

I-84 Hartford Project **Public Advisory Committee** Meeting #14 March 1, 2017

New PAC Members / Organizations

- Julia Rivera Trinity College
- Adina Giannelli Bike Walk CT
- Jillian Massey CRCOG, Alternate

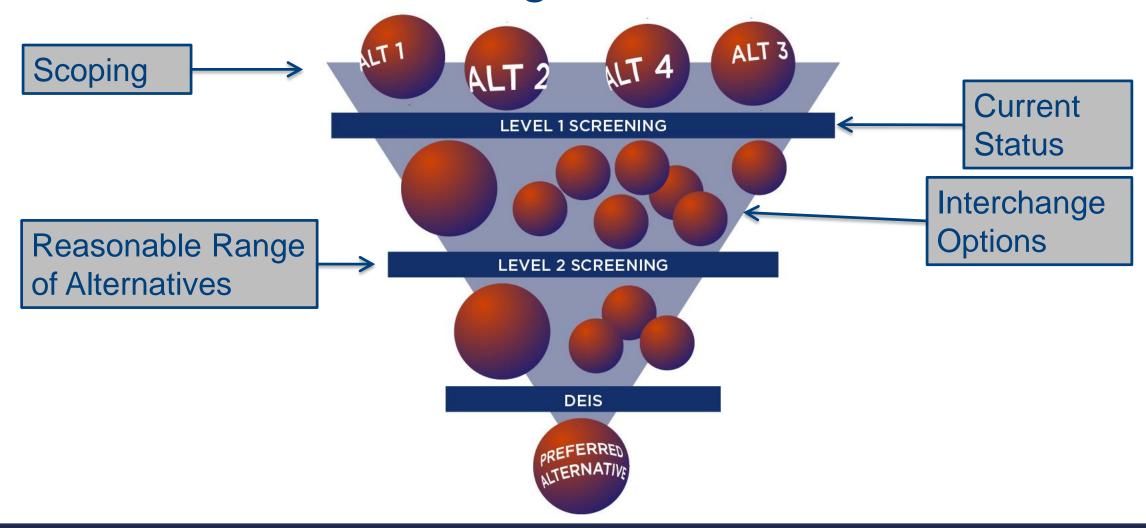
Meeting Agenda

- 1. Welcome
- 2. Alternatives update
- 3. Environmental documentation
- 4. Rail station area planning
- 5. I-84 / I-91 Interchange Study coordination
- 6. Outreach





Alternatives Screening



Screening Next Steps

- FHWA review and concurrence on Level 1 Screening
- Level 2 Screening
 - Eliminate interchange options that do not meet Purpose and Need

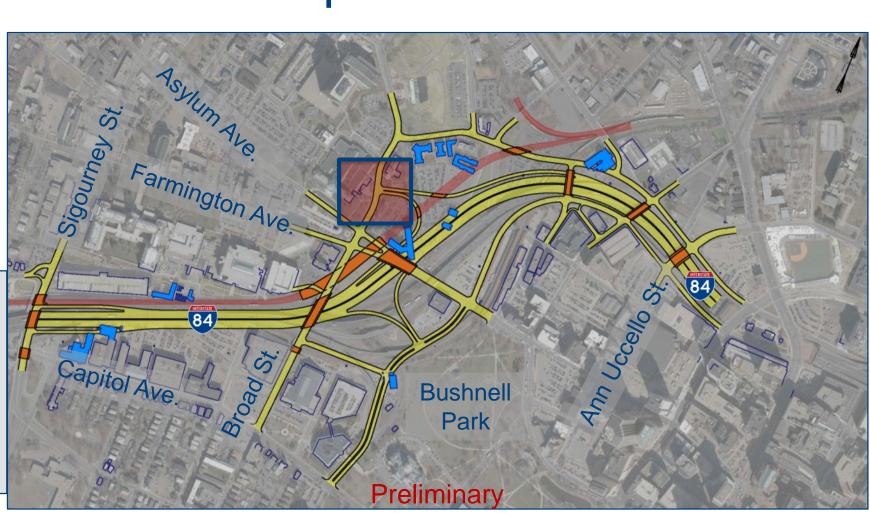
Recent Progress – East Options

 Critical flaw in westbound ramps at Cogswell Street (Option 3B-E2(S))

Legend:

Roadway At-Grade
Bridge Structure
Railroad Corridor
Potential Building
Impacts



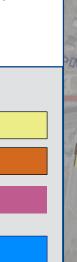


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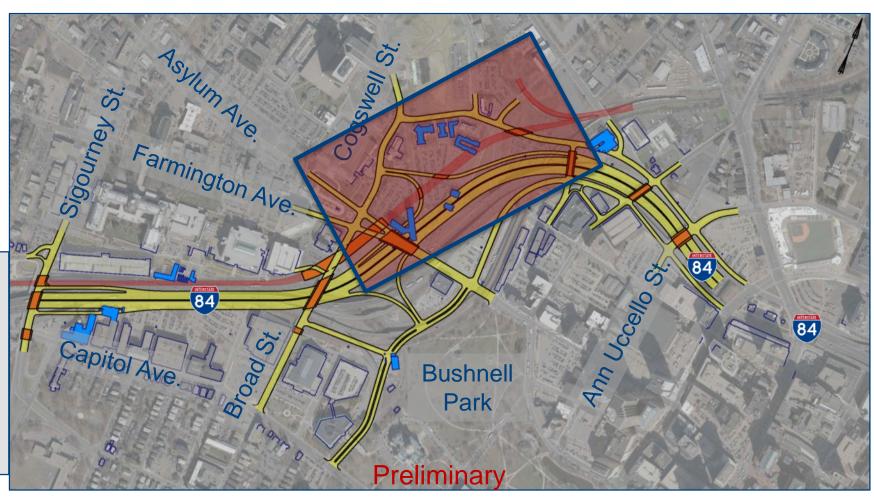
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Impacts





Important Considerations (East Options)

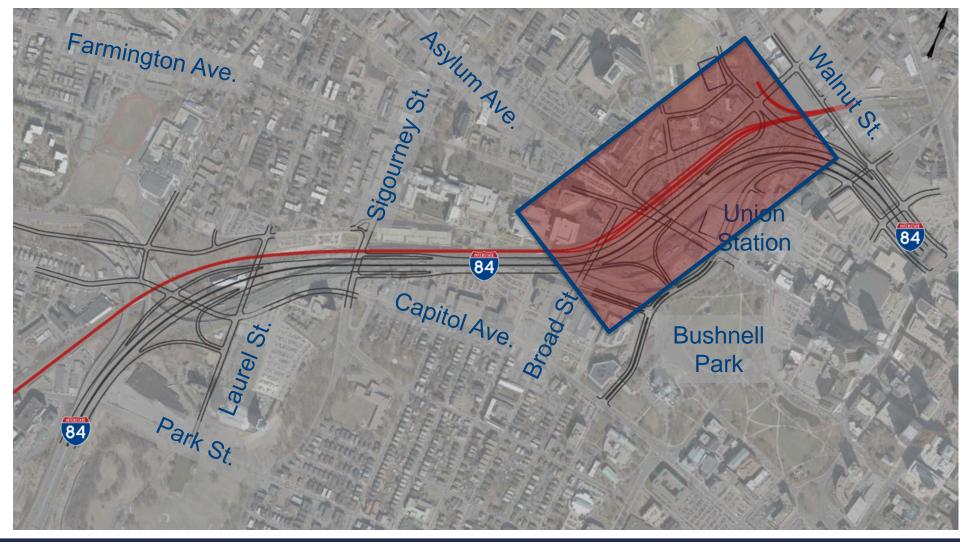
- Volume
- Distribution
- Trident
- Operations
- Access
- Impacts (including historic)
- Connections
- Stakeholders / neighborhoods
- Transit Oriented Development (TOD) and open space potential

Recent Progress - Rail

- Recent publication of NEC FUTURE Final EIS
 - Two tracks along rail corridor
 - Four intercity, two commuter trains per hour (Amtrak)
 - Upgrade to "hub" or "major hub"
- CTDOT requested evaluation of four track station

Proposed Rail Relocation

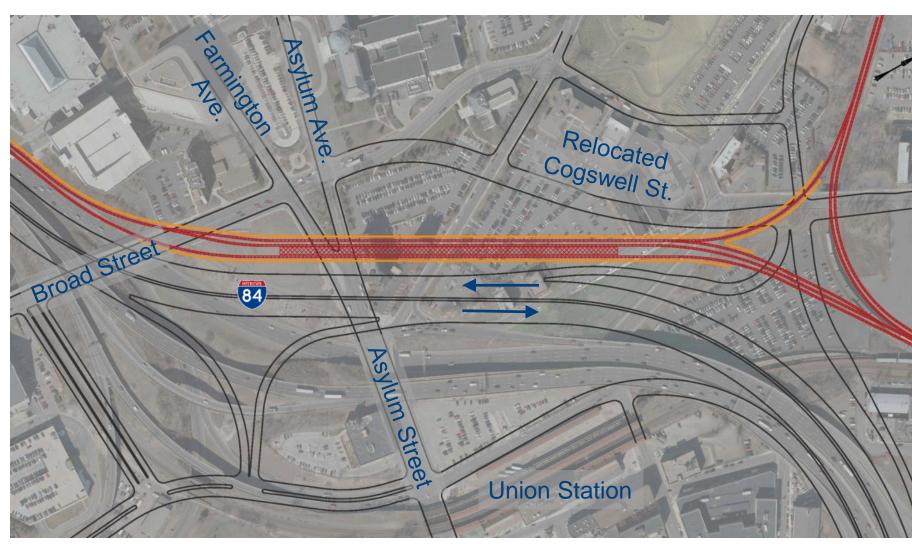
- Necessary for Lowered and Tunneled alternatives
- Two-track corridor
- Approximate limits: Park St to Walnut St



Proposed Station

Three Tracks

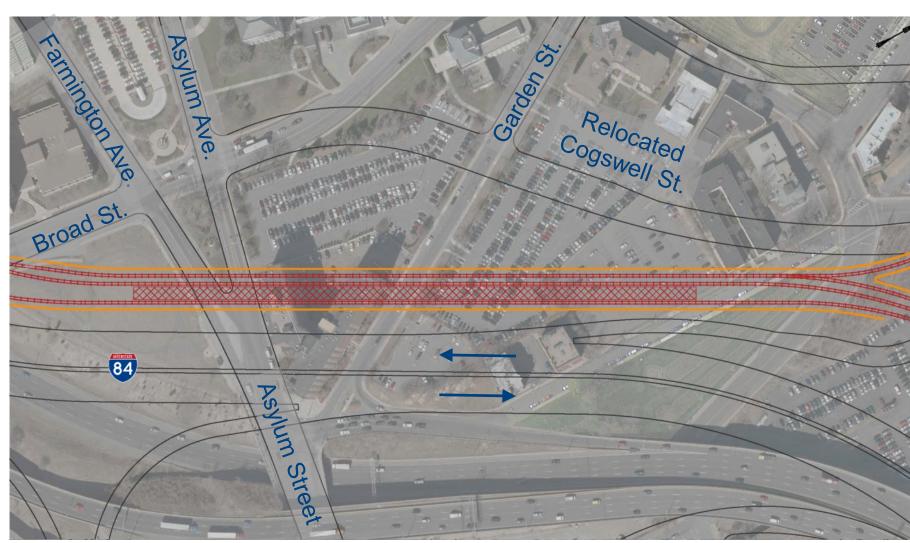
- Two passenger tracks
- Island platform
- Freight bypass track
- Potential Griffin Line connection



Proposed Station

Three Tracks

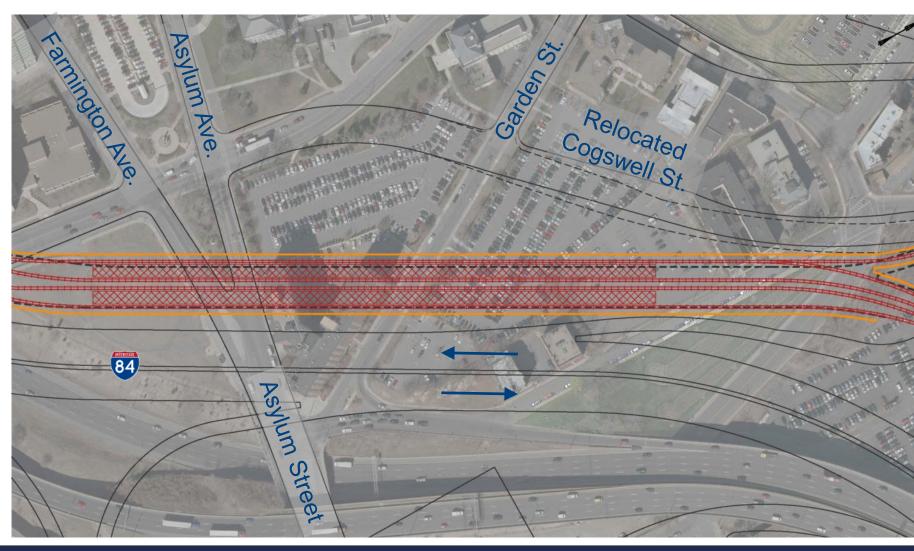
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Proposed Station

