# Is enhanced transit viable in the region?

Onondaga County Planning Federation Syracuse, NY March 1, 2018



# Topics

- Introduction to the Syracuse Metropolitan Transportation Council
- Bus Rapid Transit & Light Rail Transit
- SMART 1 enhanced transit study



# Introduction to the Syracuse Metropolitan Transportation Council



# What is an MPO?

- A Metropolitan Planning Organization, or MPO, is a transportation policy-making and planning body made up of representatives of local, state, and federal government and transportation authorities.
- The Policy Committee (not the staff) is the designated MPO.











# What is an MPO?

- A federal requirement for urbanized areas with a population of 50,000 or more (based on most recent decennial Census)
- The MPO is charged with comprehensive, cooperative, and continuous transportation planning for a metropolitan area.







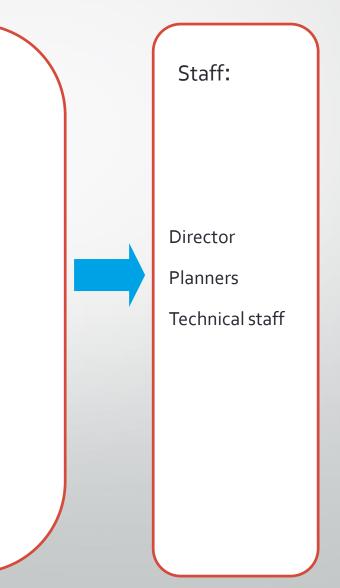




# Who is the SMTC?

## **Policy Committee members:**

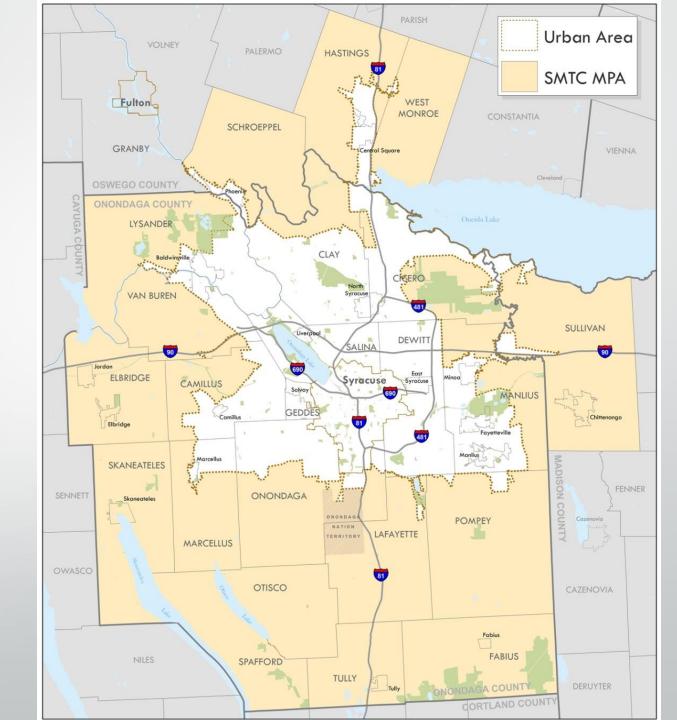
- CenterState Corporation for Economic Opportunity
- CNY Regional Planning & Development Board
- CNY Regional Transportation Authority (Centro)
- City of Syracuse
  - Office of the Mayor
  - Common Council
  - Planning Commission
- New York State
  - Department of Environmental Conservation
  - Department of Transportation
  - Empire State Development
  - Thruway Authority
- Onondaga County
  - Office of the County Executive
  - Legislature
  - Planning Board



# **SMTC Planning Area**

- All of Onondaga County
- Town of Sullivan in Madison County
- Towns of West Monroe, Hastings, Schroeppel, and small portion of Granby in Oswego County

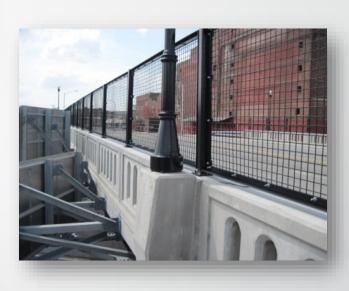
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# **Quick stats**

- 1 City, 23 Towns, 18 Villages, 1
  Tribal Nation
- Total population: 504,672
- Bridges: 554
- Roadway mileage: 4,244
- Miles of on-road bicycle facilities: 18.9
- Annual transit ridership: ~10 million
- international airport
- 1 intermodal rail yard





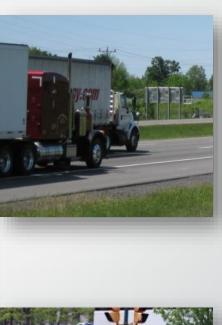


# What does the SMTC do?

- Comprehensive transportation planning includes
  - Automobiles and the road network
  - Freight
  - Transit
  - Bicycling
  - Walking

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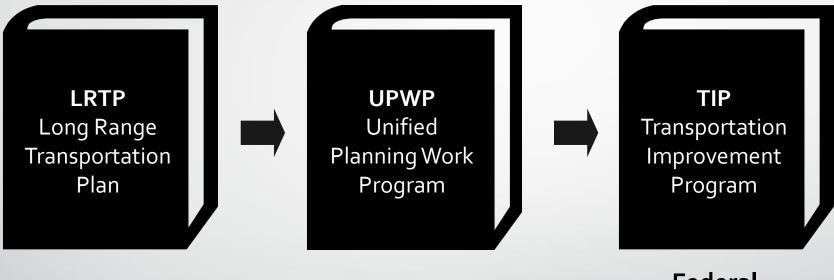
# What does the SMTC do?

