

# 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

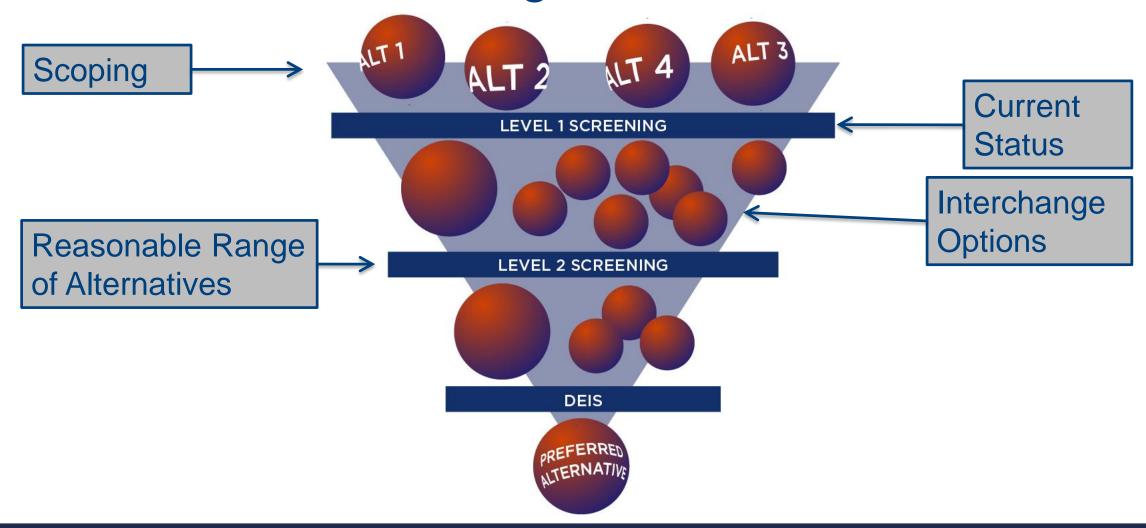
# Meeting Agenda

- 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

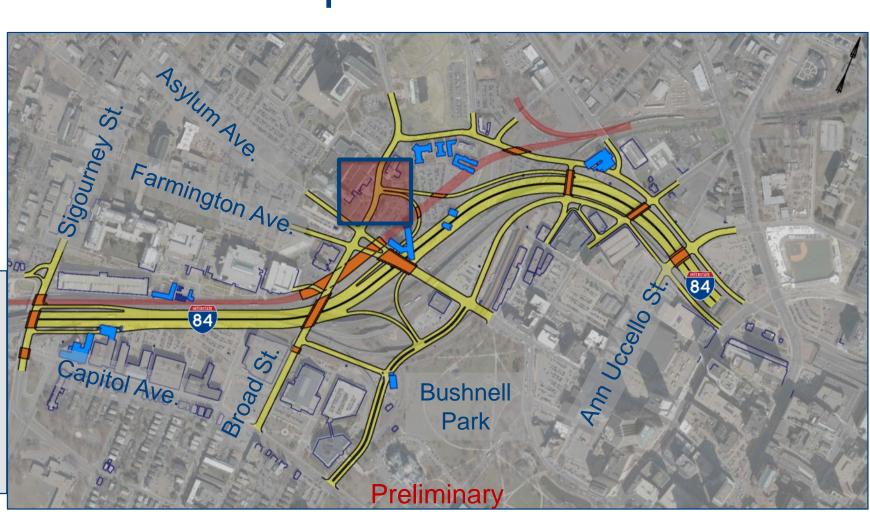
# Recent Progress – East Options

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

#### **Legend:**

Roadway At-Grade
Bridge Structure
Railroad Corridor
Potential Building
Impacts



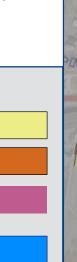


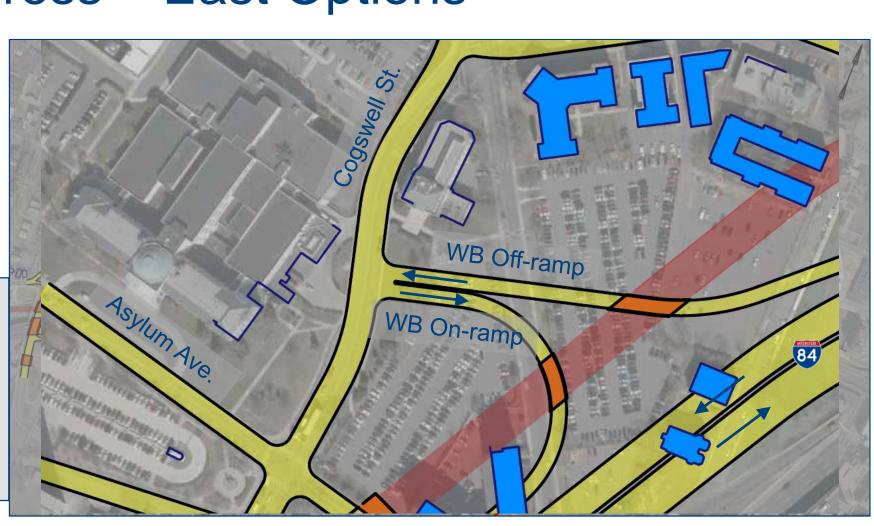
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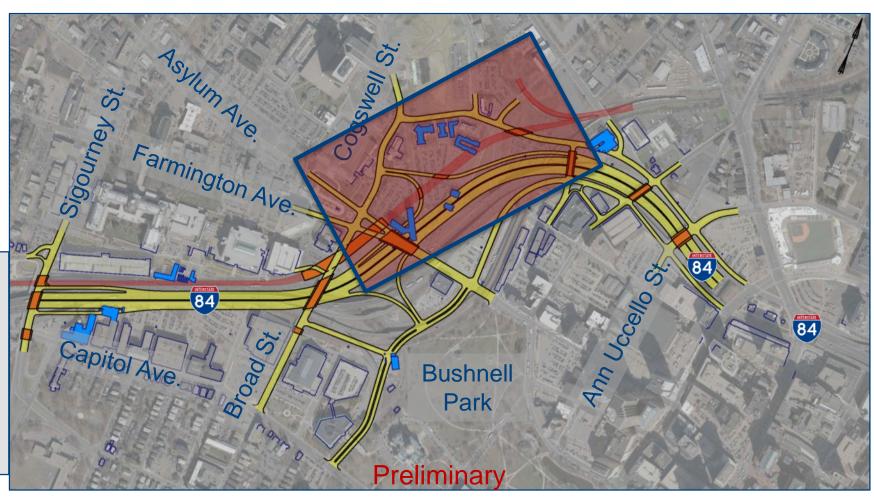
# Recent Progress – East Options

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

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Impacts





# Important Considerations (East Options)

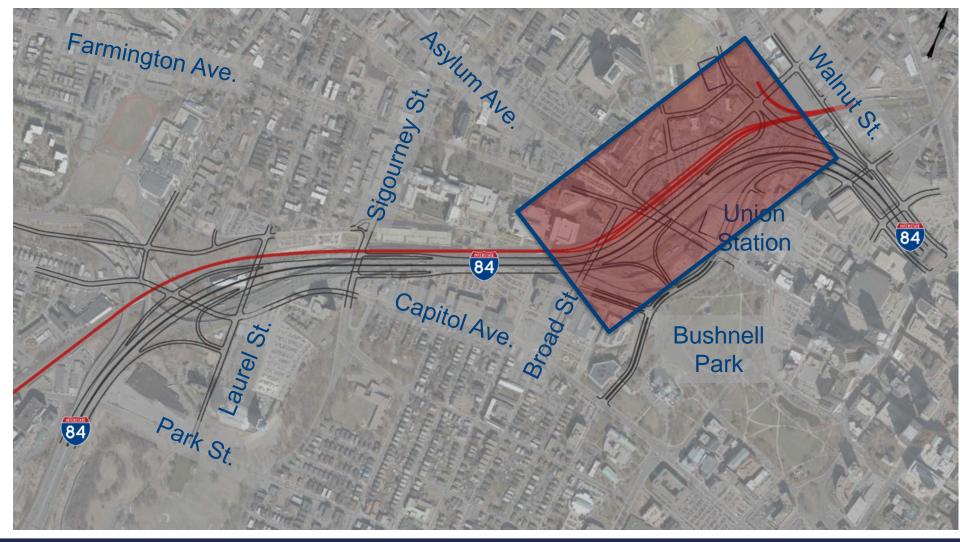
- Volume
- Distribution
- Trident
- Operations
- Access
- Impacts (including historic)
- Connections
- Stakeholders / neighborhoods
- Transit Oriented Development (TOD) and open space potential

# 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**

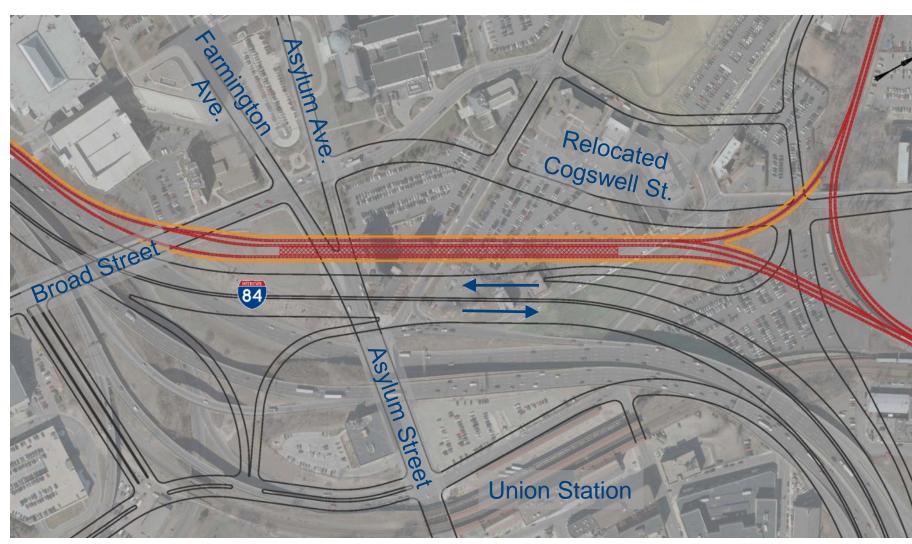
- Necessary for Lowered and Tunneled alternatives
- Two-track corridor
- Approximate limits: Park St to Walnut St



### **Proposed Station**

#### Three Tracks

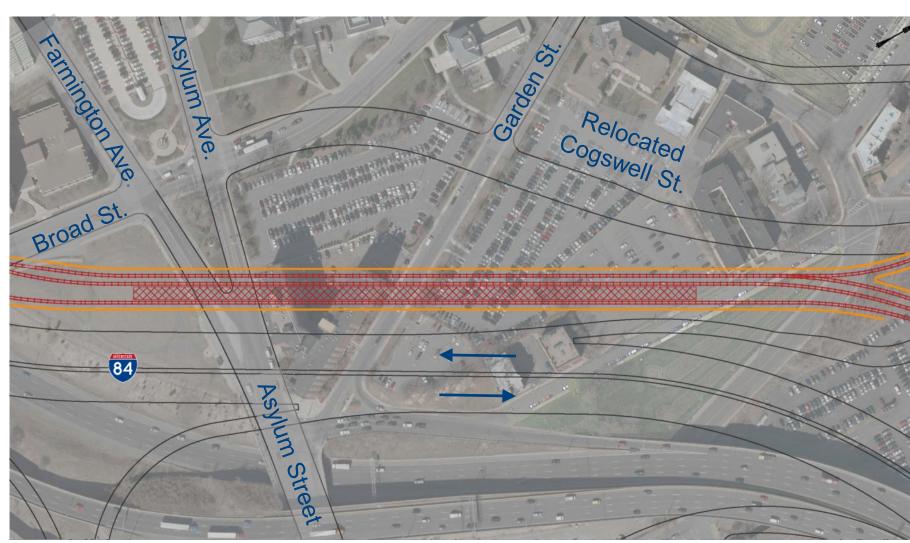
- Two passenger tracks
- Island platform
- Freight bypass track
- Potential Griffin Line connection



