

Special Events Transportation Study - 2000



Study History

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University Hill Comprehensive Transportation Study - 2003

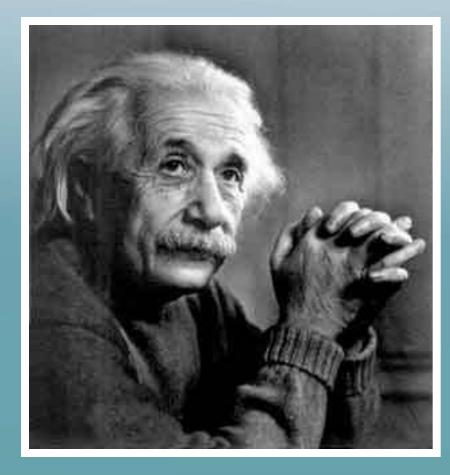
- Started as a parking study and grew
- Existing Conditions Inventory
- Identification of Issues
- Stopped and we needed to refocus efforts and obtain a new consultant

University Hill Transportation Study – Restarted in 2005

- Focused on Core Issues Prioritized by the Working Group
- Completed and finalized in November 2007



Defining the Problem







Finding the real problem?

Vehicle Ownership

- Vehicle Use
- Vehicle Occupancy
- Commuting



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The Study Area

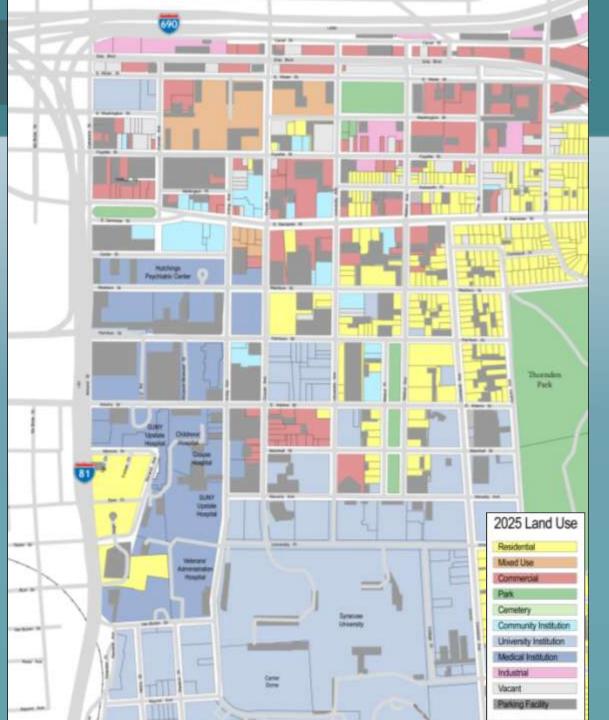






Future (2025) Land Use

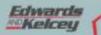






University Hill Proposed Development Totals*

	Parking Spaces	Residential Units	Retail SF	Commercial SF	Medical Related SF	Education Related SF
Recently Completed	1,475					85,000
Short-Term	120	150	15,000	4,400	258,000	399,000
Mid-Term	1,180			5,400	408,000	325,000
Long-Term		80	19,000	58,000		385,000
Total	2,775	230	34,000	67,800	801,000	1,194,000



*does not include SU West Campus, Kennedy Square, or the Center of Excellence



Impacts of the CPV

	Existing Conditions (Year 2003)	Current Planned Vision (Year 2025)	
Vehicle-Miles of Travel (24-Hour Day) ¹	272,000	307,000	
Vehicle-Hours of Travel (24-Hour Day)	8,300	8,700	
Transit Ridership (24-Hour Day)	2,900	2,700	
Bicycle/Pedestrian Trips (24-Hour Day)	29,000	32,700	
Number of Congested Roadway Segments (AM) ²	4		
Number of Congested Roadway Segments (PM)	5	X	
Number of Roadway Segments Approaching Capacity (AM) ³	17		
Number of Roadway Segments Approaching Capacity (PM)	19	22	

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¹ Within area bound by I-81, I-690, SUNY ESF, and Ostrom Avenue/Beech Street

² 'Congested' defined as volume-to-capacity (v/c) ratio in excess o f 1.0

³ 'Approaching capacity' defined as v/c ratio from 0.75 to 1.0



2025 AM Roadway Capacity Hotspots





TRIP SEGMENT	DISTANCE (miles)	TIME (minutes)	SPEED (mph)	DISTANCE SHARE (%)	TIME SHARE (%)
Walk to Car	0.01	0.2	3	0%	1%
Drive on Fairway Circle (local street)	0.3	1.7	9	2%	5%
Drive on Village Blvd. South					
(collector)	0.4	1.0	24	3%	3%
Drive on State Fair Road (arterial)	2.5	4.2	36	21%	13%
Drive on Interstates 690 and 81	8.0	13.8	35	67%	43%
Duine on Domon Almond and					
Drive on Ramp, Almond and Adams Streets	0.5	3.2	9	4%	10%
Drive in Parking Structure	0.3	1.9	8	2%	6%
Walk to Office	0.1	6.0	1	1%	19%
Total/Average	12 0	33.8	21	100.0%	100.0%
Total/Average	12.0	33.8	21	100.0%	100.0%



Future Isn't What It Used to Be



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Health Matters





MOVE CARS CYCLE

Roads and Interchanges Improved

Institutions Call for More Highway Capacity

Congestion Develops

More Employees and Visitors

Institutions Grow

Free Flow Attracts More Drivers

> Parking Demand Grows

Institutions Request More and Closer Parking

Under Political Pressure Parking is Approved

STRATEGIES MOVE PEOPLE MOV







Redefining the Problem

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- Move people, goods and minds
- Adapt to future forces.
- Meet institutional needs.
- Create a place that attracts talent.
- Integrate land use and transportation.