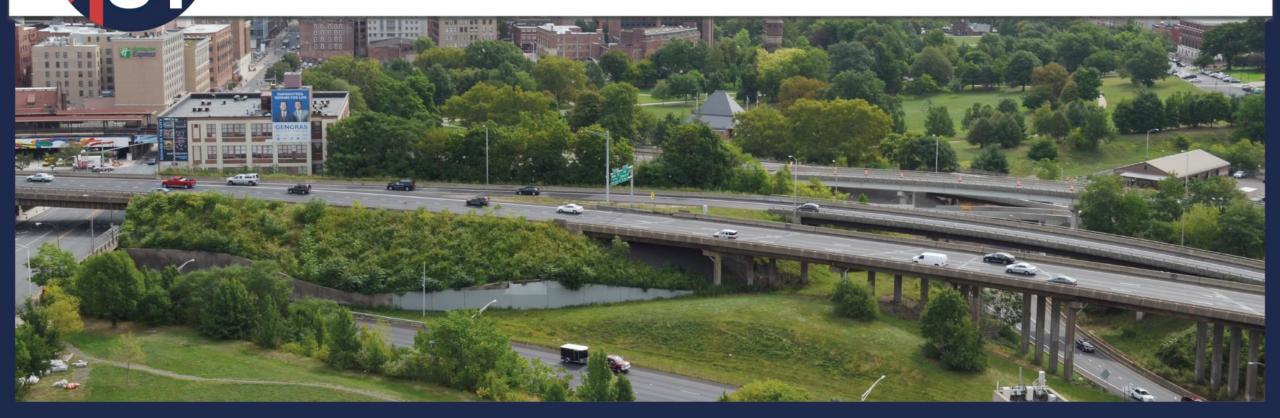
Four Tracks

- All tracks could serve passenger trains
- Two island platforms
- Gauntlet track for oversized freight
- Potential Griffin Line connection





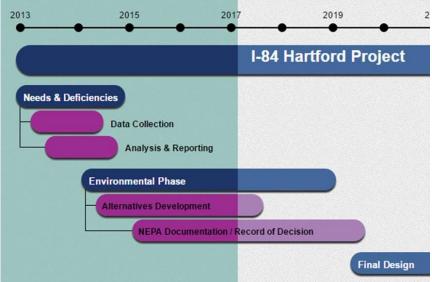
Environmental Documentation



NEPA / CEPA Timeline

- On-going technical analysis
- Draft EIS out for public review, summer 2018
- Public Hearing, end of 2018
- Final EIS, Summer 2019
- Record of Decision, Fall 2019





Draft EIS Format

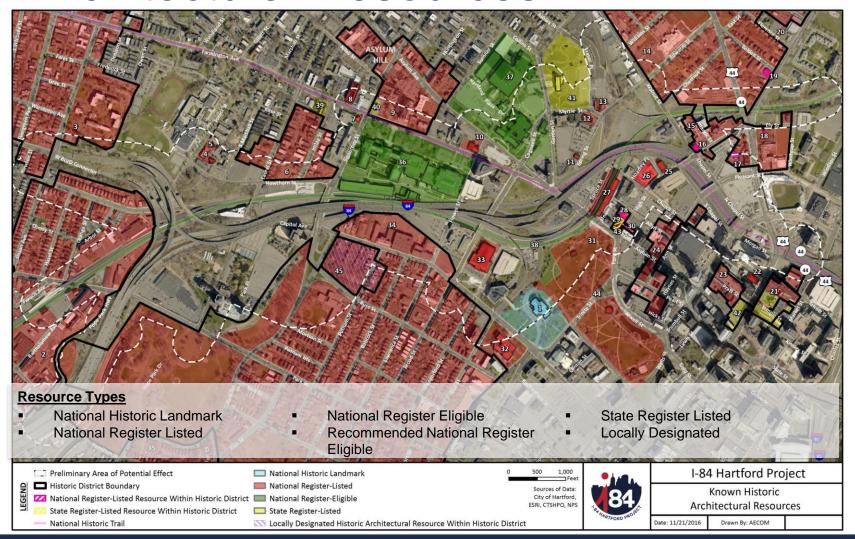
- Purpose and Need
- Alternatives
- Agency Coordination and Public Outreach
- Existing Conditions, Impacts and Mitigation
- Indirect and Cumulative Impacts
- Construction Impacts
- Appendices



Cultural Resources

- Above ground resources (architectural)
 - ~45 known historic resources
 - ~15 Potential historic resources
- Below ground resources (archeological)
 - 50 acres analyzed for archeological potential

Known Architectural Resources



Preliminary Results of Architectural Survey

- Identified Area of Potential Effect (APE)
 - 45 known historic resources identified within APE
 - 80 resources within APE not previously surveyed and evaluated were assessed
- 15 of 80 resources identified as potentially NR eligible
- 65 of 80 resources recommended non-NR-eligible
- DOT, FHWA, and SHPO are slated to review NR eligibility recommendations and preliminary effects analysis

Cultural Resources

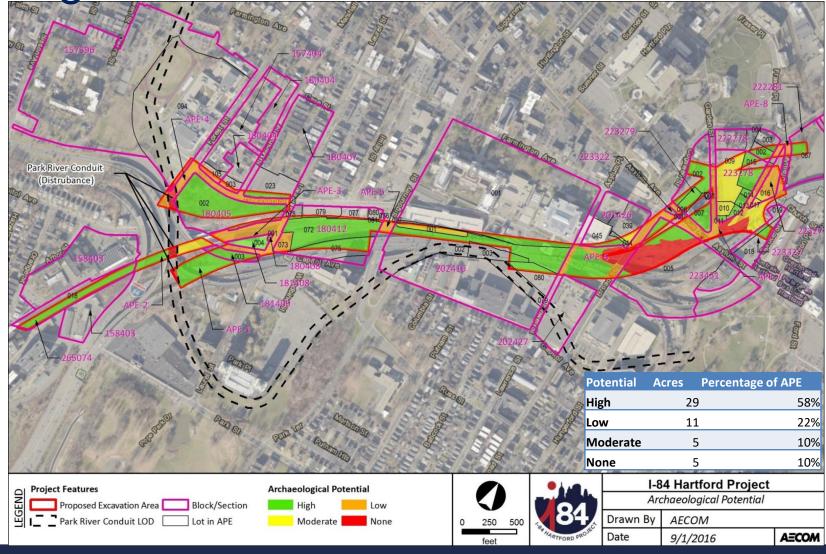
Summary of Impacts

Alternative	# of Known Historic Resources Directly Affected	# of Potentially NR- Eligible Resources Directly Affected	Total Historic Resources Directly Affected by Alternative
Elevated	3	2	5
Lowered	4	7	11
Tunnel	7*	8	15

^{*4} of 7 known resources are within NR-listed Frog Hollow Historic District

Note: Preliminary effect determination pending SHPO concurrence

Archaeological Potential



Next Steps

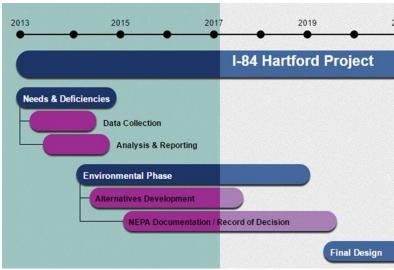
Cultural resources

- FHWA / SHPO review Final Determination of Effect and Mitigation Measures
- Memorandum of Agreement

Environmental phase

- Draft EIS: fall 2018
- Public Hearing: end 2018
- Final EIS: summer 2019
- Record of Decision: fall 2019







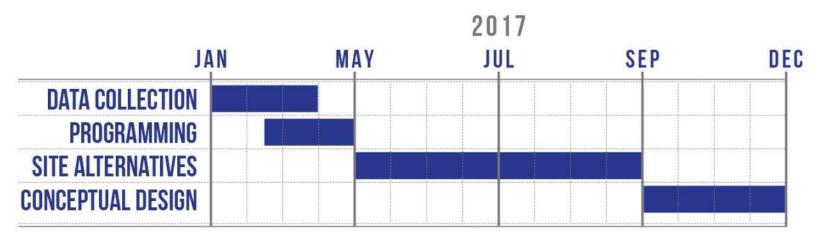
Multimodal Station Area Planning



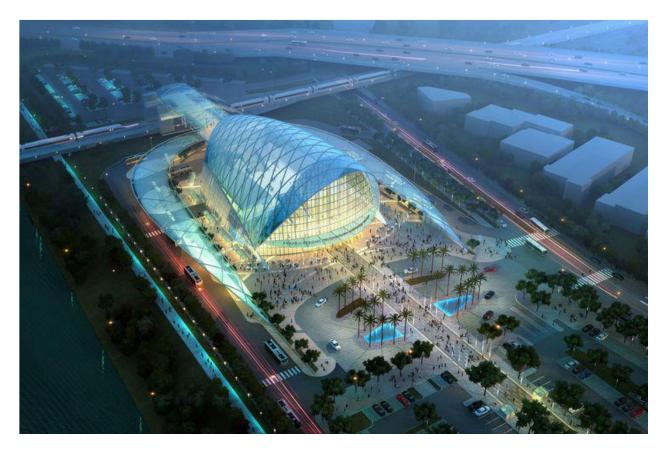
Hartford Multimodal Station Planning and Design

- Kicked off in January 2017
- 12 month effort
 - Define program
 - Develop site layout alternatives
 - Identify preferred site layout
 - Prepare conceptual design plans (15%)

- Status
 - Data collection is ongoing
 - Visioning / programming exercise is starting



Examples of Multimodal Station Facilities



Anaheim Regional Transportation Intermodal Center

Vision: Denver Union Station - 2040

Examples of Multimodal Station Facilities



Transbay Transit Center – San Francisco



Milwaukee Intermodal Center

Programming and Design Considerations

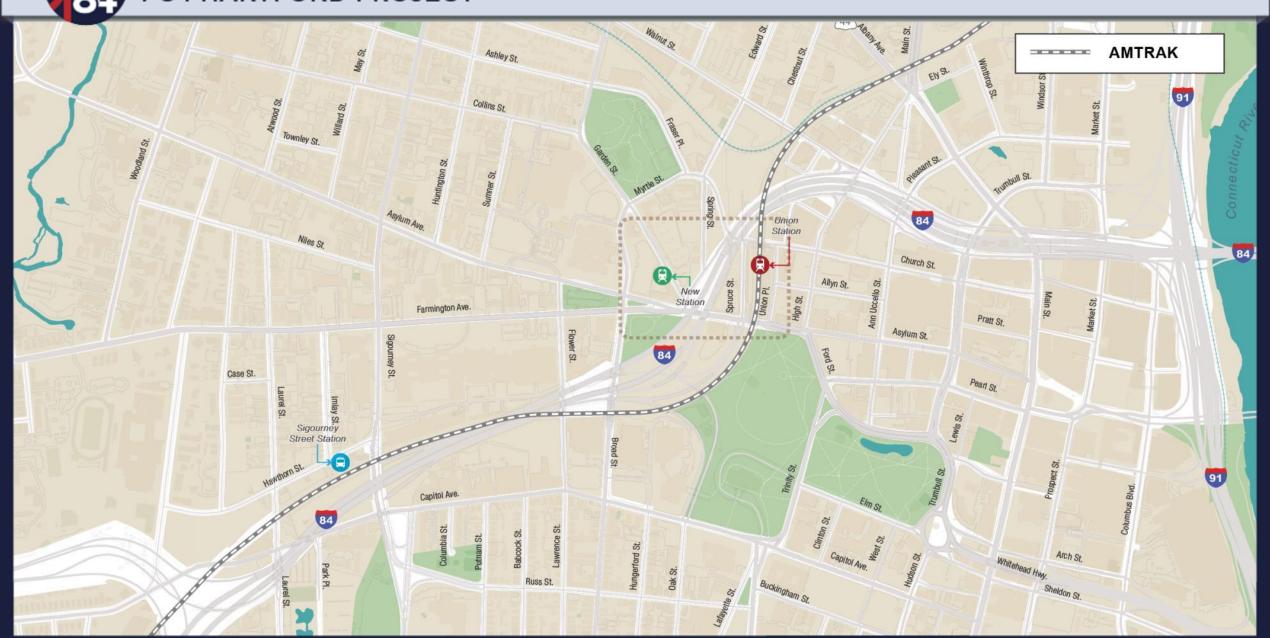
- Modes / users
- Functional values and priorities
- Design restrictions and guidelines
 - City building codes / zoning regulations
 - Design guidelines (Amtrak, NHHS HSR Program) -Category 1 Station?
 - Platform design (1000' long x 24' wide, 4' above top of rail)
 - Historic Union Station