### **Proposed Station**

#### Three Tracks

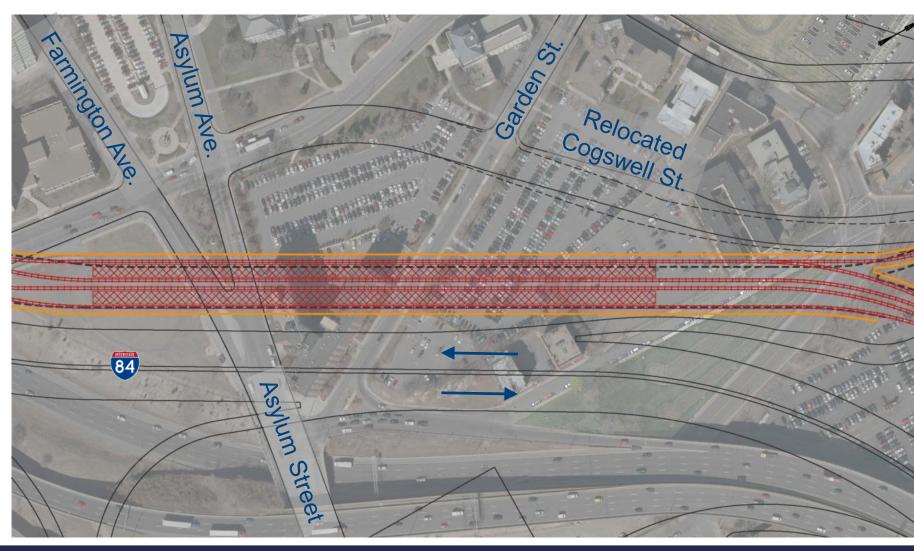
- Two passenger tracks
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#### **Proposed Station**

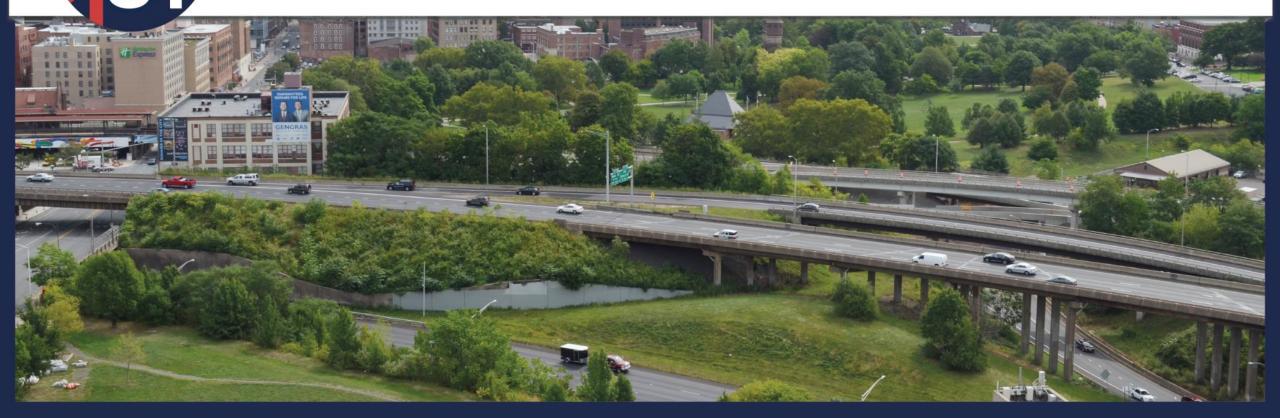
#### Four Tracks

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





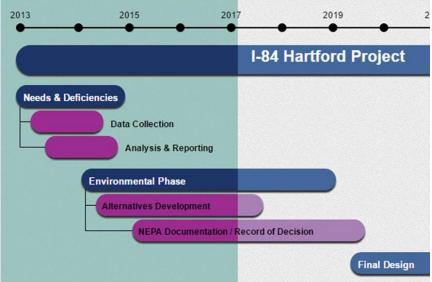
# **Environmental Documentation**



#### 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**

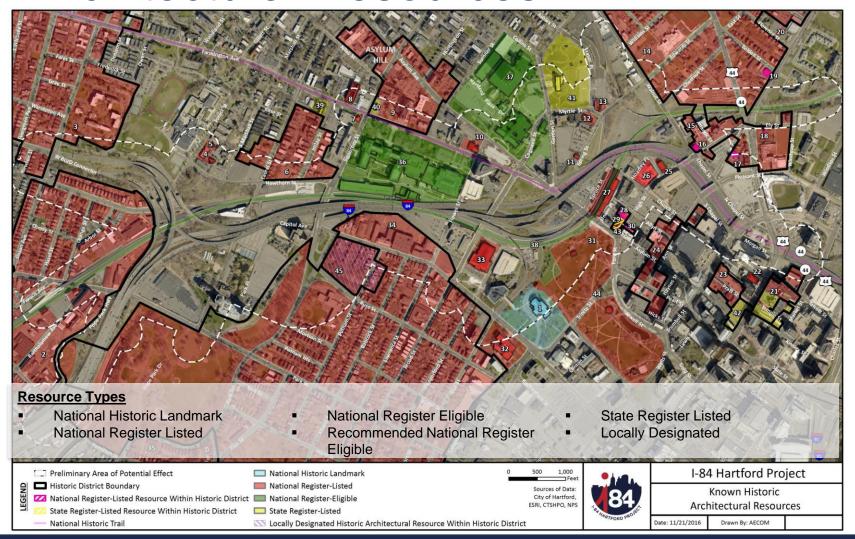
- Purpose and Need
- Alternatives
- Agency Coordination and Public Outreach
- Existing Conditions, Impacts and Mitigation
- Indirect and Cumulative Impacts
- Construction Impacts
- Appendices



#### 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

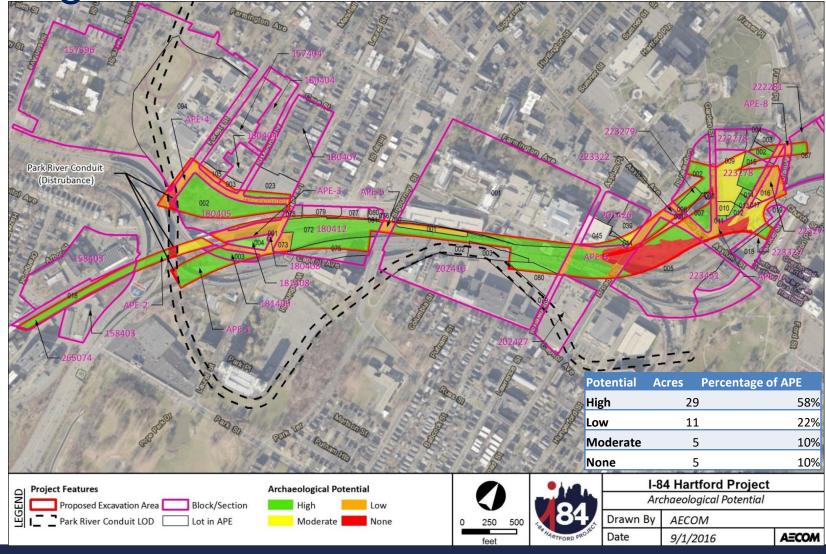
Summary of Impacts

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

<sup>\*4</sup> of 7 known resources are within NR-listed Frog Hollow Historic District

Note: Preliminary effect determination pending SHPO concurrence

Archaeological Potential



# **Next Steps**

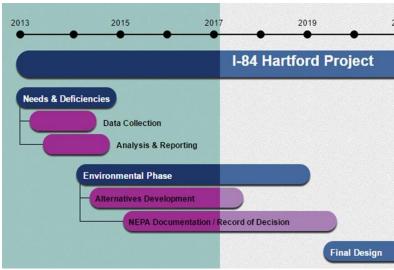
#### Cultural resources

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

# Environmental phase

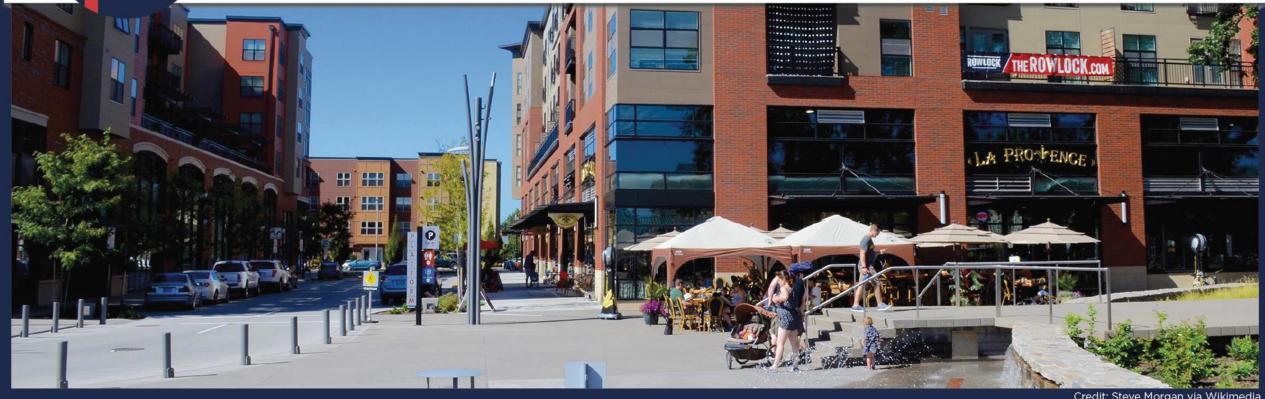
- Draft EIS: fall 2018
- Public Hearing: end 2018
- Final EIS: summer 2019
- Record of Decision: fall 2019







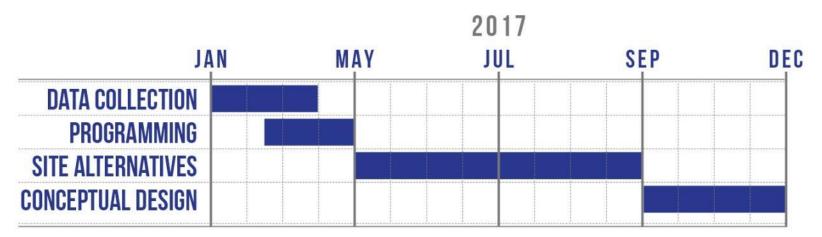
# Multimodal Station Area Planning



### 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

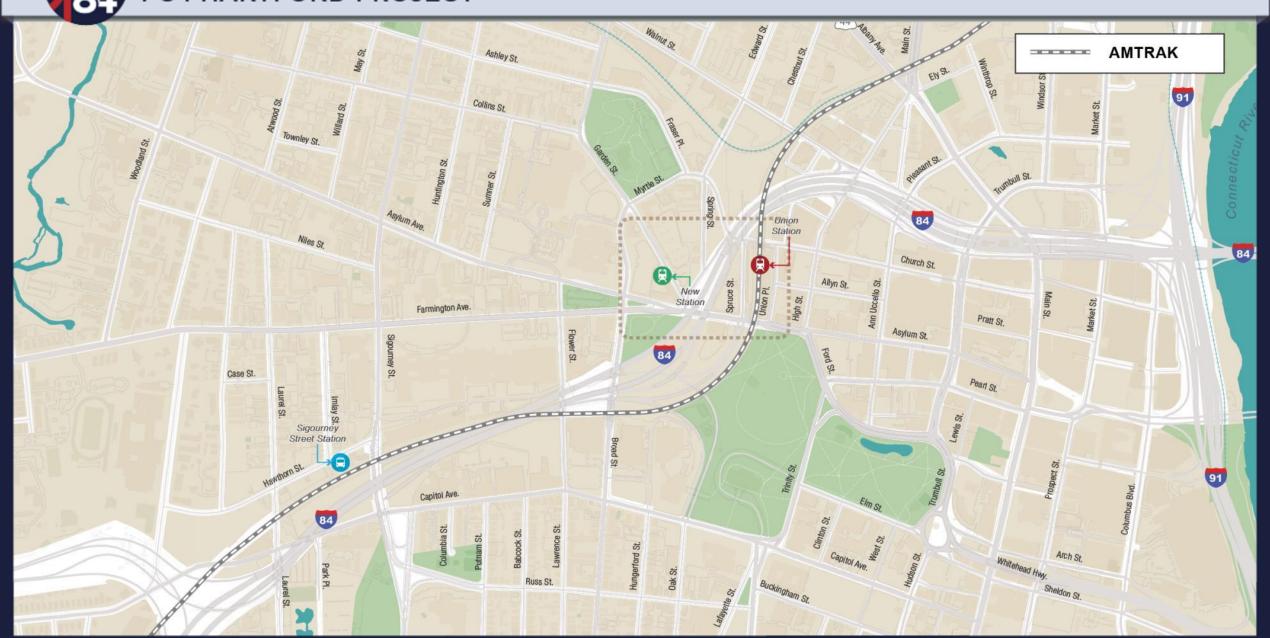
- Modes / users
- Functional values and priorities
- Design restrictions and guidelines
  - City building codes / zoning regulations
  - Design guidelines (Amtrak, NHHS HSR Program) -Category 1 Station?
  - Platform design (1000' long x 24' wide, 4' above top of rail)
  - Historic Union Station