Key Recommendations



- 1. Mixed Use Development
- 2. Prioritized Transit Network

Transportation Study Syracuse, NY

- 3. Integrated Parking Strategy
- 4. Almond Street Corridor
- 5. Two-Way Streets

UNIVERSITY HILL

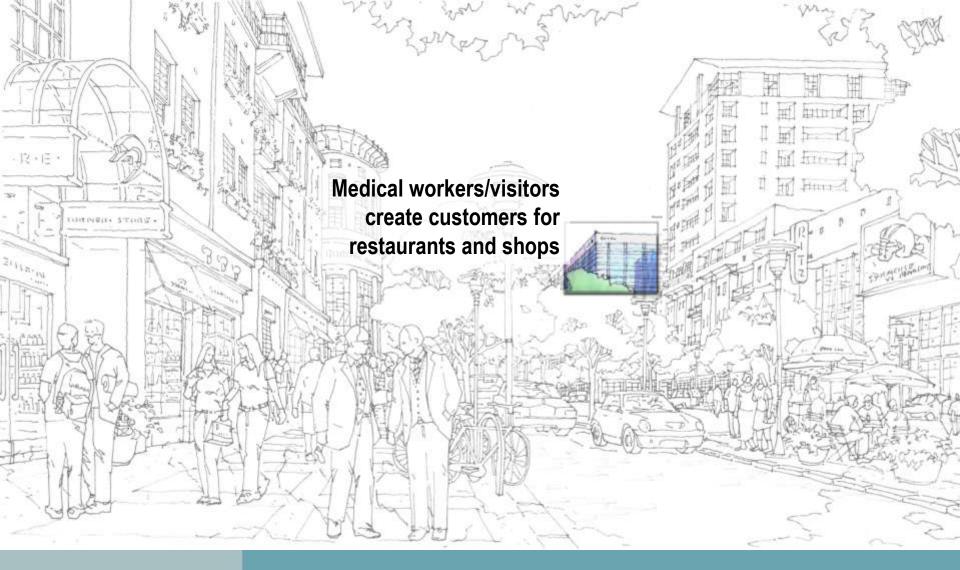
6. Bike Boulevard Network





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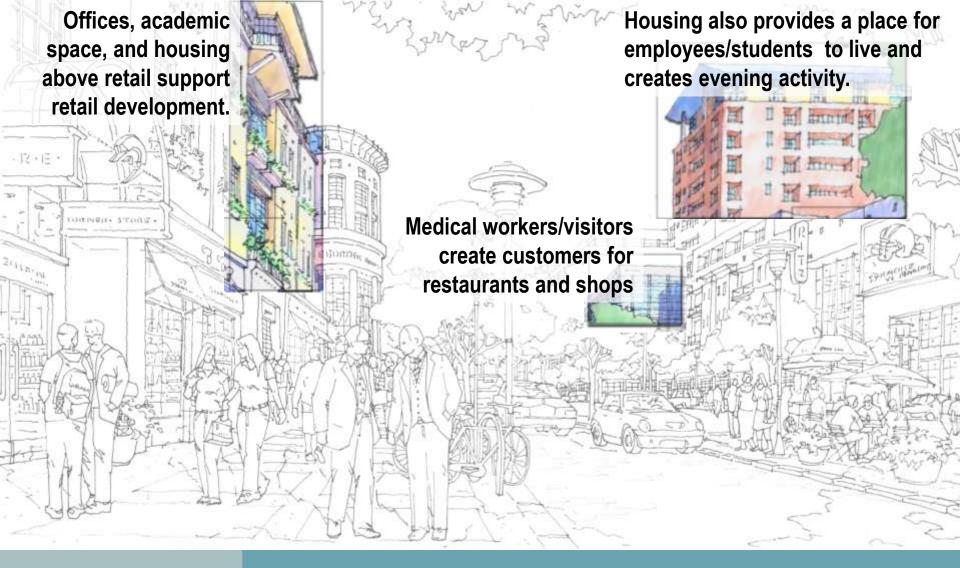
CREATING A MIXED USE PLACE – ADAMS STREET



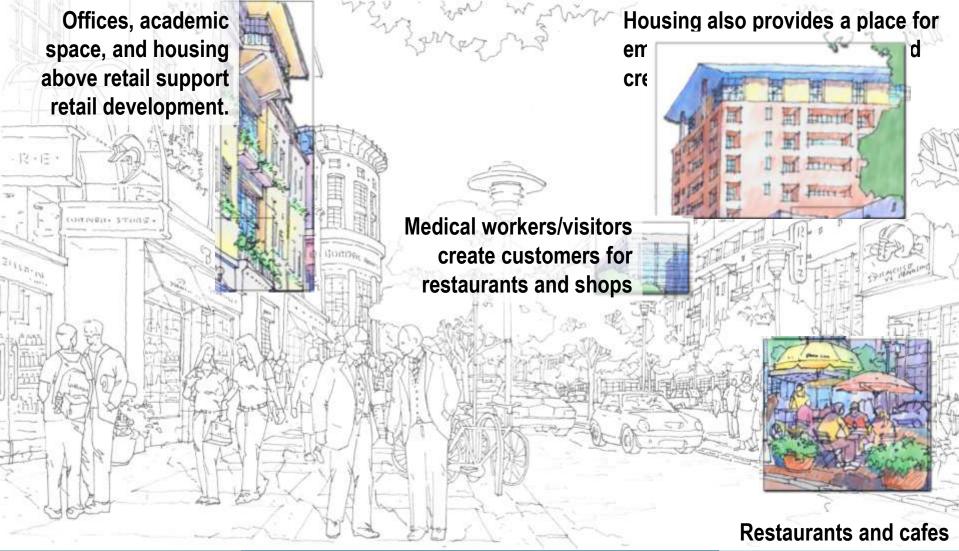
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are amenities and create sidewalk activity