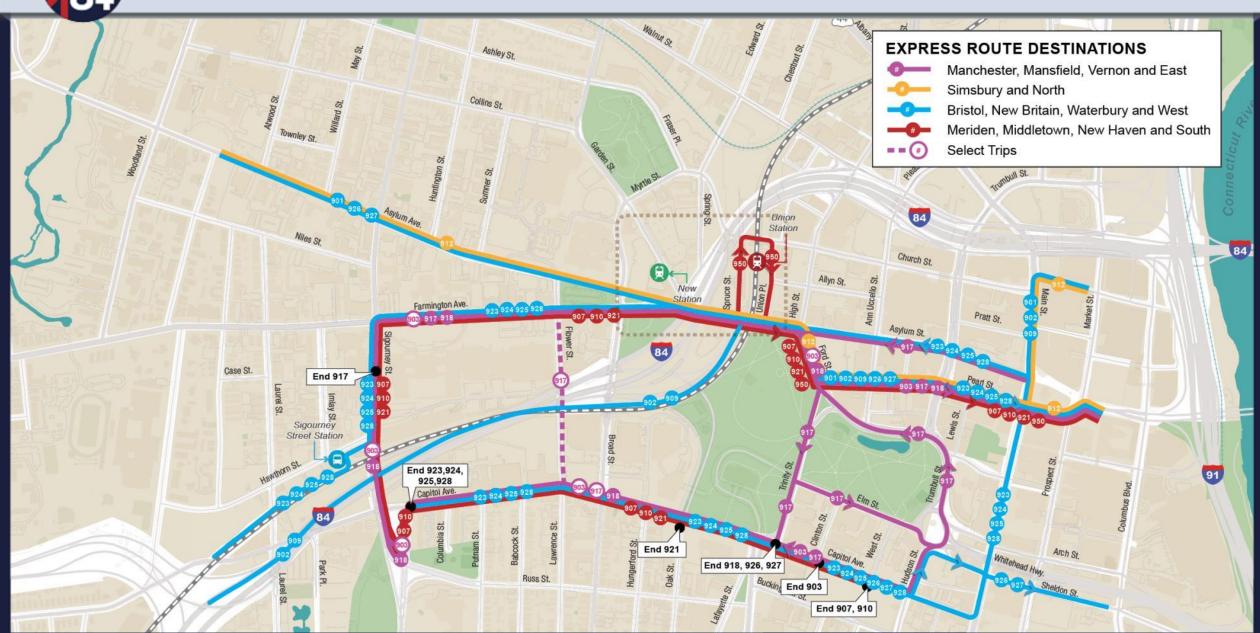


Programming and Design Considerations

- Access considerations
- Parking requirements
- Neighborhood character / linkages
- Transit Oriented Development / mixed use facility
- Streetscape and public art

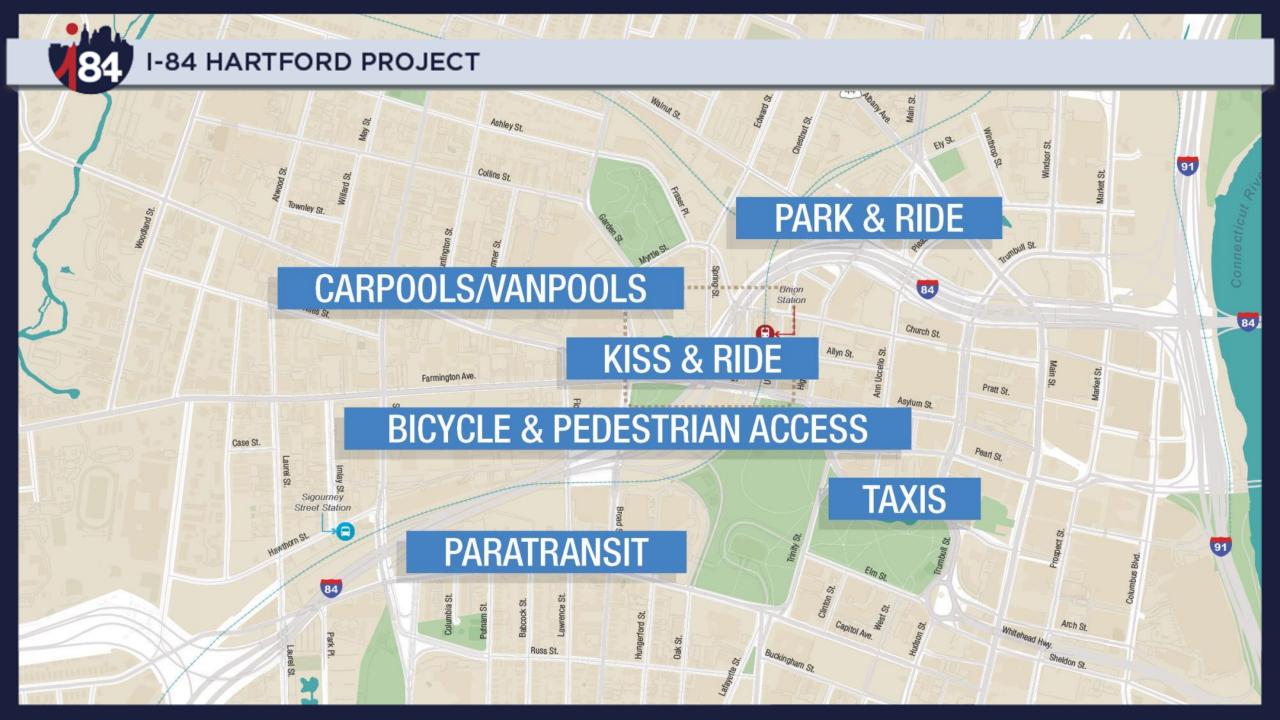






I-84 HARTFORD PROJECT Walnut St. SHUTTLE ROUTES Ashley St. EN St. Asylum Hill Columbus Boulevard Collins St. Dash Asylum Ave. 84 Station Niles St. 84 Church St. Allyn St. New Station Farmington Ave. Pratt St. Asylum St. 84 Case St. Lewis St. Sigourney Street Station 91 Capitol Ave. 84 Arch St. Whitehead Hwy. Buckingham St. Sheldon St.

I-84 HARTFORD PROJECT Ashley St. **INTERCITY ROUTES** Amtrak ____ Intercity Bus Collins St. Station Niles St. 84 Church St. Farmington Ave. Pratt St. Asylum St. Ford St. 84 Case St. Pearl St. Sigourney Street Station Capitol Ave. 84 Arch St. Buckingham St.



Transit Oriented Development Opportunities

What are the best ways to encourage development?

- Retail
- Restaurants
- Residential
- Office
- Lodging / hotels



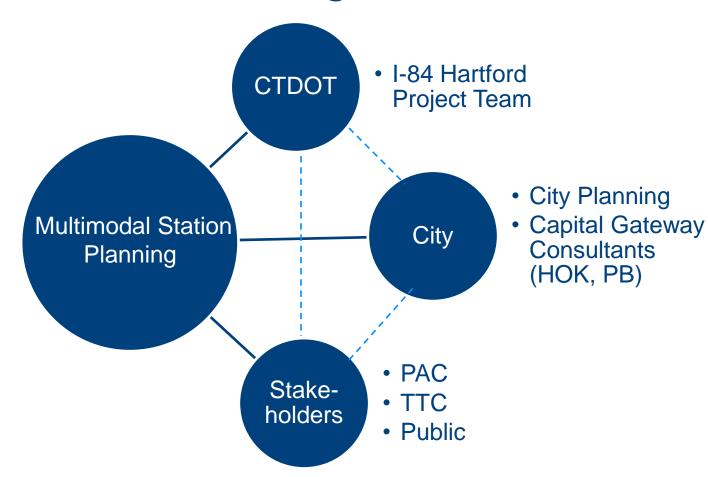
Public and Stakeholder Involvement

- Cooperative approach with City / stakeholders
- Public and stakeholder involvement
 - PAC meetings
 - Transit Technical Committee (TTC) meetings
 - Public meetings
- Interaction with City's Capital Gateway Master Plan consultant



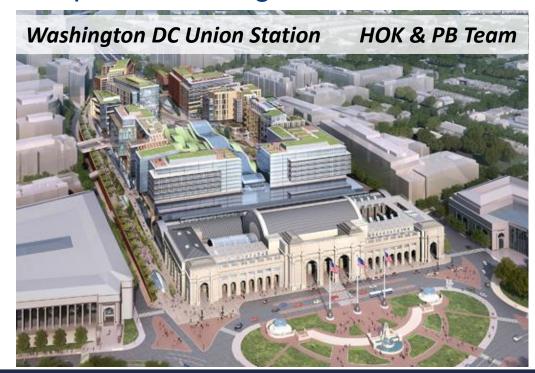


Multimodal Station Planning



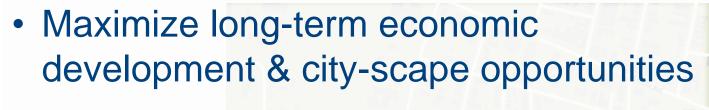
Capital Gateway Master Plan

- Engaged A/E team of HOK & WSP/Parsons Brinckerhoff (PB)
- Envision a fitting new transit center for the Capital City
- Prepare a strategic station area master plan





Capital Gateway Master Plan



 Understand project area impacts; explore mitigation strategies



Next Steps

Individual Stakeholder
Interviews- February / March

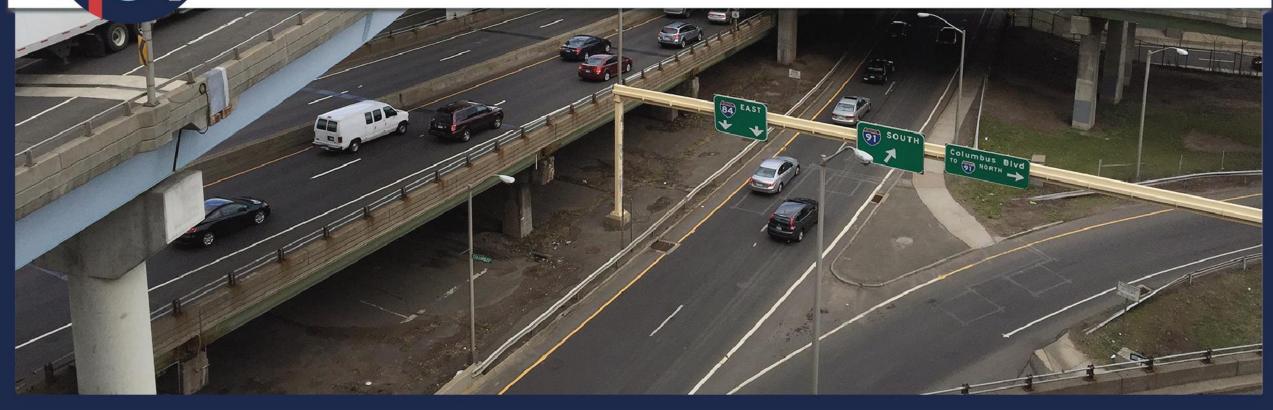
Vision Workshop with TTC-March 1

Programming Meeting with TTC- April

Public Meeting – April

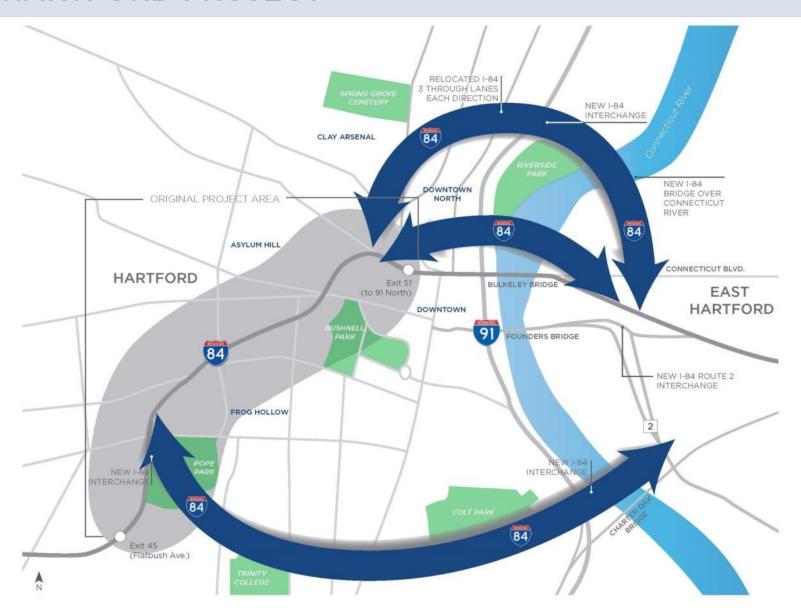


I-84 / I-91 Interchange Coordination



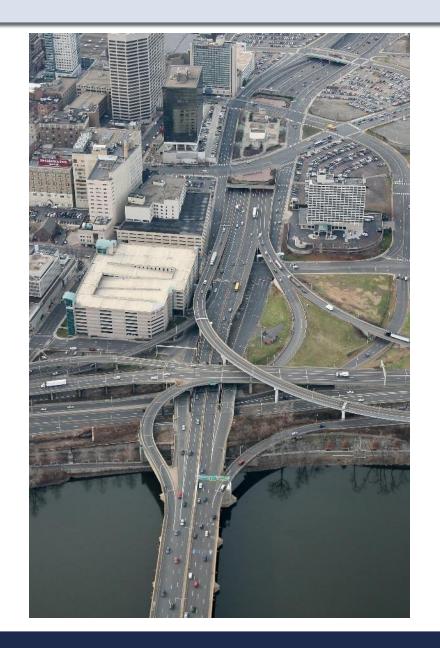


I-84 HARTFORD PROJECT

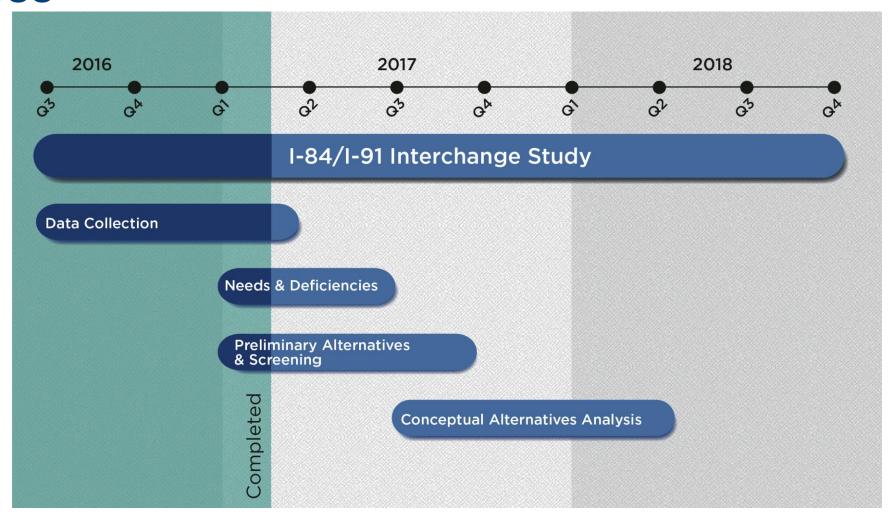


Process / Schedule

- Estimated 18-month duration
- Four preliminary alternatives
 - Screening
- Two alternatives advanced to conceptual design



