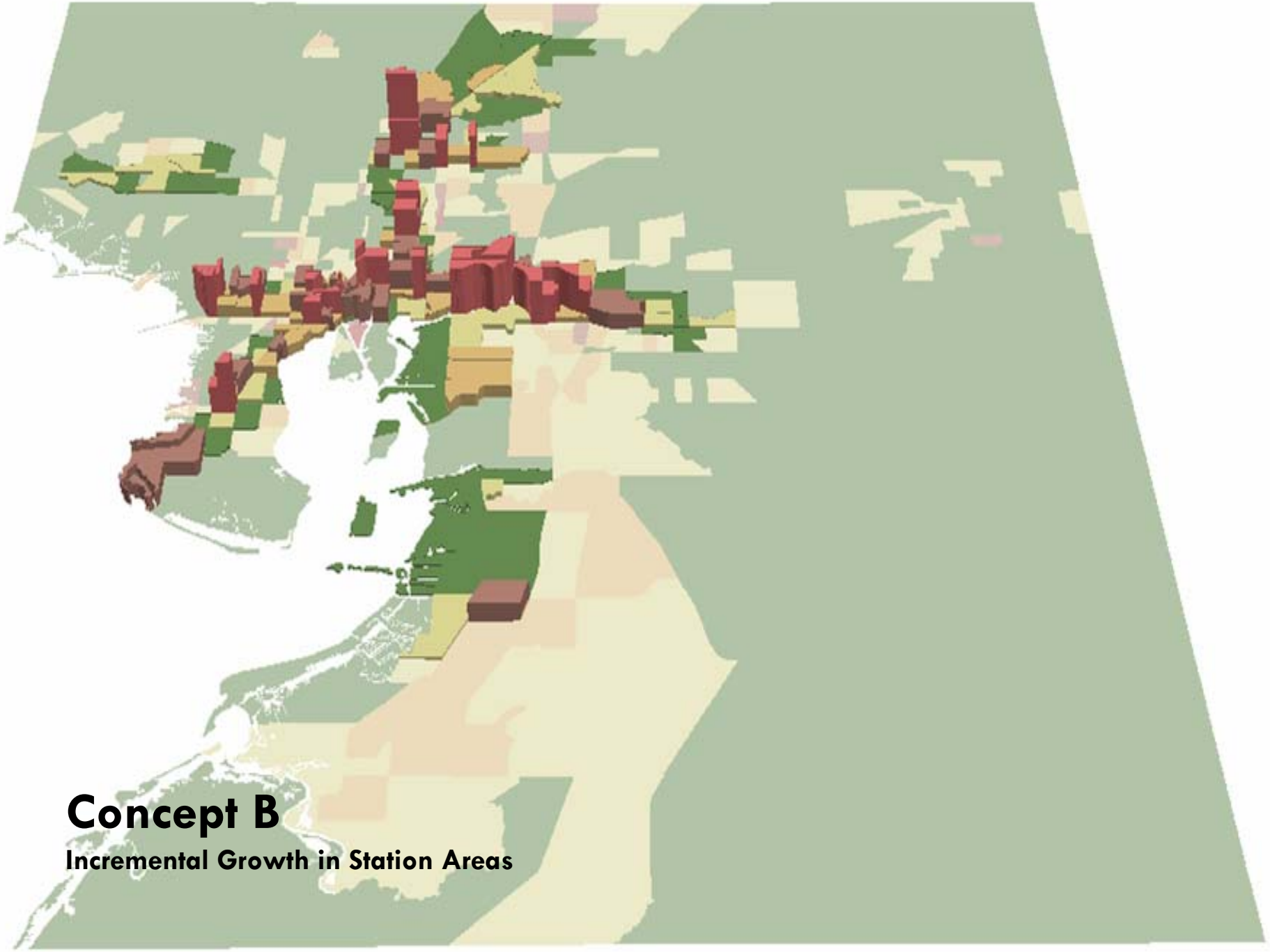
MPO TRANSIT STUDY

Concept B:

Jobs Increment/

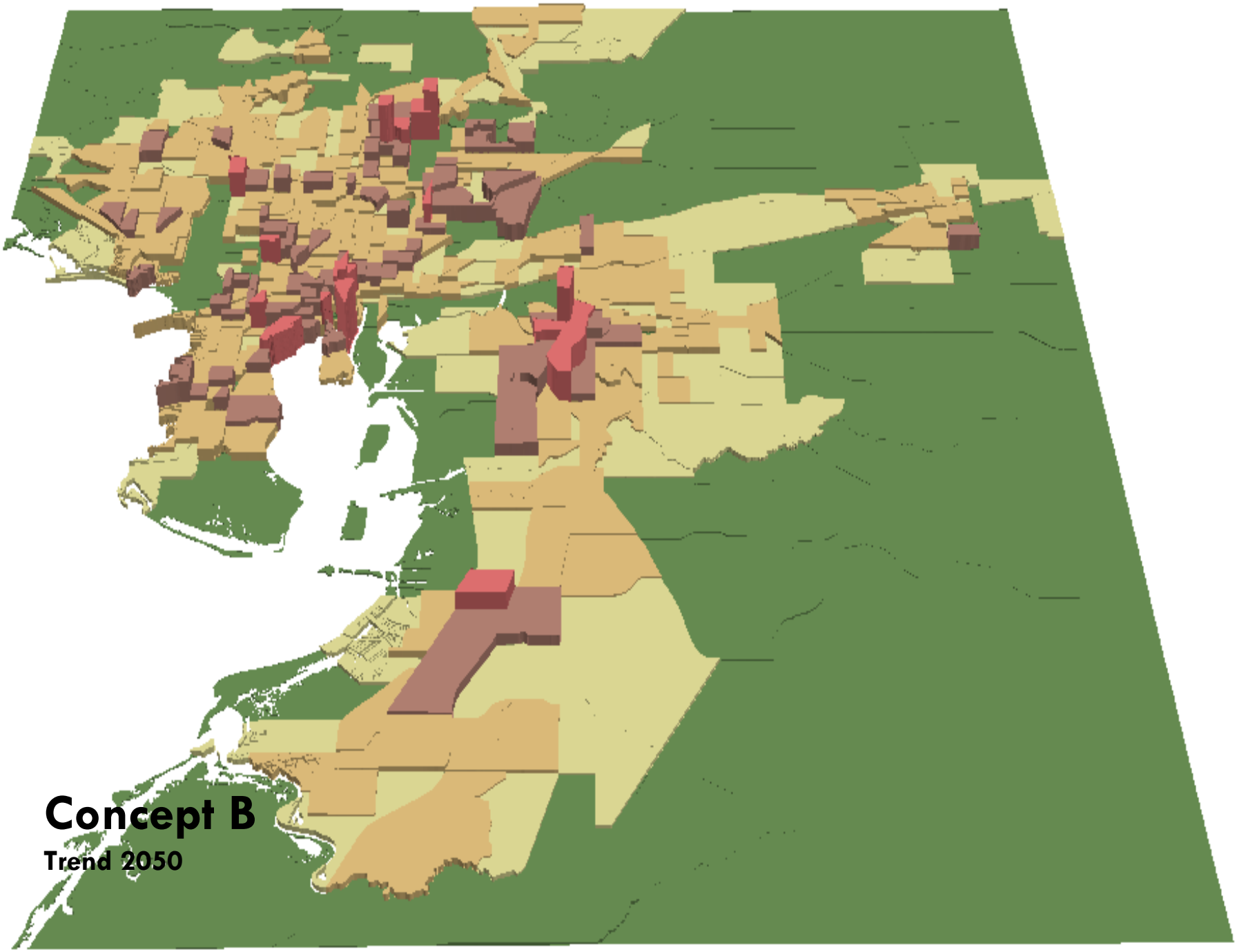
Acre by TAZ

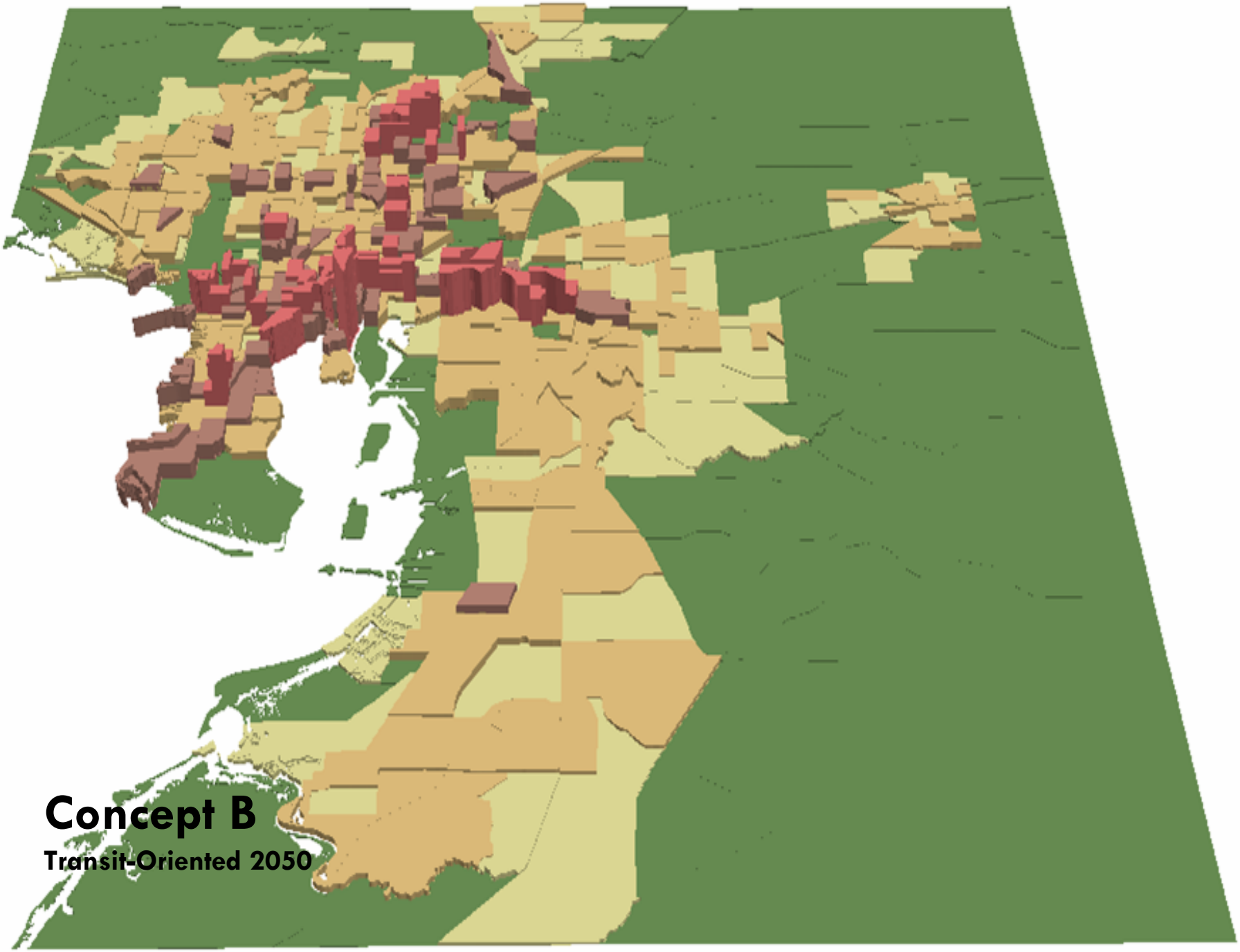




Concept B

Incremental Growth in Station Areas

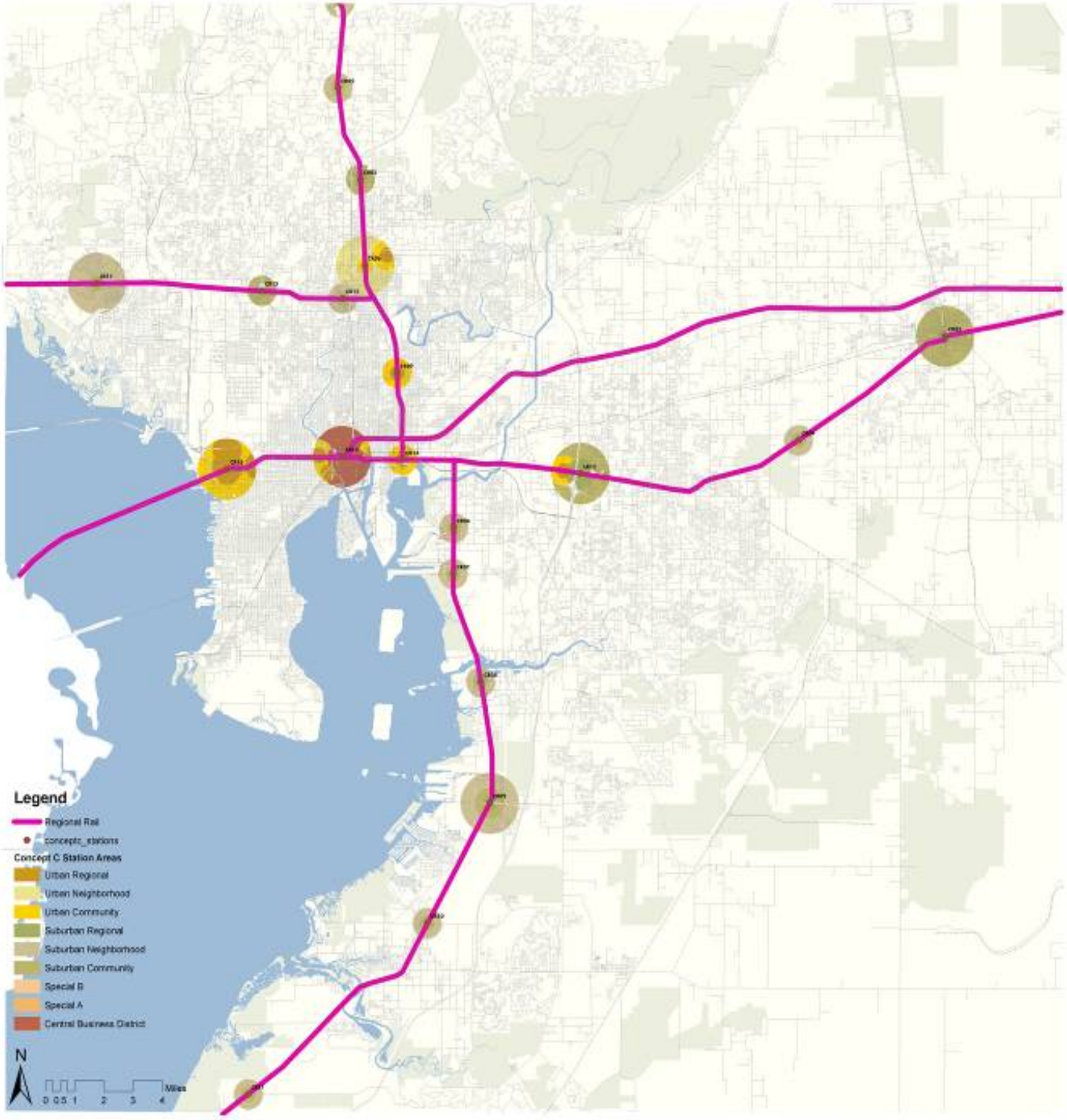

Concept B
Trend 2050


Concept B
Transit-Oriented 2050

