# Poughkeepsie 9.44.55

Rethinking the Arterials & Interchange



### NYSAMPO Conference

May 9, 2023





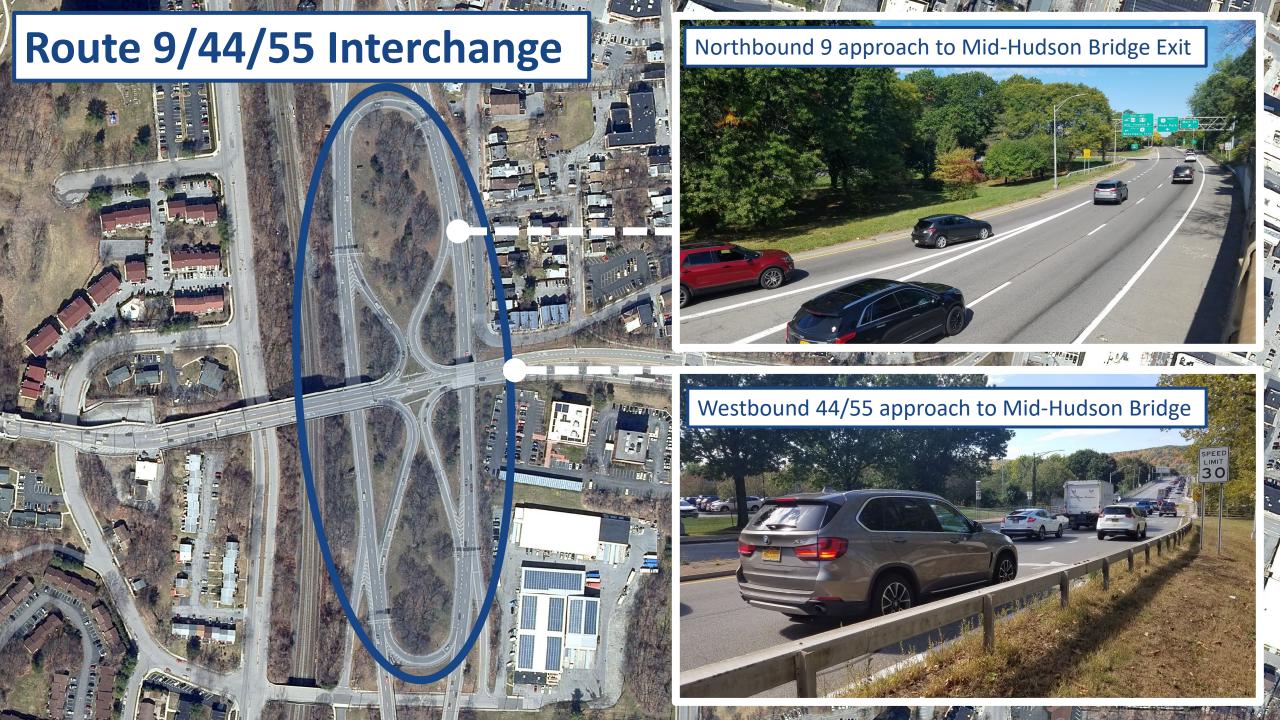


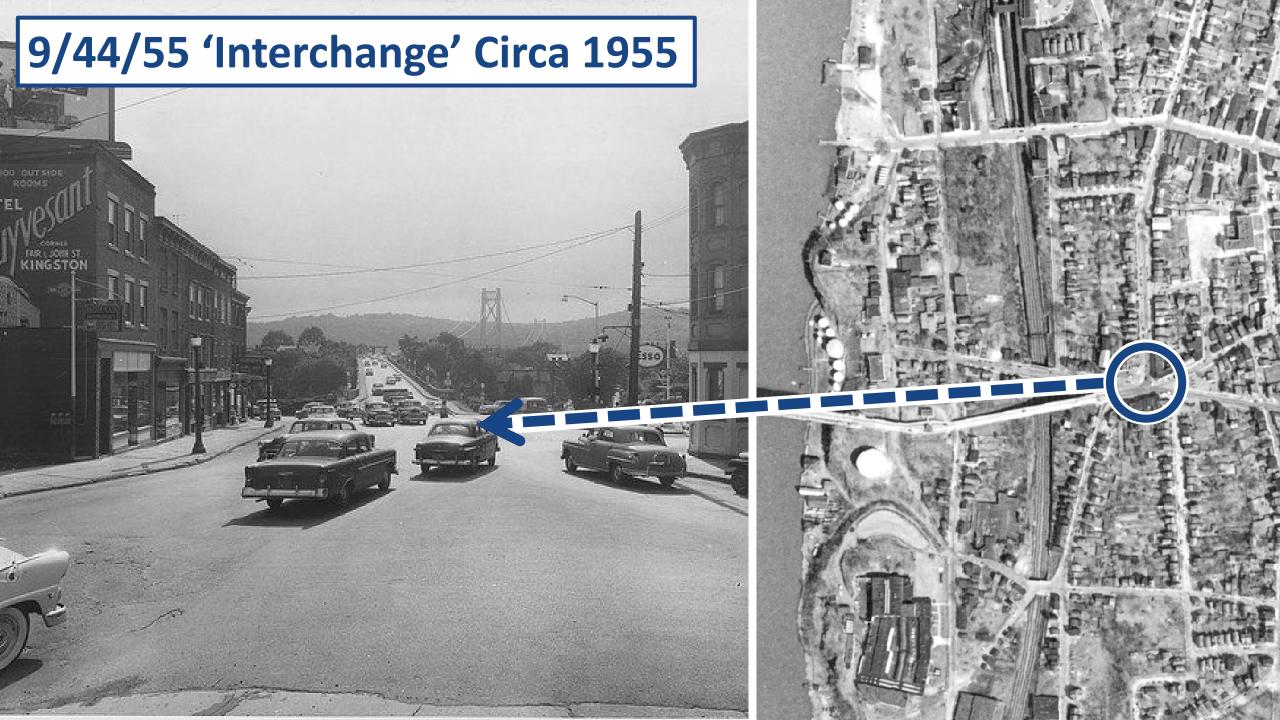
# Agenda

- 1. Setting the stage
- 2. Planning takeaways
- 3. Phase 1: Interchange
- 4. Phase 2: Arterials
- 5. Post Study



### 9.44.55 Study Area Washington St. Walkway Over the Hudson [9] Post Office City Hall Poughkeepsie \_\_\_ Station Main St. Mid-Hudson Bridge Westbound Arterial Jefferson St. Eastbound Arterial Raymond Ave. Poughkeepsie Vassar Brothers Medical Center Hudson River High School Vassar College College Ave.









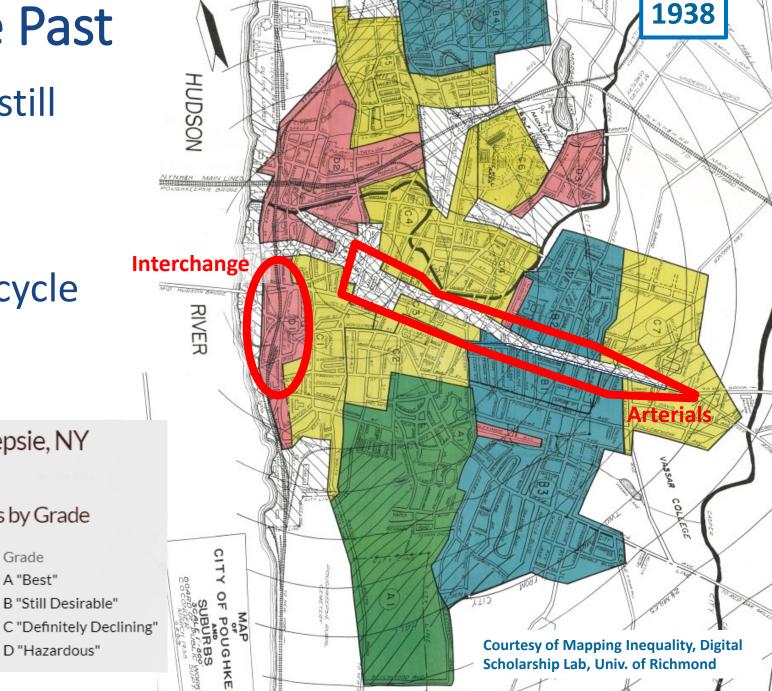
# And Don't Forget the Past

- Past policies & decisions still resonate today
- Redlining (1935-1940)
- Be open to breaking the cycle through planning

Poughkeepsie, NY

Areas by Grade

Grade A "Best"







# Poughkeepsie 9.44.55

#### 1. What it was?

 Detailed look at the 9/44/55 Interchange and 44/55 Arterials in Poughkeepsie

#### 2. How did it start?

- 2018 Call for Planning Proposals (2019-2020 UPWP)
- Separate proposals: NYSDOT-Interchange & Poughkeepsie-Arterials

### 3. Why then?

- Timing was right for the MPO, agencies, and local leadership
  - Window of time when county, city, & town interests were aligned
  - Planning funds available