- Cooperative transportation planning
  - Coordinate between federal, state, and local agencies to develop transportation plans and programs
  - Provide an opportunity for citizens to participate in planning (not implementation)



# What does the SMTC do?

## Continuous transportation planning

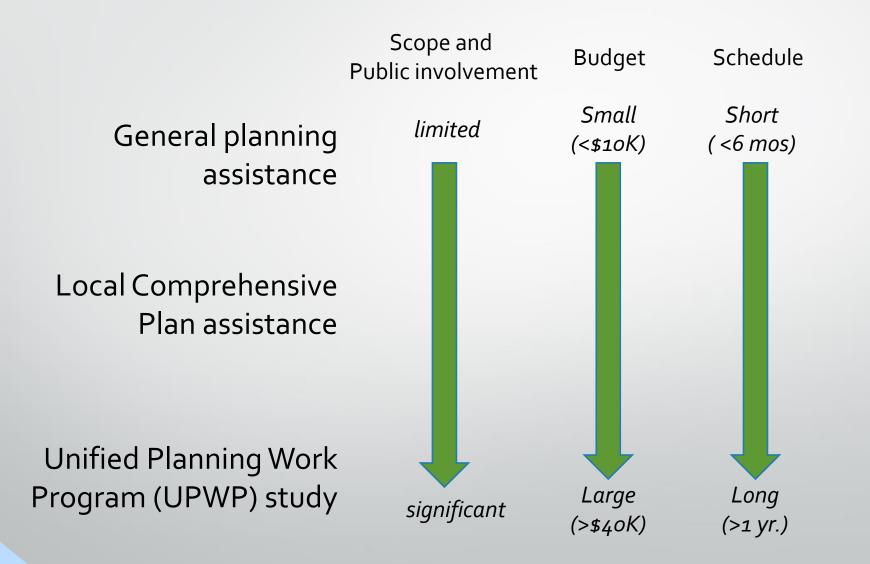


Regional transportation vision Specific transportation studies and plans Federal capital funding program

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## Assistance we can provide

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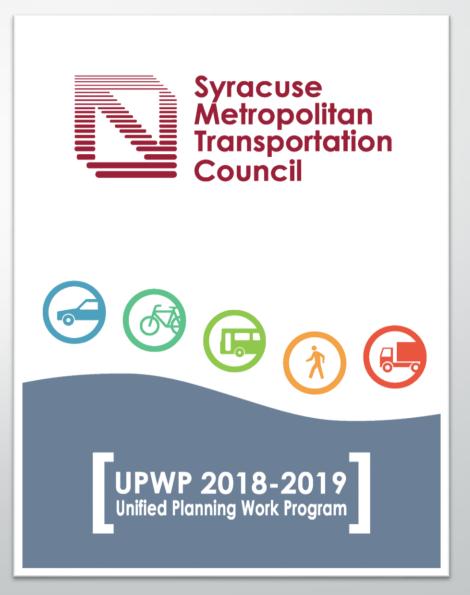
# Local Comprehensive Plan assistance

- Standing UPWP task, sponsored by SOCPA.
- Provide assistance to municipalities that are updating their comprehensive plans.
- Anticipate providing assistance to up to 3 municipalities within one program year.
- Municipalities to be chosen by SOCPA.
- Specific tasks to be defined once a municipality is chosen. Will be documented in a memo to SOCPA and municipality.
- SMTC staff will attend municipal meetings, may present findings at public meetings hosted by municipality.



# **UPWP study**

- Stand-alone UPWP project specific to a municipality(ies).
- Formal application process and specific timeline
- Larger scope and budget, 1-2 year timeframe for completion
- Includes Study Advisory Committee and public involvement



# **Resources available from the SMTC**

- Traffic counts intersections and road segments
- Publications available for download or request a hard-copy
  - Transportation Atlas
  - Bike Suitability Map
  - Canal Services Map
  - Newsletters
- Online interactive maps
  - Pedestrian Demand Model
  - Bike Map
  - Hiking and biking in Central New York



# Why an MPO process?

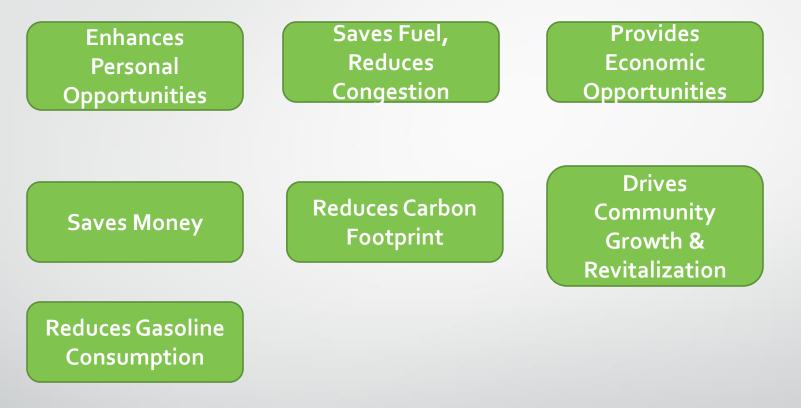
The MPO provides a forum to:

- Collaborate between governments, interested parties, and the public
- Examine the region's future
- Plan to reflect the region's vision
- Prioritize transportation needs
- Balance needs versus limited funding
- Invest funds appropriately
- Express the consensus of the community through member agencies and elected officials

# **Bus Rapid Transit & Light Rail Transit**



# **Transit benefits**



Source: American Public Transportation Association

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# **Transit priority treatments**





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# Syracuse Transit System Analysis