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Housing also provides a place for employees/students to live and creates evening activity.

Medical workers/visitors create customers for restaurants and shops

Retail creates vibrant sidewalks

Offices, academic

space, and housing

above retail support

retail development.

R.E.

Restaurants and cafes are amenities and create sidewalk activity

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Housing also provides a place for employees/students to live and creates evening activity.

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Medical workers/visitors create customers for restaurants and shops

A campus bookstore is a destination.

> Restaurants and cafes are amenities and create sidewalk activity

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Offices, academic

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above retail support

retail development.

Retail creates vibrant

sidewalks

R.E.



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What does "mixed use" really mean for the user?



Professors discuss the next class

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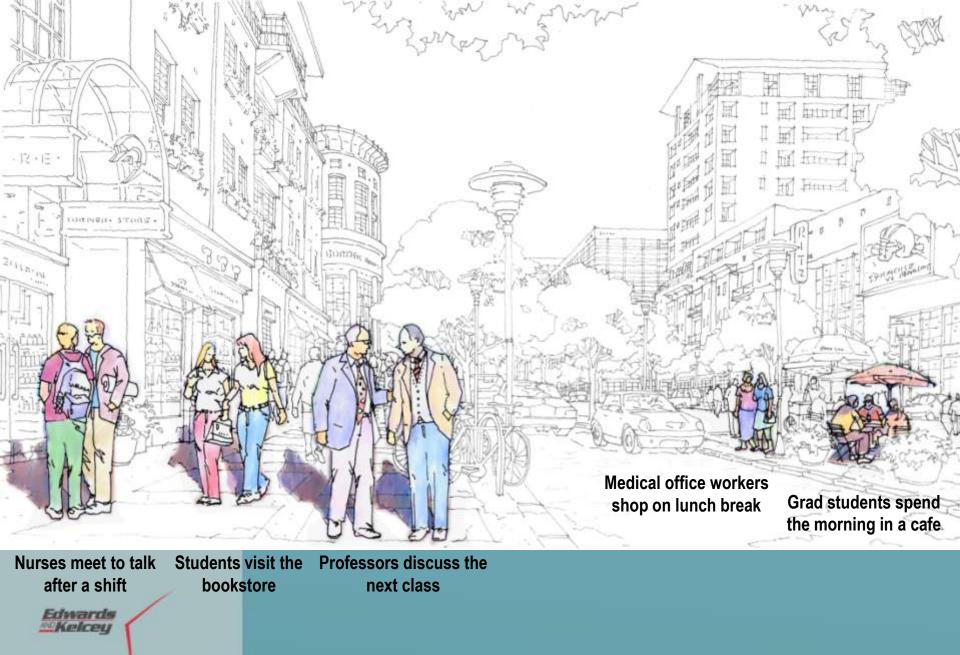


Studentsvisit theProfessorsdiscuss thebookstorenext class

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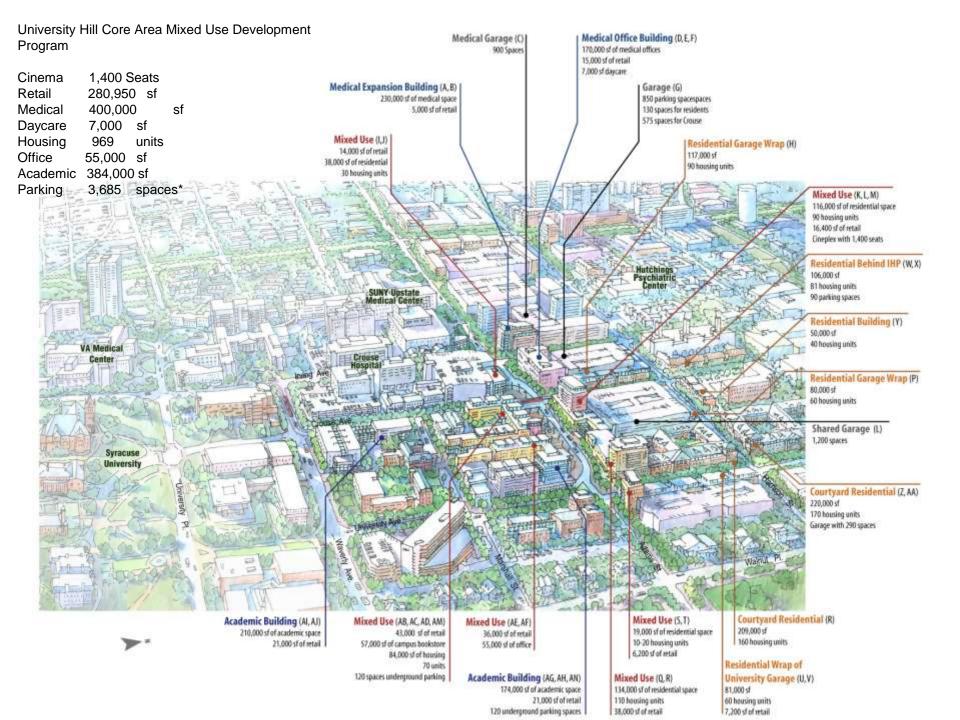