MPO TRANSIT STUDY

Concept C:

Stations

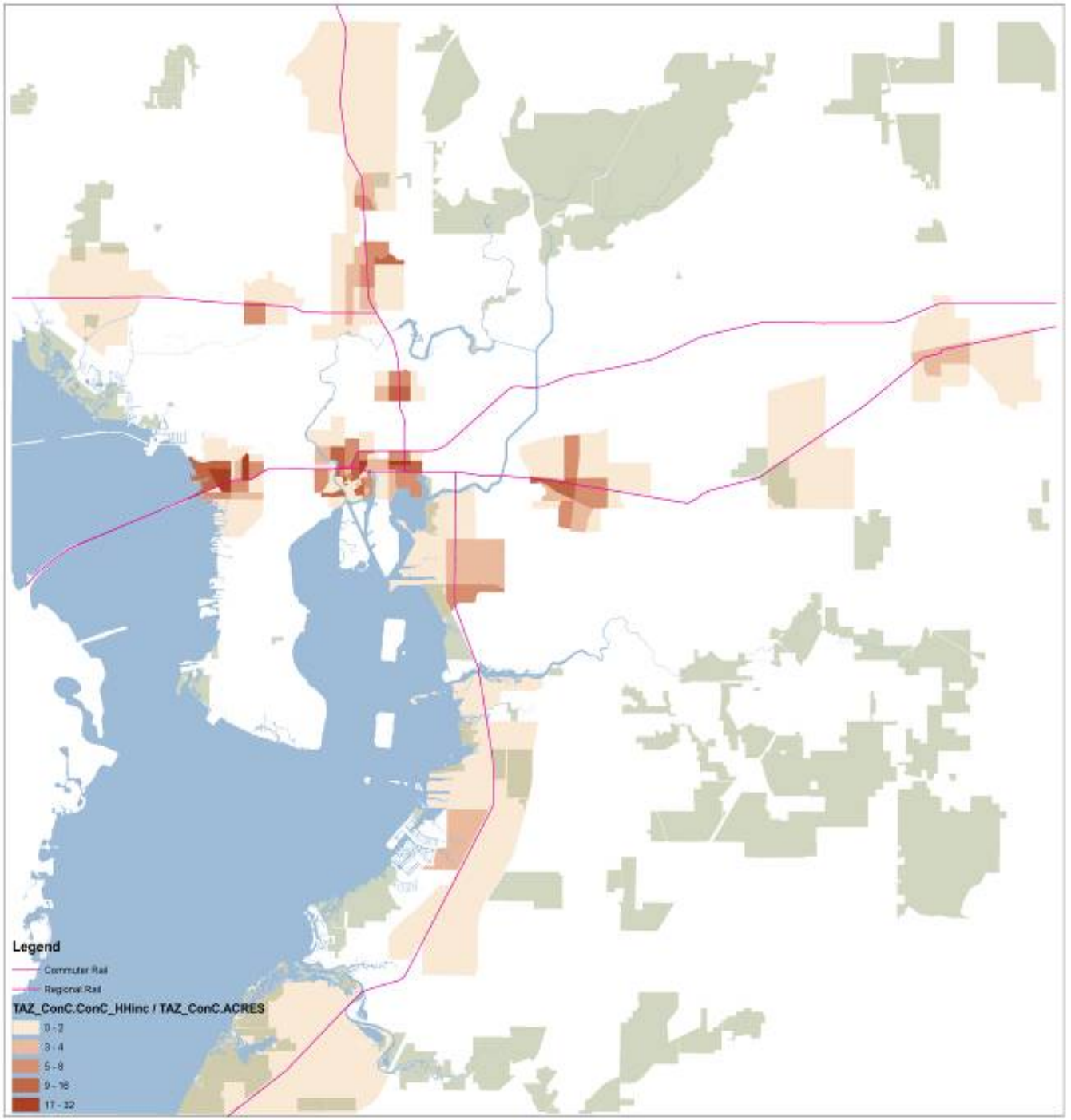


MPO TRANSIT STUDY

Concept C:

HH Increment/

Acre by TAZ

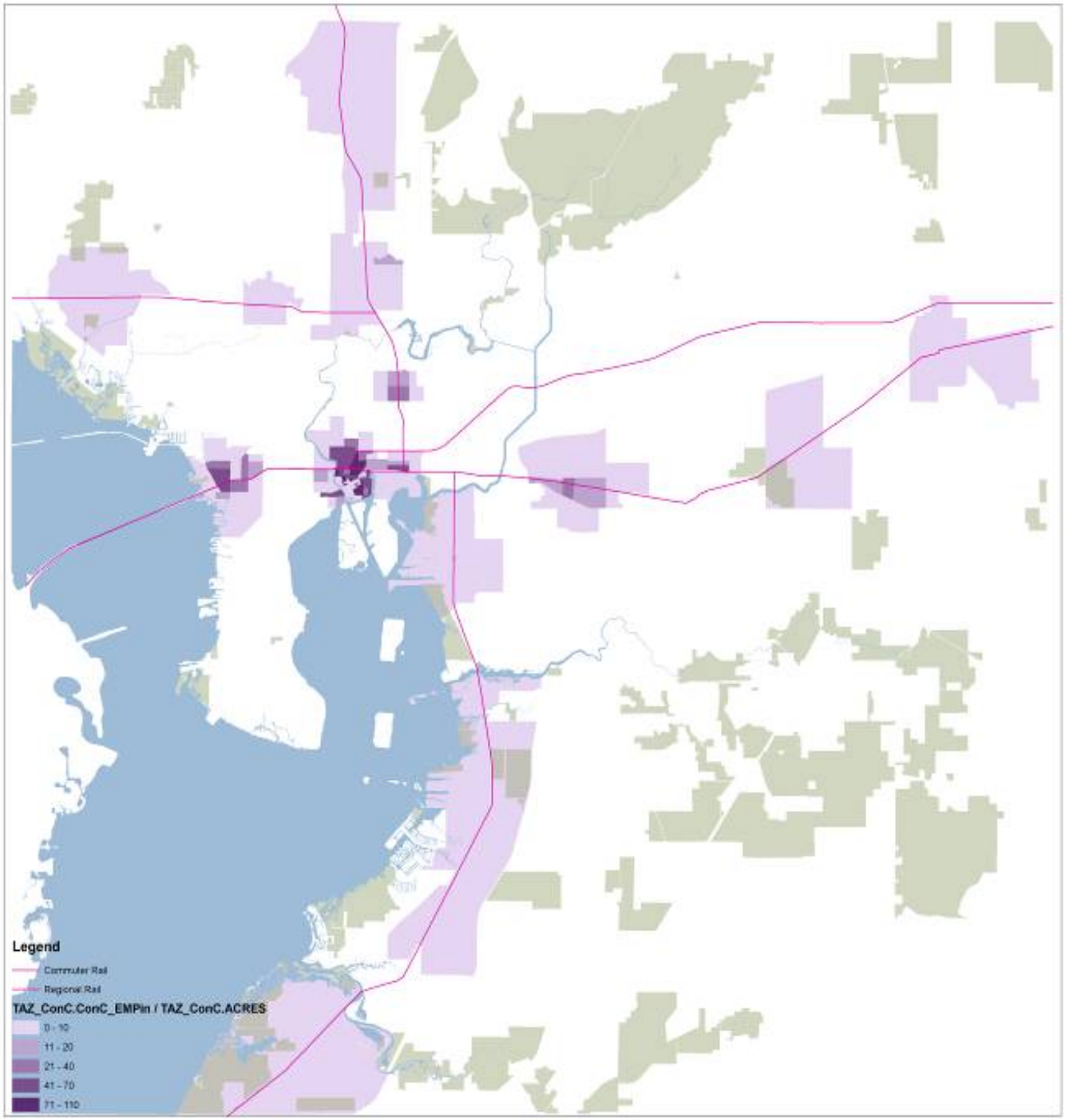


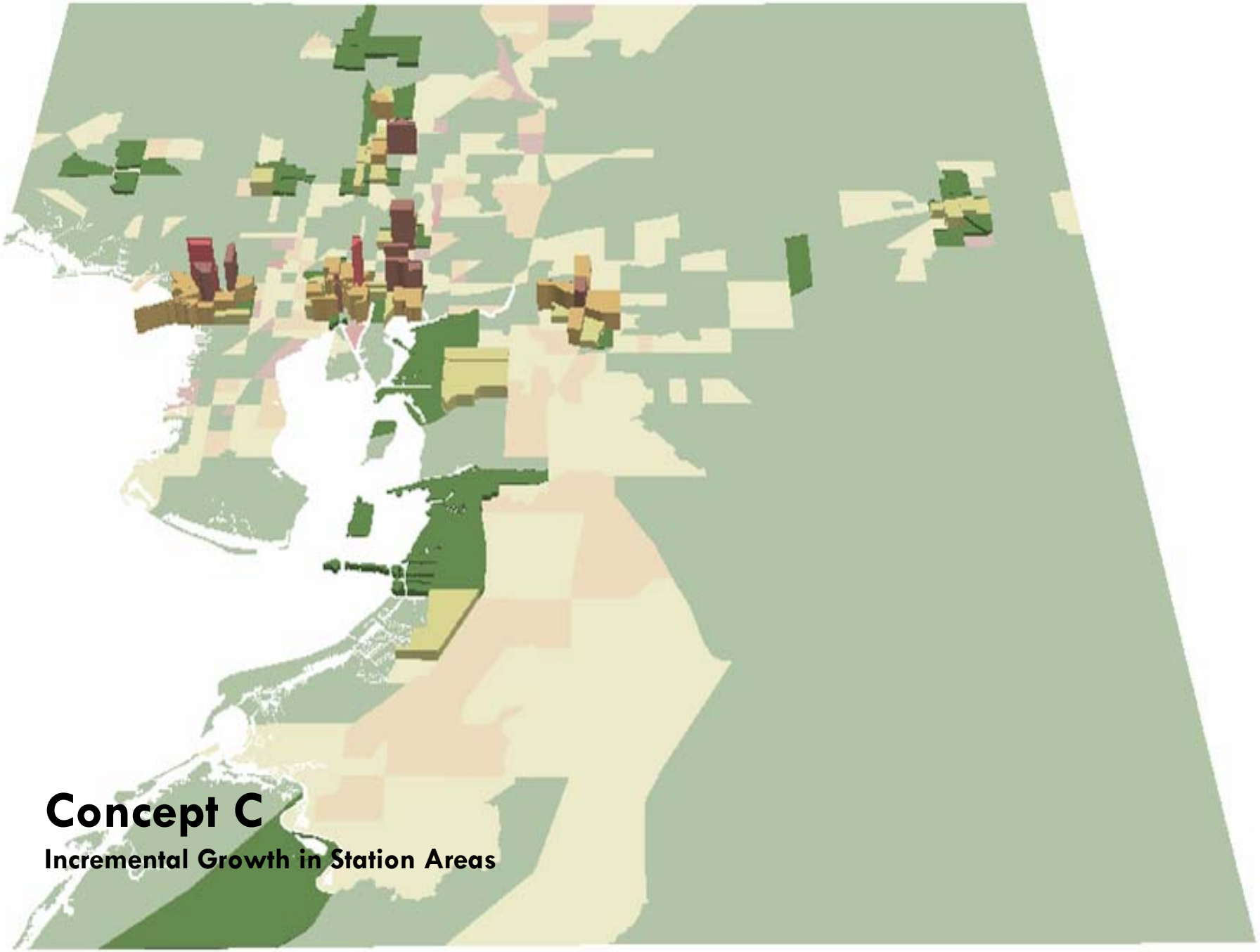
MPO TRANSIT STUDY

Concept C:

Jobs Increment/

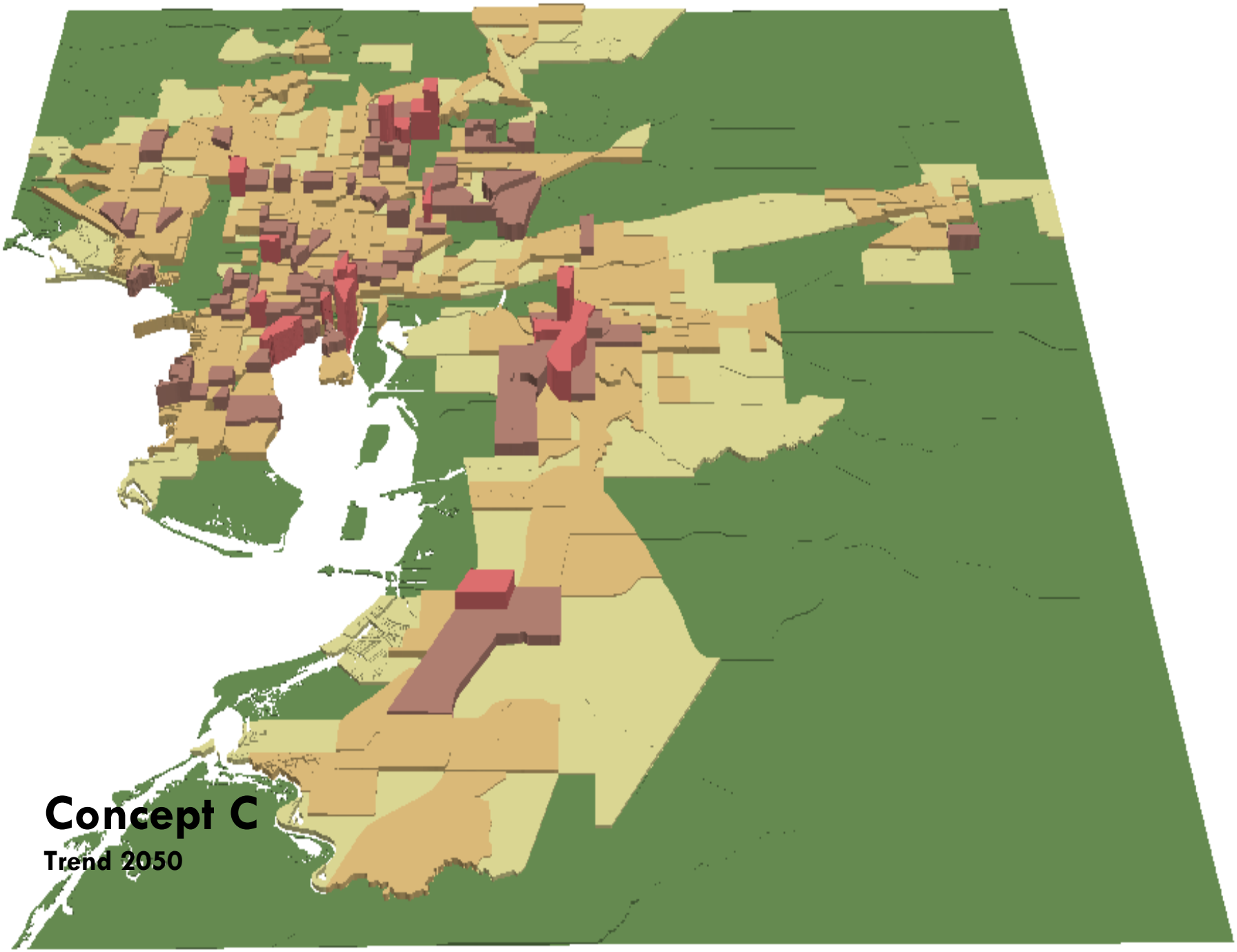
Acre by TAZ

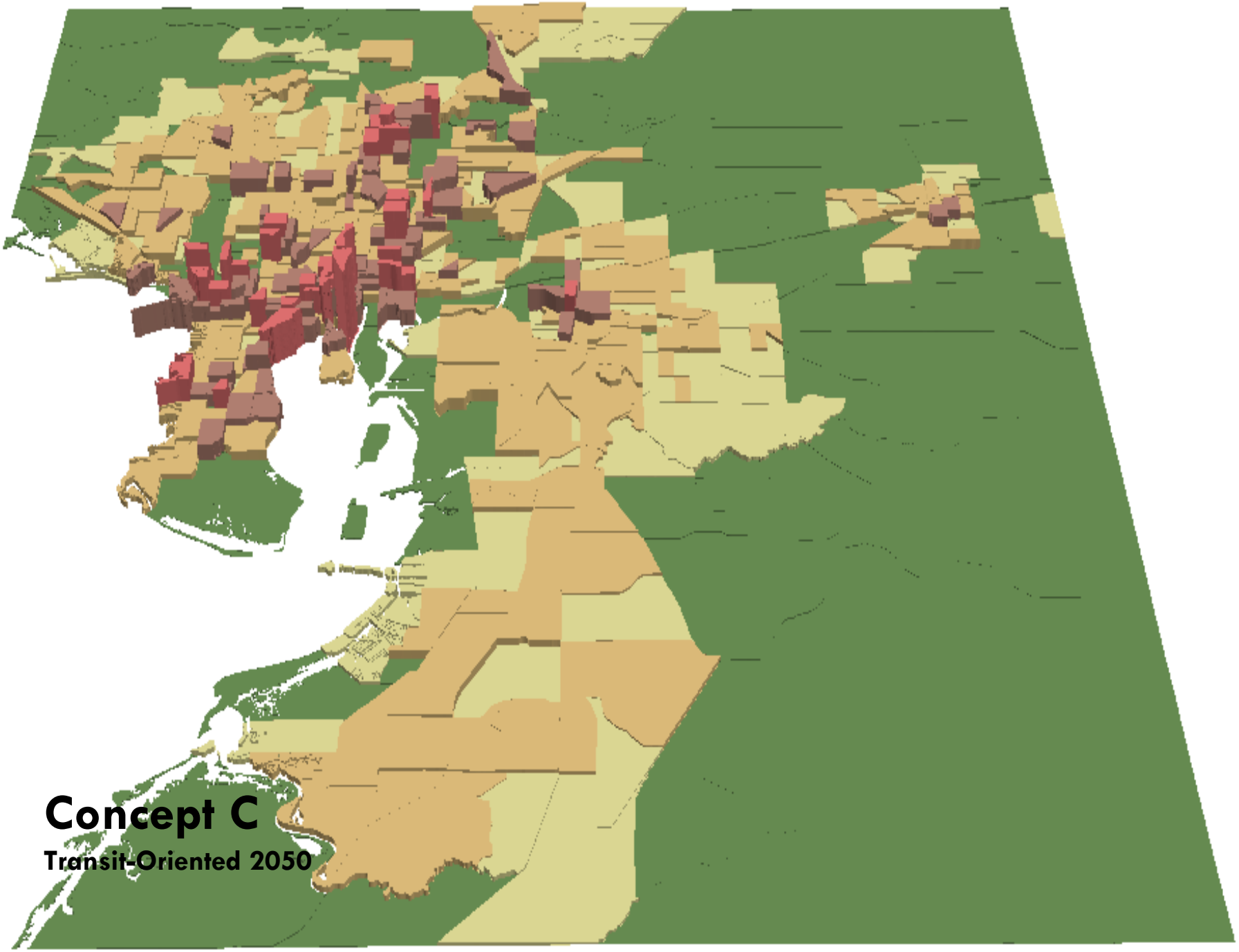




Concept C

Incremental Growth in Station Areas

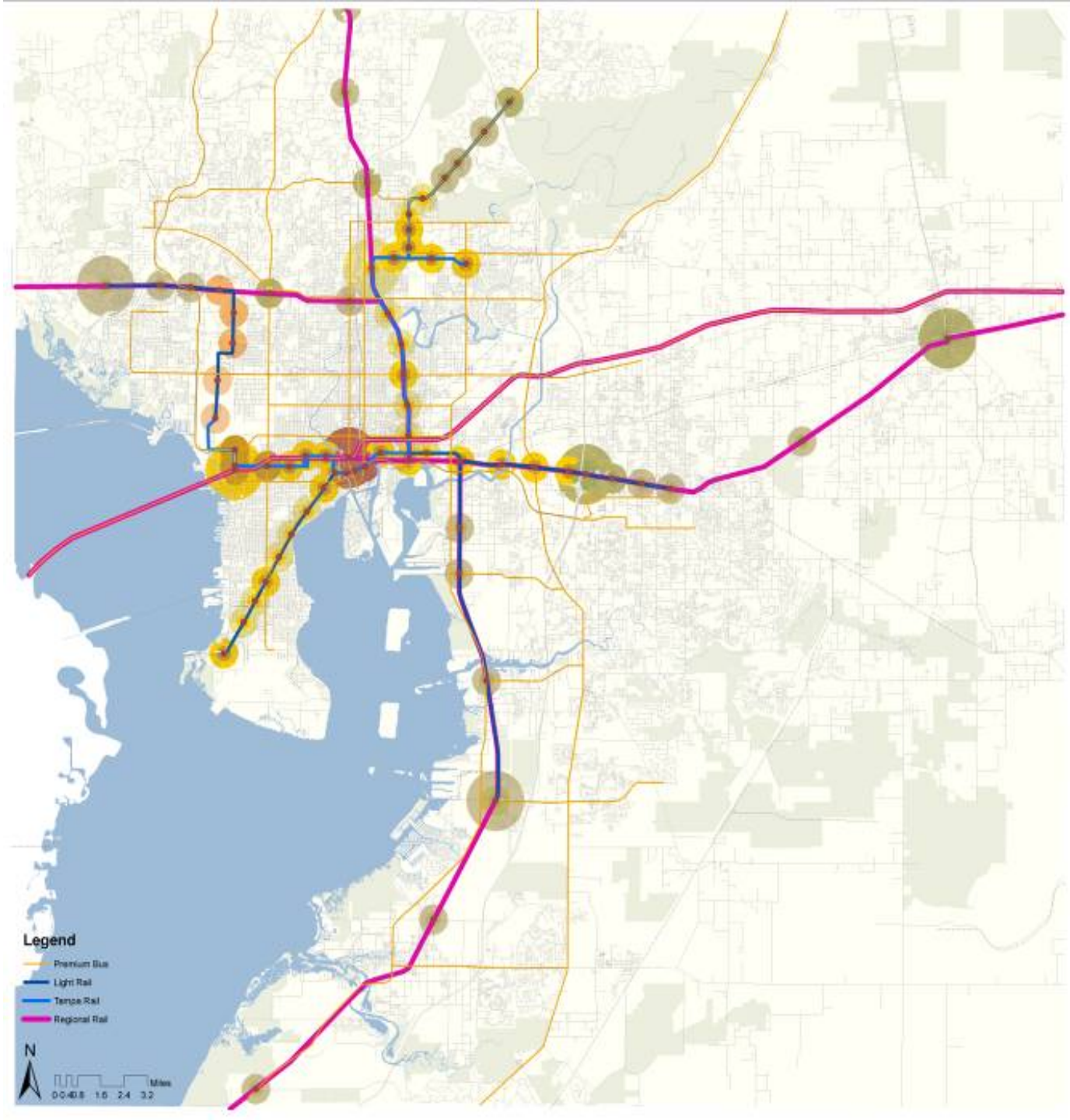

Concept C
Trend 2050

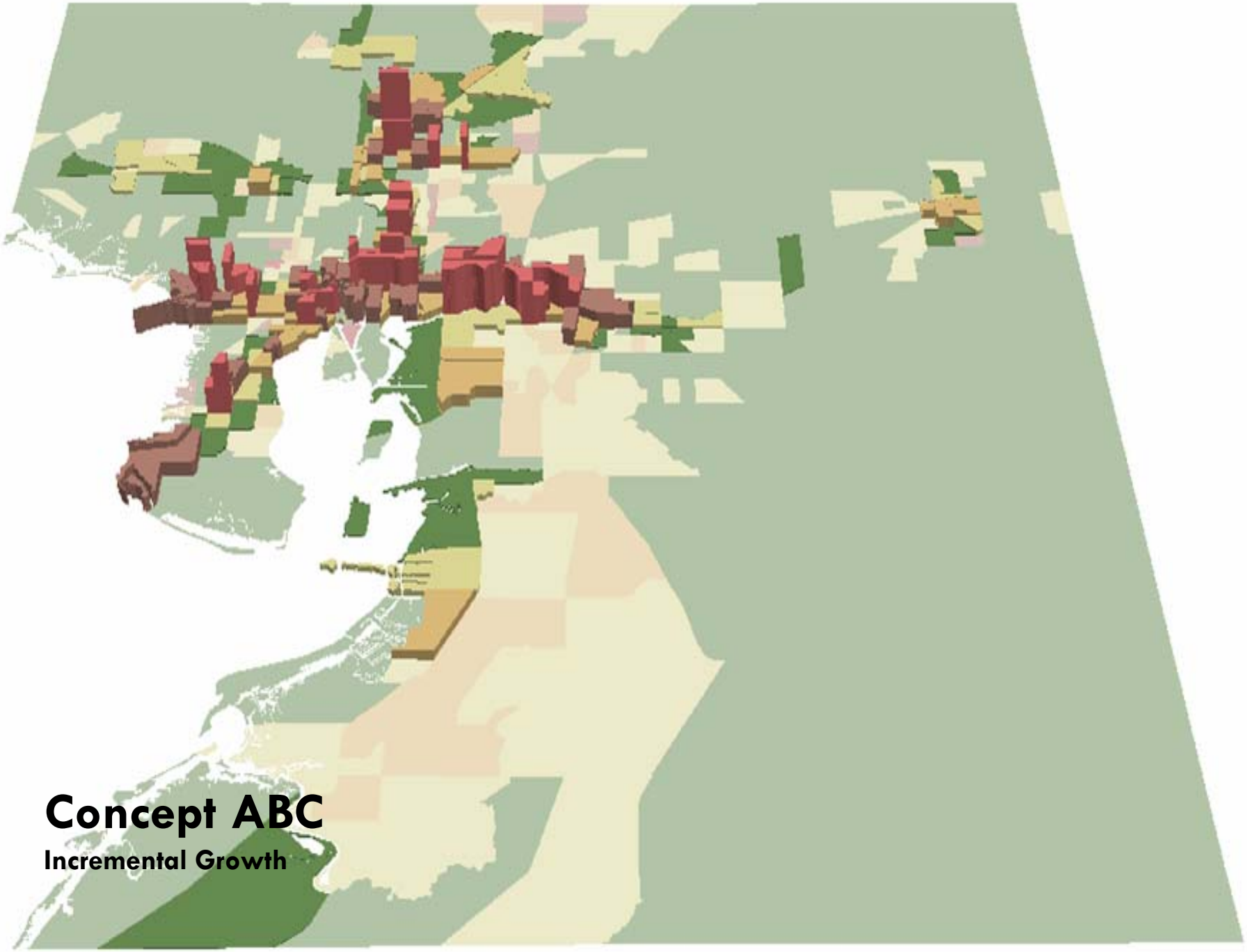

Concept C
Transit-Oriented 2050

MPO TRANSIT STUDY

Concept ABC:

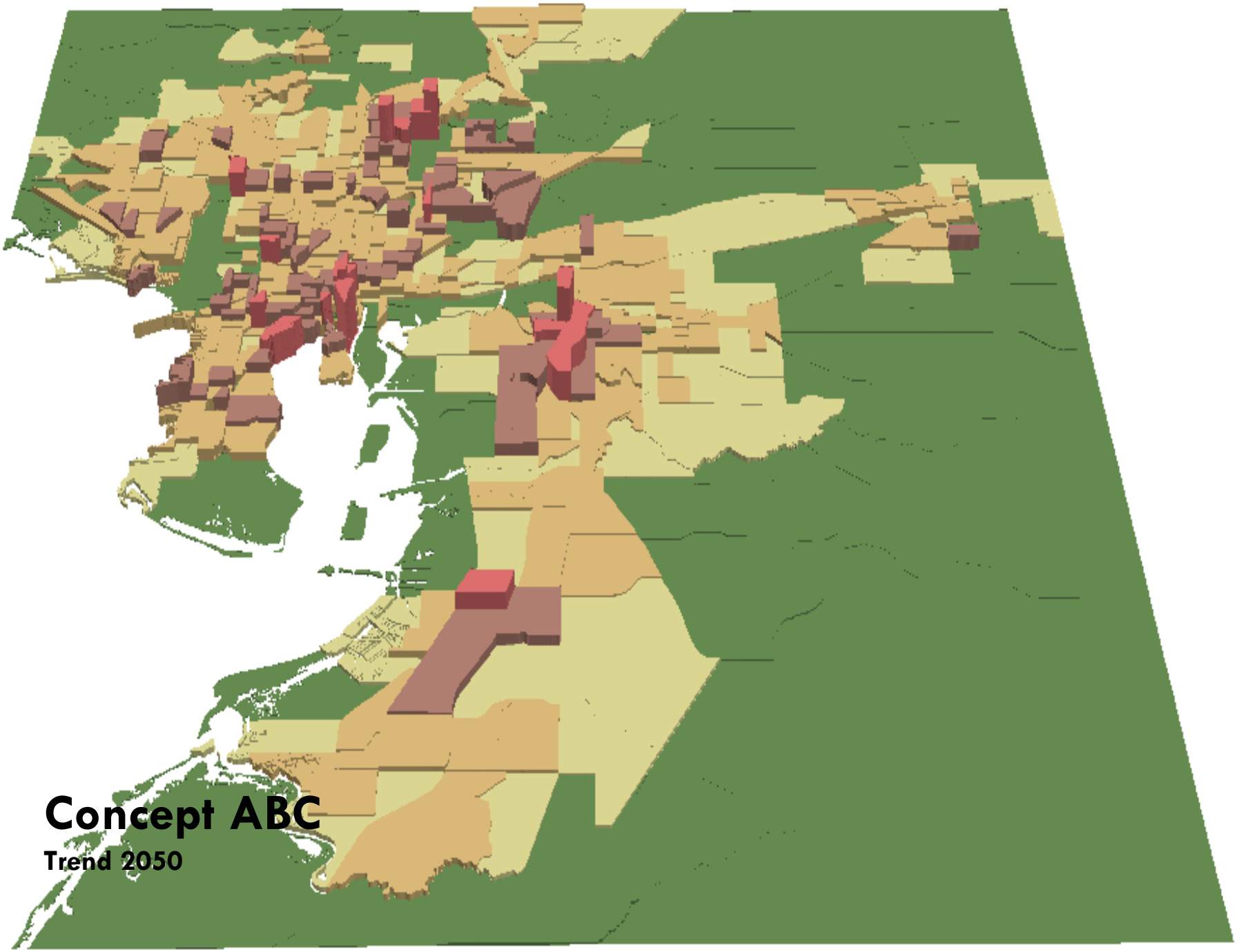
Stations

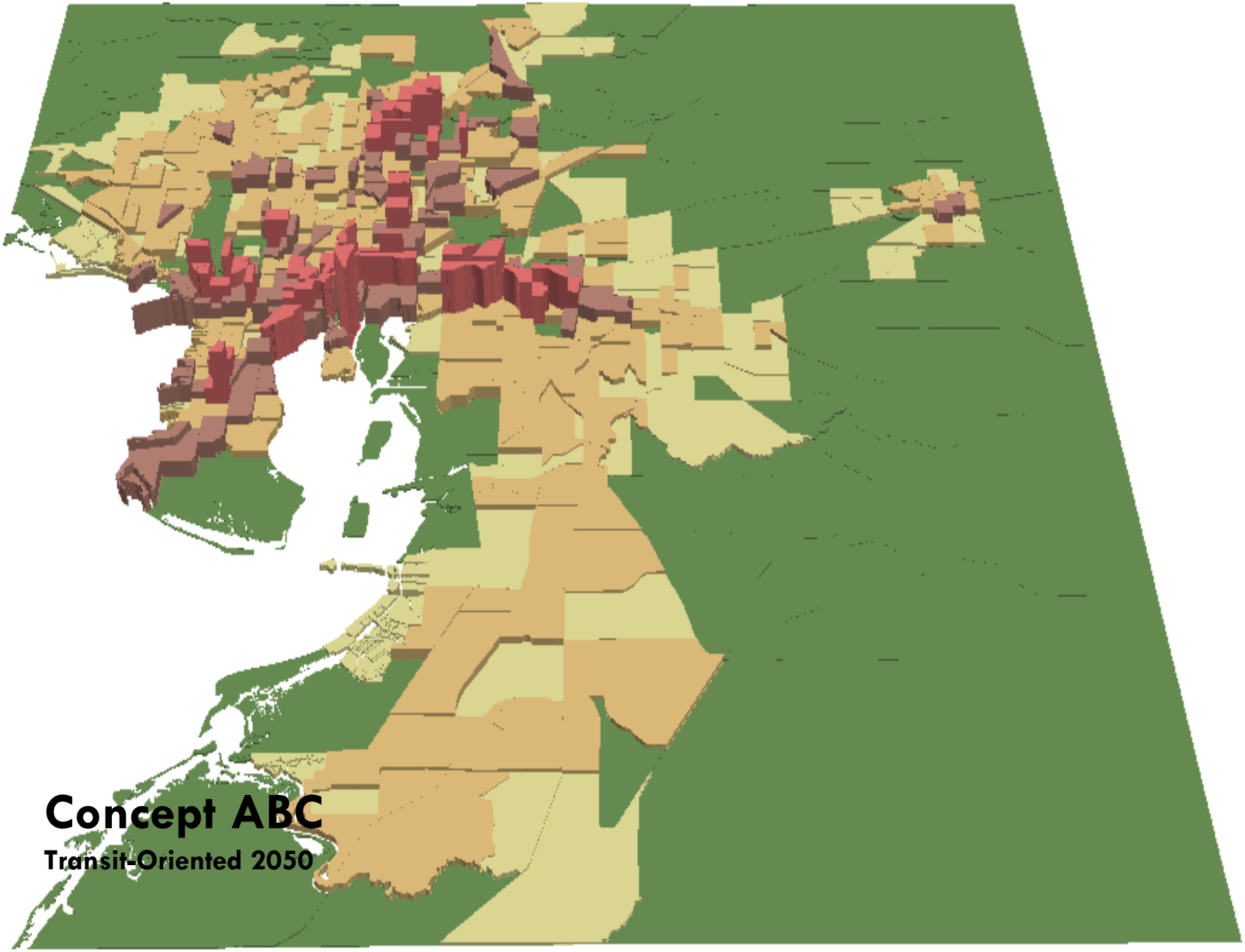




Concept ABC

Incremental Growth

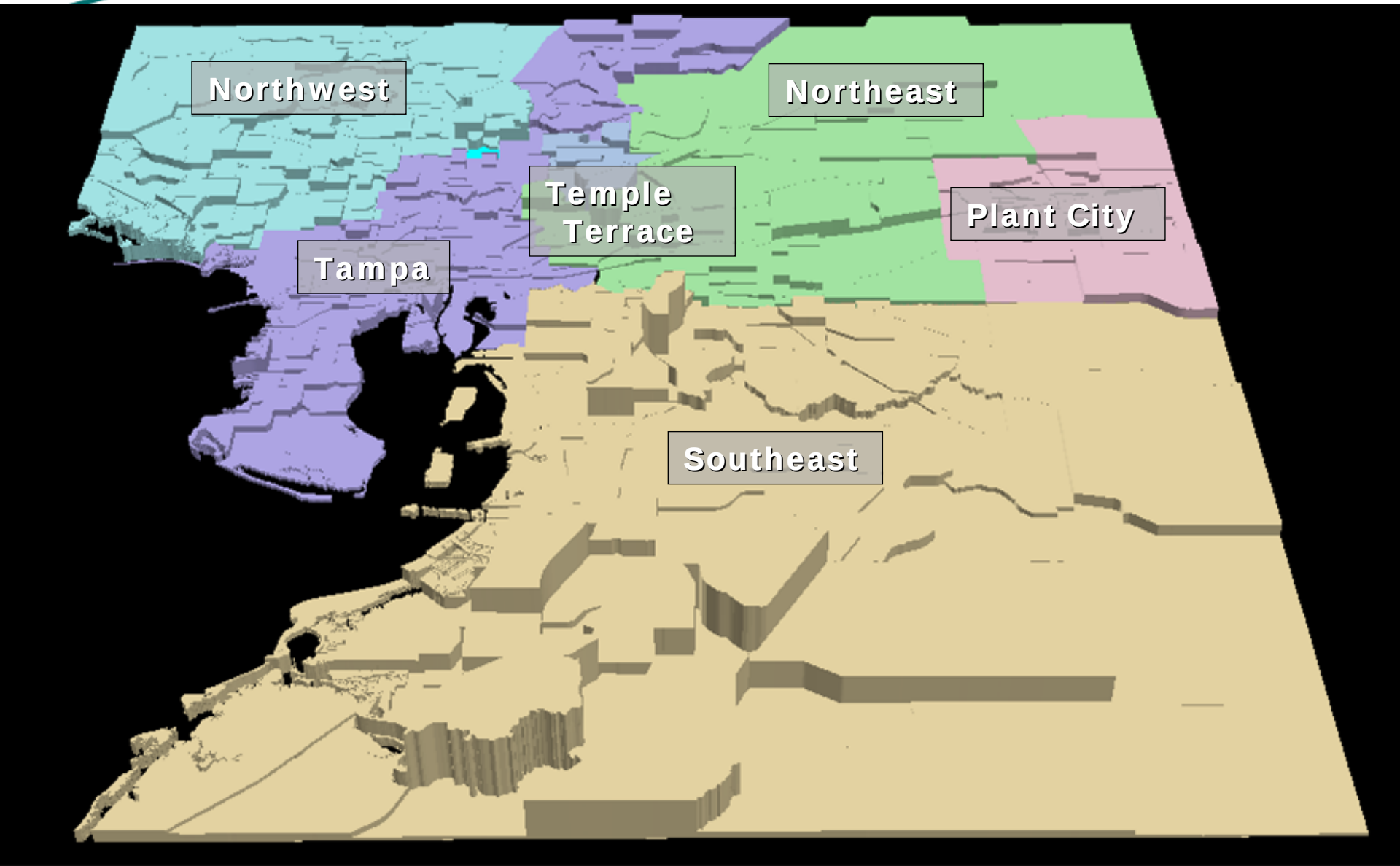

Concept ABC
Trend 2050


Concept ABC
Transit-Oriented 2050

TRANSIT STUDY

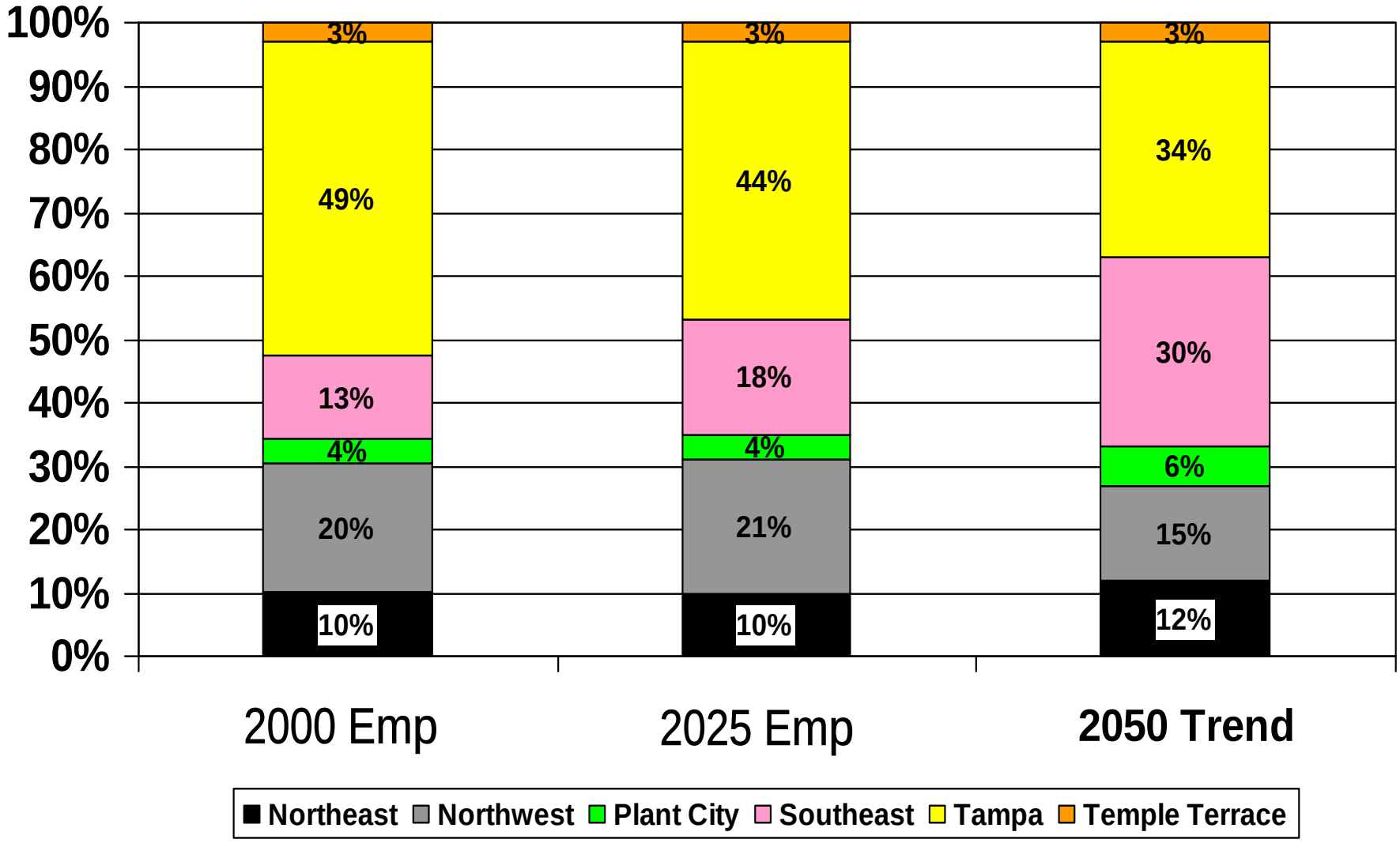
Sub-Regions

With TAZ Boundaries



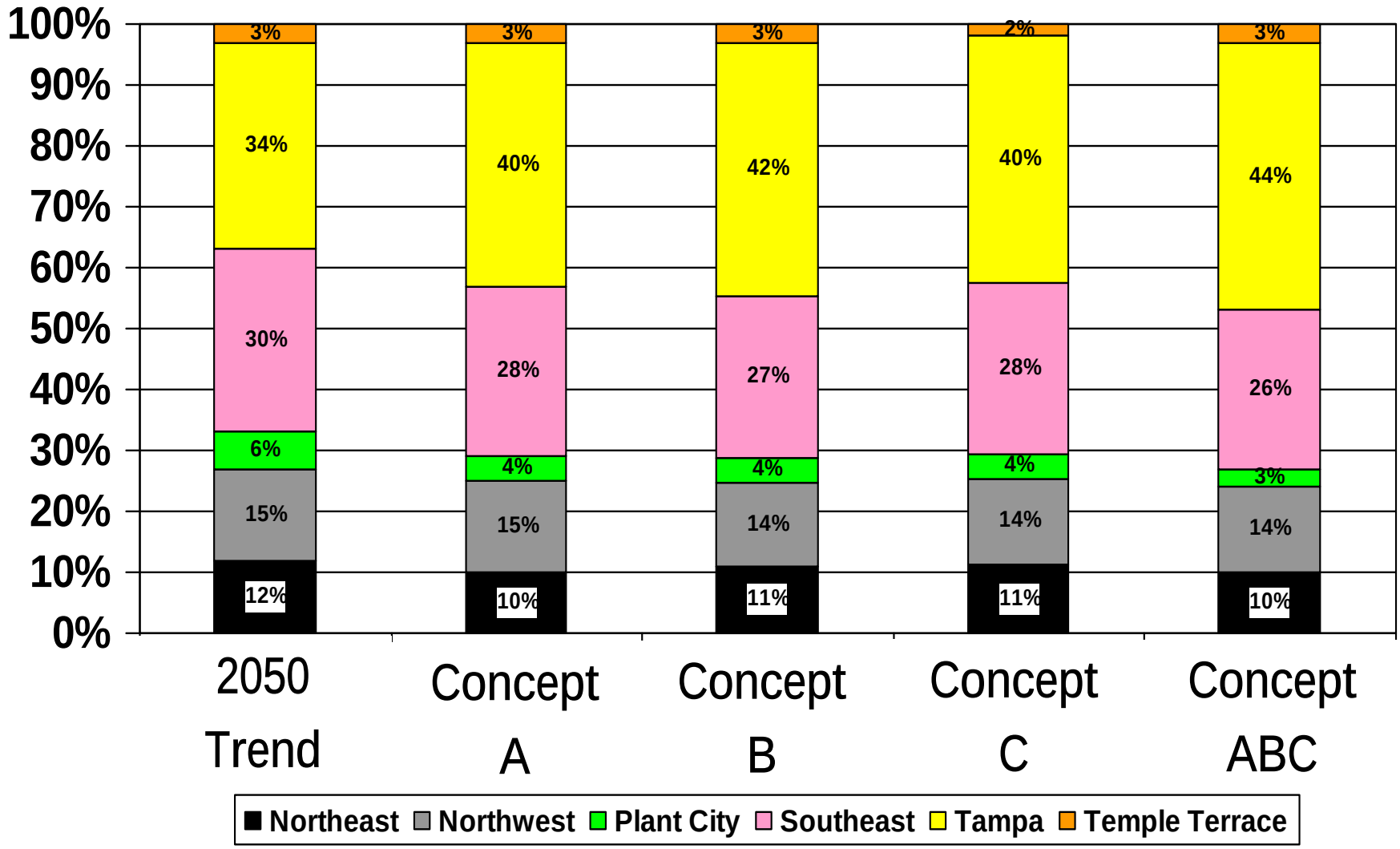
Employment Trend

By Sub-Region



Employment Trend by Transit Concept

for Sub-Regions



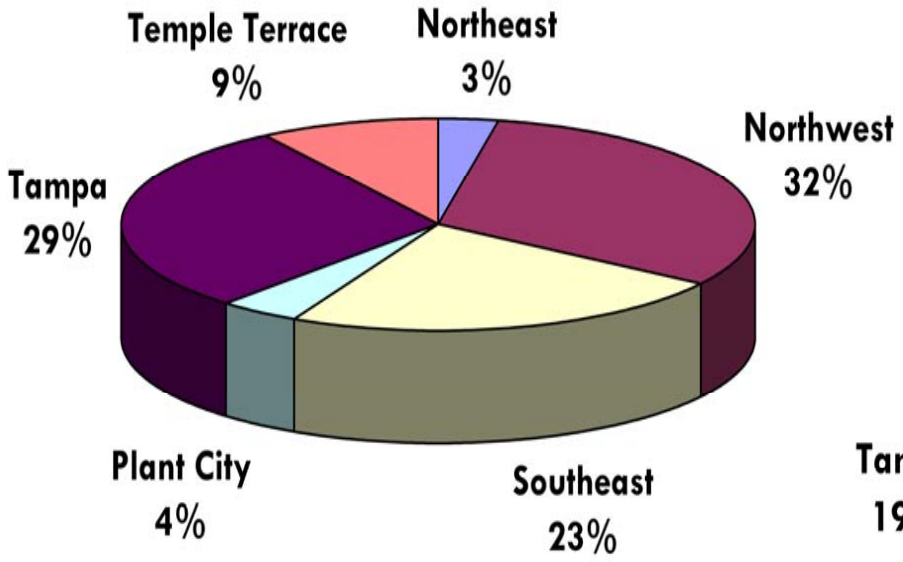
2050 Employment with Transit

by Concept

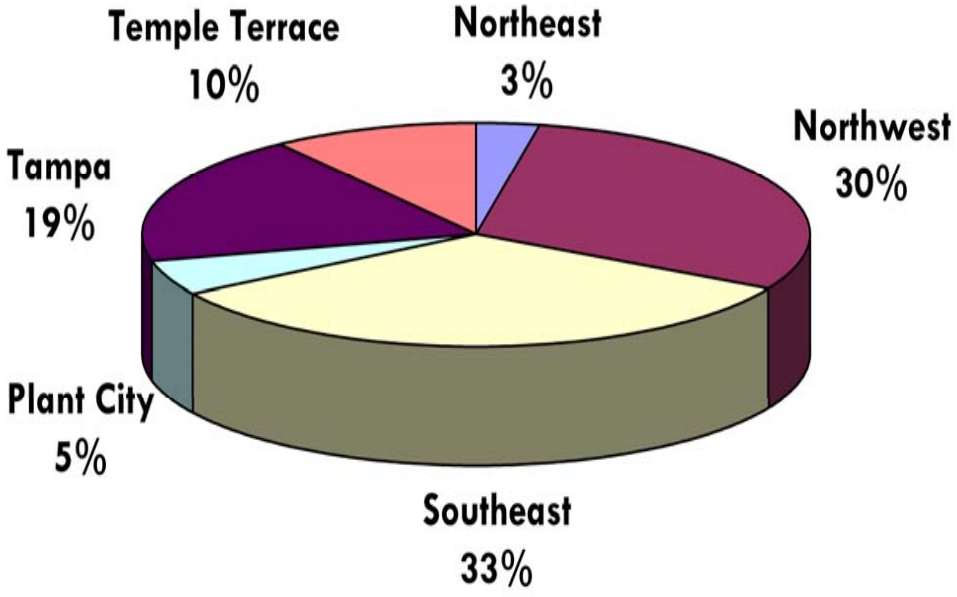
	Concept A	Concept B	Concept C	Concept ABC	2050 Forecast
Employment	170,795	290,370	216,138	367,768	1,430,199
% of 2050 Forecast	11.94%	20.30%	15.11%	25.71%	

Population Trend

for Sub-Regions



Share of Households
2000



Share of Households
2050

2050 Population with Transit

by Concept