January 2014 PREPARED FOR: New York State Department of Transportation

THE I-81 CHALLENGE

nas Department of Transportation

# SYRACUSE METROPOLITAN TRANSPORTATION COUNCIL

#### LONG RANGE TRANSPORTATION PLAN



Moving Towards a Greater Syracuse

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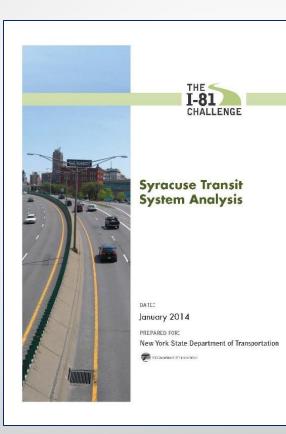
February 2018



BI BI Group, with EDR,CME

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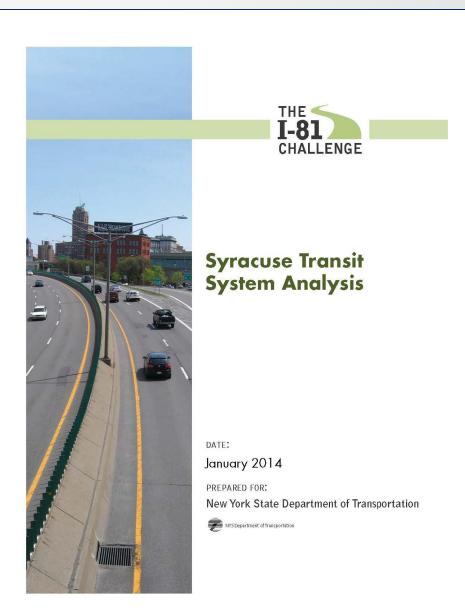
# 1 Syracuse Transit System Analysis





# **Syracuse Transit System Analysis**

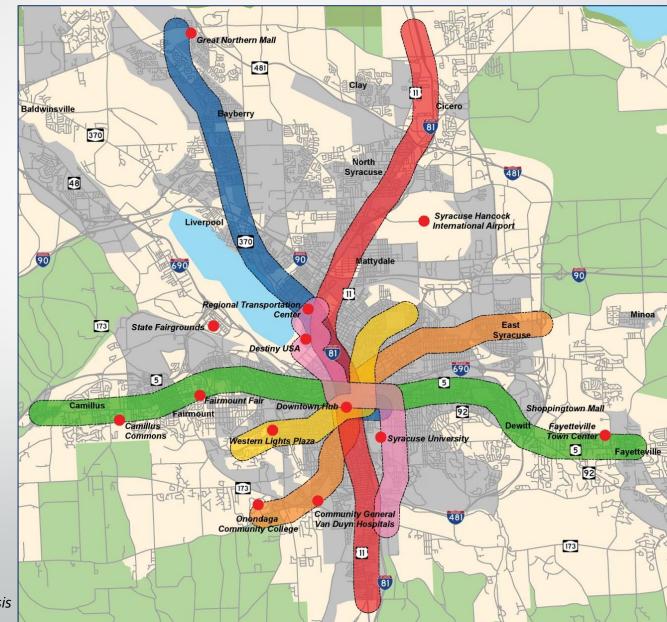
- Completed by New York State Department of Transportation as a component of The I-81 Challenge
- Serve as a potential long-range vision for transit in the area
  - Identified transit enhancement corridors
- Three transit enhancement strategies (Base Build, BRT & LRT)



# **Transit enhancement corridors**



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Source: Syracuse Transit System Analysis

# **Enhanced transit concepts**









Portland, OR

# **Characteristics of BRT**



Source: Characteristics of Bus Rapid Transit for Decision-Making

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#### BRT: Busway MLK Jr East Busway, Pittsburgh, PA



Image Source: usa.streetsblog.org

#### BRT: Bus-Only Lanes HealthLine, Cleveland, OH



Image Source: Sasaki.com

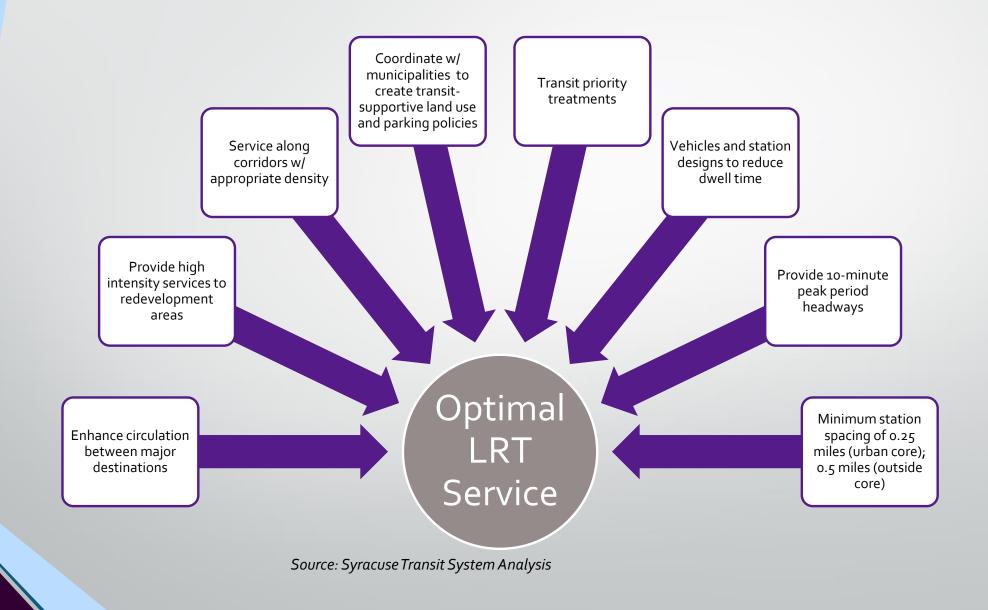
#### BRT: Mixed Traffic BusPlus, Albany, NY