Process



Expanding Opportunities in the Hartford Region by Rethinking the Transportation Network





A Vision for the Future: Reshaping the Region's Core



- Rethink transportation systems to solve regional problems and unlock Hartford and East Hartford's potential
- Achieve city and regional goals for near and long-term growth
- Spur economic development, reinvestment, jobs, and improved quality of life
- Reconnect Hartford and East Hartford to the river and to each other
- Support new public transit and new public spaces





Current Condition: A Constrained and Fragmented Core

CONNECTICUTE

- The existing highway network is a constraint on downtown growth
- The network fragments the commercial and civic core – and limits each district's potential

LEGEND

Highway

Interchange

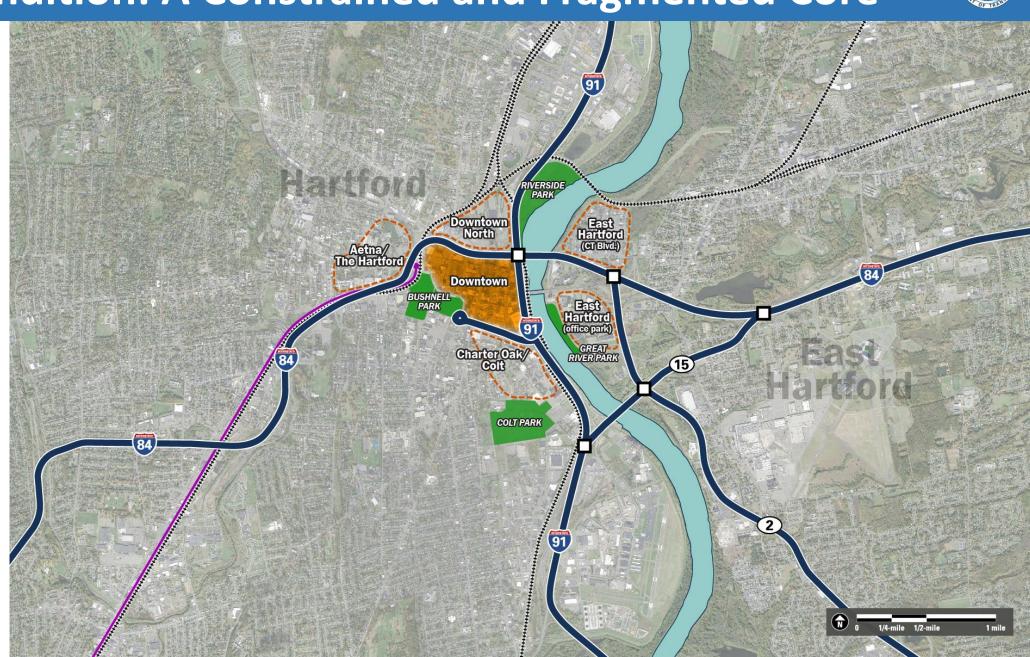
Green space

Downtown core

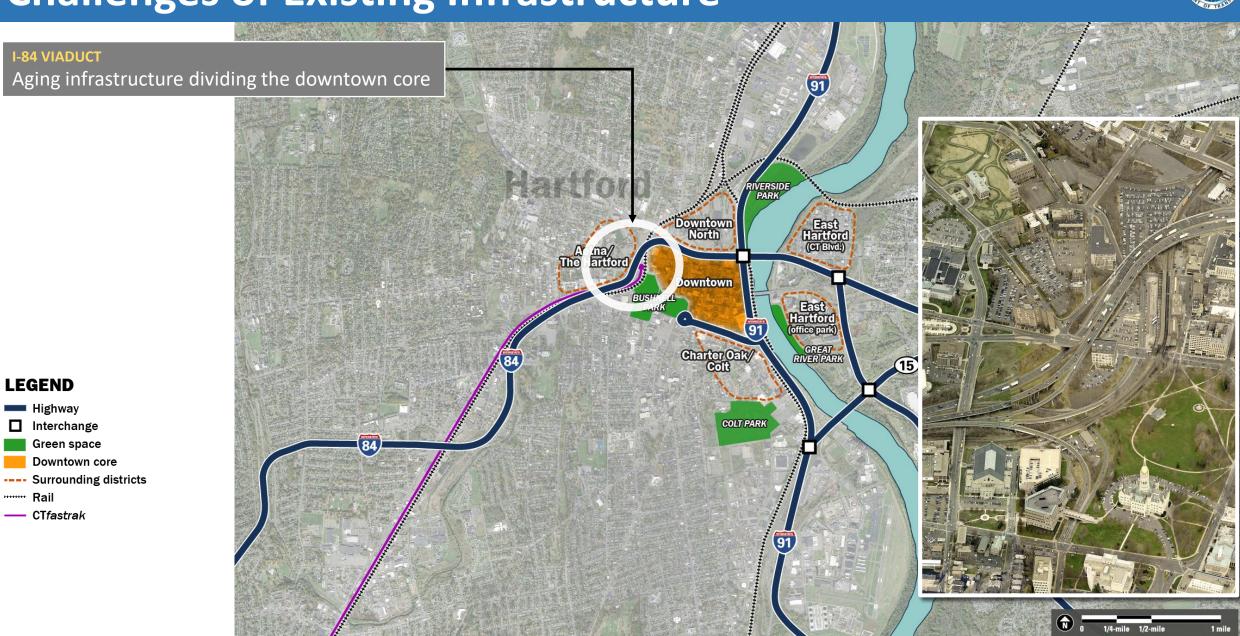
--- Surrounding districts

······ Rail

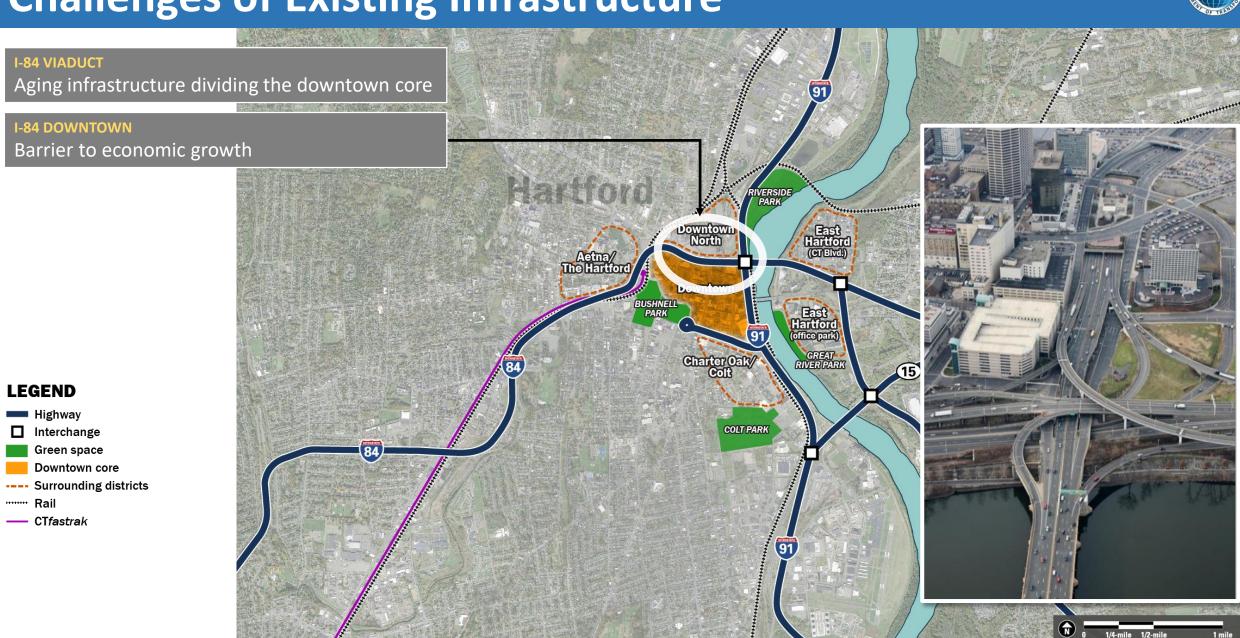
- CTfastrak





















I-84 VIADUCT

Aging infrastructure dividing the downtown core

I-84 DOWNTOWN

Barrier to economic growth

84/91 INTERCHANGE

Congestion generator at city gateway

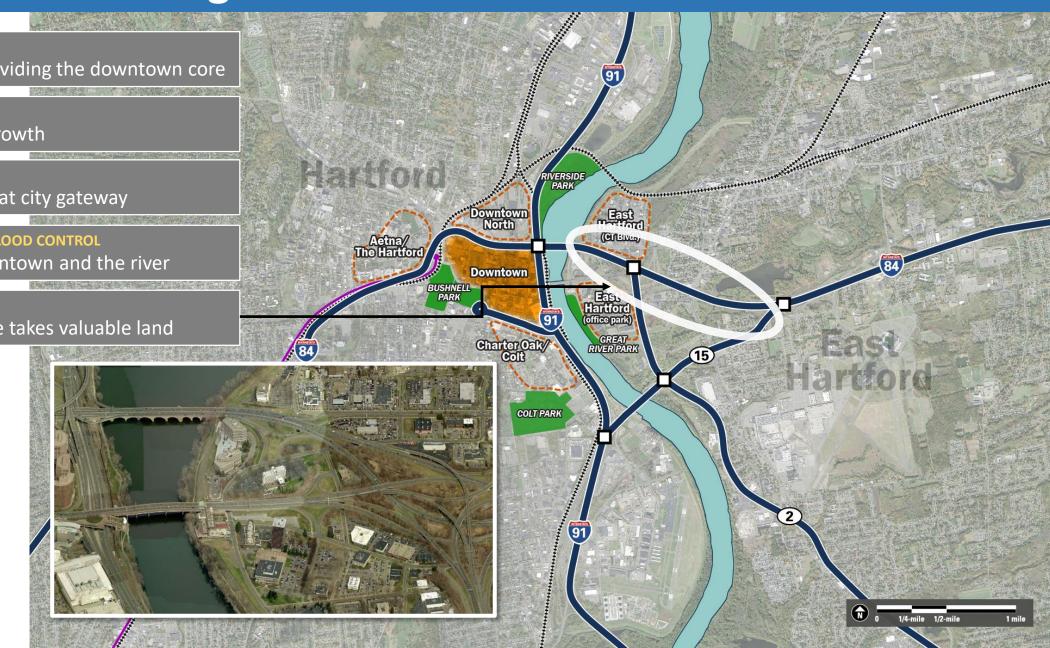
I-91, RAIL CORRIDOR, AND FLOOD CONTROL

Barriers between downtown and the river

I-84 EAST HARTFORD

Highway infrastructure takes valuable land

- Highway
- Interchange
- Green space
- Downtown core
- Surrounding districts
- CTfastrak



Previous Concept: I-291 Bypass (not implemented)



- Potential bypass to reduce the size of I-84 through Hartford
- Only 5-10% of trips would have been taken out of city center
- Opposed during planning and ultimately shelved