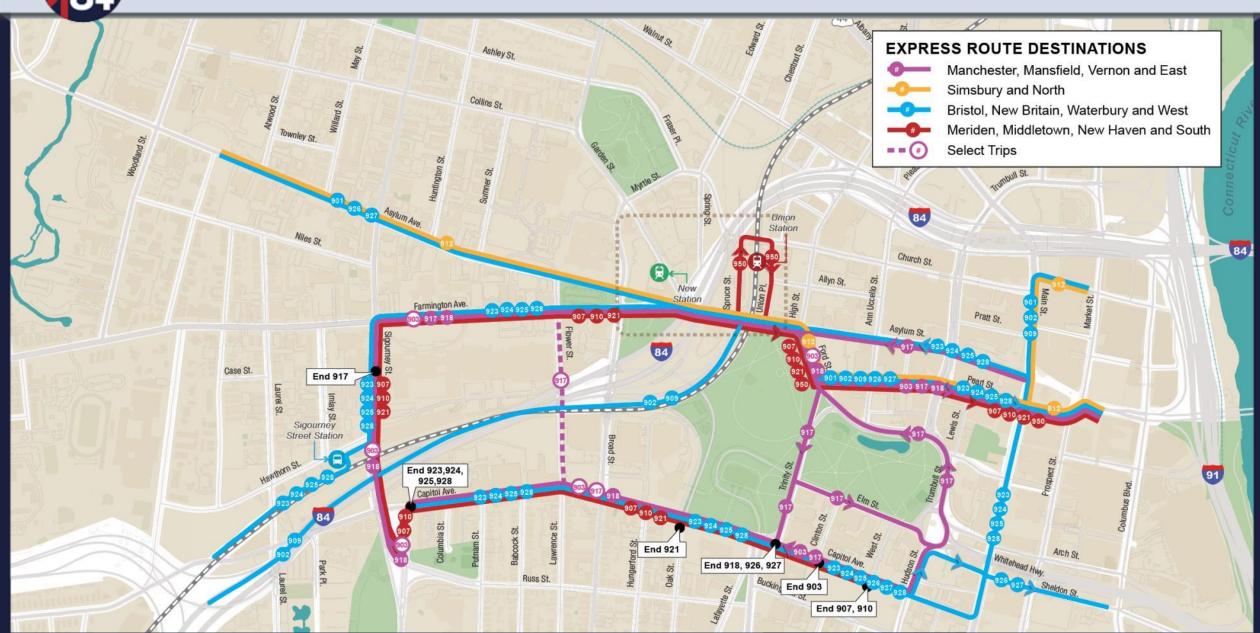


# Programming and Design Considerations

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

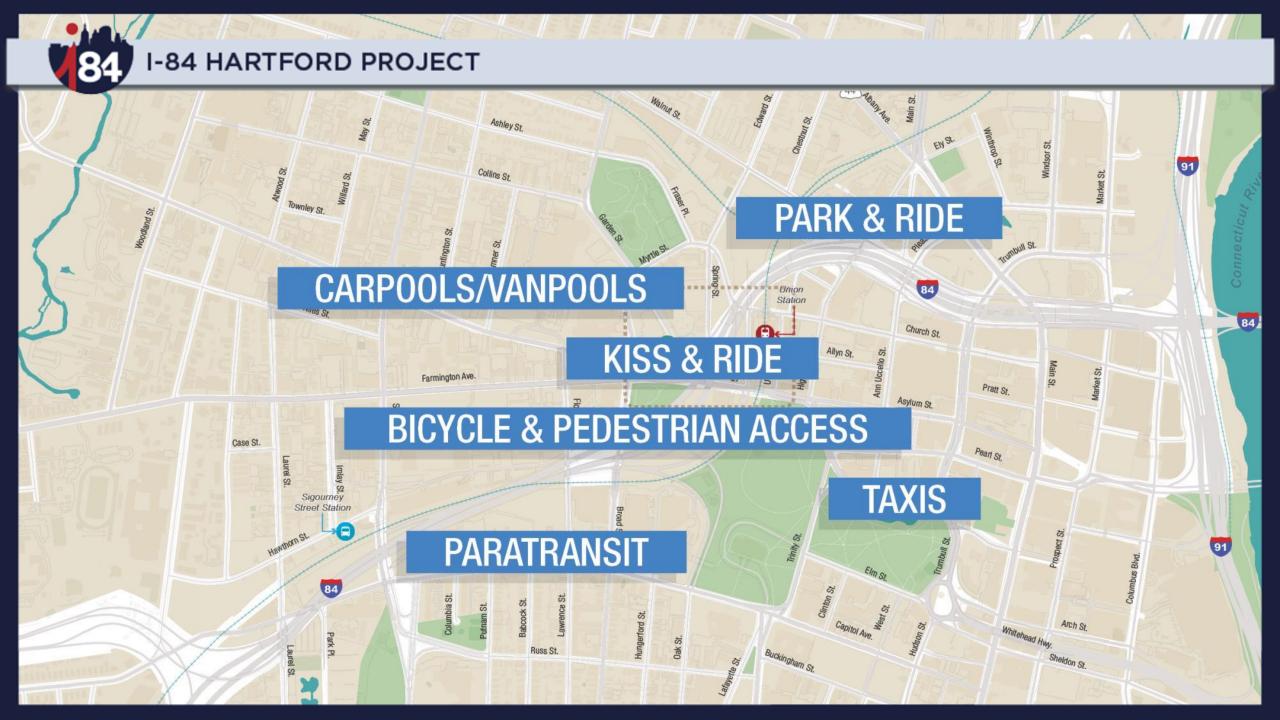






#### I-84 HARTFORD PROJECT Walnut St. SHUTTLE ROUTES Ashley St. EN St. Asylum Hill Columbus Boulevard Collins St. Dash Asylum Ave. 84 Station Niles St. 84 Church St. Allyn St. New Station Farmington Ave. Pratt St. Asylum St. 84 Case St. Lewis St. Sigourney Street Station 91 Capitol Ave. 84 Arch St. Whitehead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