Image Source: timesunion.com

# LRT service objectives

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### LRT METRO Green Line, Minneapolis, MN

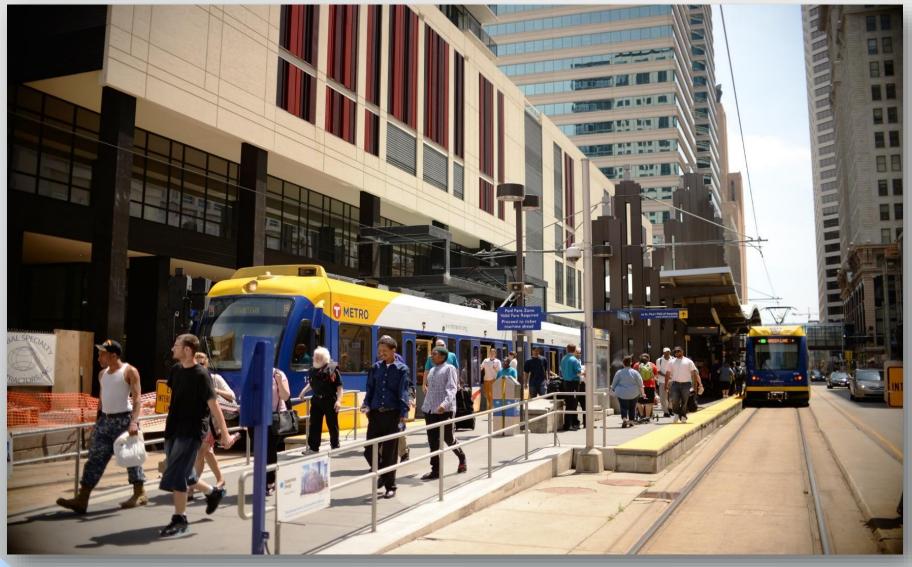


Image Source: metrotransit.org

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## LRT: Modern Streetcar Sun Link, Tucson, AZ



# 2050 Long Range Transportation Plan

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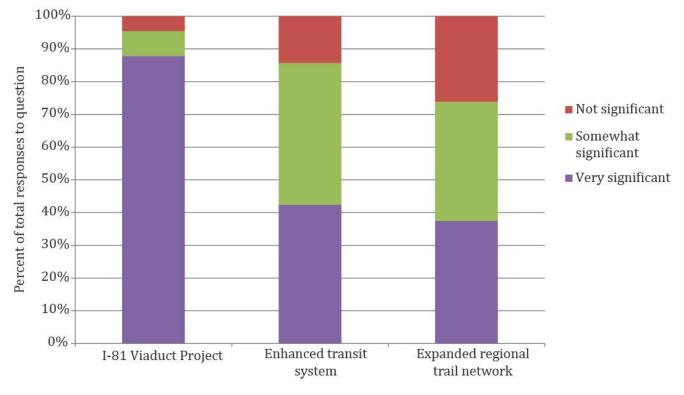
SYRACUSE METROPOLITAN TRANSPORTATION COUNCIL 2050 LONG RANGE TRANSPORTATION PLAN

Moving Towards a Greater Syracuse

# 2050 Long Range Transportation Plan

- Vision of transportation system in the SMTC's planning area
- SMTC's 2050 Long Range Transportation Plan includes an "enhanced transit system" as a regionally significant priority project.

Public feedback on significance of major projects



# 3 SMART 1 enhanced transit study

SMTC







By IBI Group, with EDR,CME

Prepared for Syracuse Metropolitan Transportation Council

# Overview

- On behalf of Centro
- Follow-on study from
  Syracuse Transit System
  Analysis
- Feasibility and competitiveness of BRT & LRT
- Develop a competitive project for funding





# **Consultant led study**

Management & oversight



Lead consultant





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#### **Study Advisory Committee**







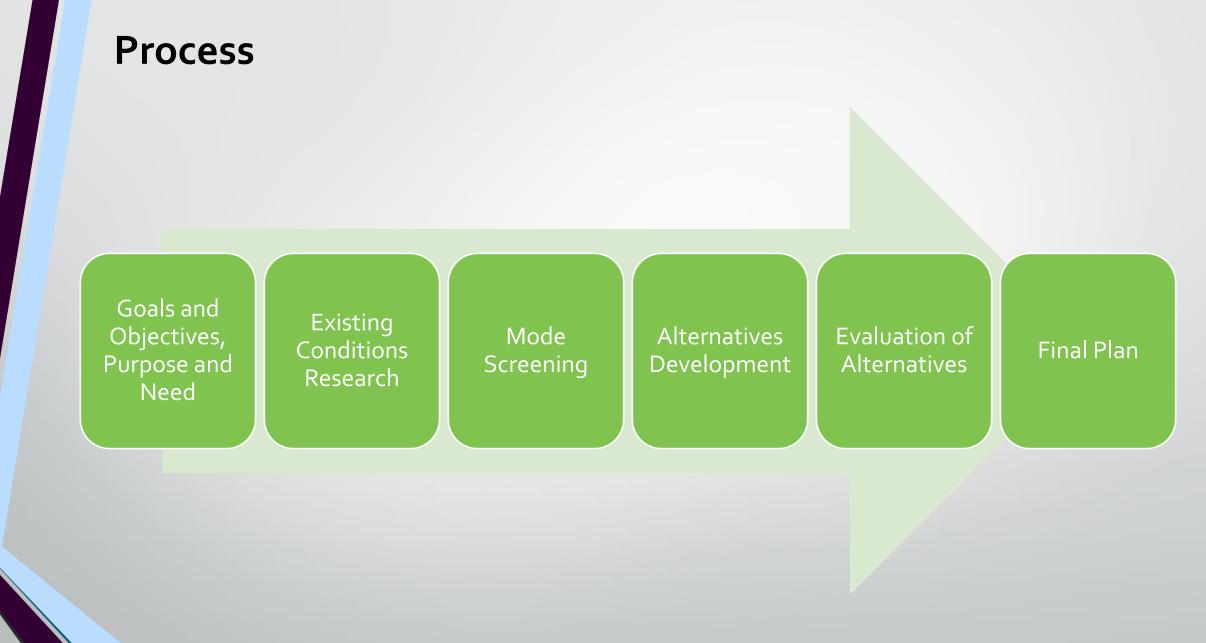
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### **Community engagement**