Creating a focal Point



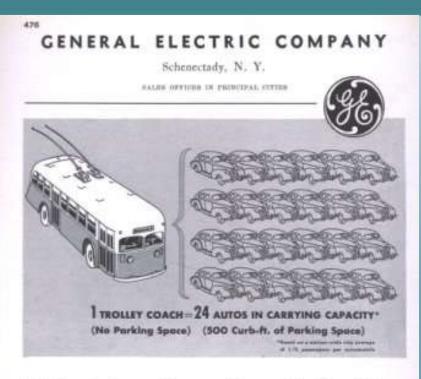
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Making Transit Matter





This Equation Can Help You Solve Your Parking Problem

There's Plenty of Street Space for All the People --But Not for All the Vehicles

When we think of the truffic problem as problems. One trulley-coach line can carry son of moving people, not vehicles, it's as many people as sin typical streets filled easy to see the importance of public tran- with private autos-one atreet-car line as sit in solving a city's parking and traffic many as nine streets.



Prioritized Transit Network



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Making Transit Matter

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Streetcar in Portland, OR

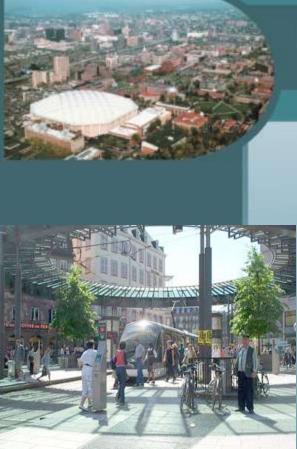
Streetcar/Transit Shuttle

Route Distance:	1.8 miles	
Top Speed:	30 mph	
Average Speed:	12 mph	
One way trip time:	9 minutes	
Roundtrip Time:	18 minutes	
Recovery Time:	3 minutes	
Headway:	6 minutes	
Vehicles Required:	4 + 1 spare	
Order of Magnitude Streetcar Cost:	\$33 Million	