	Concept A	Concept B	Concept C	Concept ABC	2050 Forecast
Population	175,309	420,589	315,170	595,798	2,034,180
% of 2050 Forecast	8.62%	20.68%	15.49%	29.29%	

Measures of Effectiveness

Land Use

- Population near Stations
- Employment near Stations
- Potential TOD Acreage
- Incremental increase in Land Value

Mobility

- Carrying capacity of Transit System
- Transit Ridership
- Miles and Hours of Travel
- Speed and Congestion

Environment

- Air Quality
- Fuel Consumption - Energy

Financial

- Capital Costs
- O&M Costs

Systems

- Integration – Countywide and Regional
- Service Characteristics
- System Capacity

System Design Issues

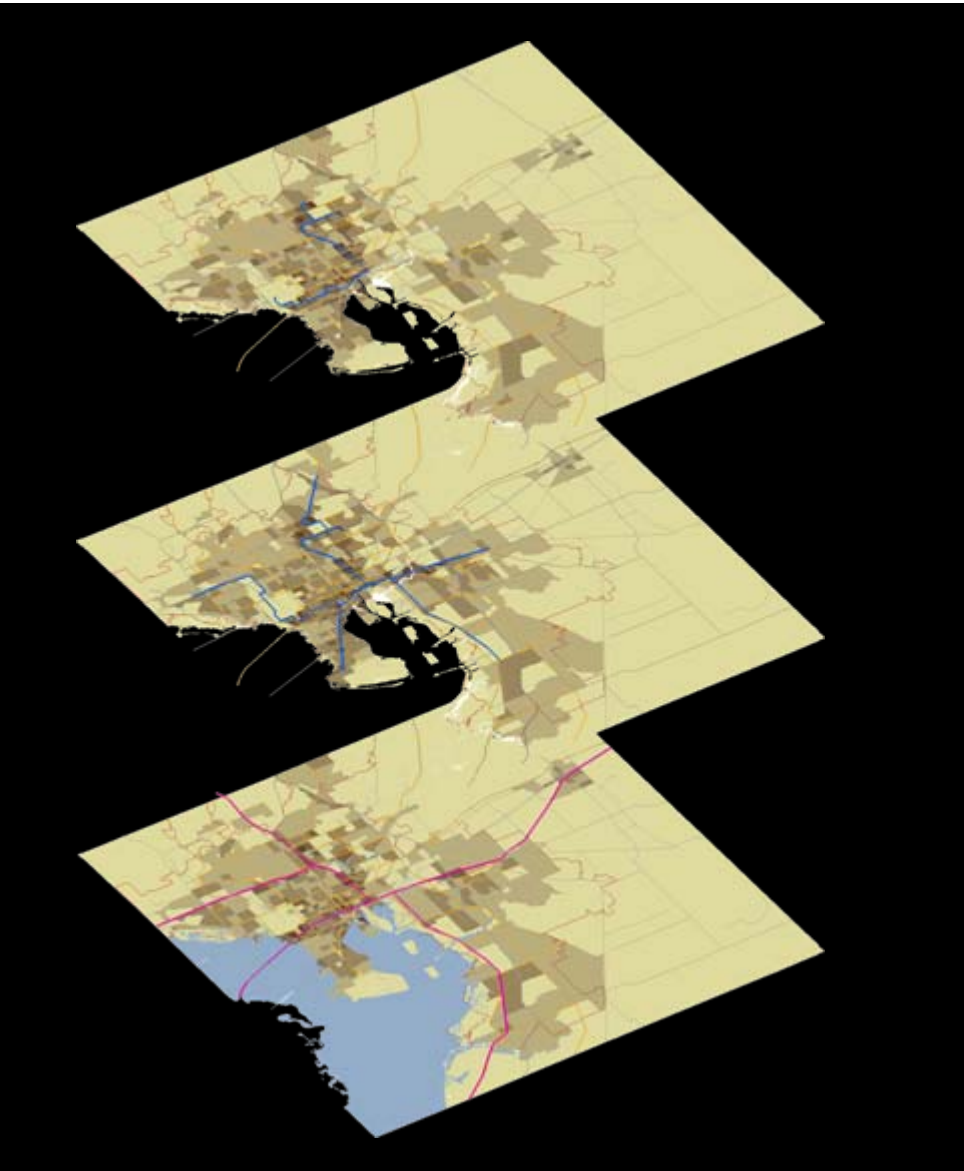
TRANSIT STUDY

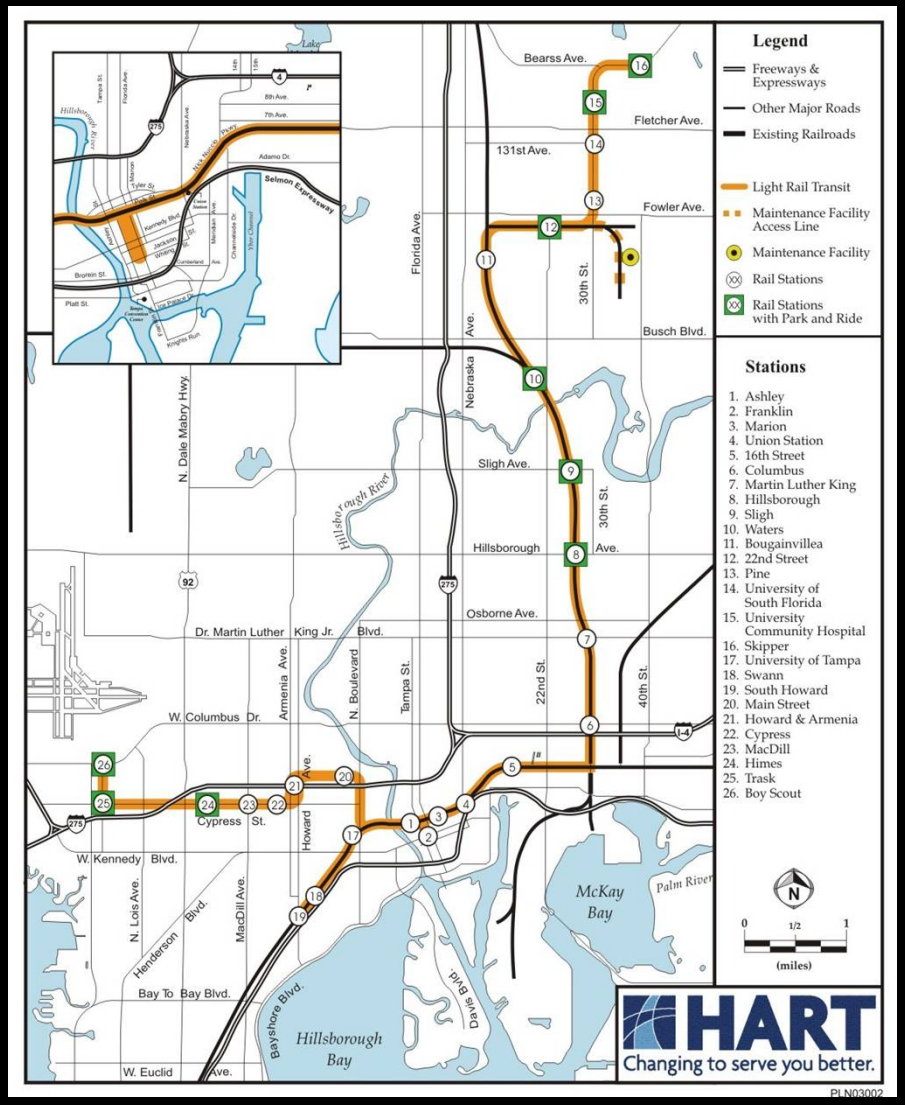
System Design Issues

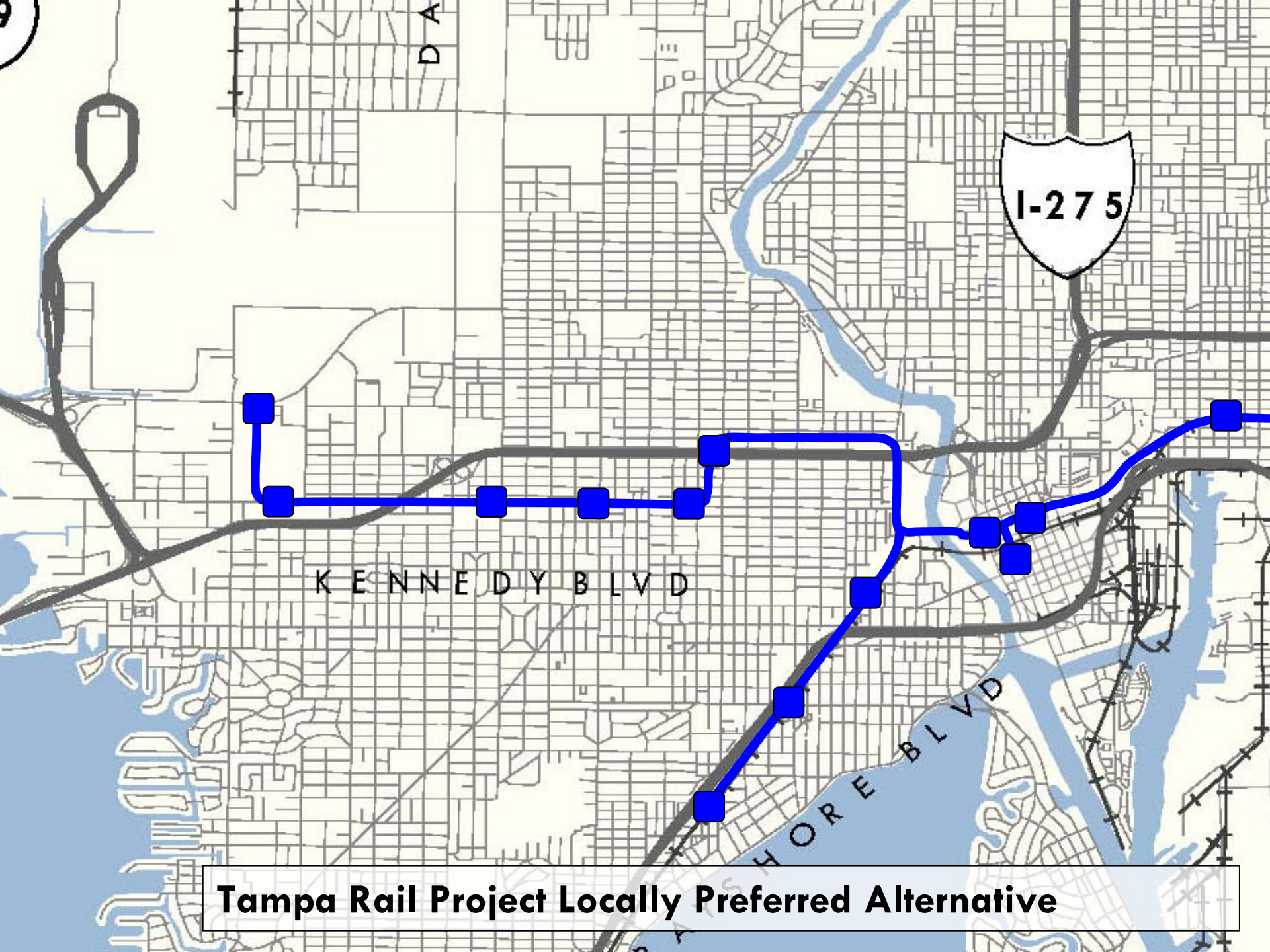
- Connecting Downtown and Westshore
- Downtown Tampa
- USF Area
- I-4 Corridor