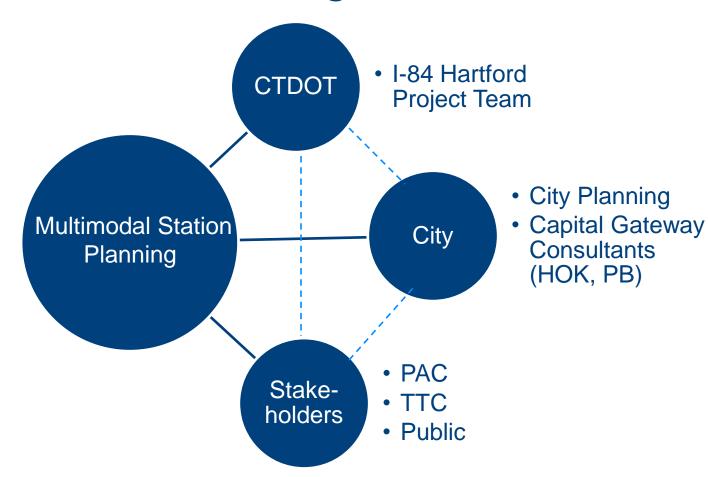
## Public and Stakeholder Involvement

- 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



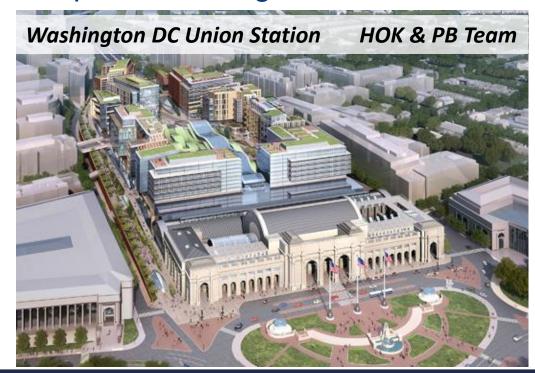


## Multimodal Station Planning



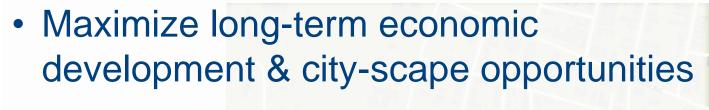
## Capital Gateway Master Plan

- 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

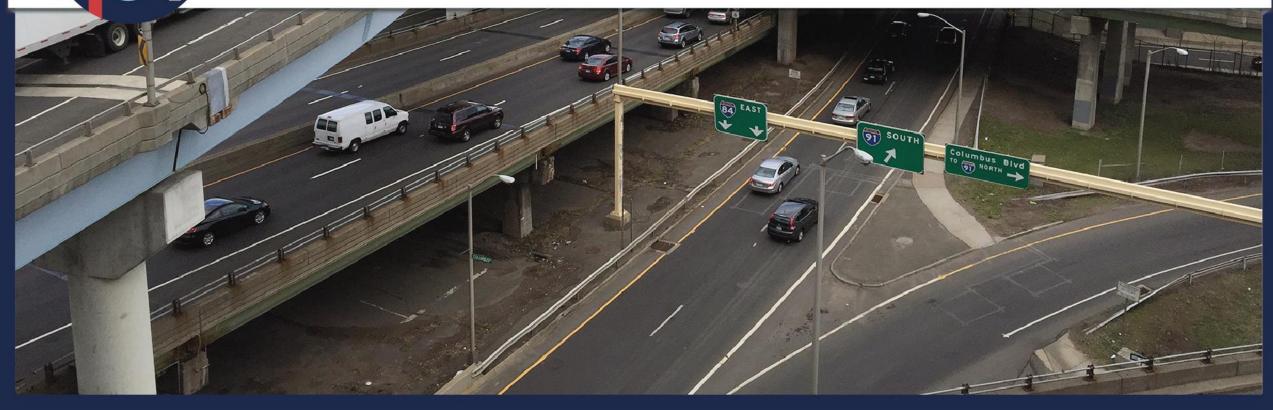
Vision Workshop with TTC-March 1

Programming Meeting with TTC- April

**Public Meeting – April** 

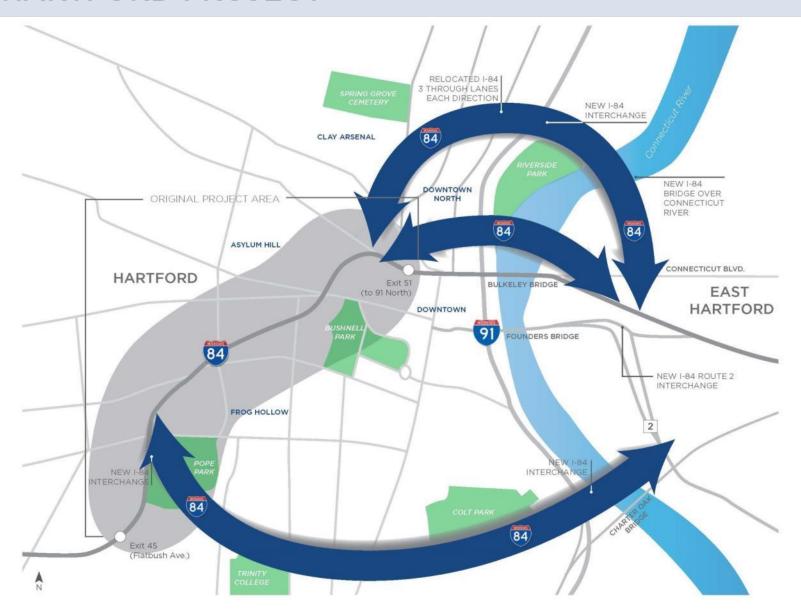


## I-84 / I-91 Interchange Coordination



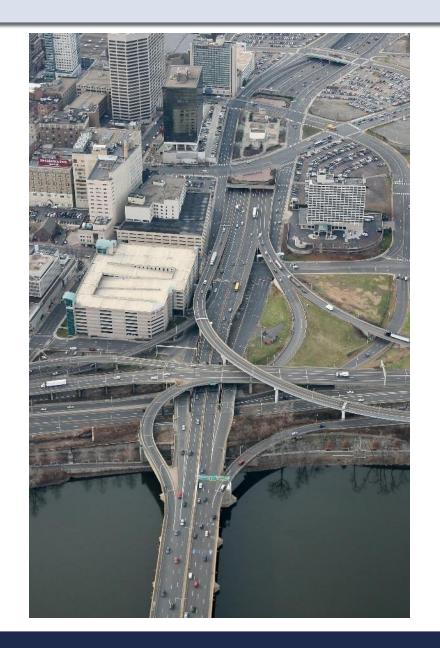


### I-84 HARTFORD PROJECT

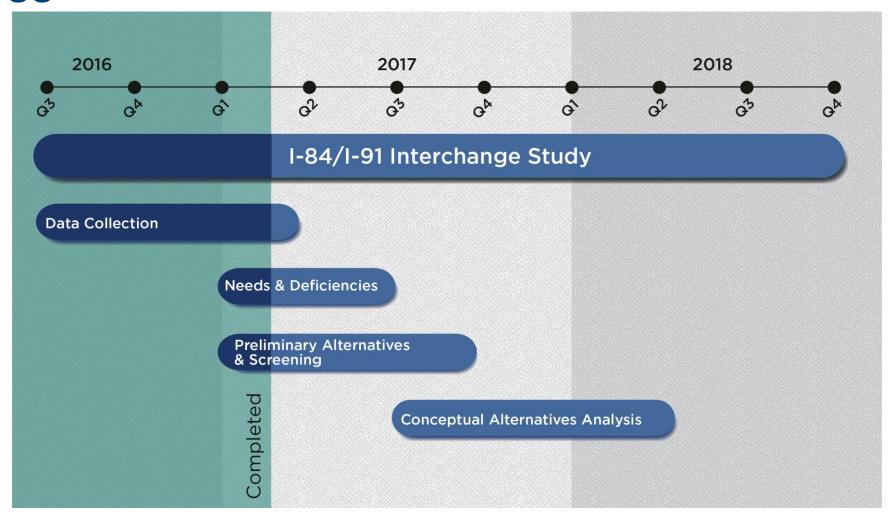


## Process / Schedule

- 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

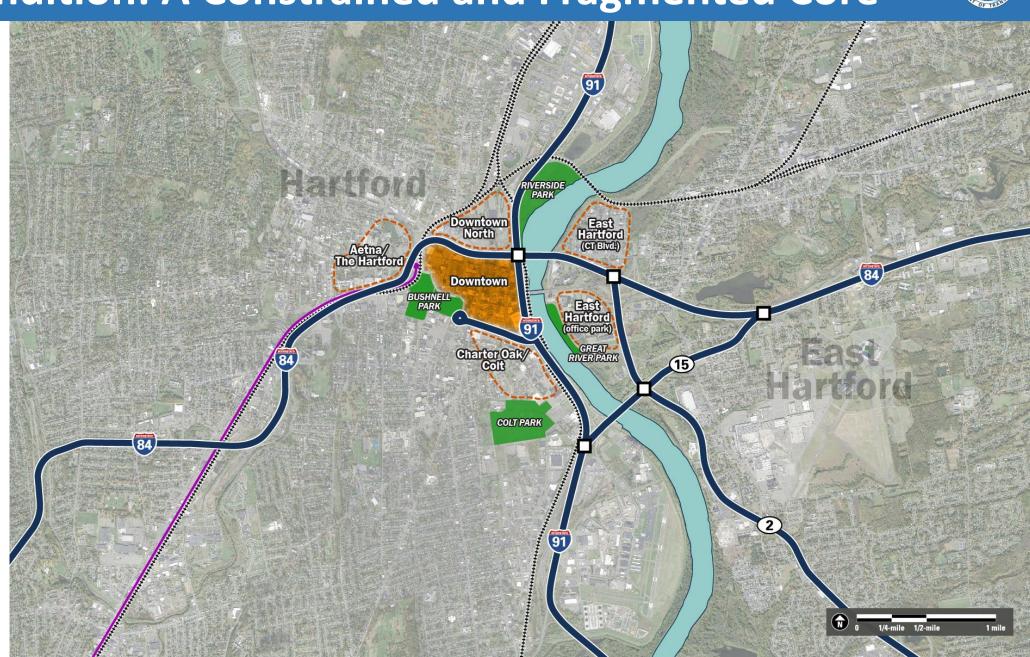
Green space

Downtown core

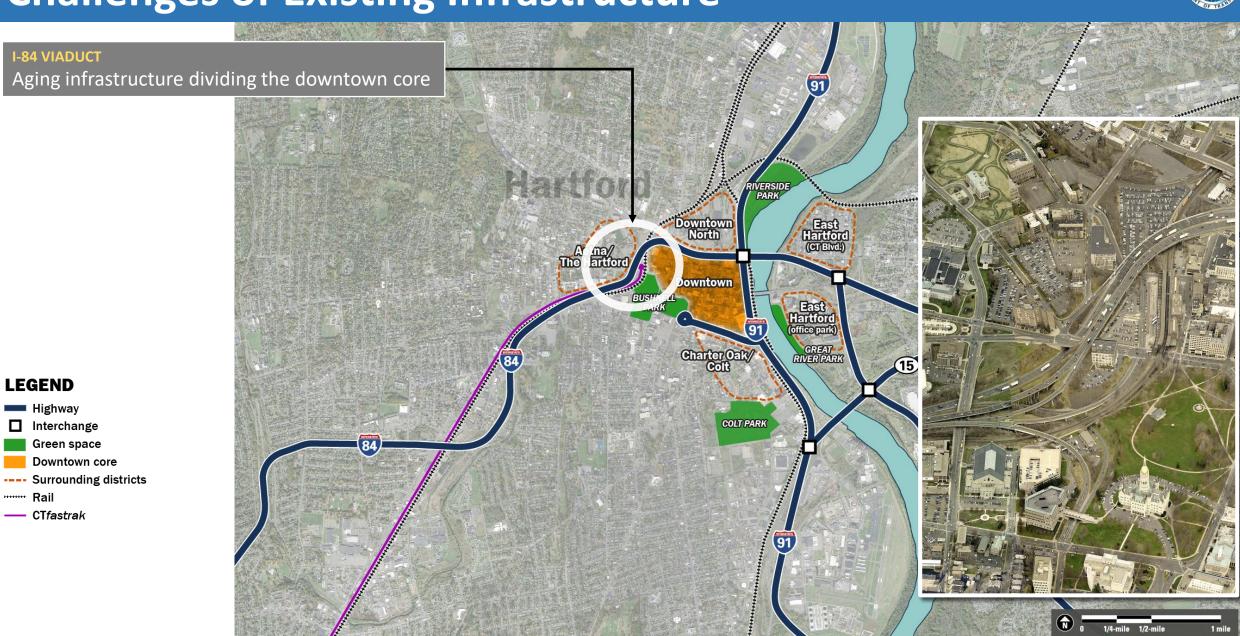
--- Surrounding districts

······ Rail

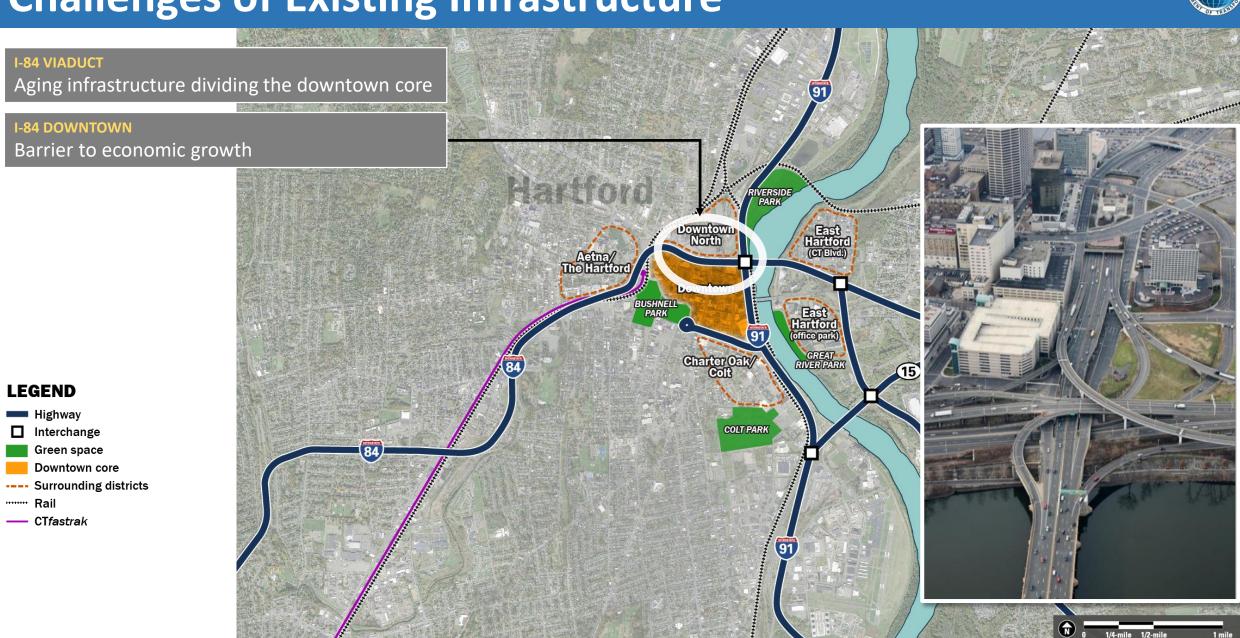
- CTfastrak





















#### I-84 VIADUCT

Aging infrastructure dividing the downtown core

#### I-84 DOWNTOWN

Barrier to economic growth

#### 84/91 INTERCHANGE

Congestion generator at city gateway

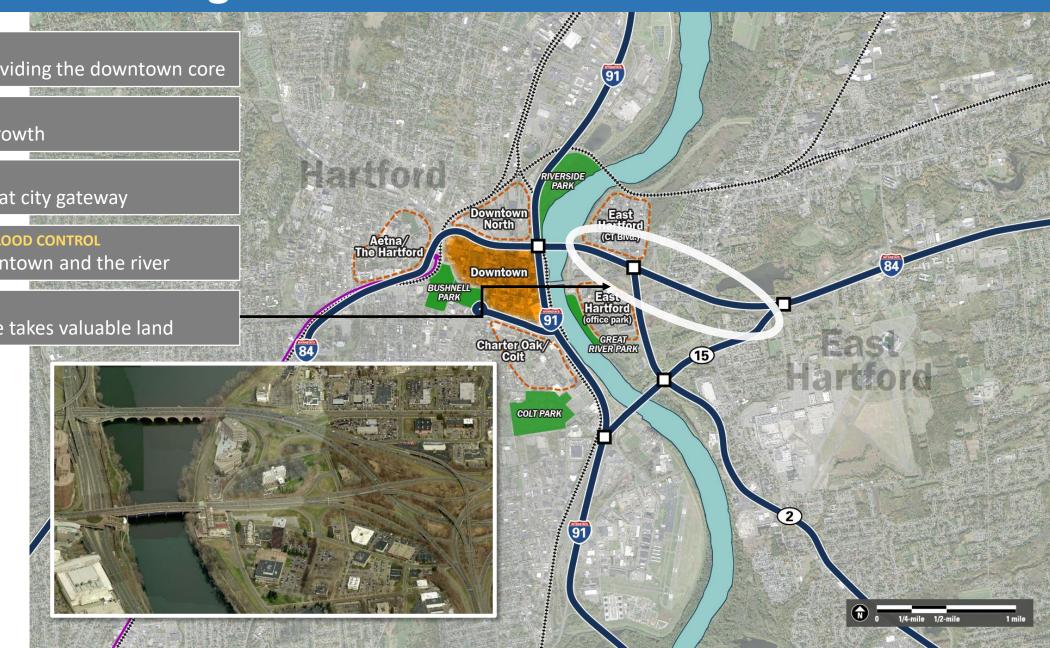
#### I-91, RAIL CORRIDOR, AND FLOOD CONTROL