LEGEND

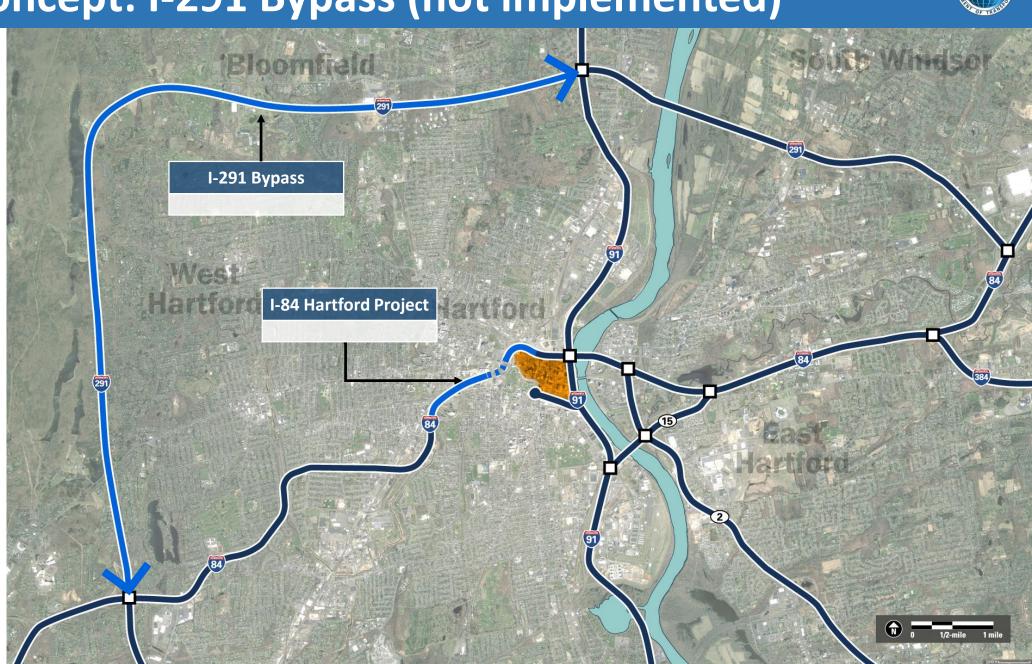
Highway

■ Interchange

Existing highway alignment

Highway realignment

Tunnel/cap



Highway Scenarios Currently Being Considered

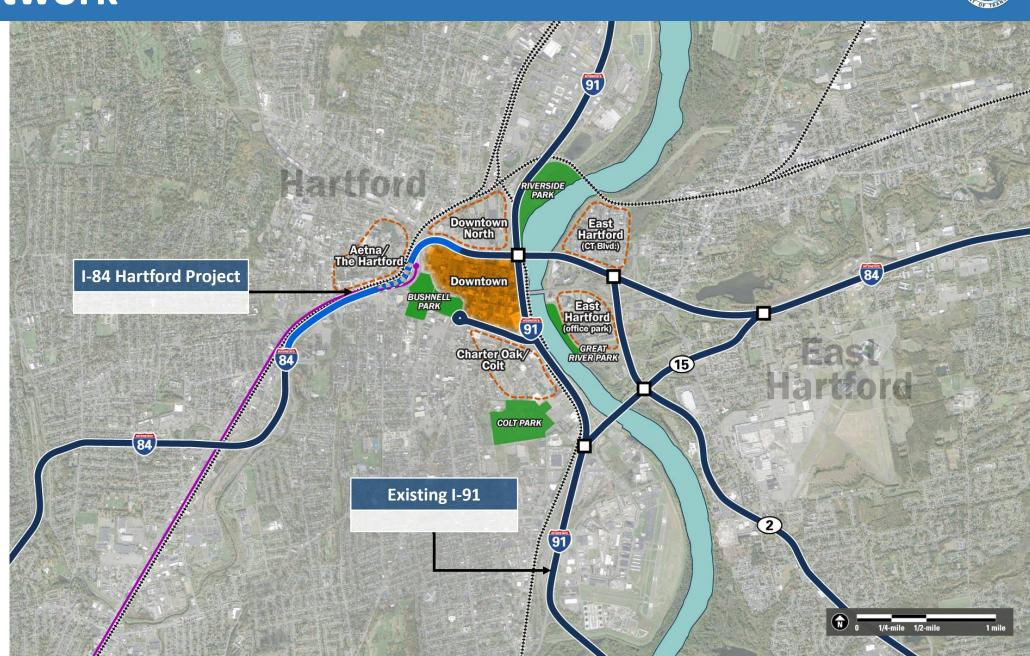
Options for I-84 and I-91

Existing Network



- I-84 Hartford
 Project is ongoing
- I-84 through downtown fragments the city's core
- I-91, the rail line, and the flood wall create a barrier between the city and river

- Highway
- Interchange
- Green space
- Downtown core
- --- Surrounding districts
- ······ Rail
- CTfastrak

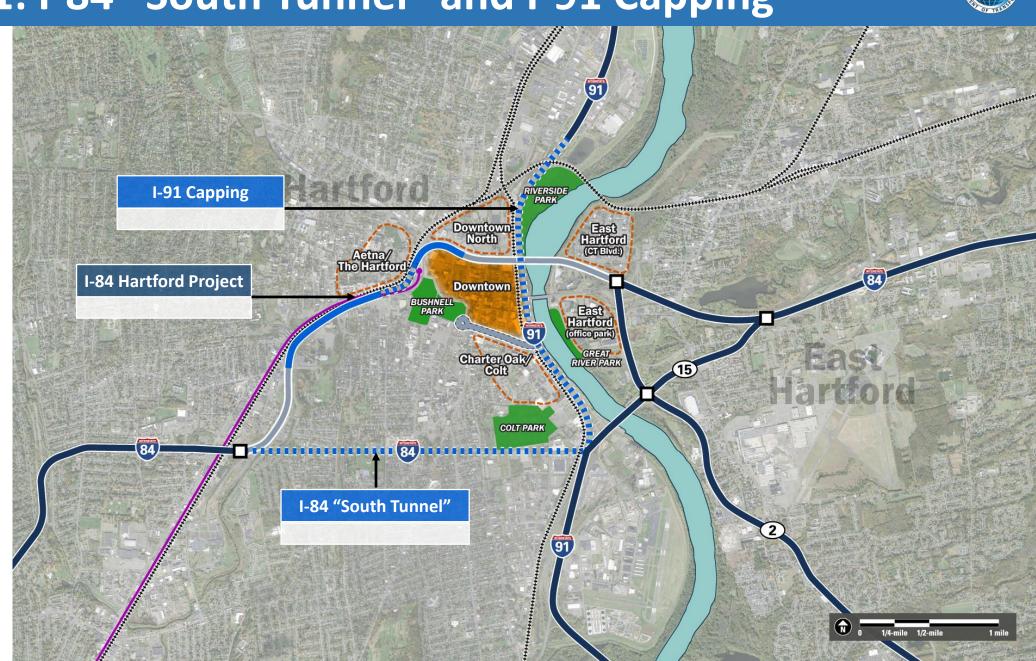


Scenario #1: I-84 "South Tunnel" and I-91 Capping

CONNECTICITY OF THE LINE

- A new I-84 "South Tunnel" is shown as a southern bypass between Flatbush Ave. and the Charter Oak Bridge
- I-91 is capped in key locations between the Charter Oak Bridge and Riverside Park

- Highway
- Interchange
- Tunnel/cap
- Urban arterial
- Green space
- Downtown core
- ---- Surrounding districts
- ······ Rail
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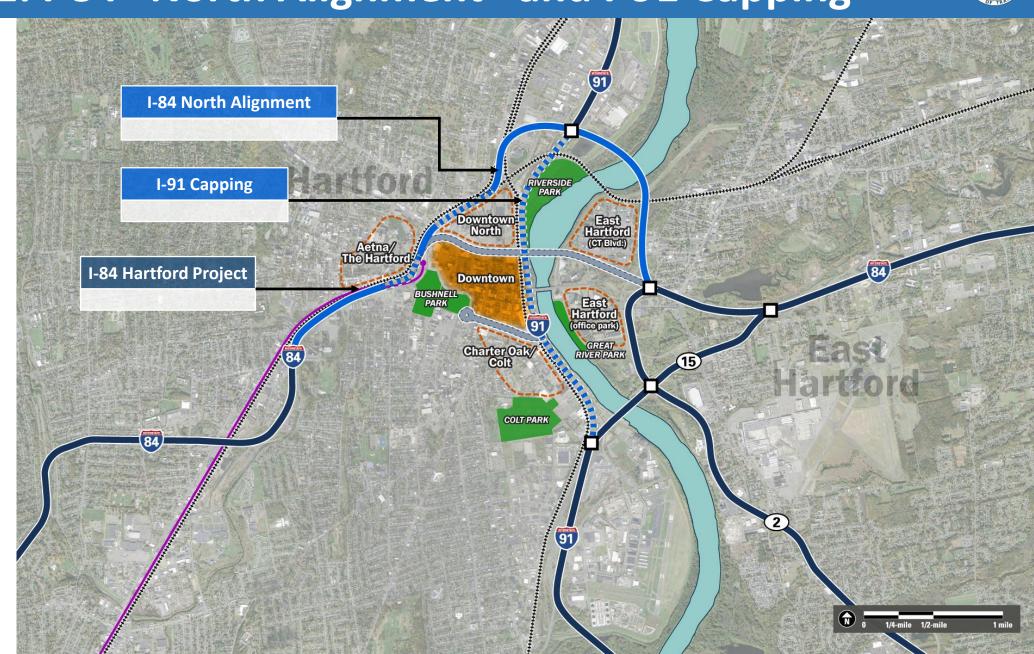


Scenario #2: I-84 "North Alignment" and I-91 Capping

CONNECTION NOTICE TO THE PROPERTY OF THE PROPE

- A new I-84 "North Alignment" is shown that relocates the 84/91 interchange out of the city center
- New bridge over the CT River
- I-91 is capped in key locations

- Highway
 - Interchange
- Existing highway alignment
- Highway realignment
- Tunnel/cap
- Urban arterial
- Green space
- Downtown core
- --- Surrounding districts
- ······ Rail
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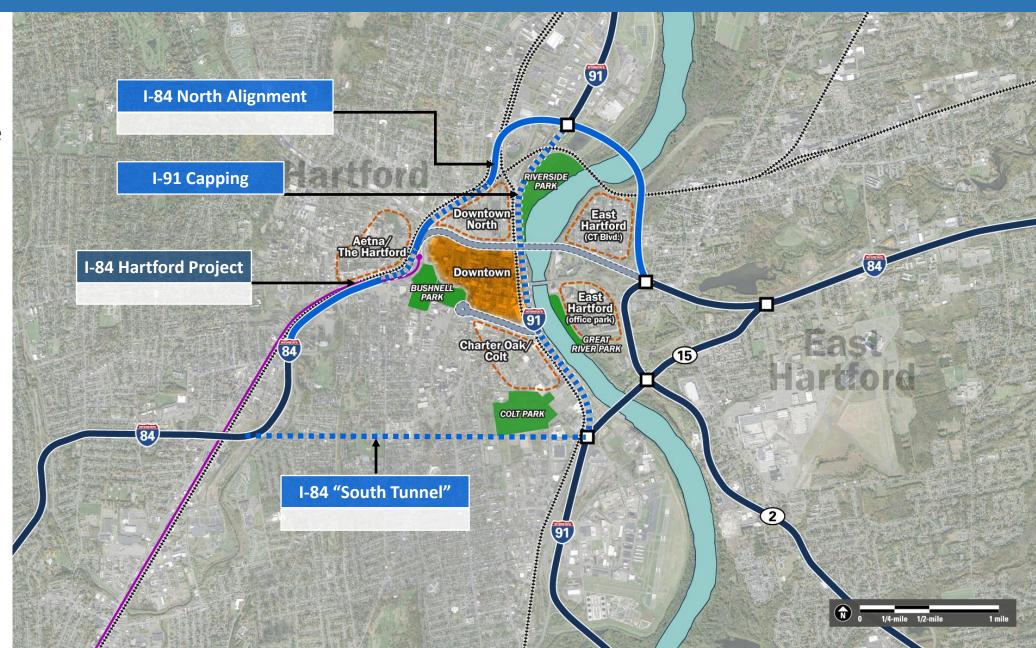


Combined scenarios



- Conceptual level of work to date
- Additional analysis needed to determine feasibility of options or combination of options

- Highway
- Interchange
- Existing highway alignment
- Highway realignment
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Reimagining the Riverfront