Tampa Rail Project

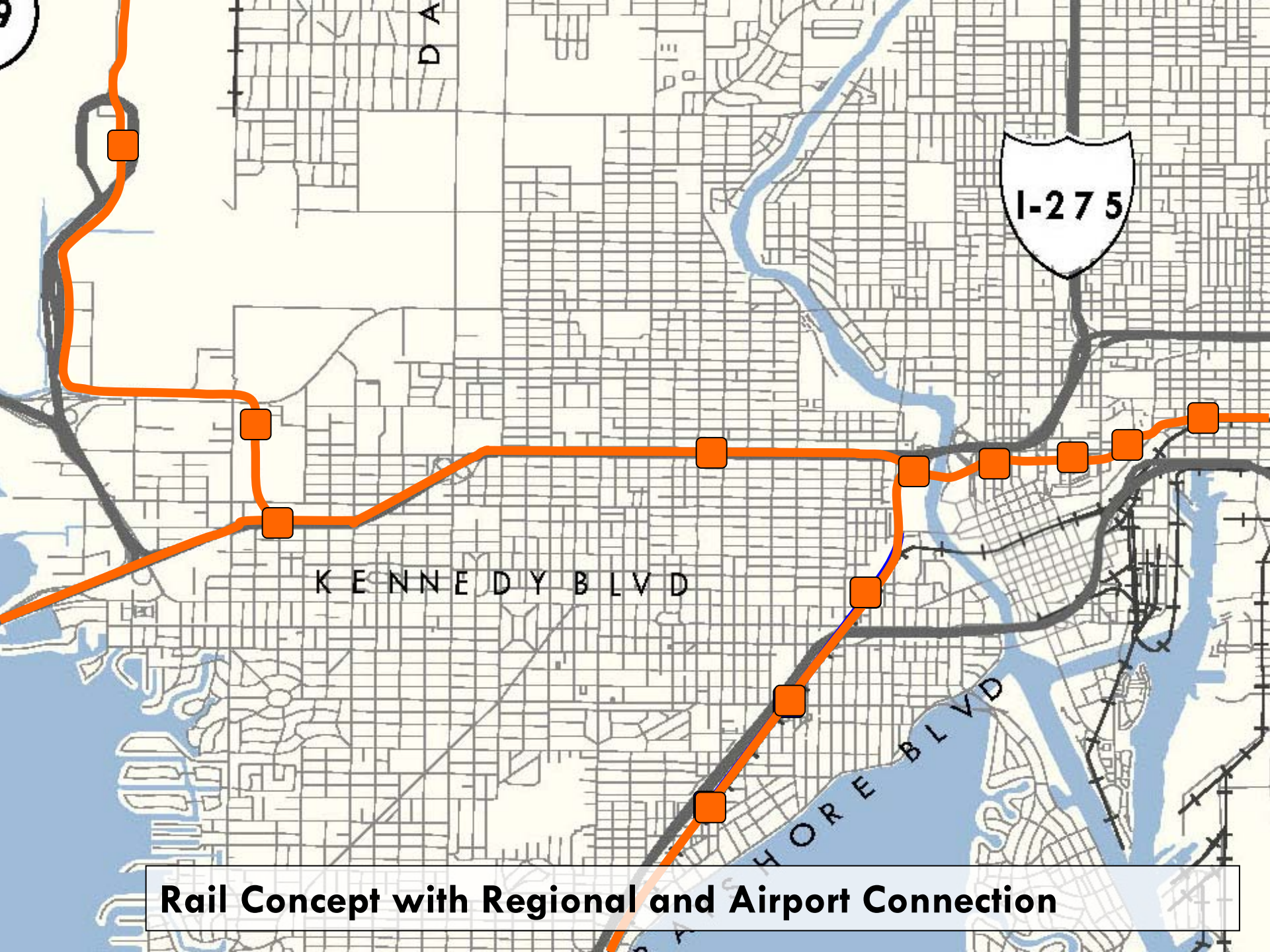
Locally Preferred Alternative



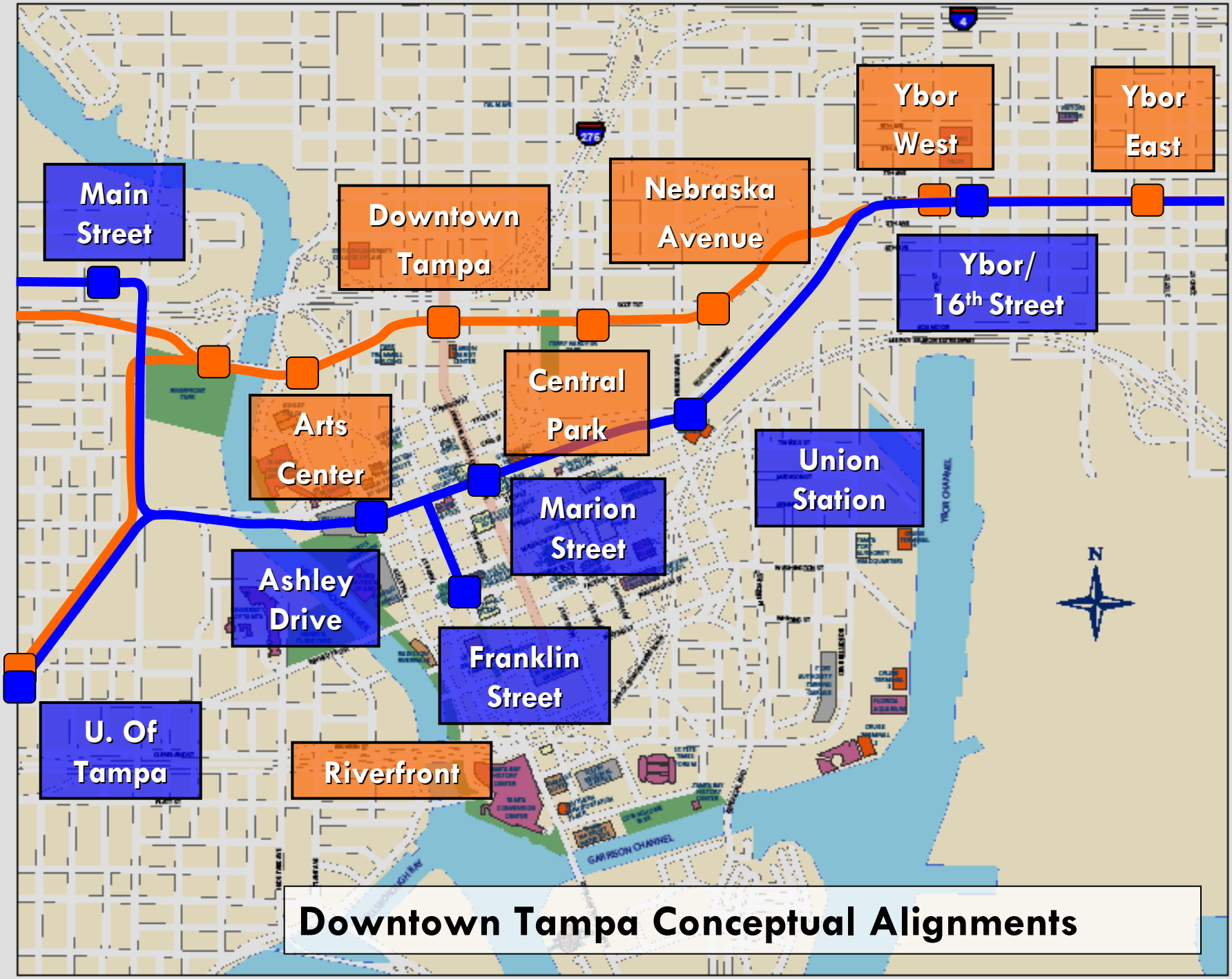


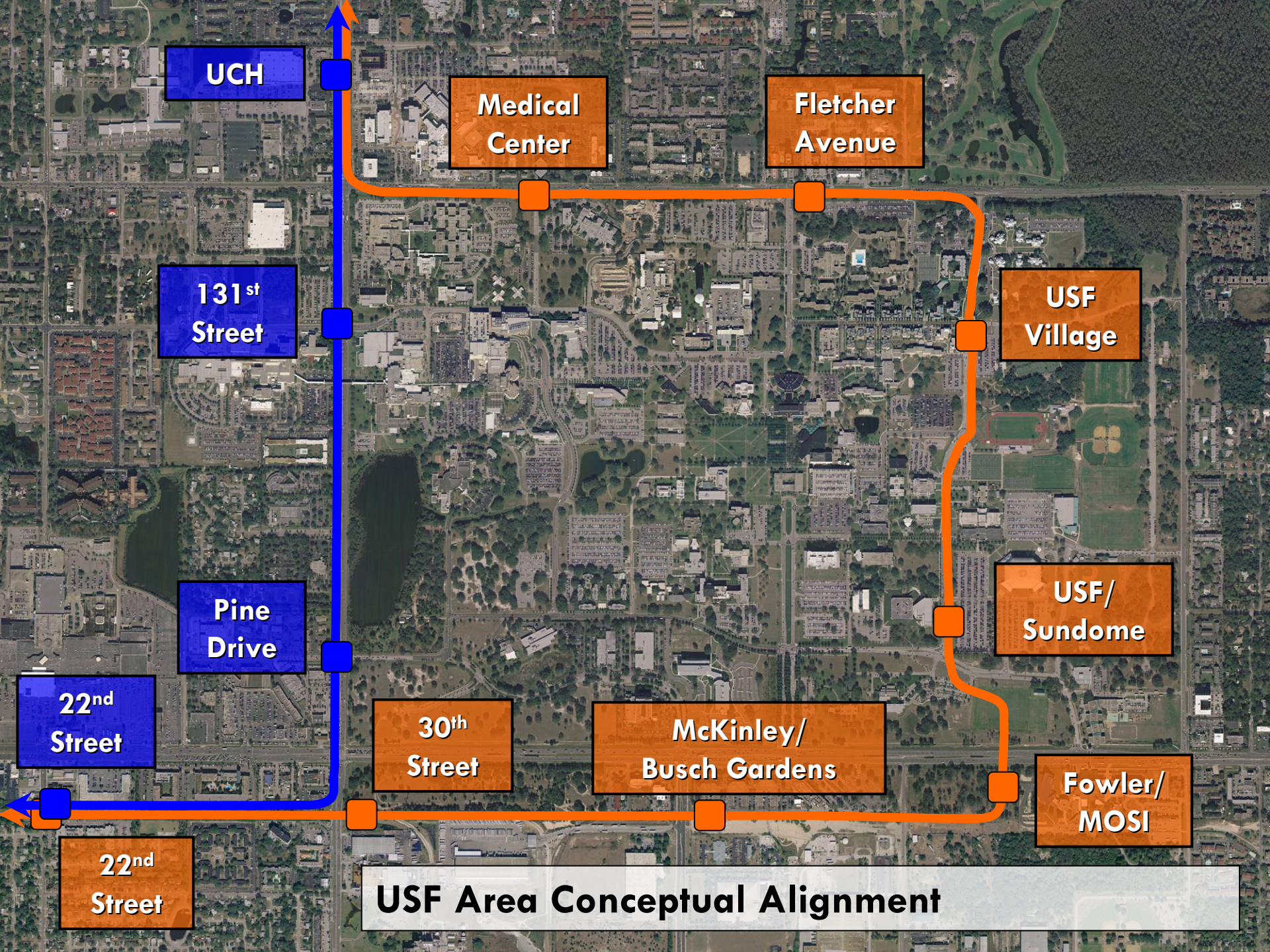


Tampa Rail Project Locally Preferred Alternative



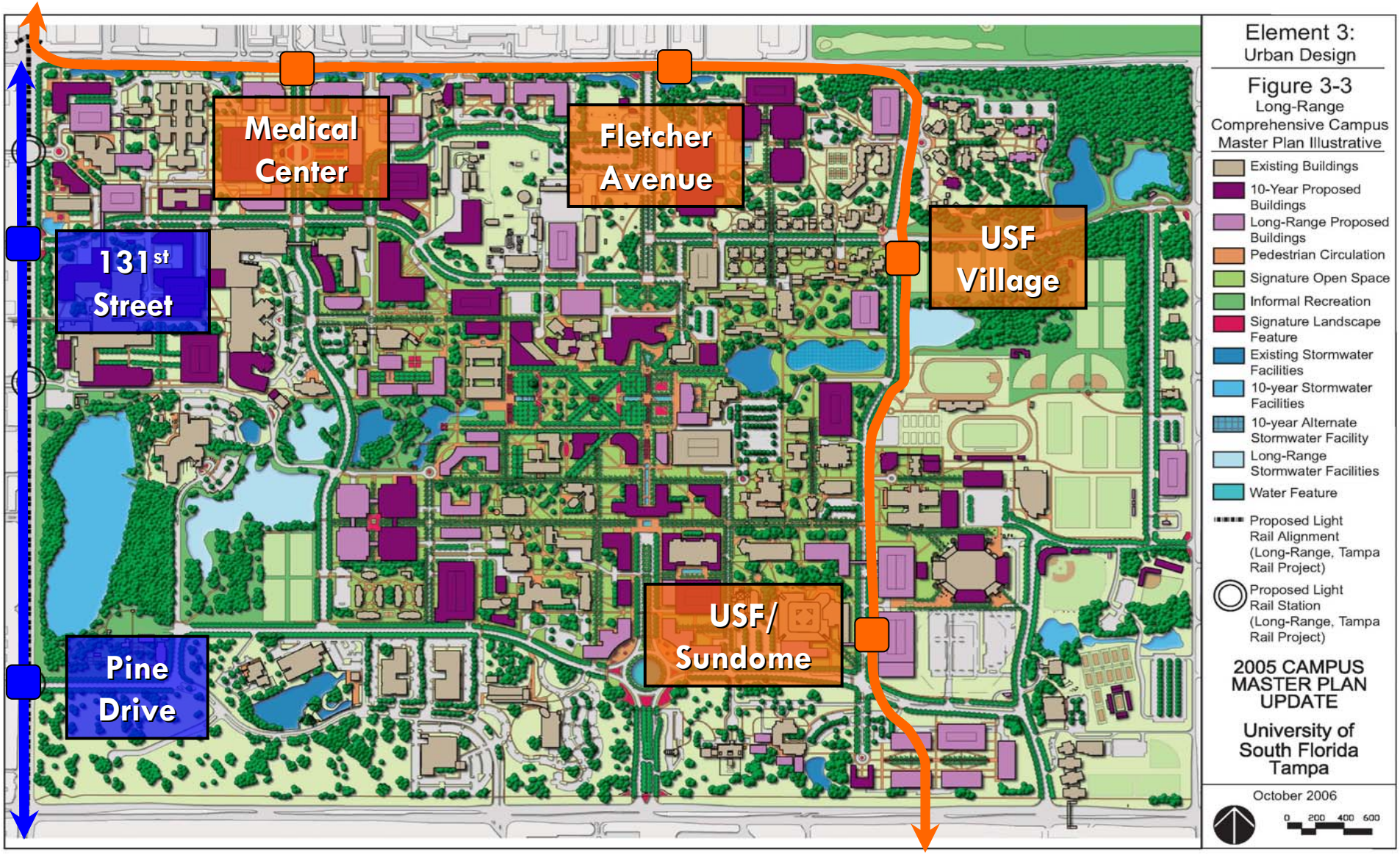
Rail Concept with Regional and Airport Connection

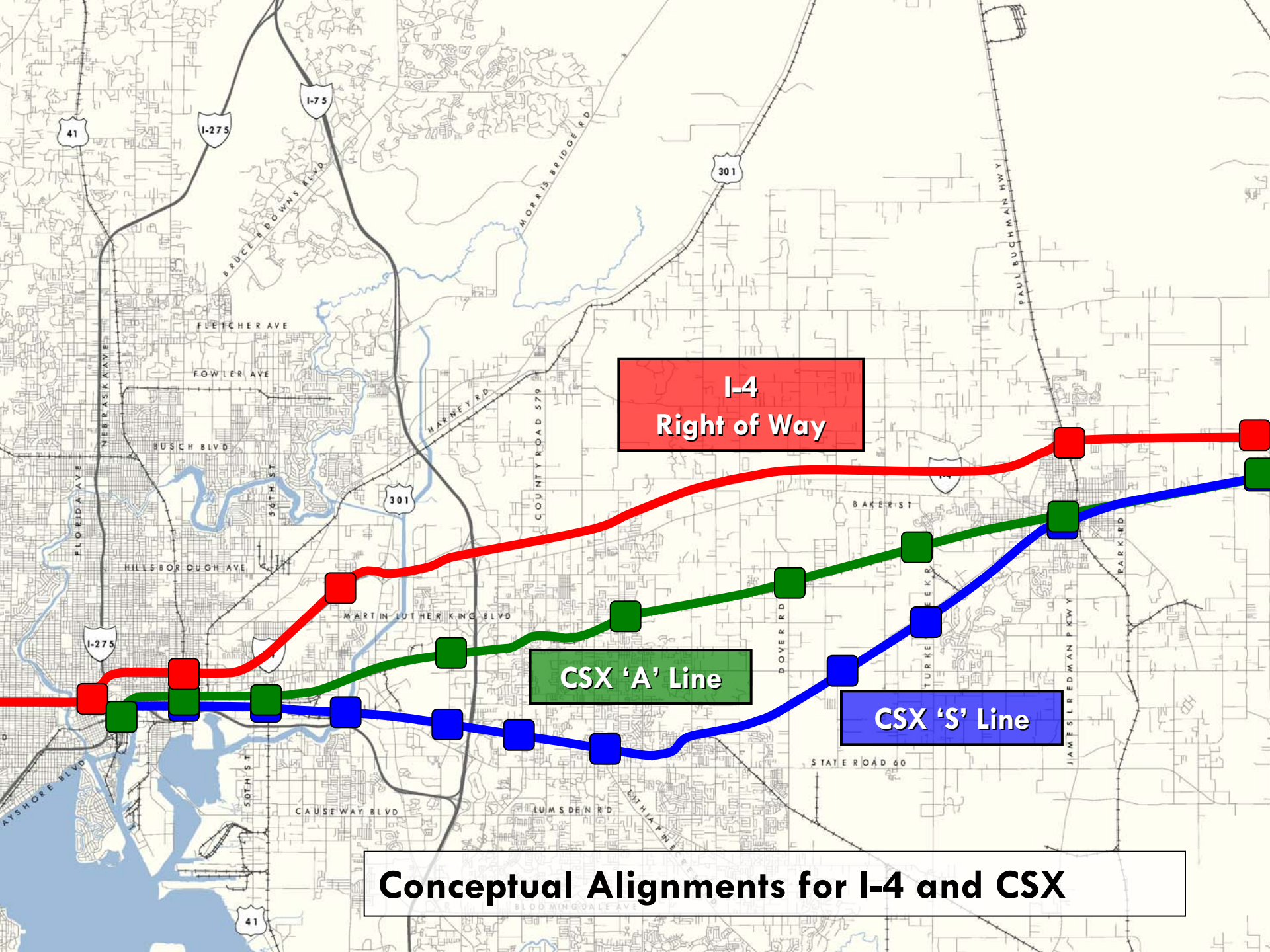

Main Street
Downtown Tampa
Nebraska Avenue
Ybor West
Ybor East
Ybor/ 16th Street
Arts Center
Central Park
Union Station
Marion Street
Ashley Drive
Franklin Street
U. Of Tampa