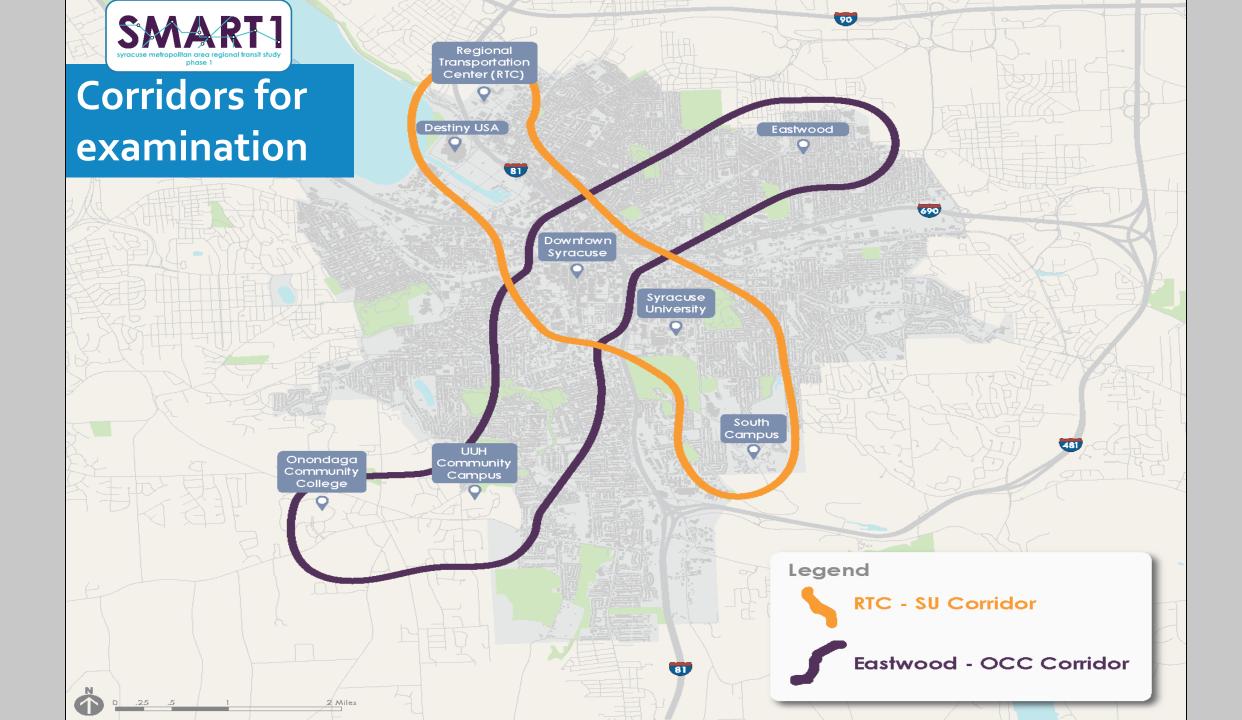
- 3 public meetings
- 3 focus group meetings on various topics
- 9 pop-up meetings at stops along corridors
- Project web site, mail & email announcements
- 2 study brochures
- Frequently Asked Questions











### Existing transit use

- Centro operates:
  - RTC SU corridor
    - ► 42 lines
  - Eastwood OCC corridor
    41 lines
- Top four lines in the system:
  - James Street = 1,772
  - South Salina/Nedrow = 1,288
  - Drumlins/Nob Hill = 1,185
    - South Ave/Valley Dr = 1,157



#### Local characteristics

- Characteristics that influence increase in ridership:
  - Existing transit usage
  - Population density
  - Land use
  - Households in poverty
  - Zero vehicle households
  - Population under 25 years old
  - Population over 65 years old





#### **Enhancement strategies**

Three strategies were developed to evaluate transit in the two corridors:



Existing service improvements



BRT

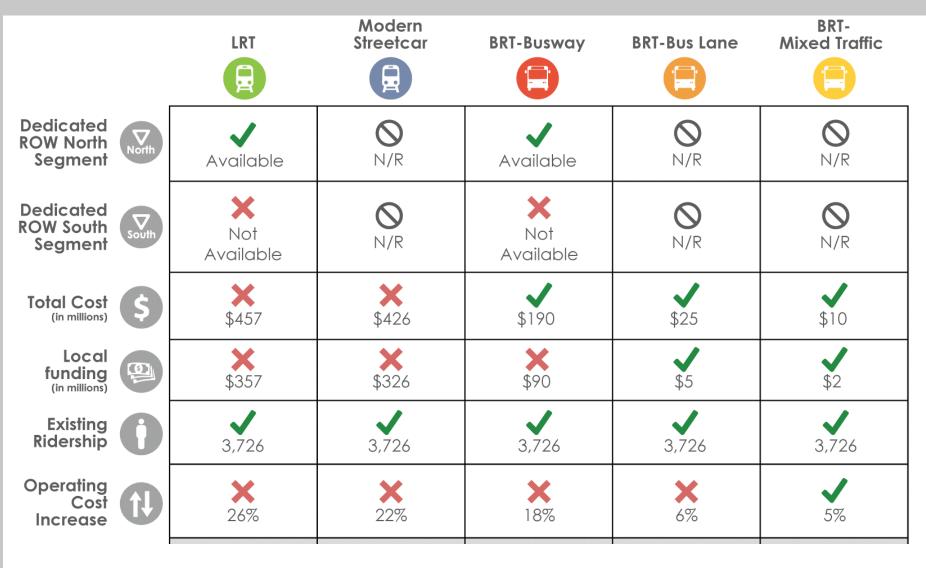


#### Mode screening

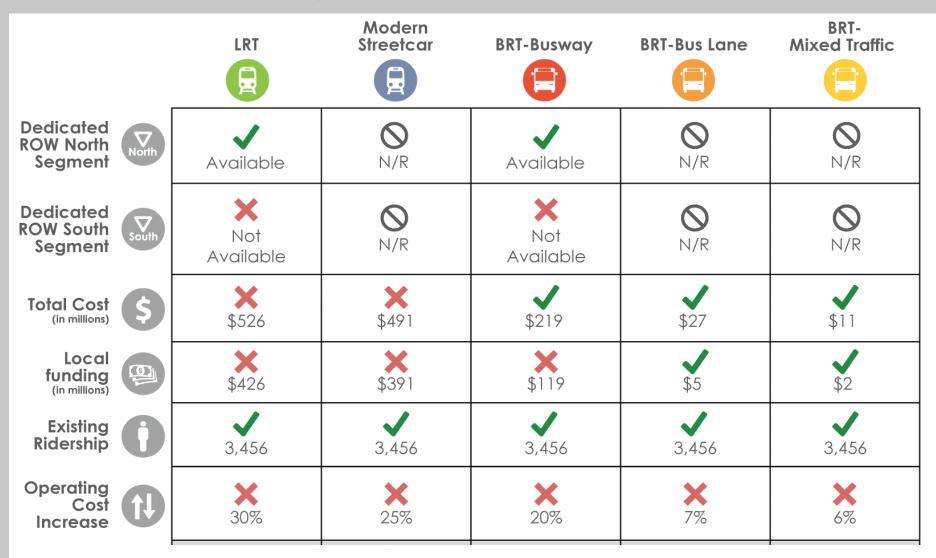
- Dedicated right-of-way: Does adequate ROW exist to construct project?
- Total project capital cost: Less than \$300M
- Maximum practical local funding: Feasibility of providing required local cost share.
- Existing riders on corridor: At least 3,000
- Limited operating cost increases: Less than 5% of current operating costs