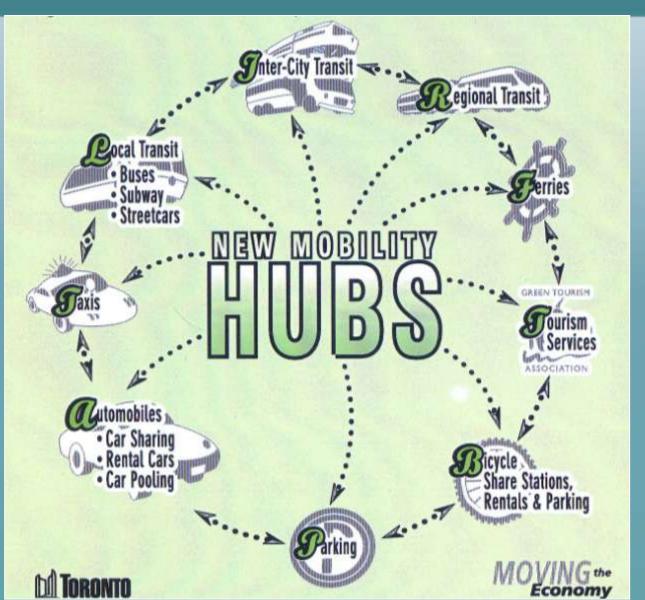
Downtown

Armory Square



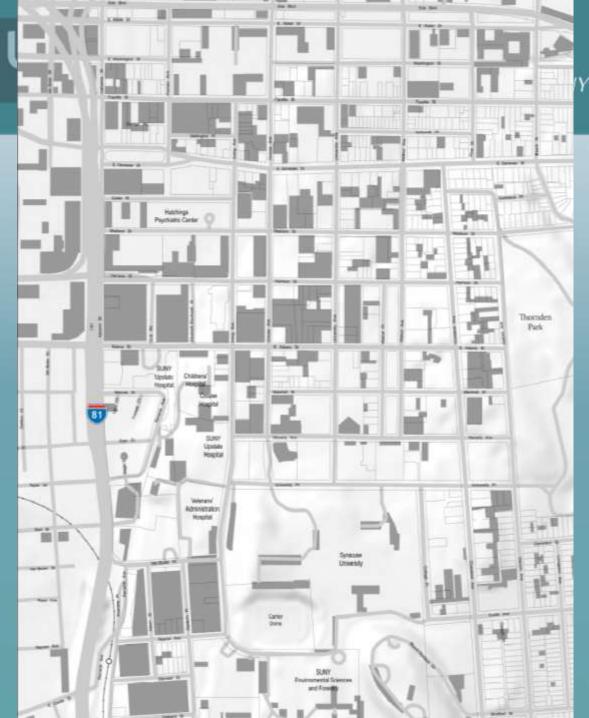






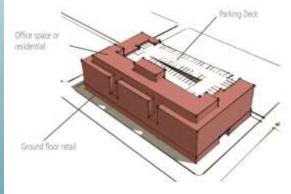


Integrated Parking Strategy



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Parking







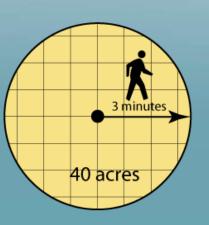
Land Use and Parking

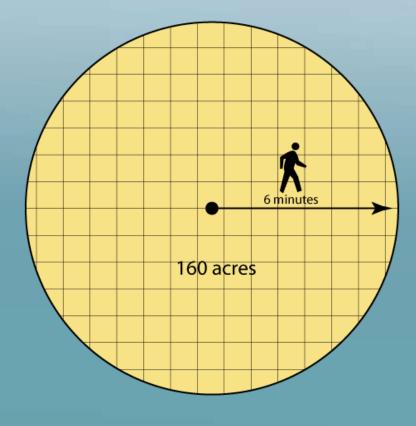






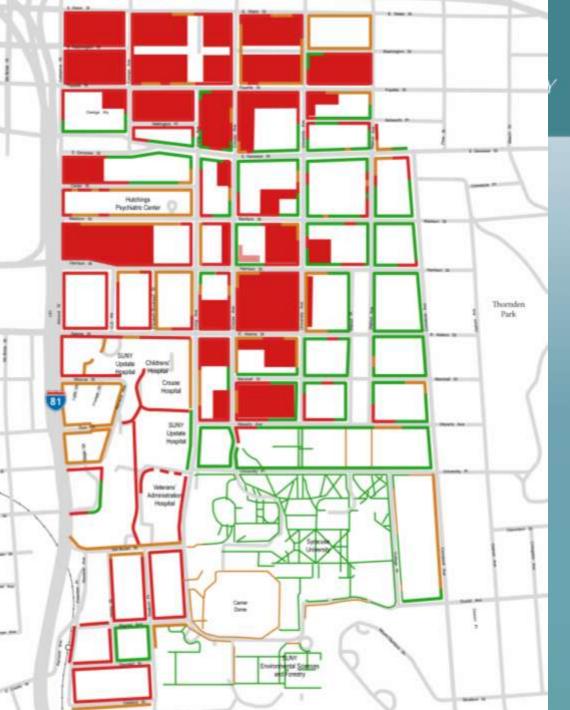
Walking Matters





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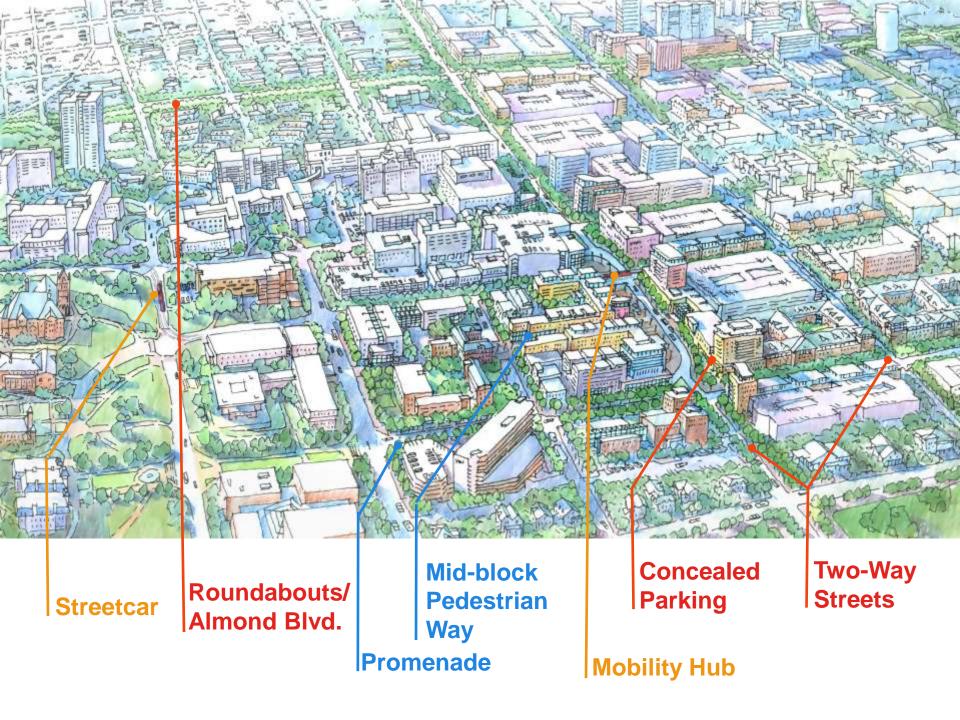














Almond Street Corridor Improvements



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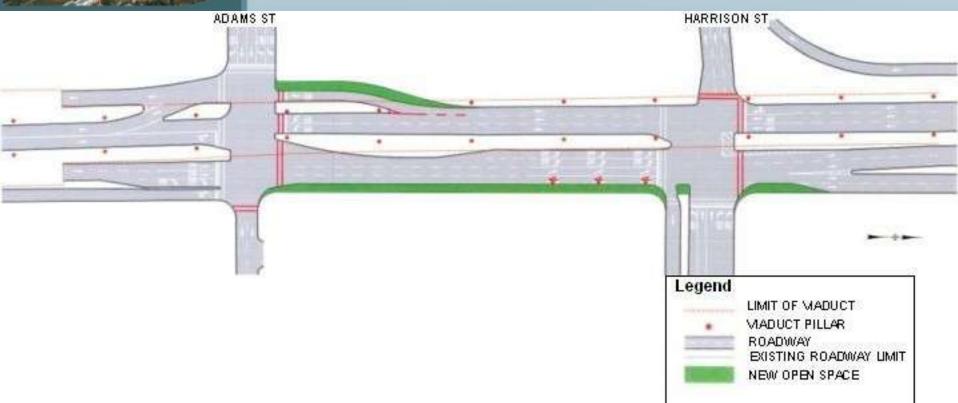