Read the room and find the right time



# Poughkeepsie 9.44.55 – Takeaways

#### 1. Find Balance

- Regional & local transportation needs
- Don't chase Level of Service (LOS)

Lesson #1: One doesn't need to come at the cost of the other

### 2. Manage expectations

Time, funding, & scope

Lesson #2: Be real about what you can and can't do

### 3. Make public outreach agile

Don't take public 'feedback' personally

Lesson #3: Planners will invariably serve as a sounding board

### 4. Keep talking after the study

Relish the small victories

Lesson #4: Keep the momentum going and try for early wins

## **Study Purpose**

- Identify feasible design concepts for the Route 9/44/55 Interchange and Route 44/55 Arterials:
  - Based on an informed and public process that...
  - Maximizes safety, livability, and connectivity, and
  - Delivers acceptable traffic operations





# **Study Branding**





#### Color Scheme

RGB	Primary Color	Gradients	
Dark Blue (24/69/132)			
Medium Blue (61/123/191)			
Gold (228/156/37)			





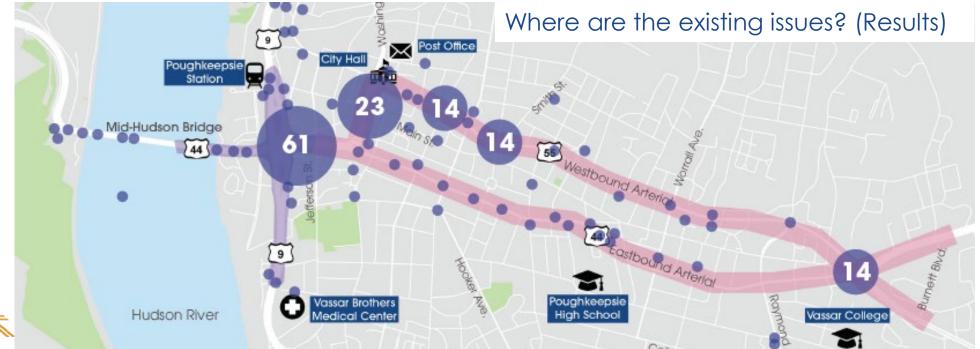
# **Public Outeach**

# First Friday | 2019

Poughkeepsie 9.44.55

Interchange Priorities	Dot Count
Simplify Confusing Travel Patterns	85
Reduce Crashes	45
Reduce Traffic Impacts from Crashes & Breakdowns	26
Reduce Speeds on Route 9	20
Total	176