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**

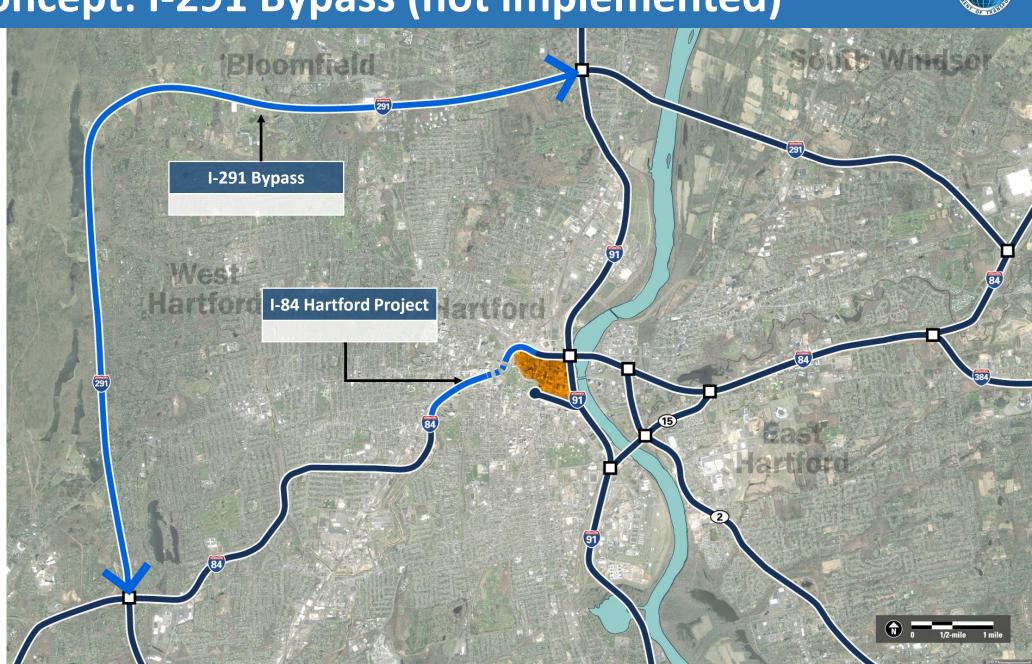
Highway

■ Interchange

Existing highway alignment

Highway realignment

Tunnel/cap



# Highway Scenarios Currently Being Considered

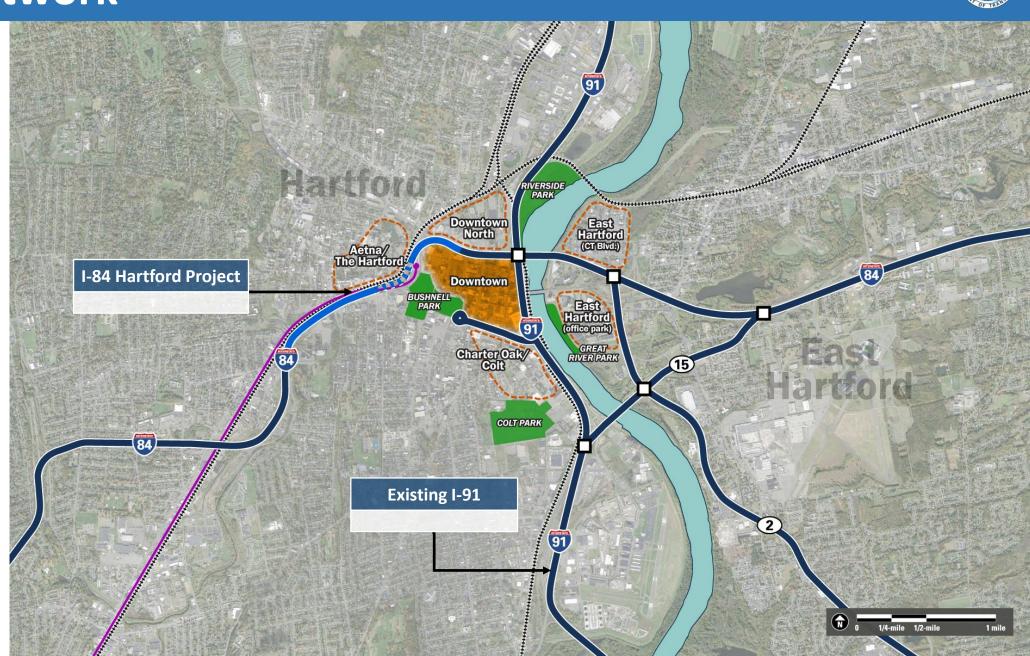
Options for I-84 and I-91

## **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

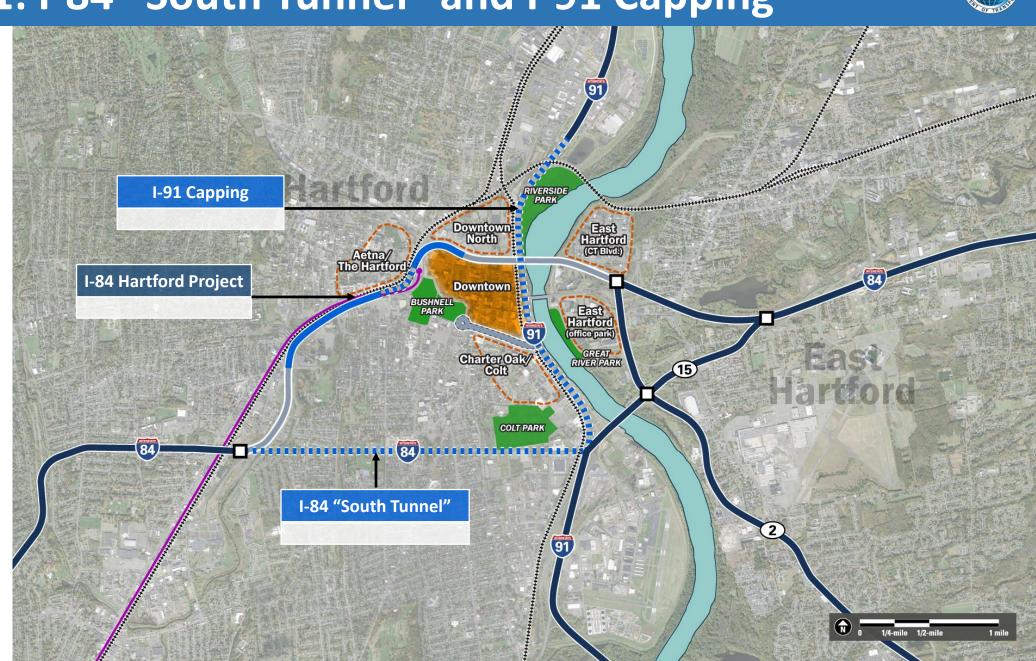


## Scenario #1: I-84 "South Tunnel" and I-91 Capping

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
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- CTfastrak

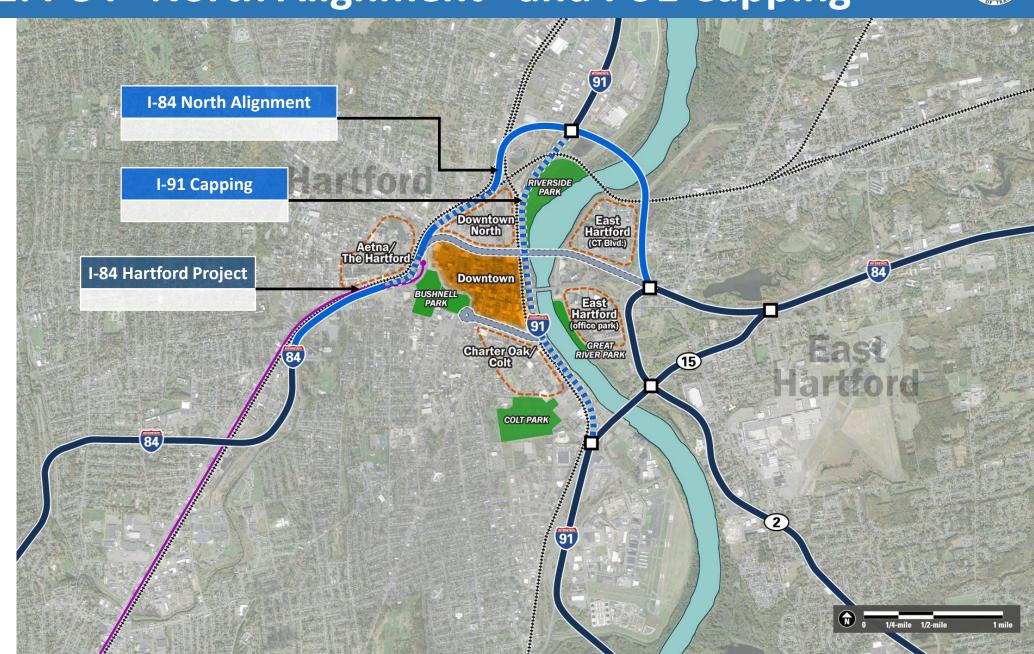


## Scenario #2: I-84 "North Alignment" and I-91 Capping

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
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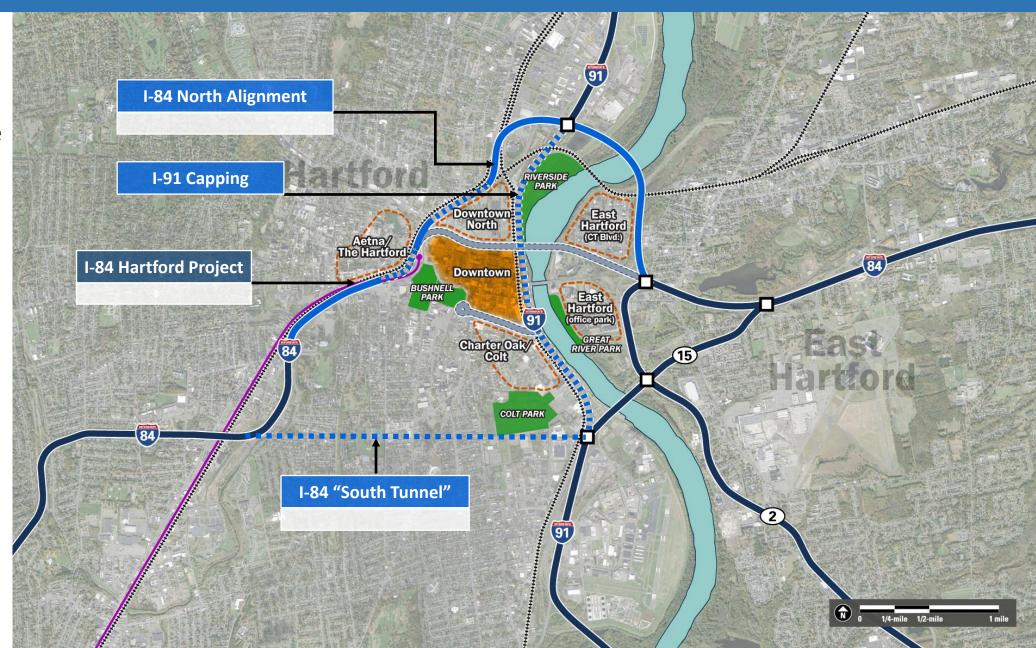


## **Combined scenarios**



- 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
- Tunnel/cap
- Urban arterial
- Green space
- Downtown core
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# Reimagining the Riverfront