Emerging Concepts

Viaduct Treatment







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Narrowing Almond Street



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Double Roundabout Concept Plan



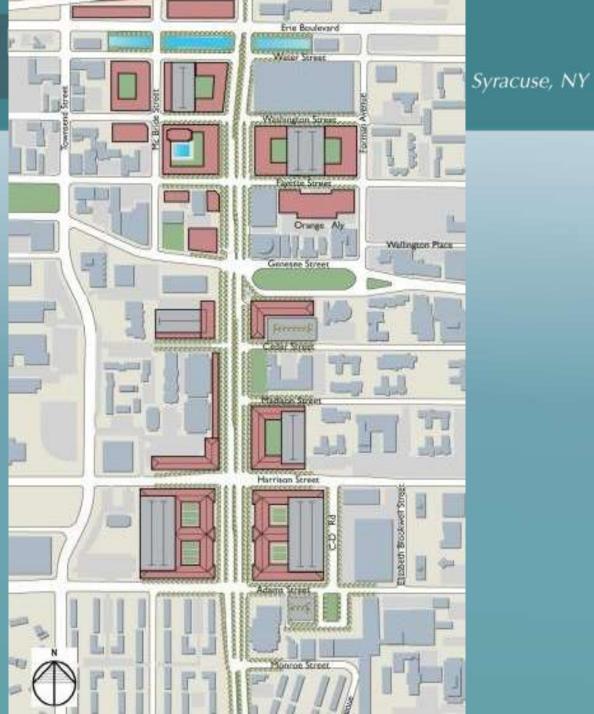


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Almond Street Boulevard

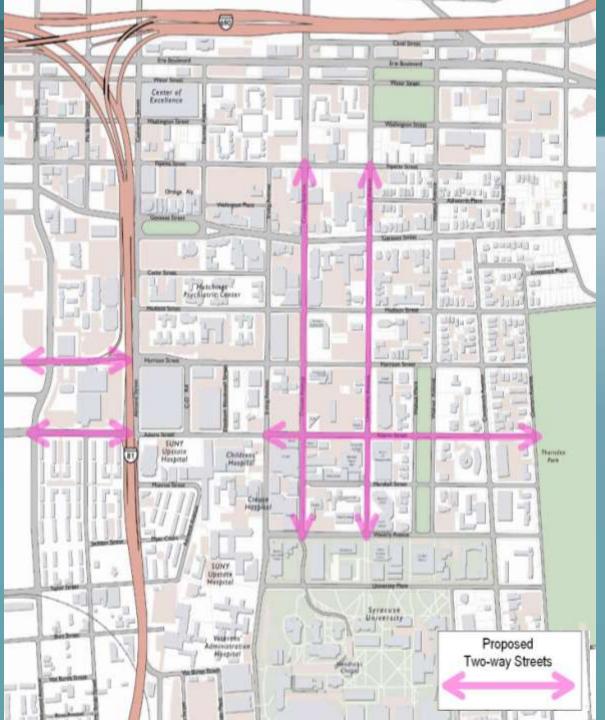
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Two-Way Streets