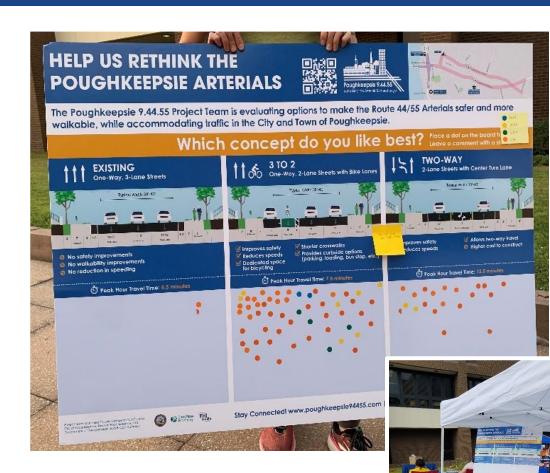




# Open House | 2020



# Poughkeepsie National Night Out | 2021

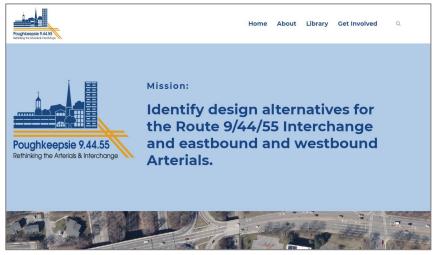






# Virtual | 2019-2021

#### **Study Website**

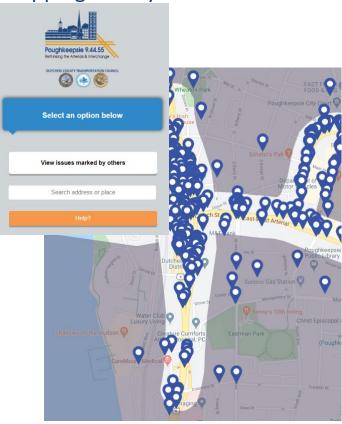


#### Social Media





#### **Mapping Survey**



Over 400 comments submitted

#### **Virtual Meetings**







# Interchange

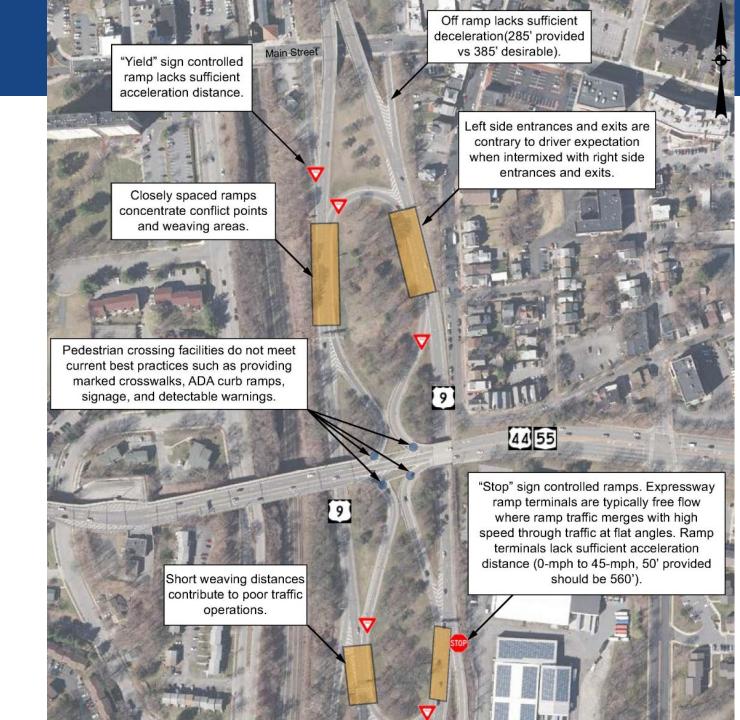
## Interchange

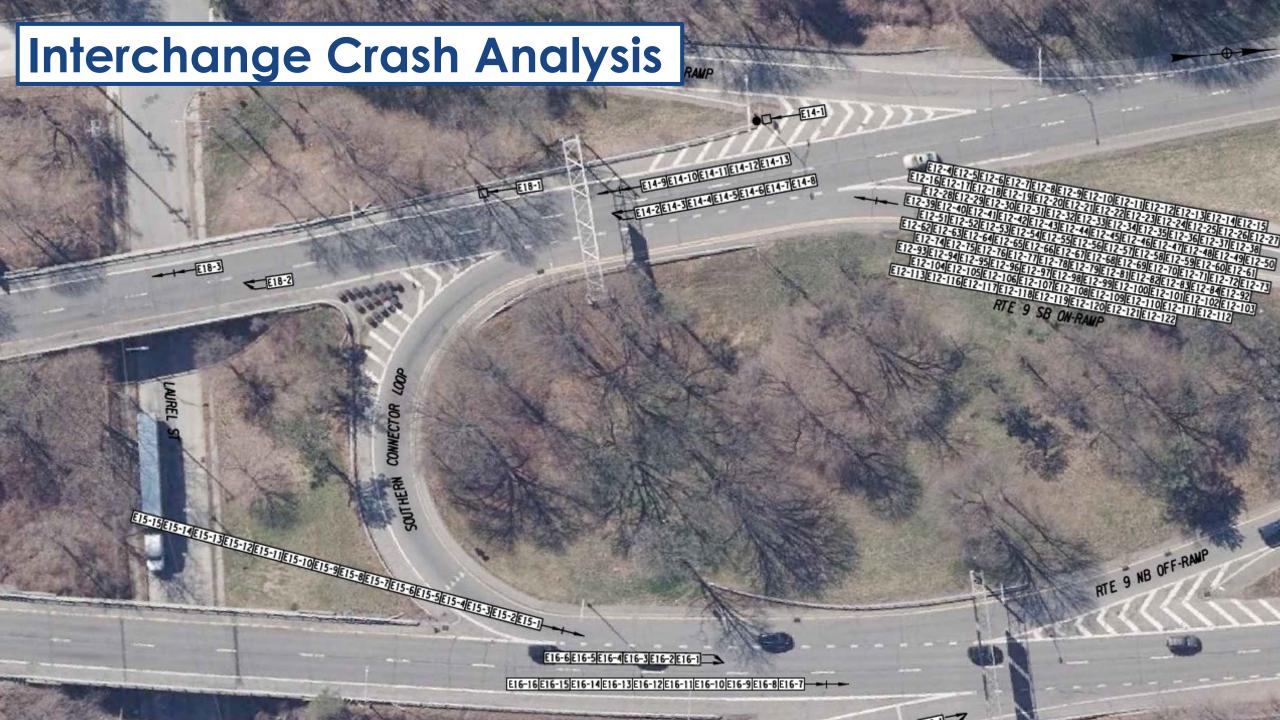
### Existing Conditions

- Left side weaves
- Closely spaced ramps
- Yield and Stop control