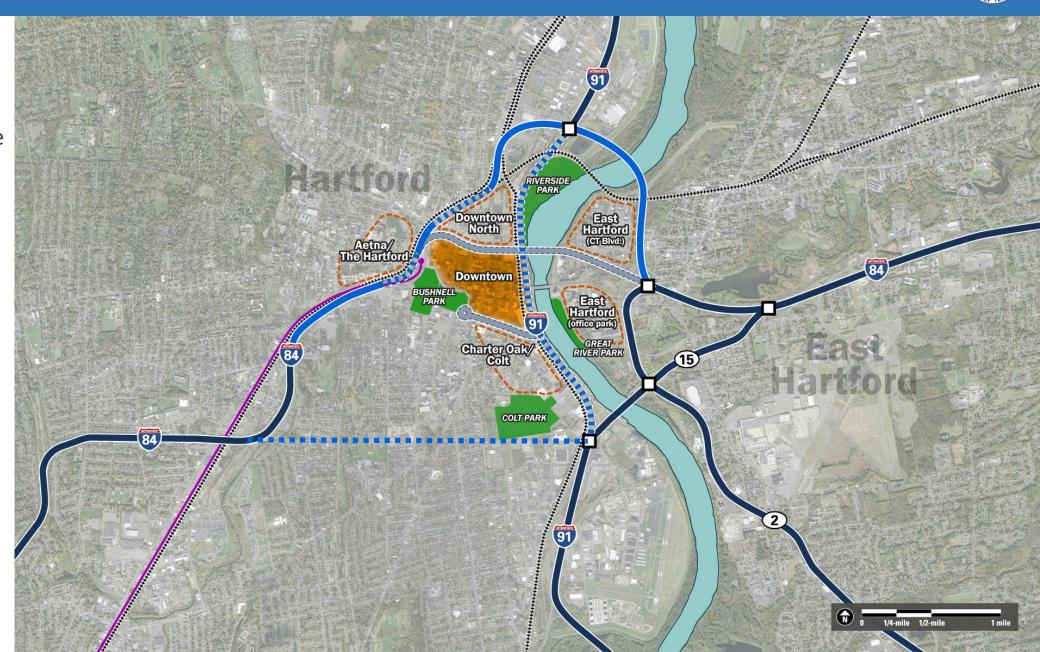
For Hartford and East Hartford

## **Combined scenarios**



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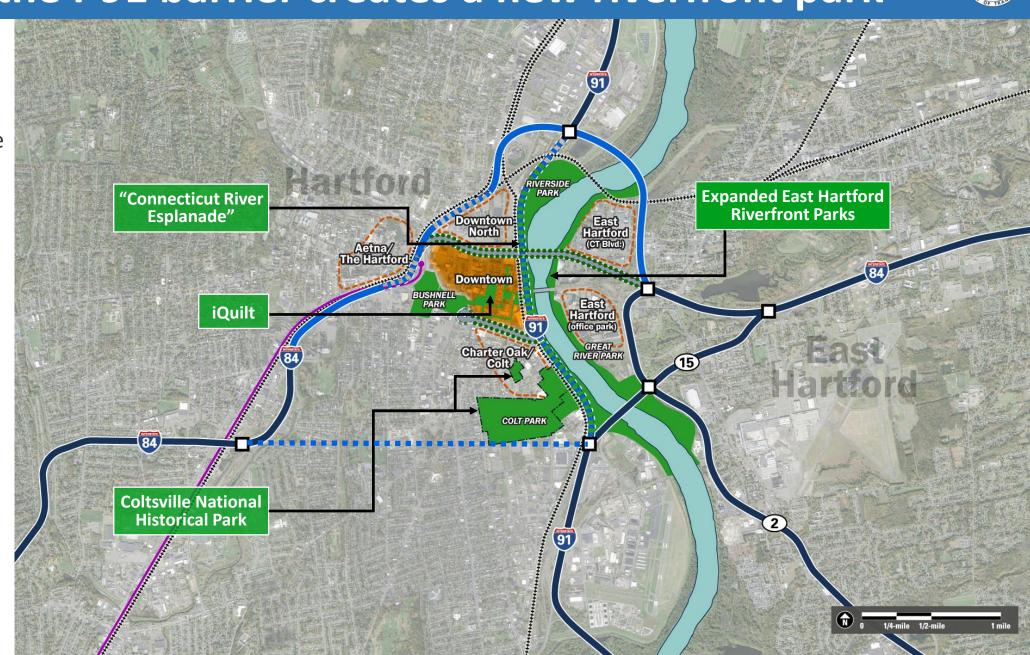


## Removing the I-91 barrier creates a new riverfront park

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
- Green space
- Downtown core
- --- Surrounding districts
- Coltsville National Historic District
- ······ Rail
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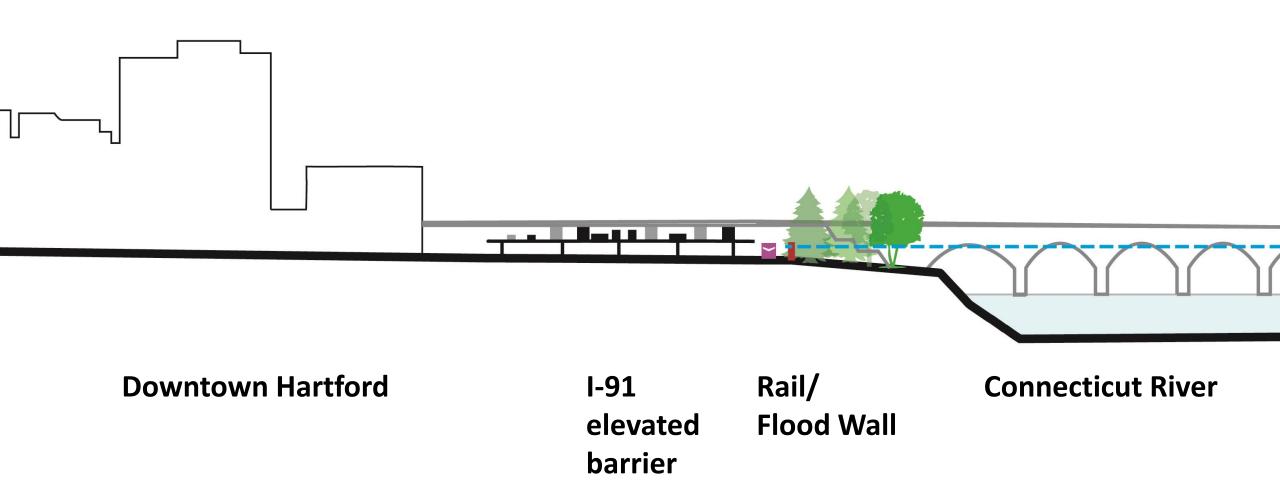






## **Riverfront: Existing**





## **Riverfront: Potential**



**Connecticut River** 



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

# Promoting Economic Development

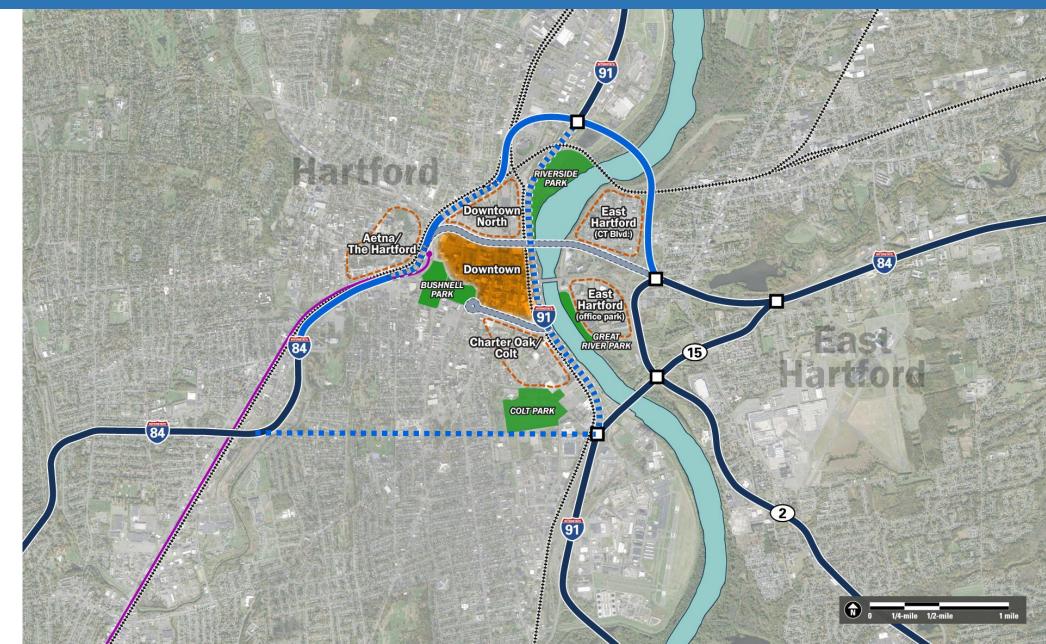
In Hartford and East Hartford

## **Combined scenarios**





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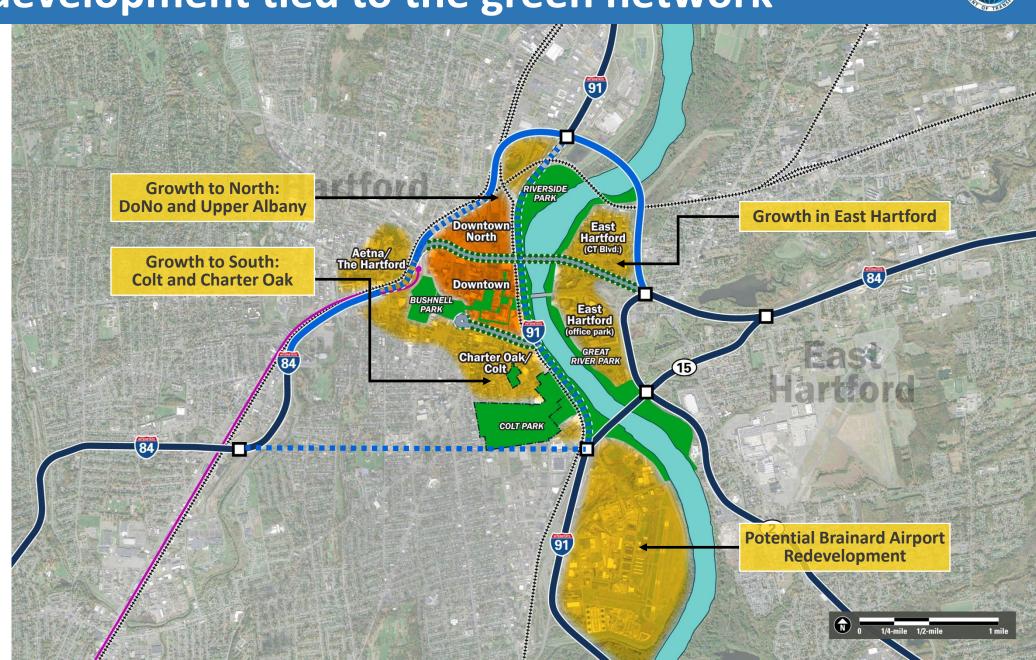


## Economic development tied to the green network

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
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- Green space
- Downtown core
- City growth
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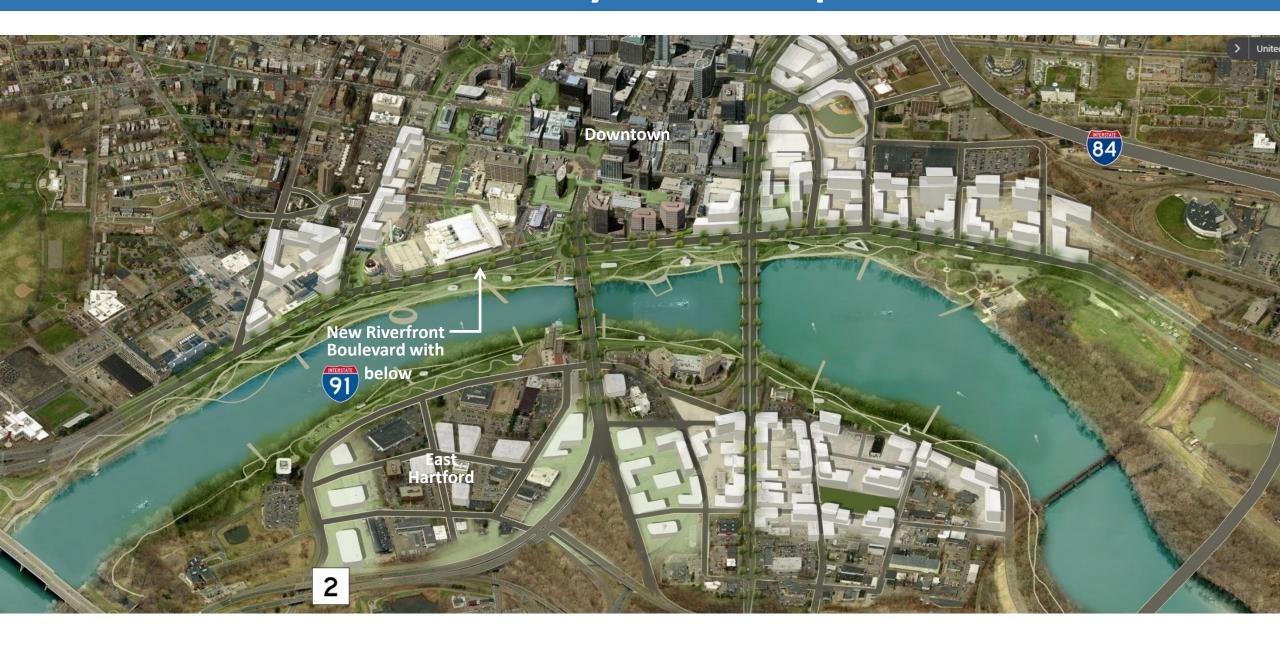


## Existing transportation network limits the city's potential





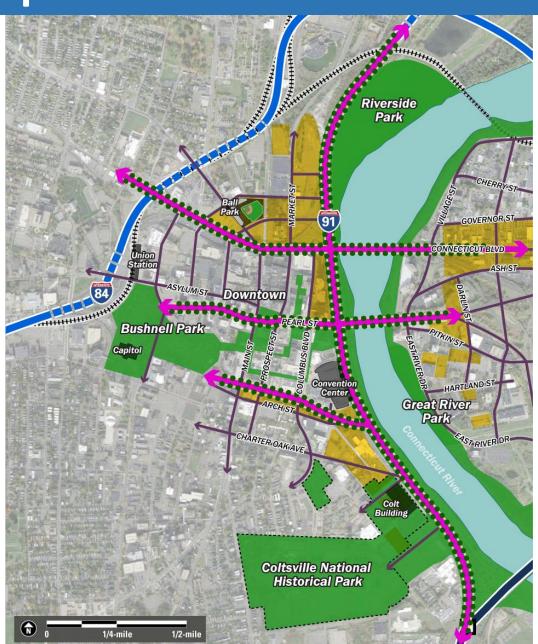
## Transformed riverfront catalyzes development on both sides