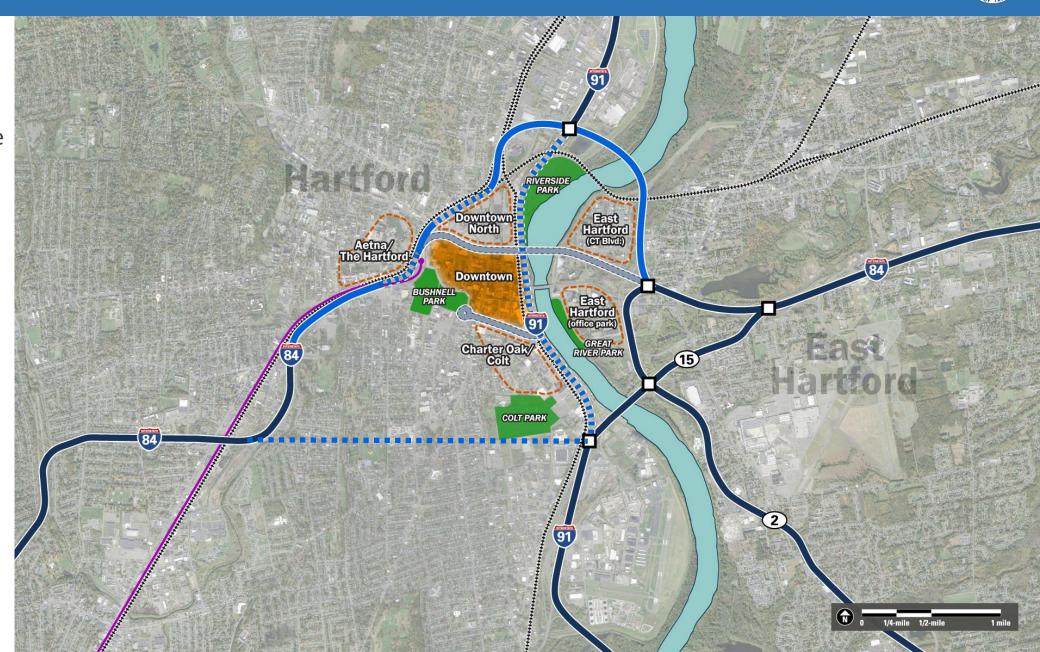
For Hartford and East Hartford

Combined scenarios



- Conceptual level of work to date
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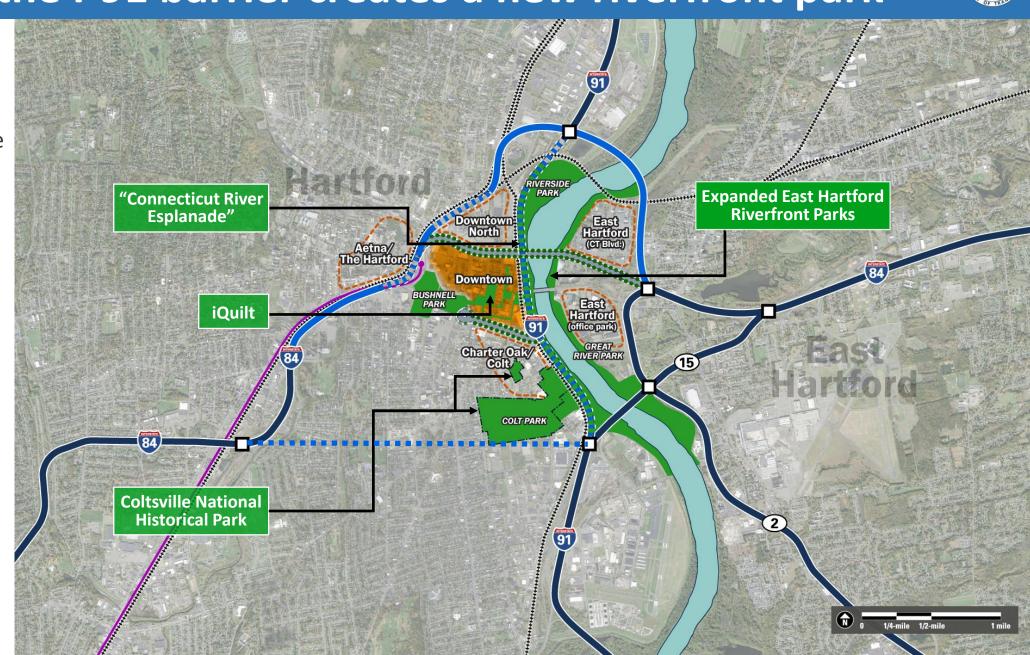


Removing the I-91 barrier creates a new riverfront park

CONNECTICULAR

- New "Connecticut River Esplanade"
- Hartford's reconnection to the water
- Creates an overall network with East Hartford
- Links destinations and creates recreation loops

- Highway
 - Interchange
- Existing highway alignment
- Highway realignment
- Tunnel/cap
- Urban arterial
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- Downtown core
- --- Surrounding districts
- Coltsville National Historic District
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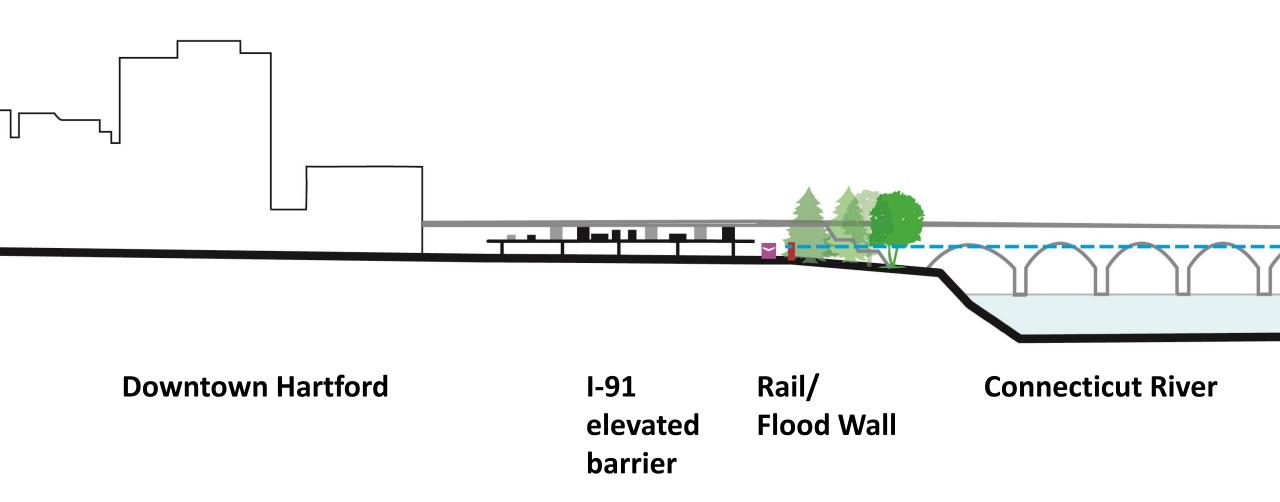






Riverfront: Existing





Riverfront: Potential



Connecticut River



Downtown Hartford Rail I-91 Flood Wall under cap (+ Connecticut River Esplanade)

Promoting Economic Development

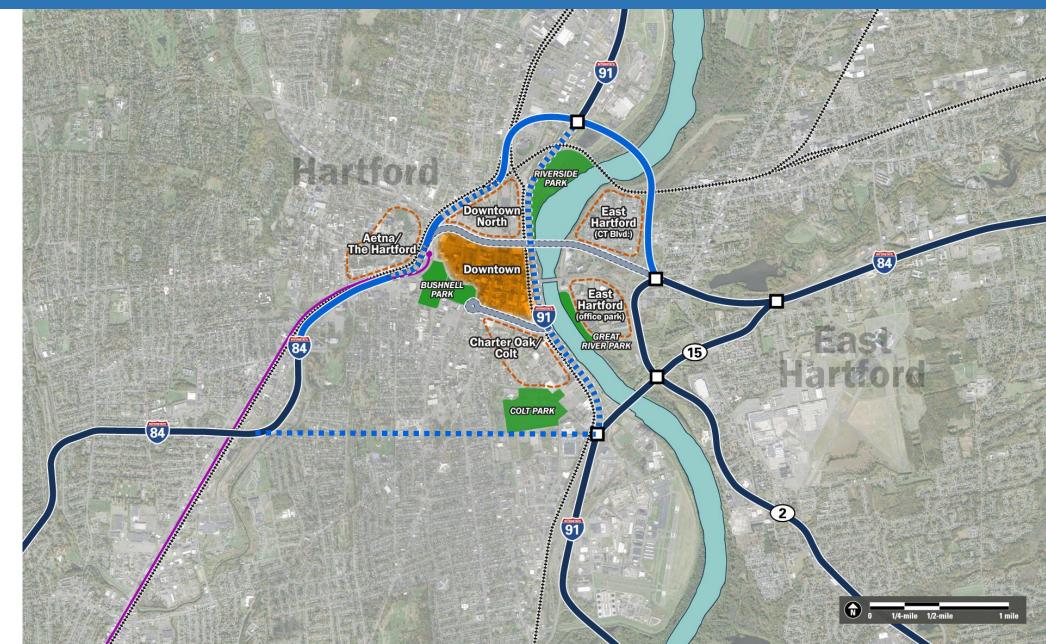
In Hartford and East Hartford

Combined scenarios





- Highway
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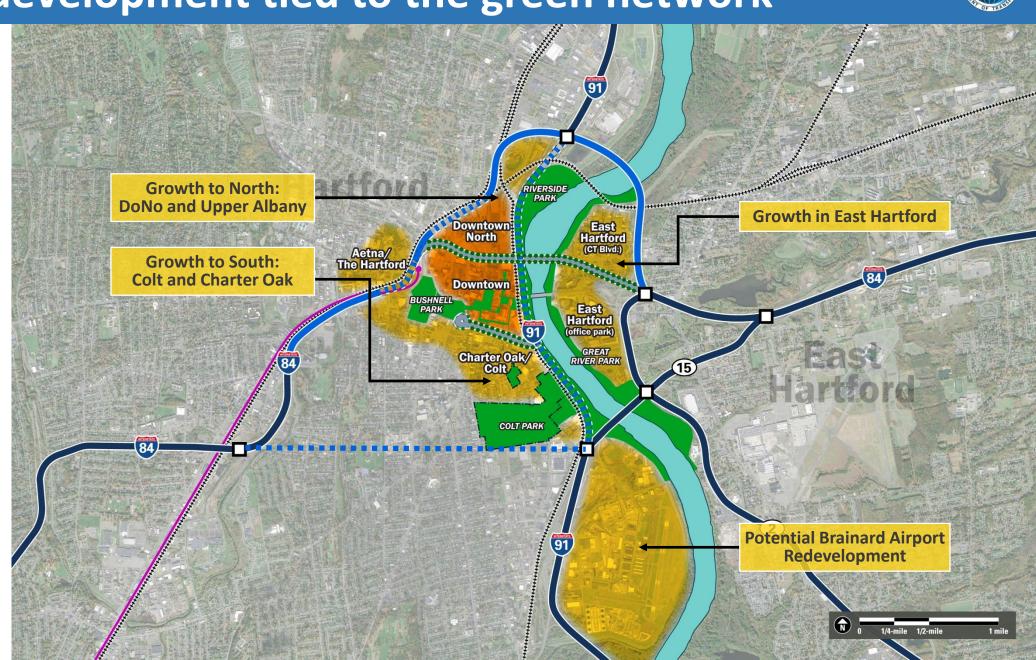


Economic development tied to the green network

CONNECTICUTE OF THE AVERT

- Growth in Hartford could potentially occur to the north, west, and south
- Growth in East
 Hartford could
 occur north and
 south of CT Blvd.
 with a mix of uses
 taking advantage of
 the waterfront

- Highway
 - Interchange
- Existing highway alignment
- Highway realignment
- Tunnel/cap
- Urban arterial
- Green space
- Downtown core
- City growth
- Coltsville National Historic District
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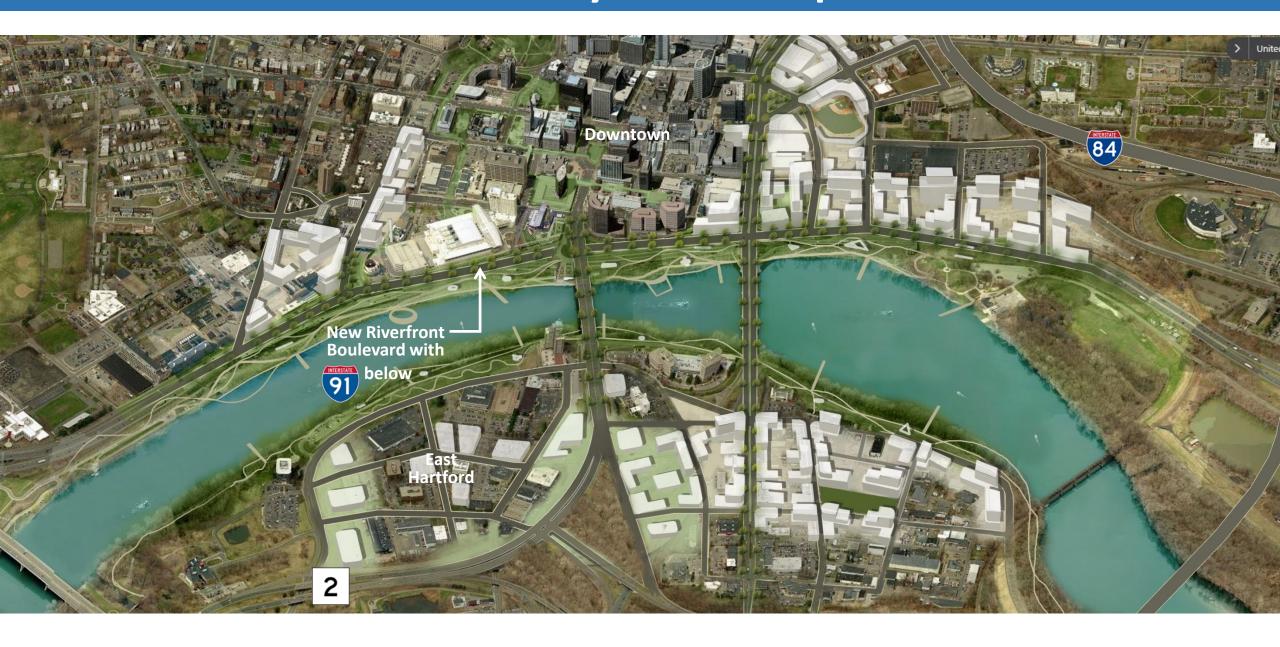


Existing transportation network limits the city's potential





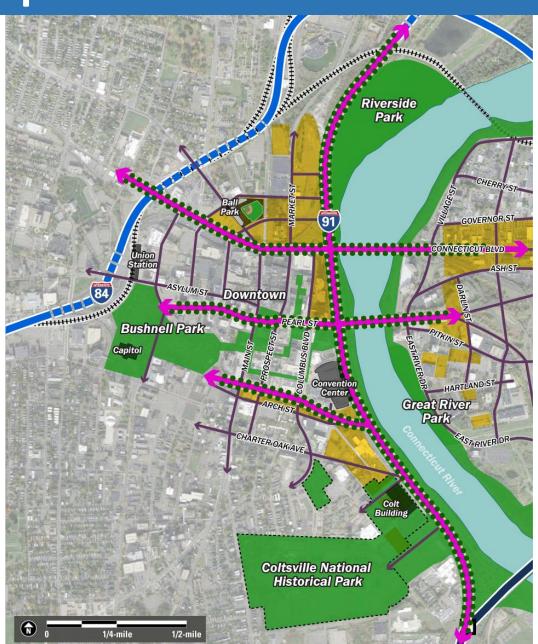
Transformed riverfront catalyzes development on both sides