- Acceleration and deceleration distances
- Pedestrian facilities

LOS F at peak times



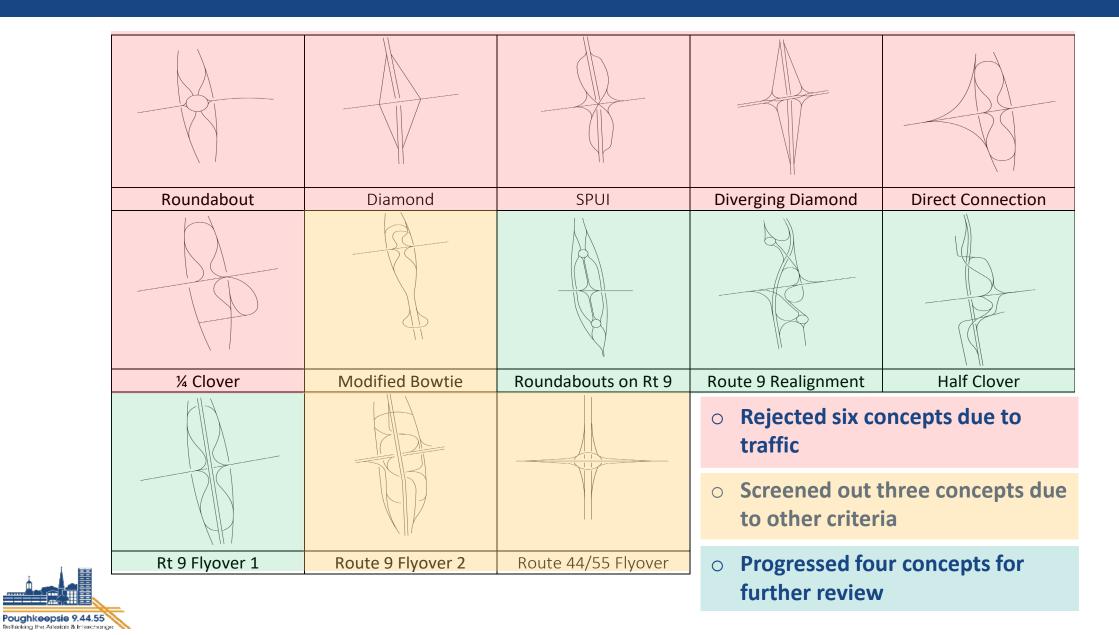






# Interchange Concepts

### Null + 13



# **Concepts for Review**

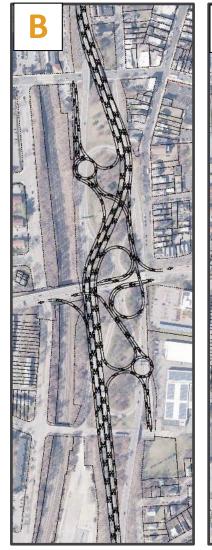
No-Build



Roundabouts on Route 9



Route 9 Realignment



Half Clover



Route 9 Flyover





### **Evaluation Criteria**

### Address known safety concerns

 Improve ramp spacing, eliminate left-side weaves, reduce speed on Route 9, provide an intuitive design, and improve accel/decel areas