### Potential redevelopment sites



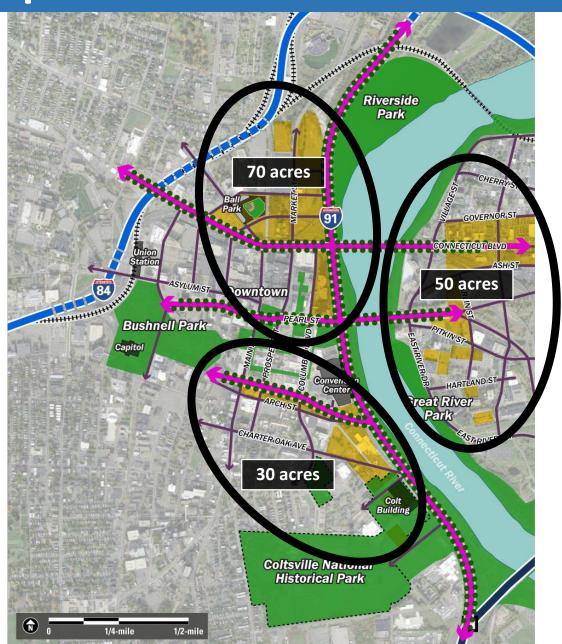
- A high-level analysis of sites shows potential areas for city growth and revitalization
- Other areas may be possible
- Current uses, ownership, market demand and development economics will be critical factors



### Potential redevelopment sites



Approximately 150
 acres of development or
 redevelopment
 potential



## Integrating Public Transit

Making connections east/west and north/south

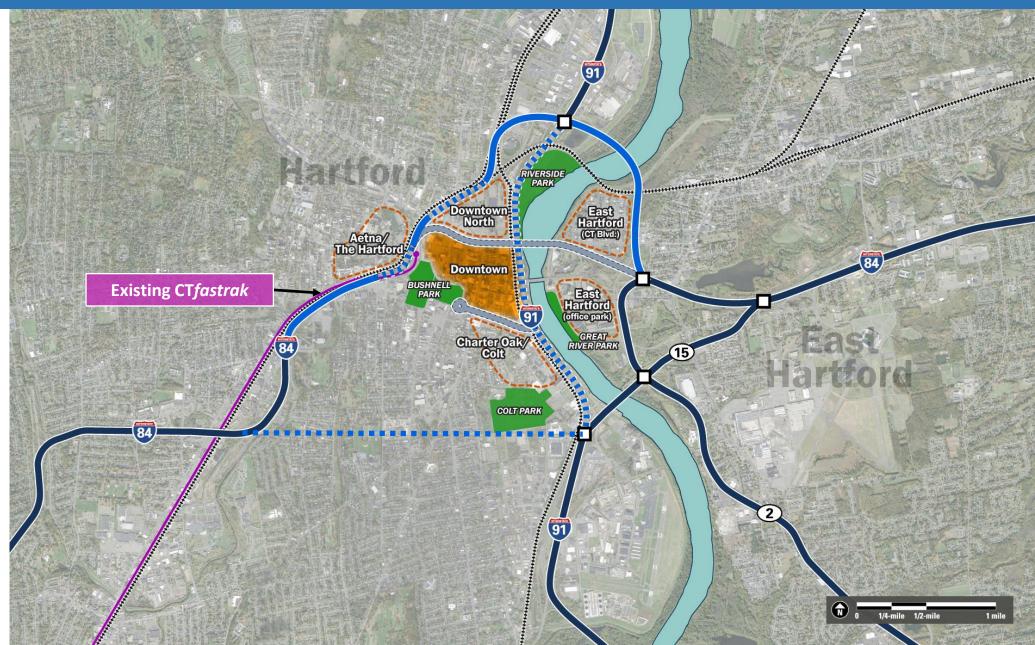
### **Combined scenarios**



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

#### **LEGEND**

- Highway
- Interchange
- Existing highway alignment
- Highway realignment
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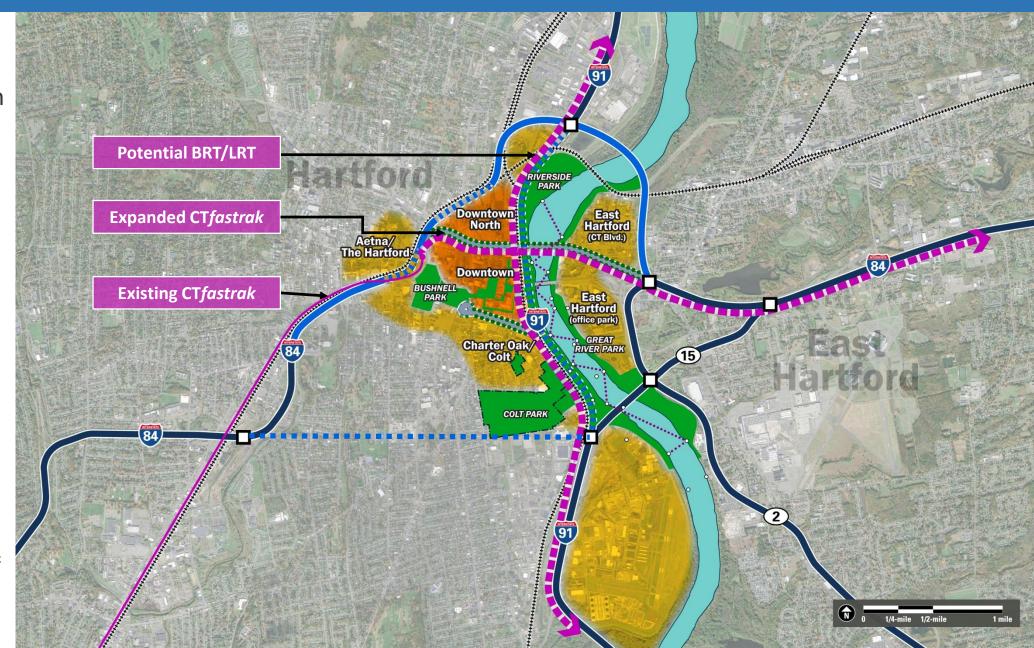
### The public transit network can be further enhanced



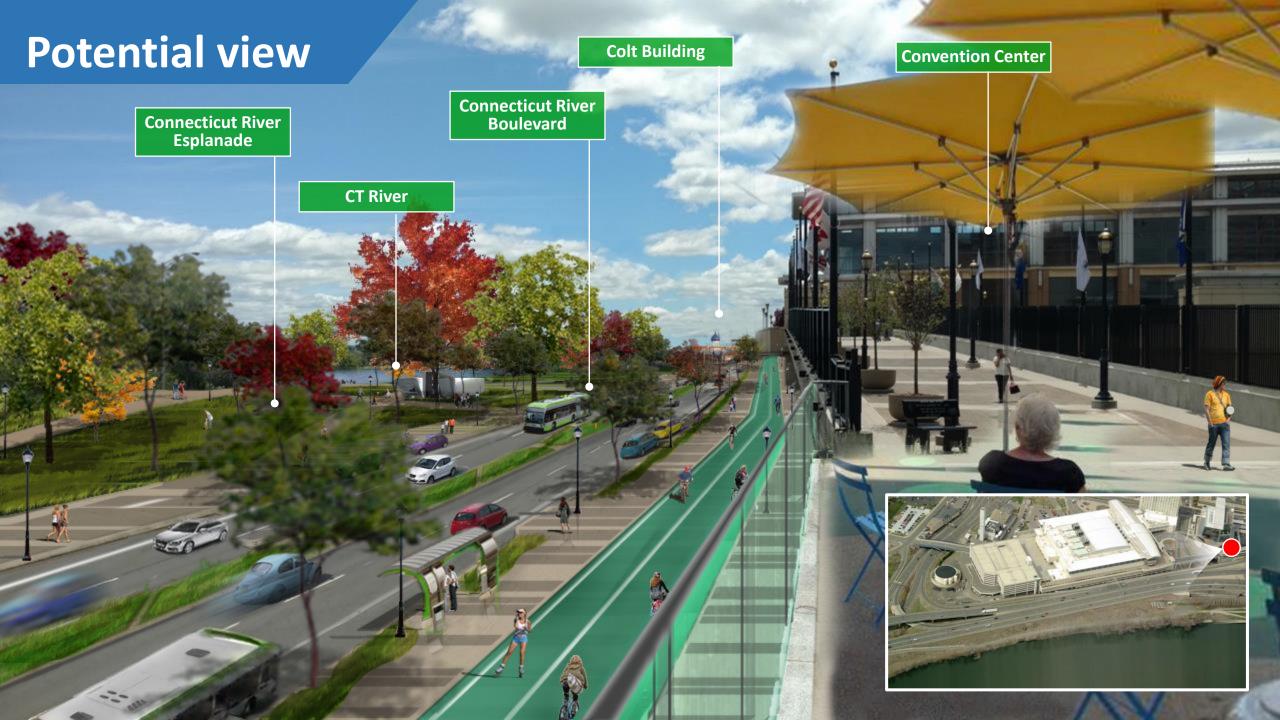
 Enhanced public transit could occur north/south along a new riverfront, tying together key destinations and residential areas

#### **LEGEND**

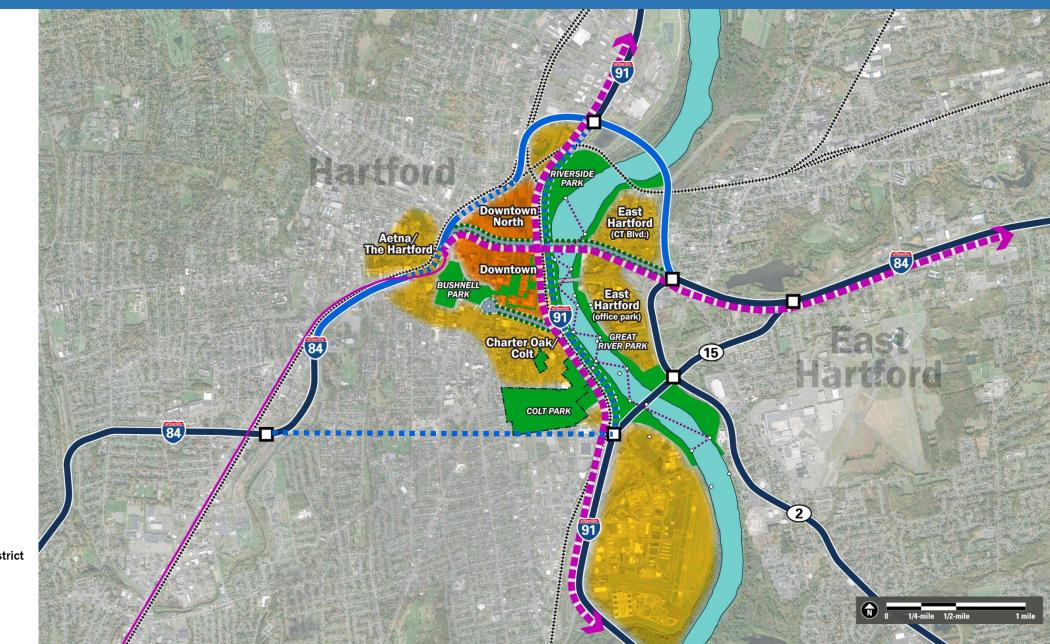
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- CTfastrak
- **Expanded/potential BRT**
- ∘·····∘ Water-based transit