Potential redevelopment sites



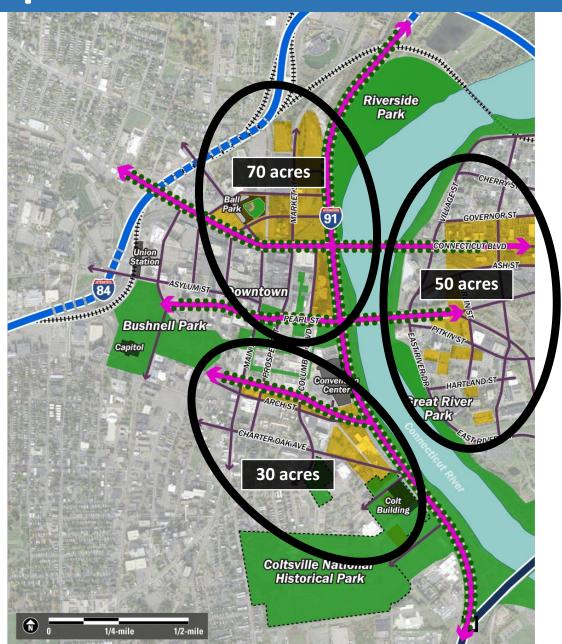
- A high-level analysis of sites shows potential areas for city growth and revitalization
- Other areas may be possible
- Current uses, ownership, market demand and development economics will be critical factors



Potential redevelopment sites



Approximately 150
 acres of development or
 redevelopment
 potential



Integrating Public Transit

Making connections east/west and north/south

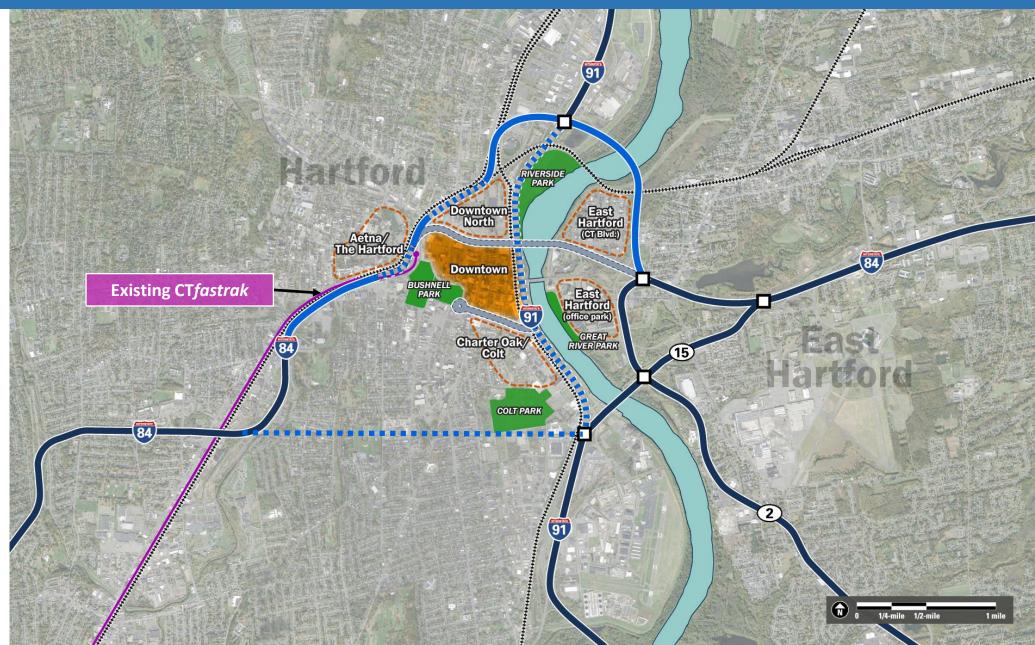
Combined scenarios



 CTfastrak has exceeded ridership goals and expansion to the east is ongoing

LEGEND

- Highway
- Interchange
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- Highway realignment
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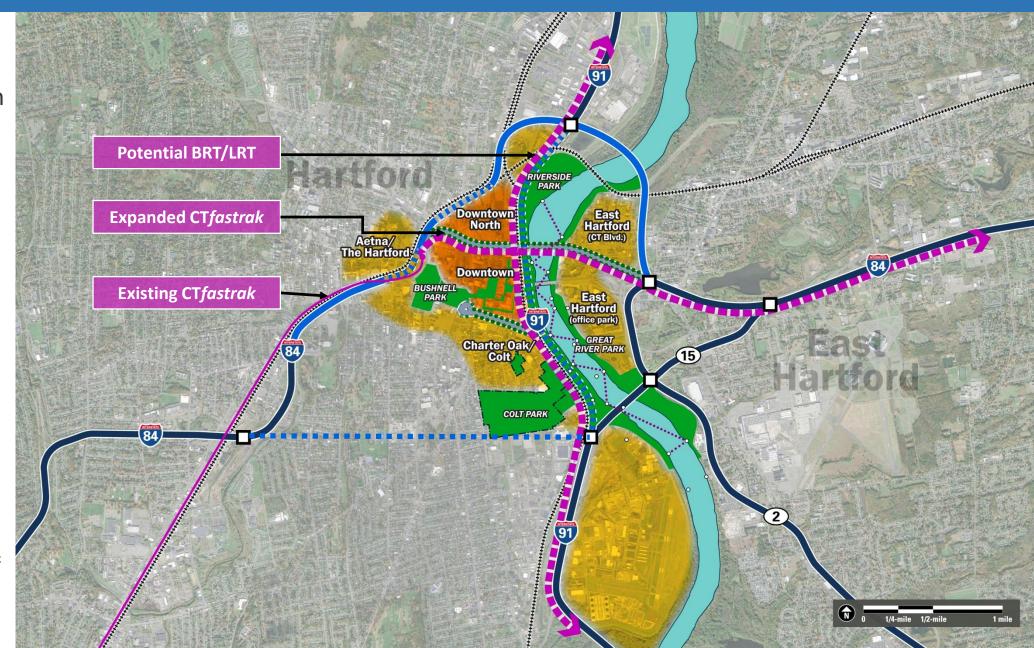
The public transit network can be further enhanced



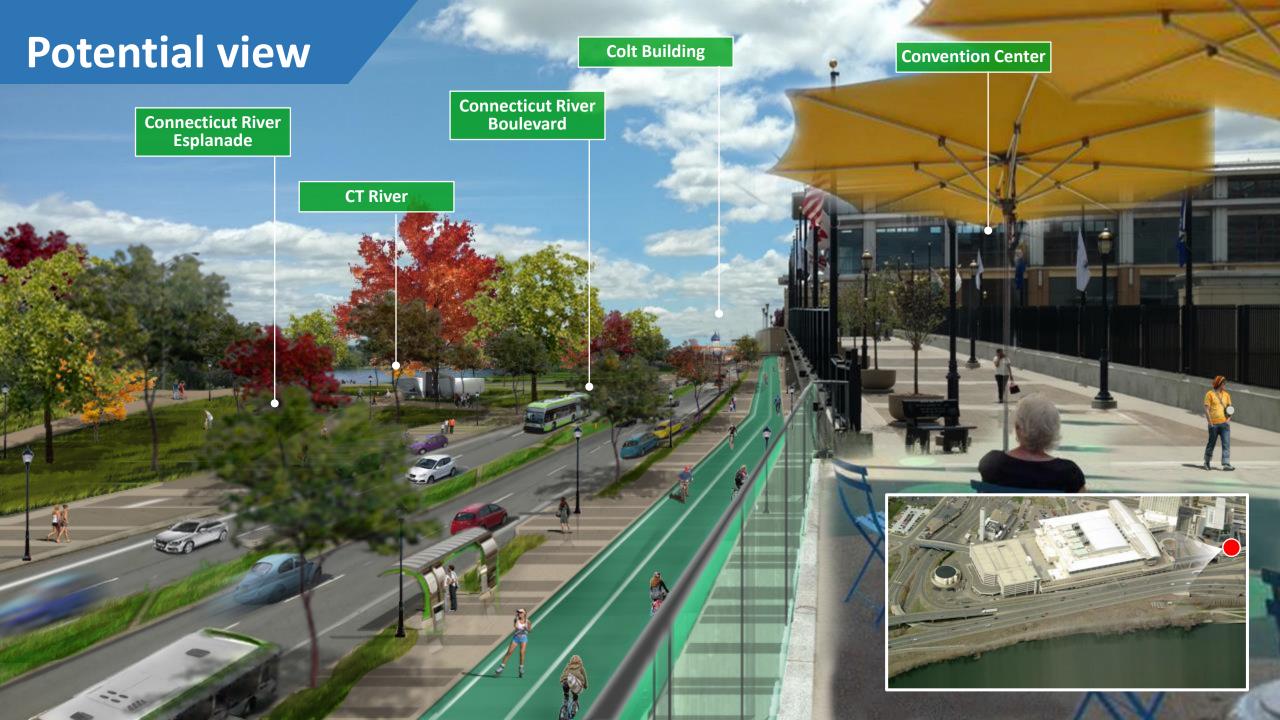
 Enhanced public transit could occur north/south along a new riverfront, tying together key destinations and residential areas

LEGEND

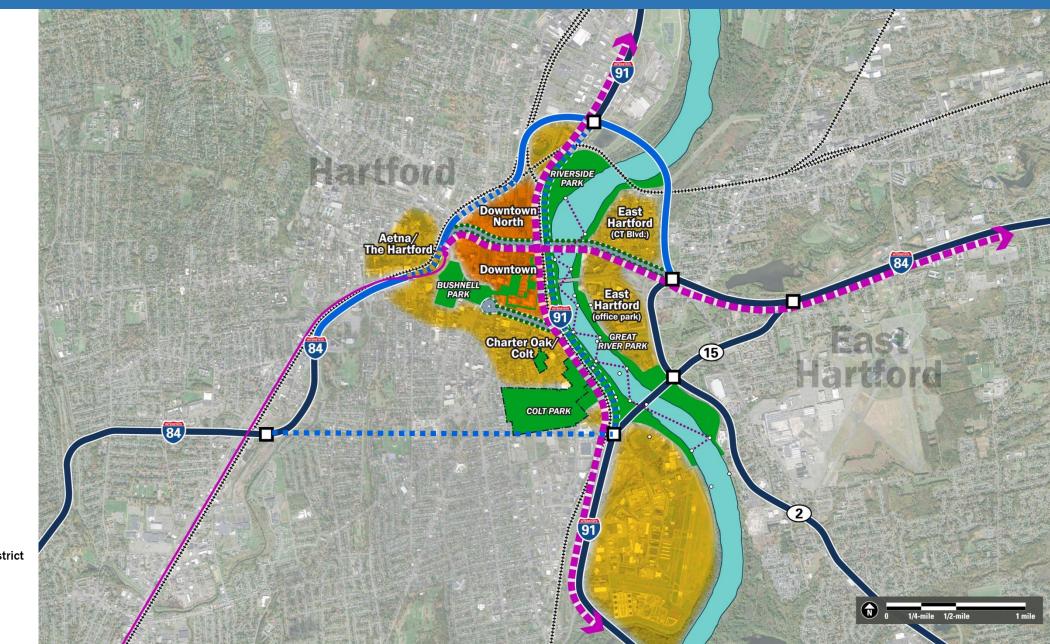
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- **Expanded/potential BRT**
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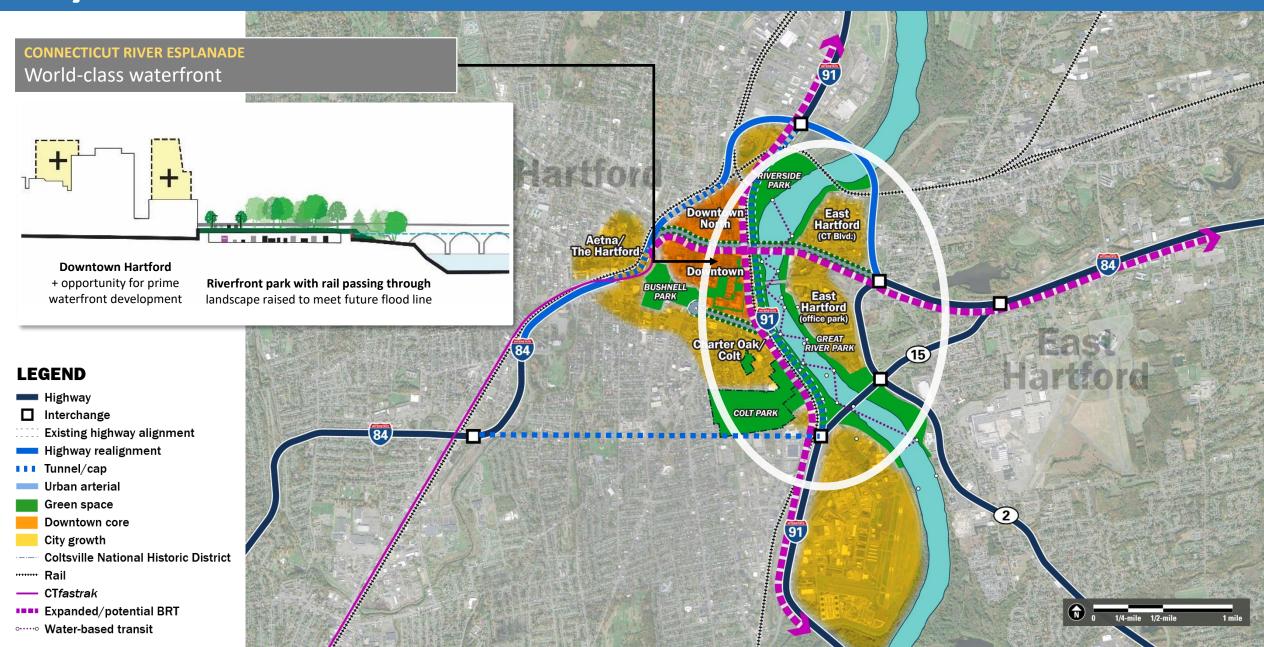