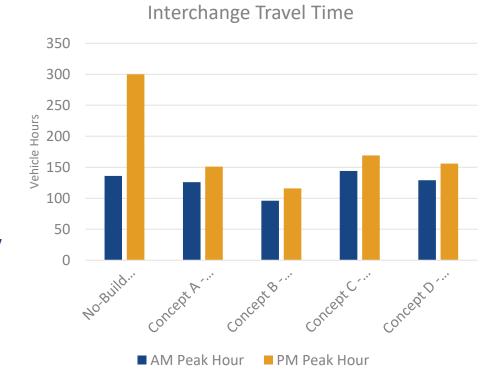
### Improve traffic operations

- Maintain free-flow on Mid-Hudson Bridge
- Minimize diversions

### Promote community character

Preserve historic district and avoid private property

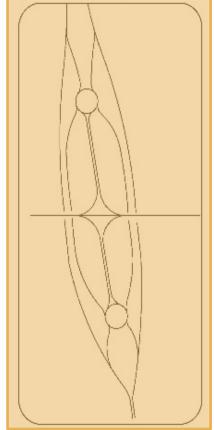
### Consider cost & constructability





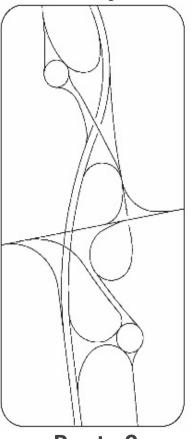
# Interchange Concepts

**Concept A** 



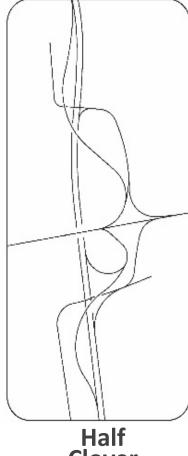
Roundabouts on Route 9

**Concept B** 



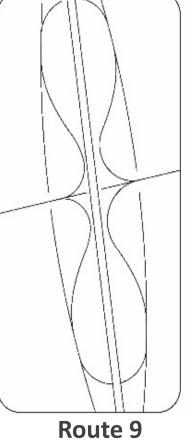
Route 9 Realignment

**Concept C** 



Clover

**Concept D** 



**Flyover** 



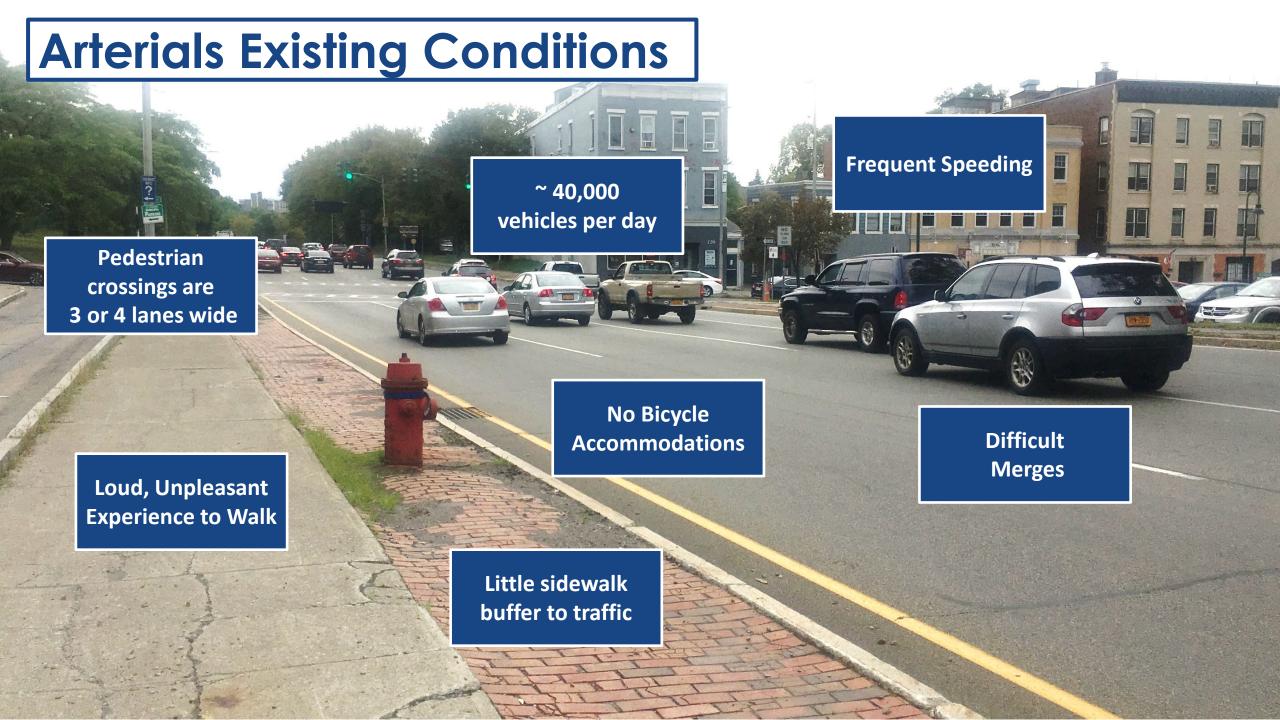
# Interchange Concept A







# **Arterials**



## Previous Planning Ideas

Tame the Arterials

Mitigate the impact of
Arterial traffic on pedestrians
and reduce speeds

Redesign the Arterials to be more walkable

Convert the Arterials into pedestrian friendly boulevards

Improve the walking and biking environment



# **Key Considerations**



Crash rates are above average



Measured speeds are about 10 MPH over the speed limit



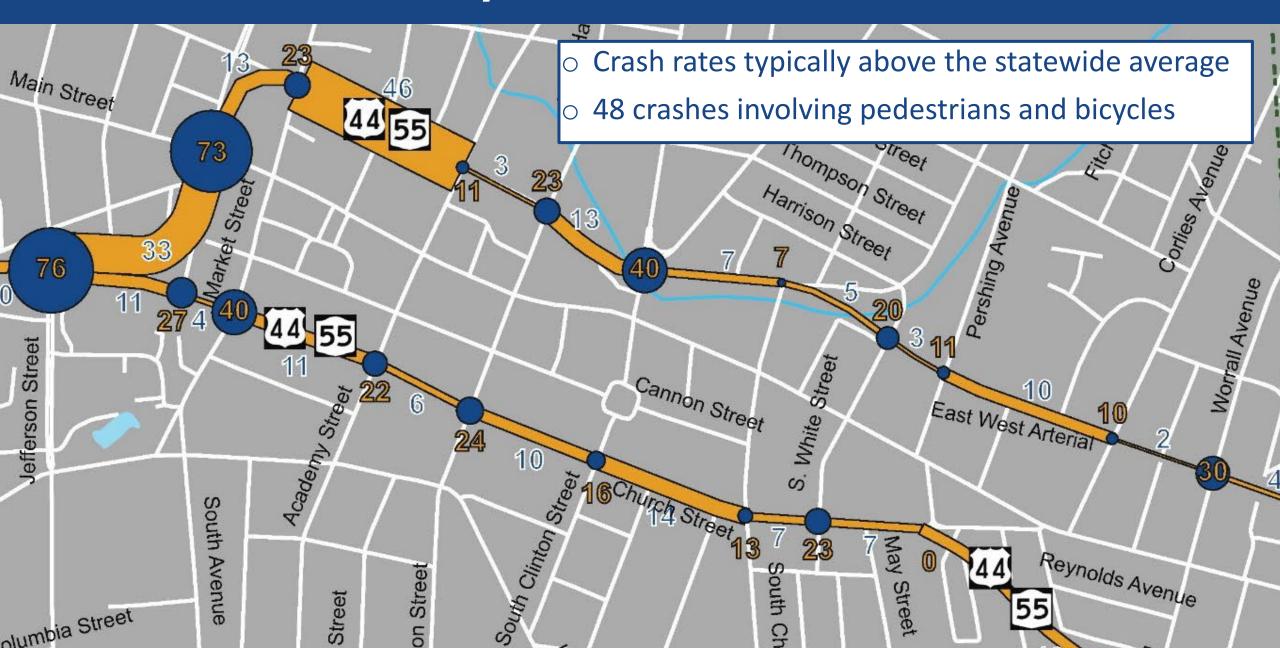
Census data shows 40% to 65% of households do not have access to a car rely on other modes



Arterials separate neighborhoods from one another, and residences from commercial areas