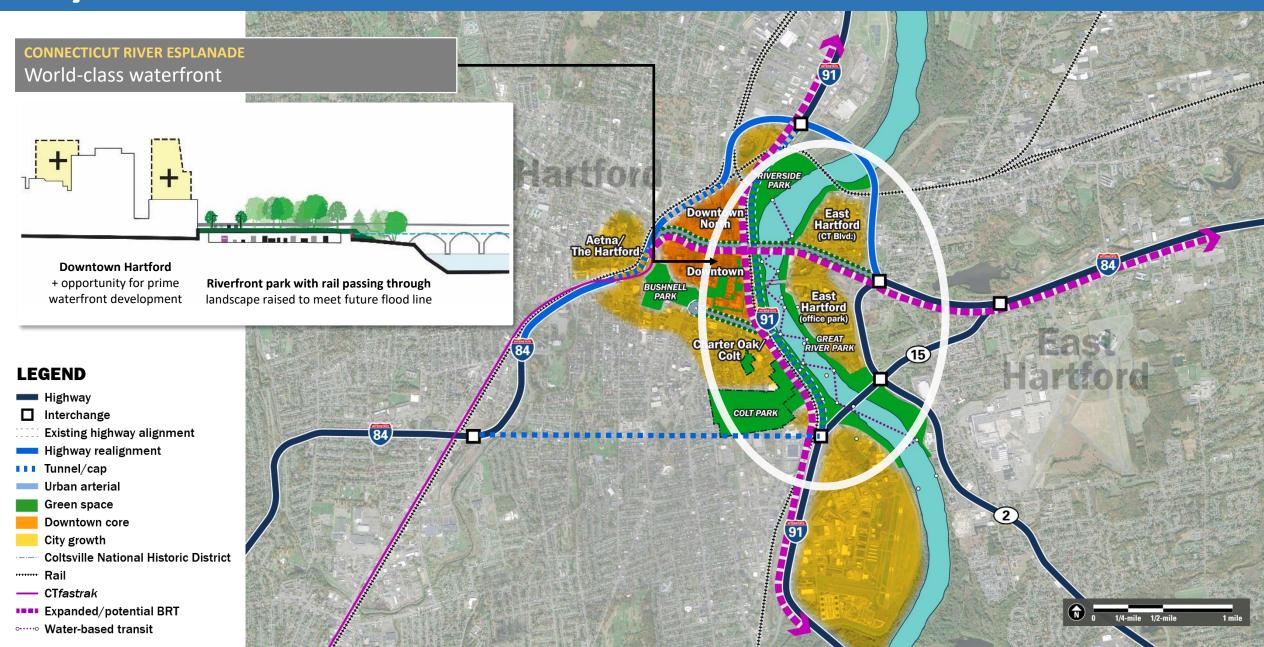


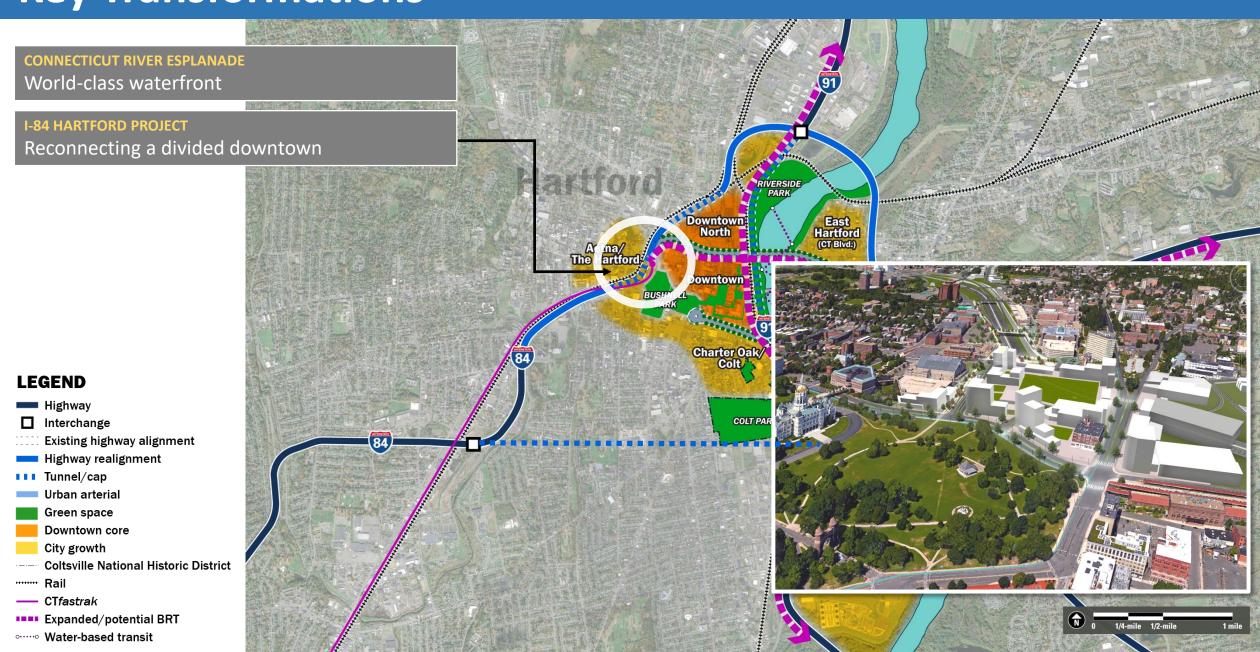
In Hartford and East Hartford

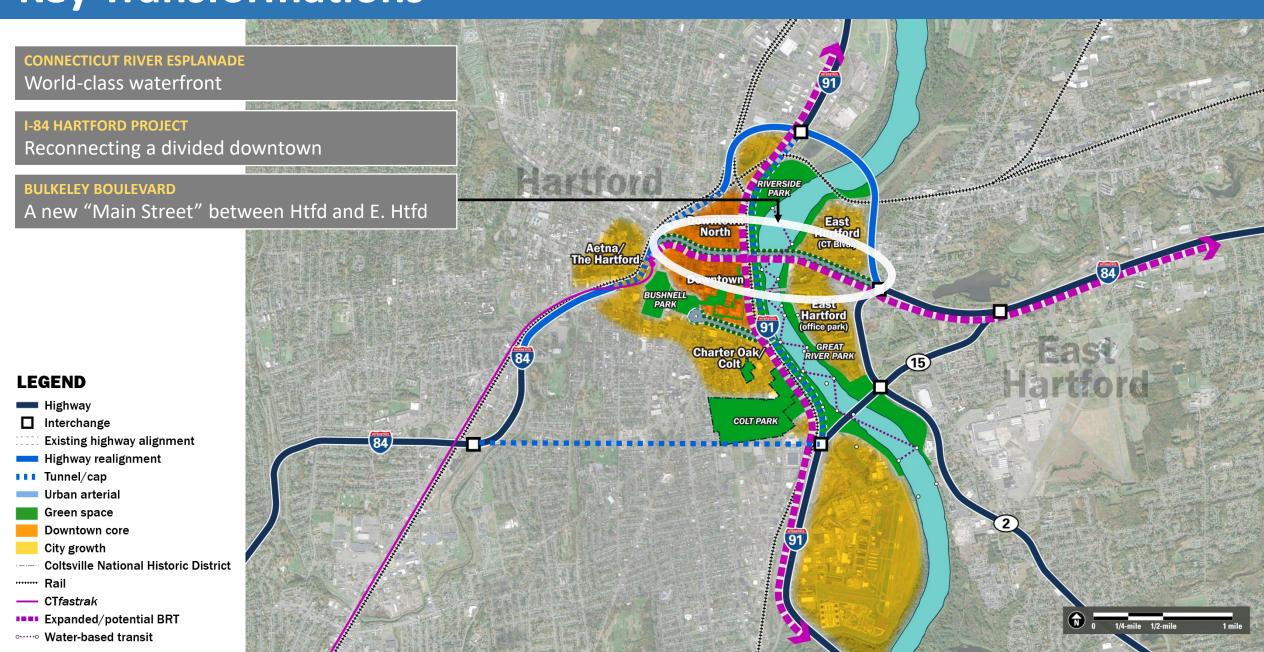


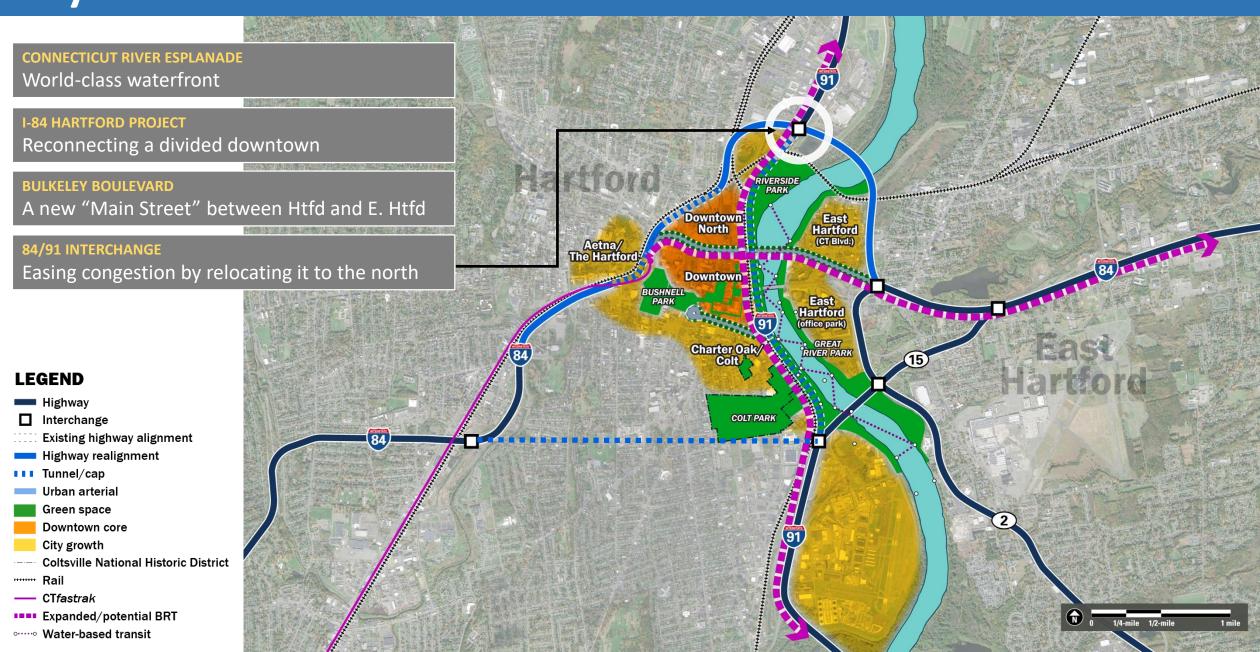
### LEGEND

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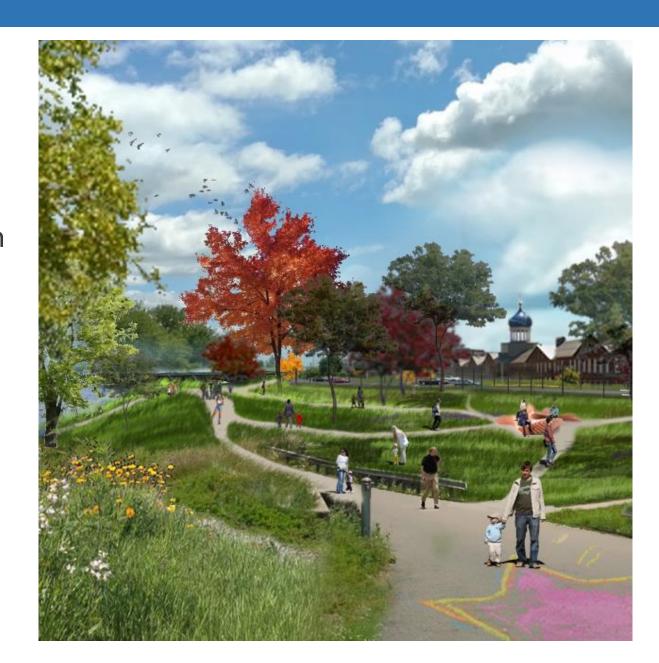






### **Tangible Results for Hartford**

- 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



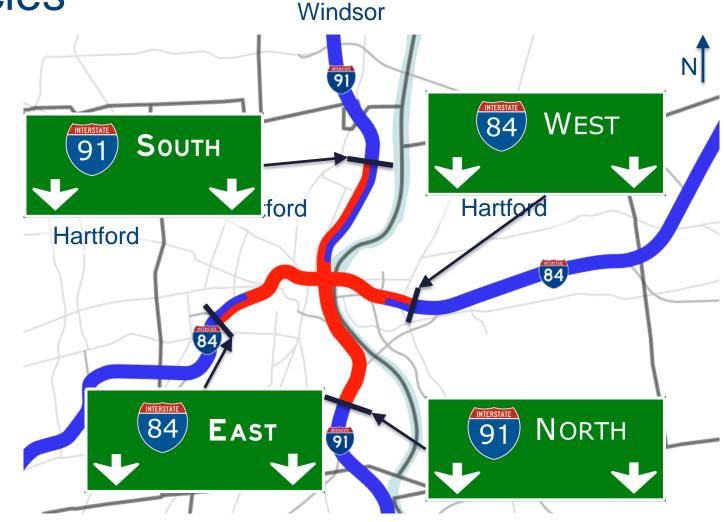
 Poor lane continuity at existing interchange

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

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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