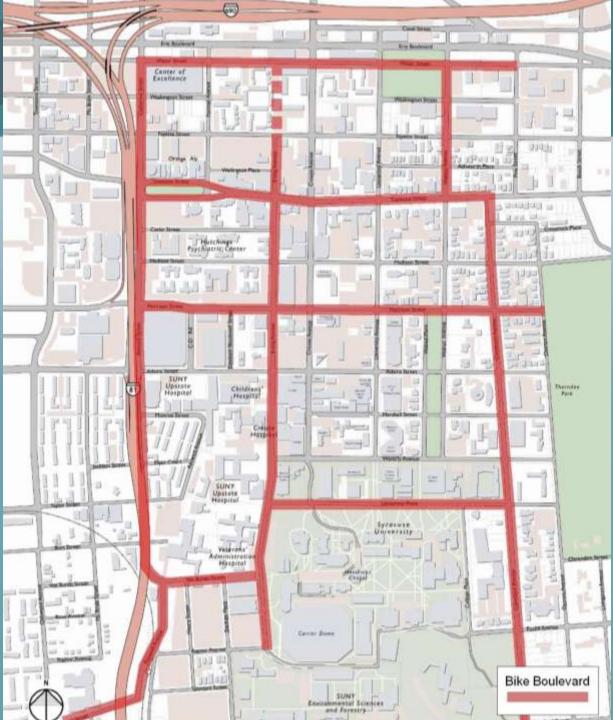






Bike Boulevard Network

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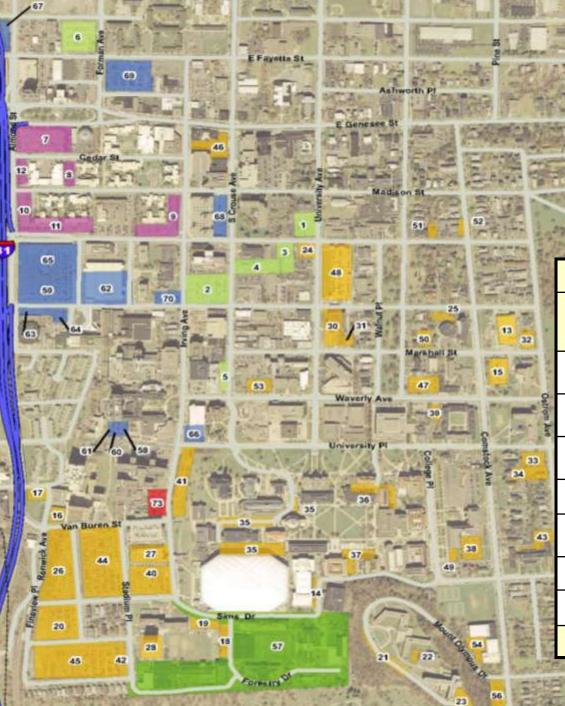


Significant Planning Activities That Have Occurred Since Study's Completion

- University Hill Park and Ride Feasibility Study
- University Hill Phase II Feasibility Study: Short-Term Transportation Recommendations
- University Hill Bike Network Project

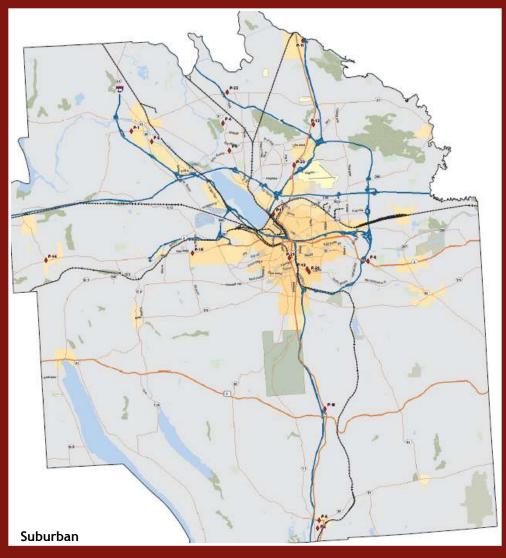


University Hill Park and Ride Feasibility Study

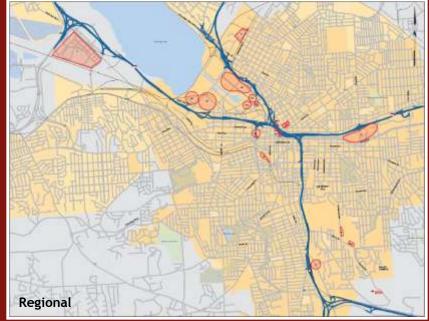


Existing Institutional Parking & Estimated Demand

Estimated Parking Demand (3-10 yrs.)		
Institution/		
Organization	Low	High
SUNY Upstate	300	750
Syracuse University	0	0
Crouse Hospital	350	500
VA Medical Center	300	300
Hutchings	50	50
SUNY ESF	10	510
Crouse Marshall BD	50	50
Total	1,060	2,160



Potential Sites





Recommendations





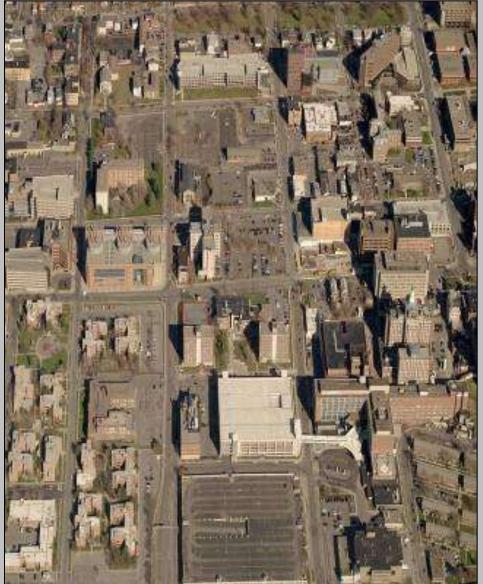
Short-Term

1. Enhance Centro Park-n-Ride service

- Fayetteville/DeWitt
- Camillus
- Liverpool
- 2. Use Alliance Bank Stadium
- 3. Implement transportation demand management (TDM) program

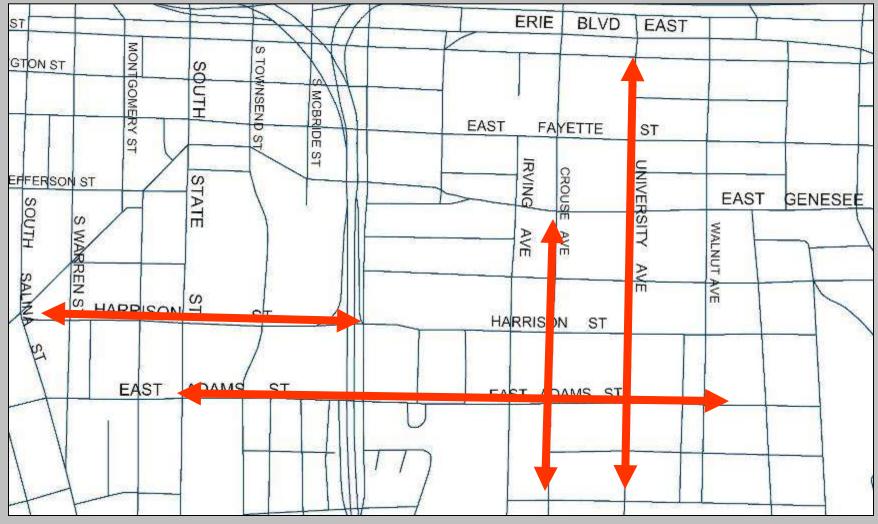
Long-Term

- 1. Reassess demand
- 2. Mixed Use Garage Kennedy Sq.
 - Shared parking
 - Wrap building
 - Shuttle to Hill institutions