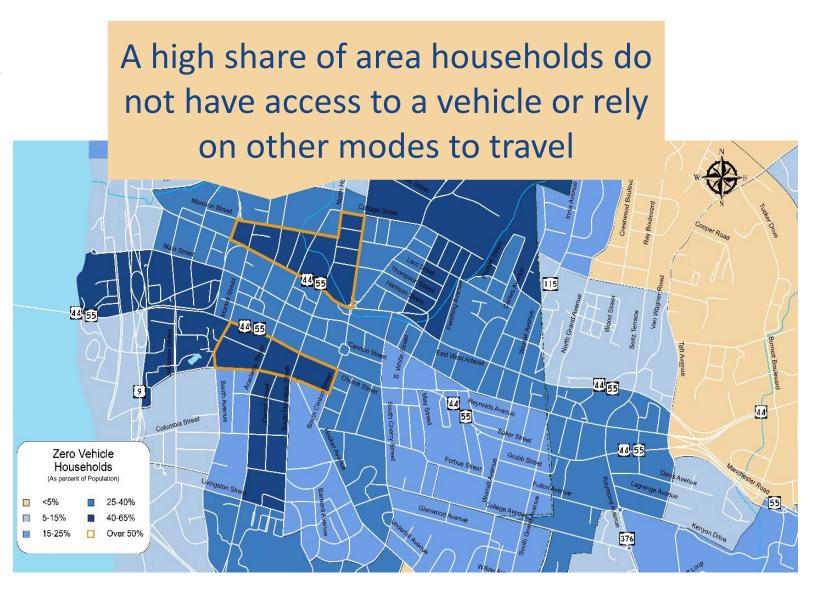


# **Arterials Crash Analysis**

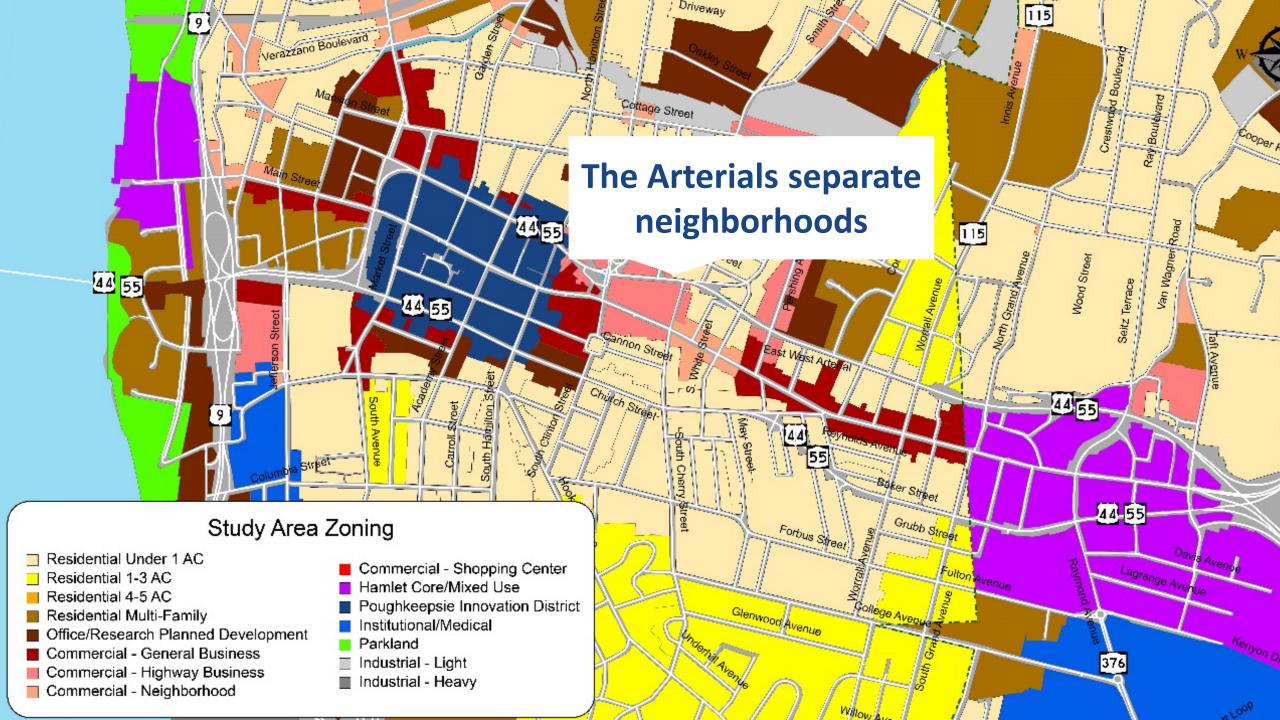


## Demographics

- Population
  - Older & younger adults
  - Minority
- Households in Poverty
- Zero Vehicle Households