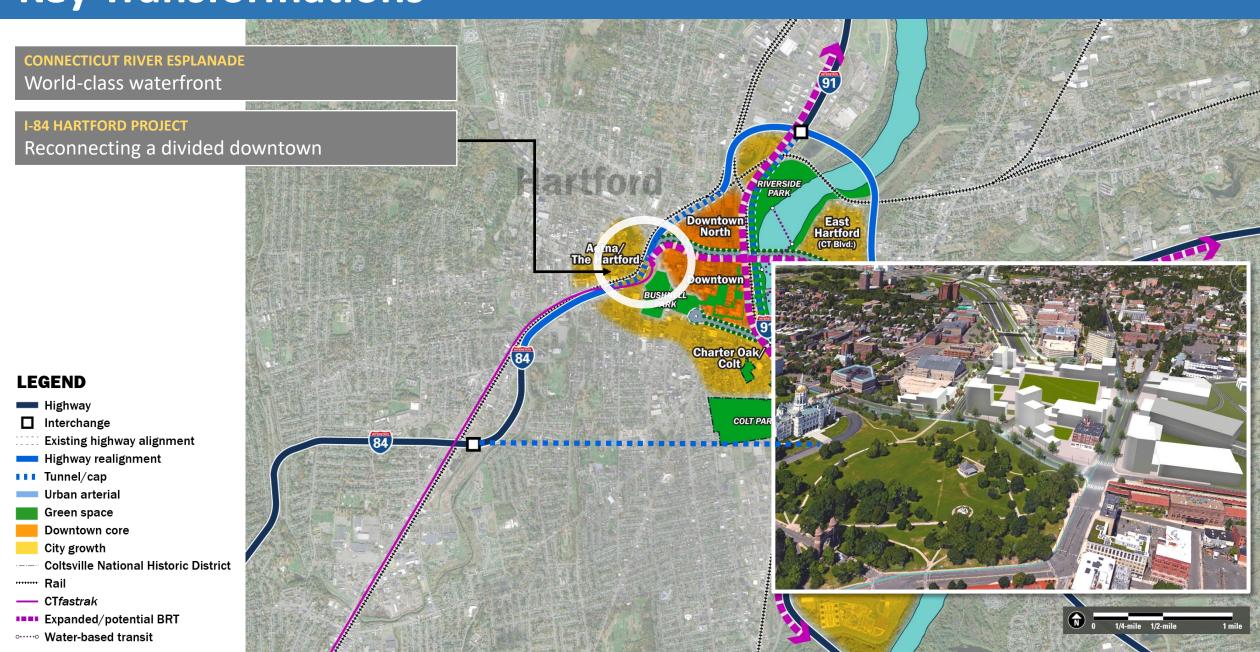
In Hartford and East Hartford

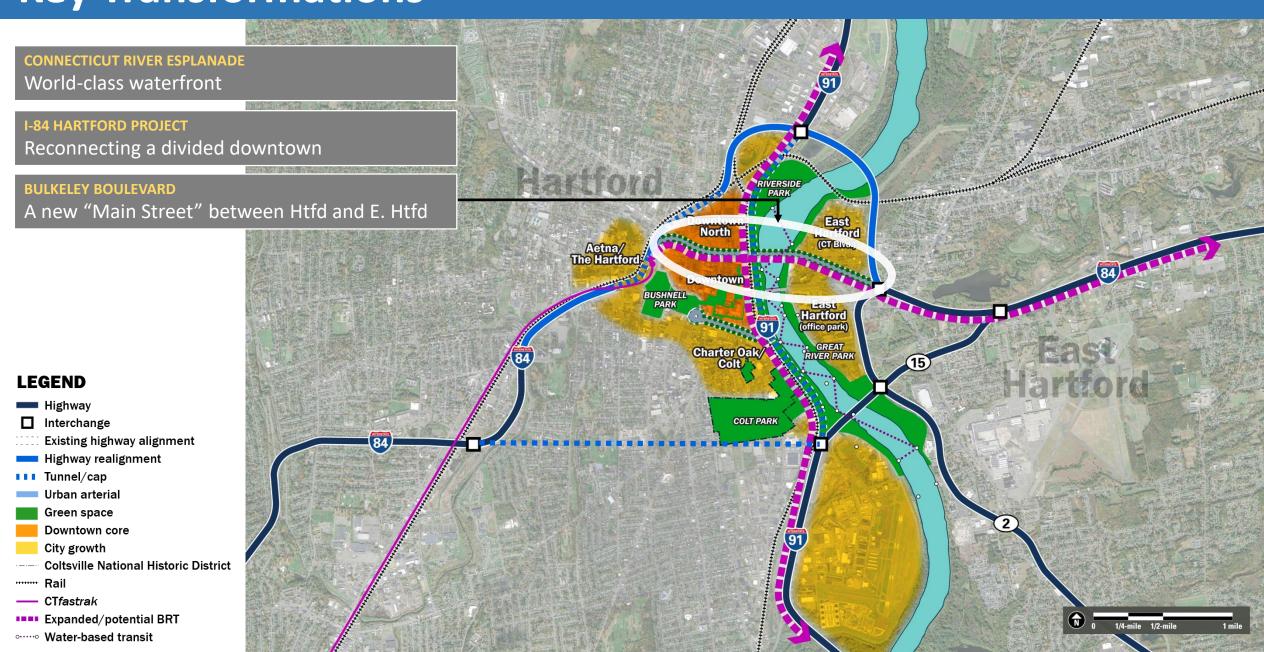


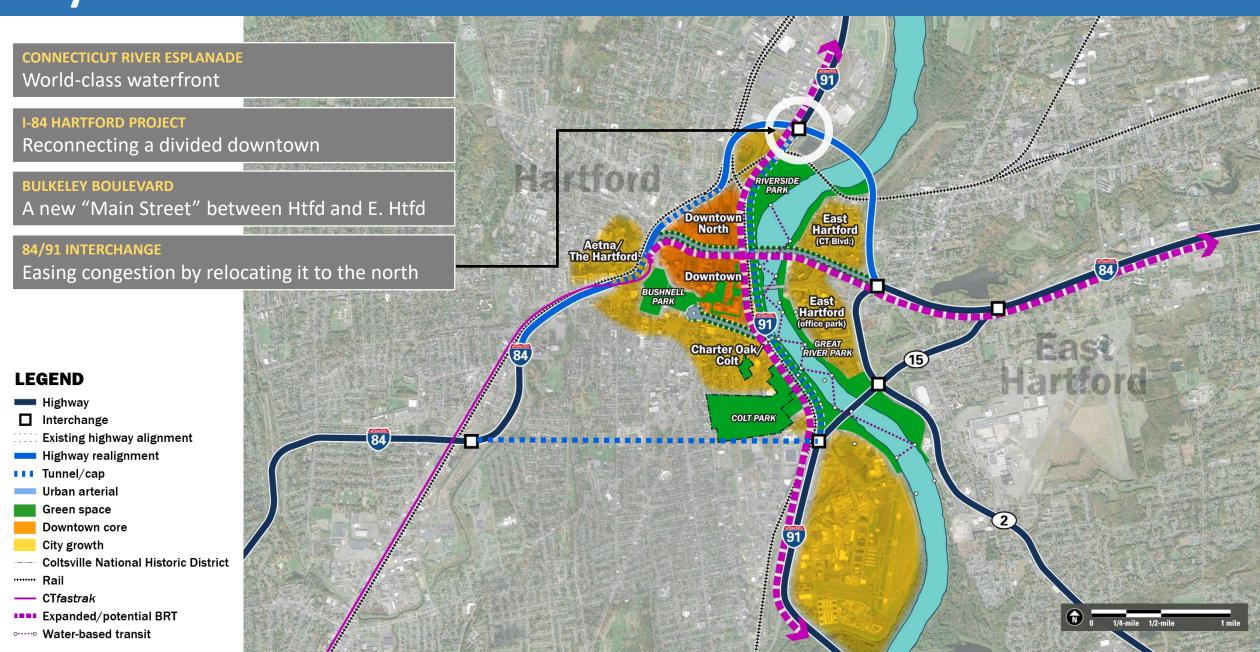
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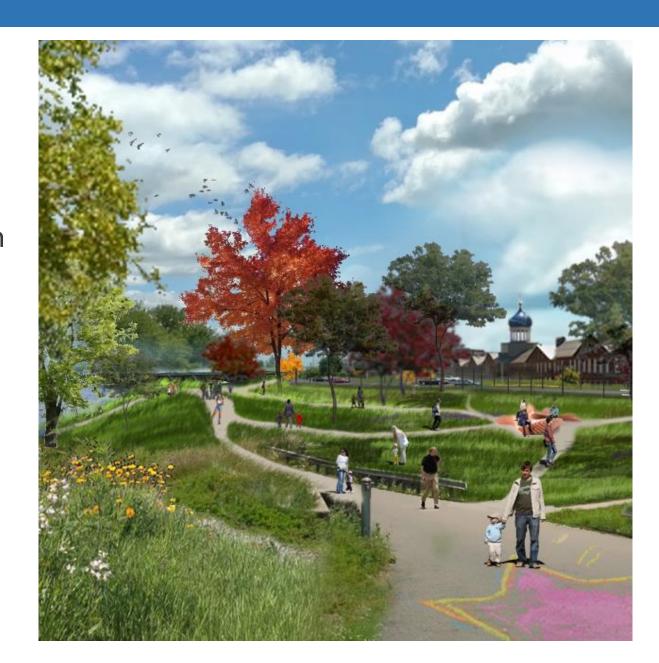






Tangible Results for Hartford

- A transformed transportation network to support urban growth, not constrain it
- A transformed riverfront as the centerpiece of a thriving Capitol city
- Approximately 100 acres of development in the form of new construction or redevelopment
- Significant job creation
- 45 acres of new green space in the form of a new "Connecticut River Esplanade"



Tangible Results for East Hartford

- A transformed transportation network to free up valuable land for growth
- A transformed riverfront to expand the amenities of Great River Park and catalyze development
- Approximately 50 acres of development in the form of new construction or redevelopment along Connecticut Blvd and the Business Park
- Significant job creation
- Reconnecting to Downtown Hartford and creating economic and recreational synergies



 Poor lane continuity at existing interchange

Legend:
Two through
lanes
Three through
lanes



 Poor lane continuity at existing interchange

Legend:
Two through
lanes
Three through
lanes



Existing AM travel
 speeds – I-84 & I-91

Legend: < 20 mph 21 – 30 mph 31 – 40 mph 41 – 50 mph 51 – 60 mph

>60 mph



Existing PM travel
 speeds – I-84 & I-91

Legend: < 20 mph 21 - 30 mph 31 - 40 mph 41 - 50 mph 51 - 60 mph >60 mph





84

Outreach



Since Our Last Meetings

- November Open Planning Studio (2)
- NRZ meetings
- Pop up table at events
- School and youth outreach



What To Expect in 2017

- Four PAC meetings
- Working Group meetings, as needed
- Public meetings
- Continued stakeholder and NRZ meetings



Spring 2017 Public Meetings

Topics:

- I-84 Hartford Project
- Multimodal station area
- I-84 / I-91 Interchange Study



Other Items

- Updated website
- Informational kiosk at Hartford Public Library
- Project table at fairs, festivals
- Surveys
- Youth outreach



School and Youth Outreach

- Broad and diverse populations
 - Students, faculty, families, trainees
- Geographic reach



Example Activities

- Classroom learning
- Bulletin boards
- Special events
- Backpack distribution







I-84 HARTFORD PROJECT







I-84 HARTFORD PROJECT

2017 Outreach

PAC MEETINGS PUBLIC MEETINGS POP-UP EVENTS SCHOOL/YOUTH OUTREACH NRZ/STAKCHOLDER MEETINGS FINALIZE PIP UPDATE OUTREACH SURVEY NEW WEBSITE LAUNCH KIOSK LAUNCH QUARTERLY NEWSLETTER TITLE VI/EJ REPORT METRICS REPORT E-BULLETINS SOCIAL MEDIA COMMENT RESPONSE TRANSIT TECHNICAL COMMITTEE (TCC) MEETINGS PUBLIC MEETINGS PUBLIC MEETINGS PUBLIC MEETINGS PUBLIC MEETINGS PUBLIC MEETINGS	
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Thank You!

Thank you for your time. We appreciate your commitment to helping us reach the best possible solution for the State of Connecticut, the Capitol Region, and the City of Hartford.

-Your I-84 Hartford Project Team