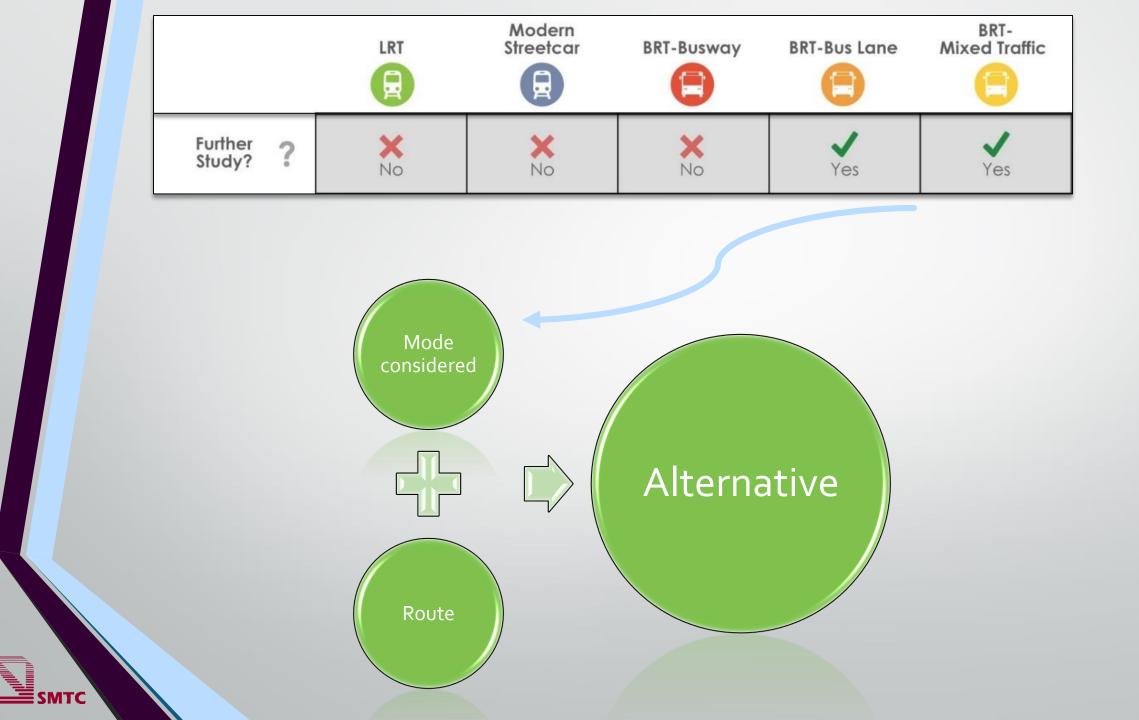


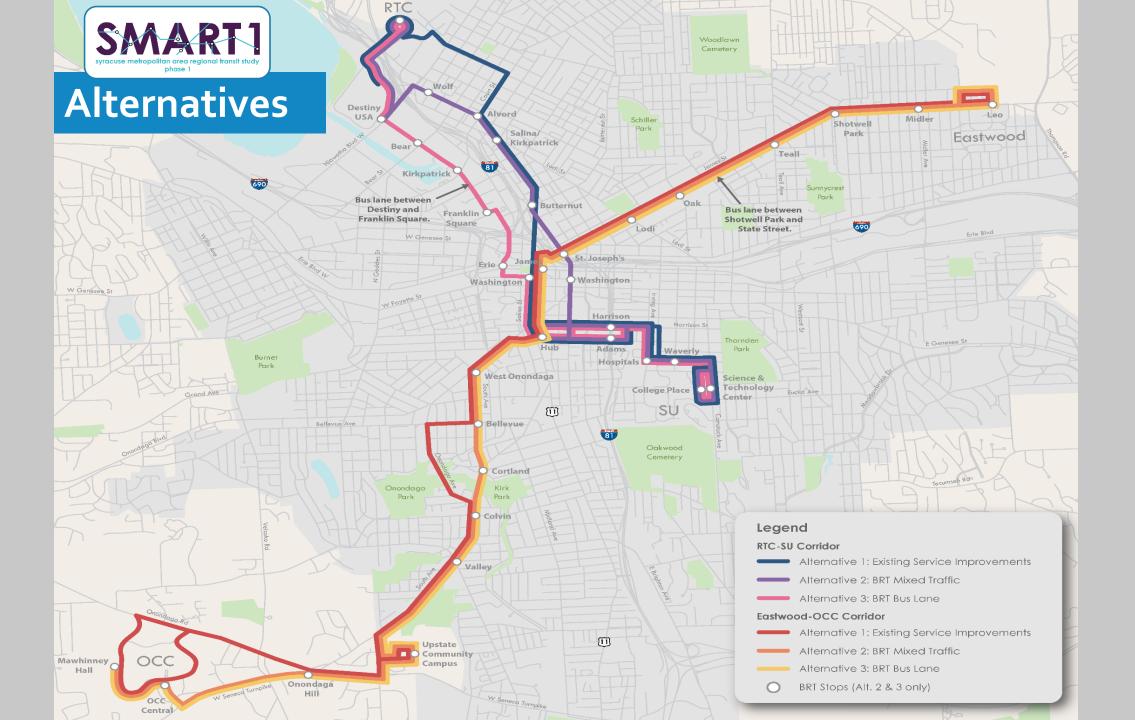
### Mode screening (RTC – SU corridor)



### Mode screening (Eastwood – OCC corridor)







## Alternative: Existing Service Improvements

- Lower cost option
- New shelters
- Transit priority at key locations
- Service every 20 minutes
- Some improvements in travel time



# Alternative: BRT – Mixed Traffic

- Medium cost option
- New shelters at all BRT stations
- Transit priority at key locations
- New branded buses
- More frequent service, every 10-15 minutes
- Cost effective improvements in travel time



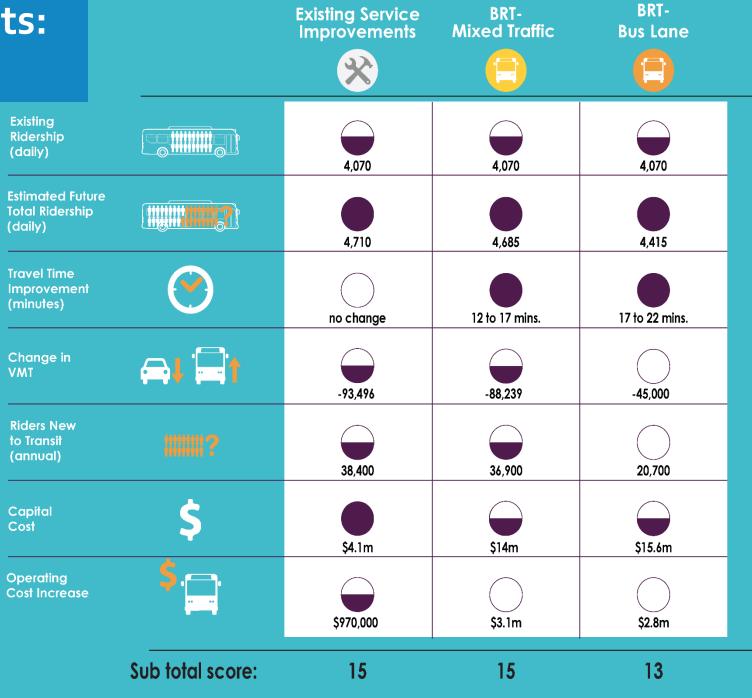
# Alternative: BRT – Bus Lane

- High cost option
- Bus only lane on James St (Grant St to State St) and Solar St (Destiny to Franklin Square)
- New shelters at all BRT stations
- Transit priority at key locations
- New branded buses
- More frequent service, every 10-15 minutes
- Highest improvements in travel time



# Evaluation results: RTC - SU

Key: Less positive (1 pt.) Positive (2 pts.) More positive (3 pts.)