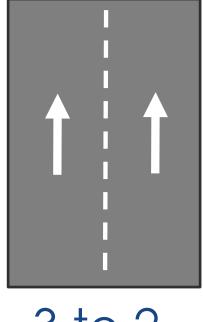




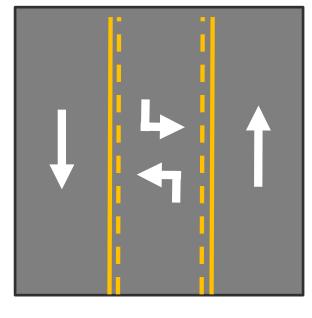
# Redesign Concepts

## **Two Arterial Concepts**

Complete work within existing roadway



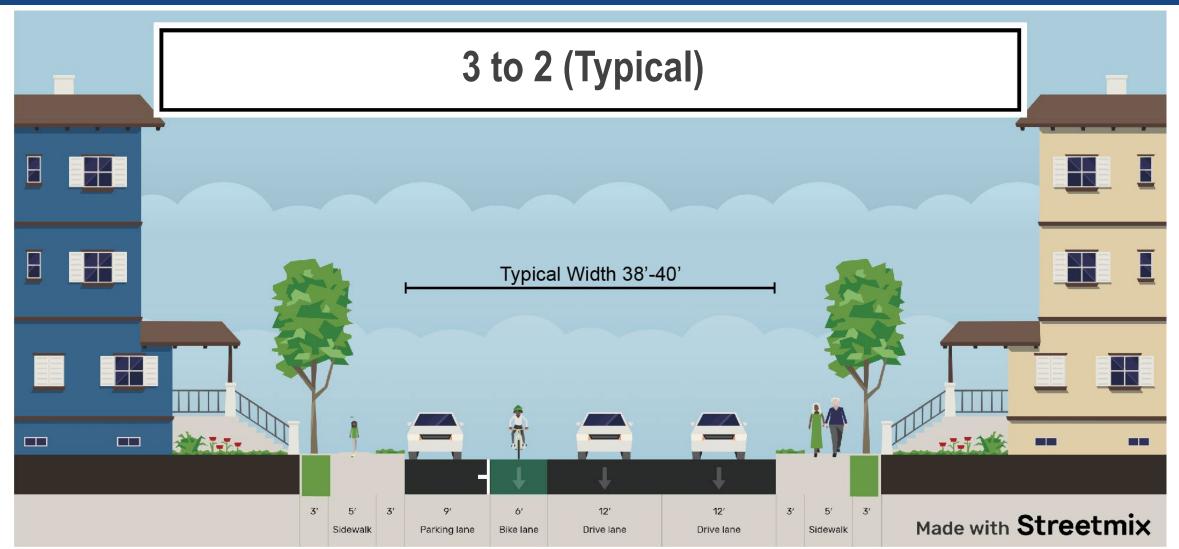
3 to 2



Two-way

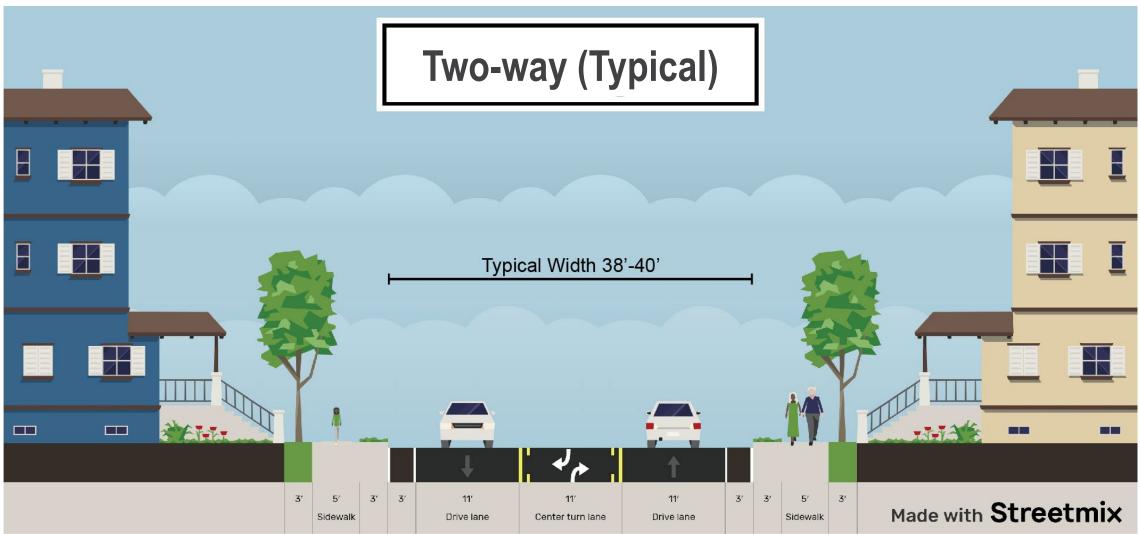


# 3 to 2 Concept





# Two Way Concept

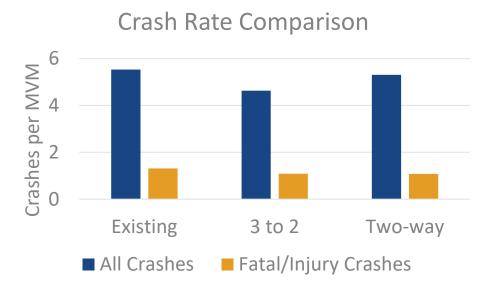




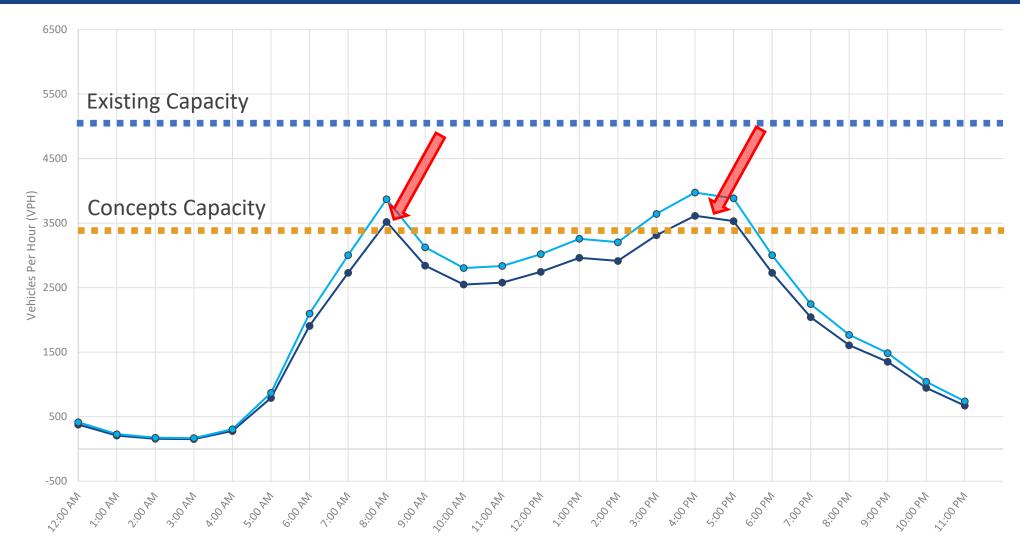
## **Concept Evaluation Criteria**

- Provides reasonable travel time (through traffic)
- Reduces speeds
- Allows freedom of movement (Local Access)
- Provides curbside options (streetscape)
- Increases walking comfort (buffer space to sidewalk, shorter crossing distances)
- Improves safety
- Provides dedicated space for bicycles
- Reduces emissions
- Constructible at a reasonable cost.





## Theoretical Capacity Illustration





# Summary of Pros and Cons

Performance Factors	3 to 2	Two-way
Provides reasonable travel times	+	-
Reduces Speeds	+	++
Allows freedom of movement	-	+
Provides opportunity for curbside options	+	-
Increases walking comfort	+	-
Improves Safety	+	+
Provides dedicated space for bicycles	+	-
Reduces emissions	-	
Constructible at a reasonable cost	+	-





# **Post Study**

- Pilot/Demonstration Project
- Maintain steering committee
- Building block approach (Embrace project phasing)
- Look at 'independent utility' projects
  - E.g., Follow-on sub-area study (Columbus Dr weave)
- Carry ideas over to other planning products
  - E.g., Recommendation in Long Range Transportation Plan

#### **Components of a Pilot Project**

- Draft a project plan
  - Establish purpose
  - Set time frame
  - Temporary Traffic Control Plan
  - Decide how success is measured
  - Identify data to be gathered
  - Public involvement/education
- Final report to summarize the results







# **Thank You**