Riverfront
N
Downtown Tampa Conceptual Alignments



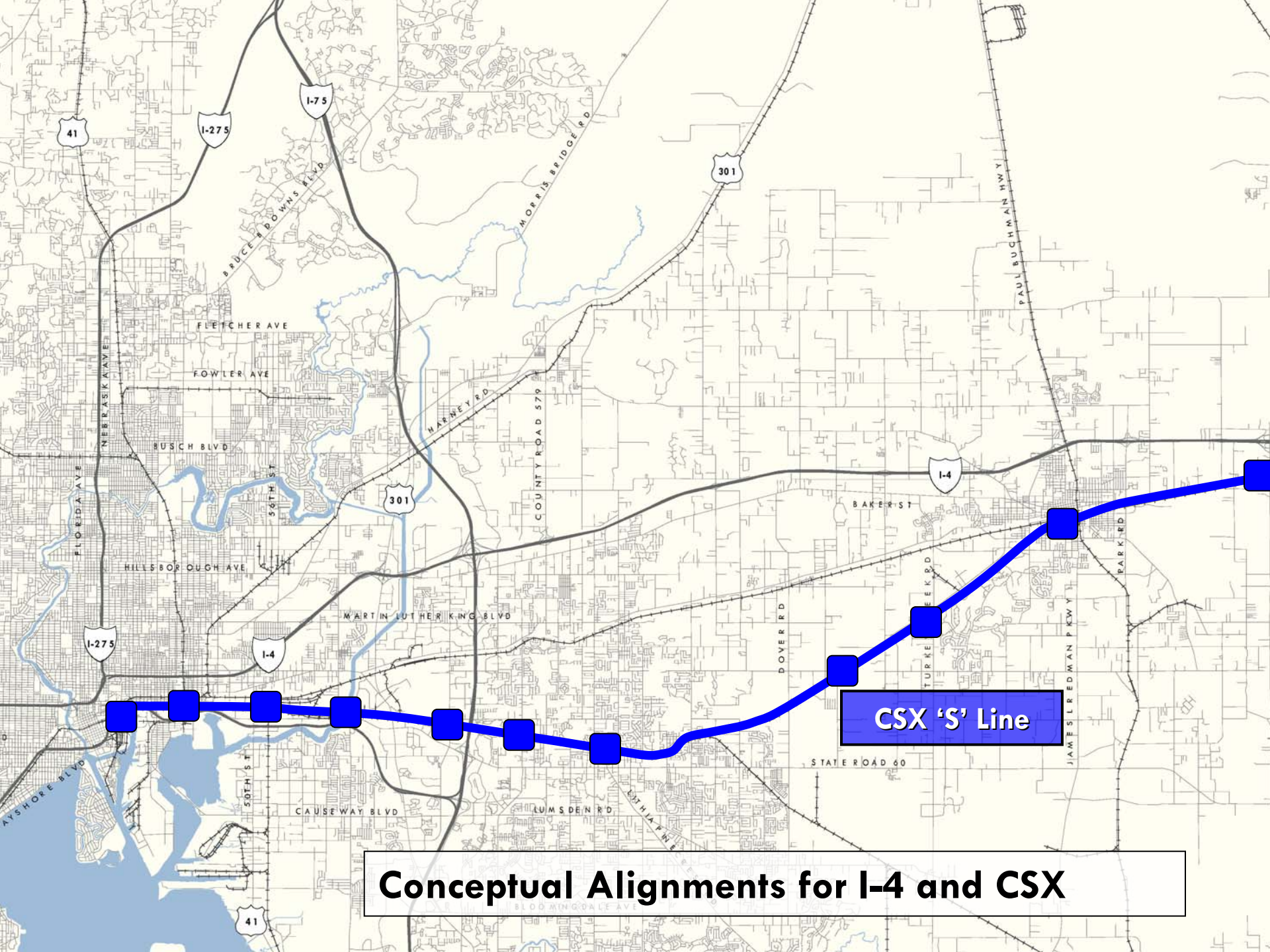
USF Area Conceptual Alignment

USF Conceptual Alignment





Conceptual Alignments for I-4 and CSX



Conceptual Alignments for I-4 and CSX

Current Activities and Next Steps

Meetings

- MPO and Committees (Aug and Sep)
- Leadership Team (Aug 20)
- Technical Team (Aug 23)
- MOSI Open House (Aug 25)

Next Steps

- Transit Needs & Opportunities (May)
- Evaluation of Scenarios (Jun-Jul)
- Public Outreach (Aug)
- System Concept (Sept)
- Strategies (Oct-Nov)