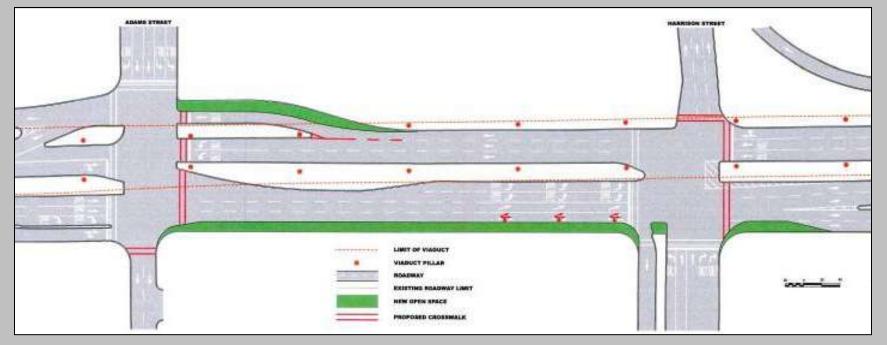
University Hill Phase II Feasibility Study: Short-Term Transportation Recommendations

Purpose



One-way to two-way conversions

Purpose



Almond Street Narrowing





Almond Street Roundabouts

Conclusions

- 1. Positive effects on bike/pedestrian environment
- 2. Significant negative effect on traffic operations
 - 1. Queue lengths
 - 2. LOS at key intersections (already failing)
- 3. Worth retesting if transportation conditions change
- 4. Systemic change needed to implement solution

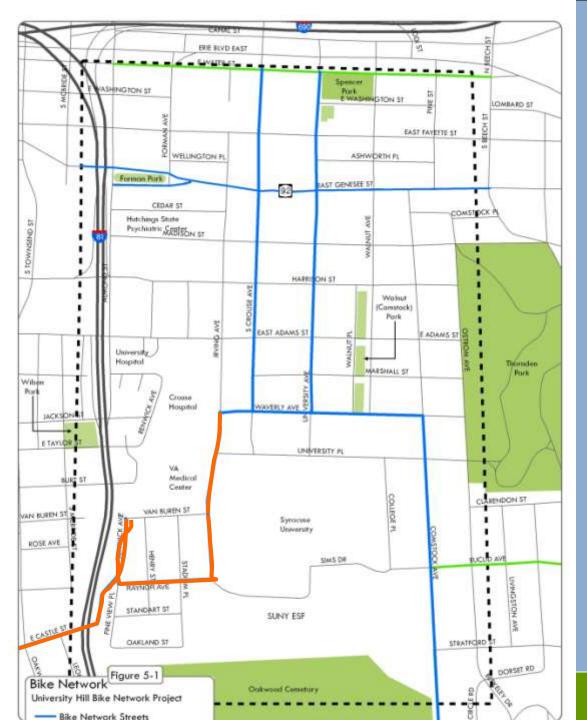
University Hill Bicycle Network Project











Recommendations

S. Crouse Existing



University Hill Bike Network Project

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S. Crouse Option A

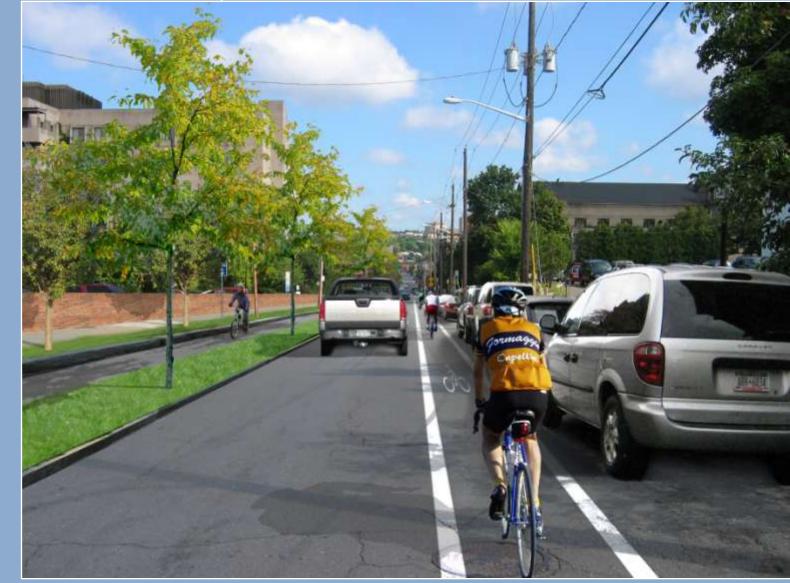




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University Hill Bike Network Project

S. Crouse Option B





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University Hill Bike Network Project

S. Crouse Option C





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Road Diet on Waverly Avenue (looking west)



Before

Road Diet on Waverly Avenue (looking west)



After

Road Diet on Waverly Avenue (looking east)





Road Diet on Waverly Avenue (looking east)