# **Evaluation results: RTC - SU**

lts:		Existing Service Improvements	BRT- Mixed Traffic	BRT- Bus Lane
Transit Supportive Plans & Policies	*	$\bigcirc$		
Serves Existing Activity Centers				
Population & Employment Density	*****	23,814	24,084	23,105
Affordable Housing		32%	30%	21%
Ability of Region to Fu Capital & Operating	nd Ş	$\bigcirc$		
Roadway Suitability & Pedestrian Environme	nt			
Stakeholder Comments	6	$\bigcirc$		
S	ub total score:	15	19	14
	Total score:	30	34	27

# Evaluation results: Eastwood - OCC

ts:		Existing Service Improvements	BRT- Mixed Traffic	BRT- Bus Lane
Existing Ridership (daily)		3,636	3,636	3,636
Estimated Futu Total Ridership (daily)		4,710	4,643	4,740
Travel Time Improvement (minutes)	<b>()</b>	no change	17 to 19 mins.	19 to 21 mins.
Change in VMT		-294,183	-257,442	-282,240
Riders New to Transit (annual)	*****	64,440	60,420	66,240
Capital Cost	\$	\$4.7m	\$19.5m	\$21.7m
Operating Cost Increase	<b>\$</b>	\$1.5m	\$4.7m	\$4.6m
	Sub total score:	17	16	16

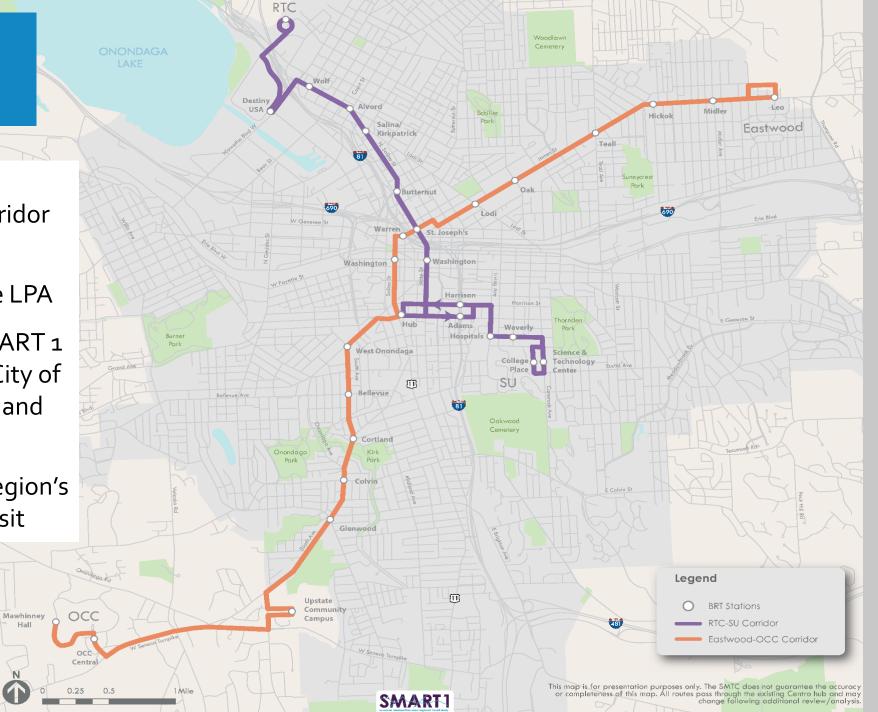
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ts:		Existing Service Improvements	BRT- Mixed Traffic	BRT- Bus Lane
Transit Supportive Plans & Policies		$\bigcirc$		
Serves Existing Activity Centers	K			
Population & <b>Population &amp; Population &amp; Popu</b>	******** *******	14,652	15,257	15,257
Affordable Housing		28%	28%	28%
Ability of Region to Fund Capital & Operating	\$	$\bigcirc$		
Roadway Suitability & Pedestrian Environment	Â			
Stakeholder Comments d		$\bigcirc$		
Sub to	otal score:	14	18	18
Тс	otal score:	31	34	34

## **Locally Preferred** Alternative

- BRT Mixed Traffic recommended for each corridor
- Both corridors, combined, recommended as the single LPA
- Supports SMTC's LRTP, SMART 1 evaluation criteria results, City of Syracuse re-zoning efforts, and community input
- BRT Mixed Traffic is the region's definition of enhanced transit

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#### **BRT – Mixed Traffic costs\***

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	\$33.5M	\$8.3M	
astwood OCC	\$19.5M	\$4.8M	
TC - SU	\$14M	(annual) <b>\$3.5M</b>	
	Capital \$s	Operating \$s	

SMTC

\*planning level estimate

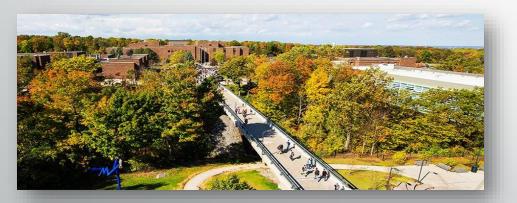
#### **Implementation & Financial Plan**

- 2 funding "tracks" identified (Small Starts, Non-Small Starts)
- FTA Small Starts program is a multi-step, multi-year process done in close coordination with FTA
- Non-Small Starts approach could rely on a number of other existing funding programs
- Funding for annual, on-going operations is essential



#### Next steps

- Discussions with community leaders, businesses, educational institutions
- Identify a "champion" to advance LPA







#### Other transit items

- Park-n-Ride system
- Centro surveys
  - Rider
  - Non-rider
  - Employer







### Get involved, stay informed!

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Visit us on the web: www.smtcmpo.org



Syracuse Metropolitan Transportation Council

Email us: contactus@smtcmpo.org

