

I-84 HARTFORD PROJECT

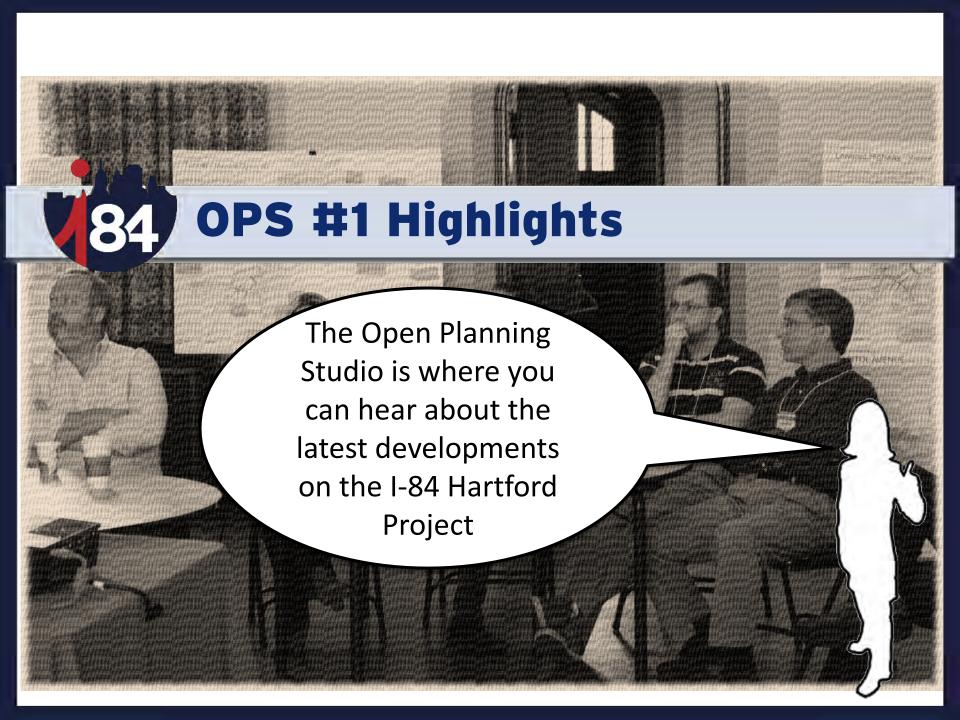
Open Planning Studio Meeting #2

July 29, 2015

Meeting Agenda

- 1. OPS #1 highlights
- 2. Alternatives screening process
- 3. Screening criteria
- 4. Range of alternatives
- 5. Update on tunnel alternative
- 6. Construction considerations
- 7. Next steps

Hello. Please allow me to tell you more about today's event



OPS #1 summary

- Held late April, 2015
- 400 500 attendees
- Social media very active
- Significant news coverage
- Several new concepts developed
- Event well received





Lessons learned

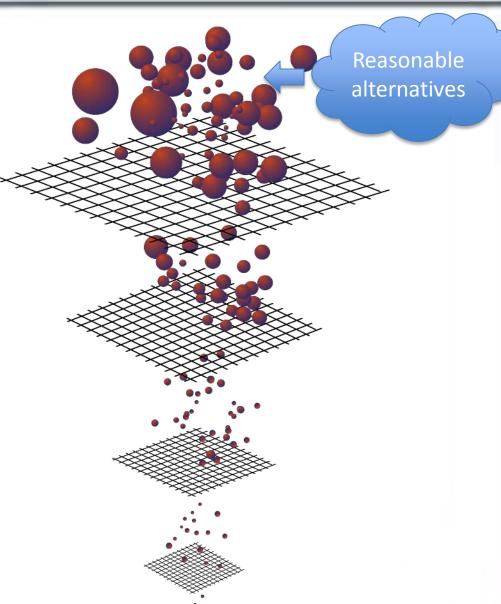
- Aids in communicating project complexity
- Provides direct interaction with public
- Offers many engagement opportunities
- Project team learns more from public



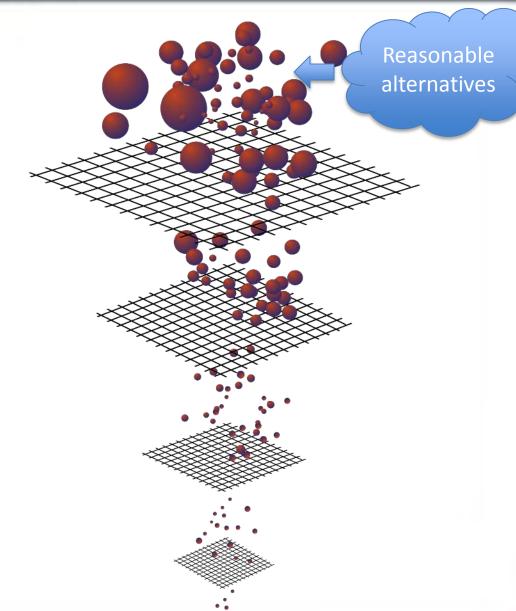




First, we identified a reasonable range of alternatives that fix the aging bridges



After that, we continue to screen for other important criteria





I-84 HARTFORD PROJECT









Screen 1: Bridge structures





Screen 2: Highway safety and congestion



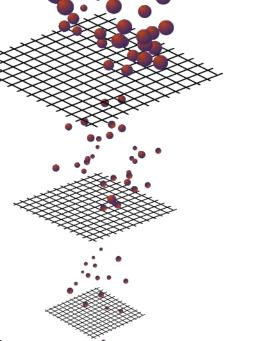


Screen 3: Pedestrian, bicycle and transit mobility





Screen 4: Urban design and economic development





Screen 2: Highway safety and congestion





edestrian, bicycle and transit mobility



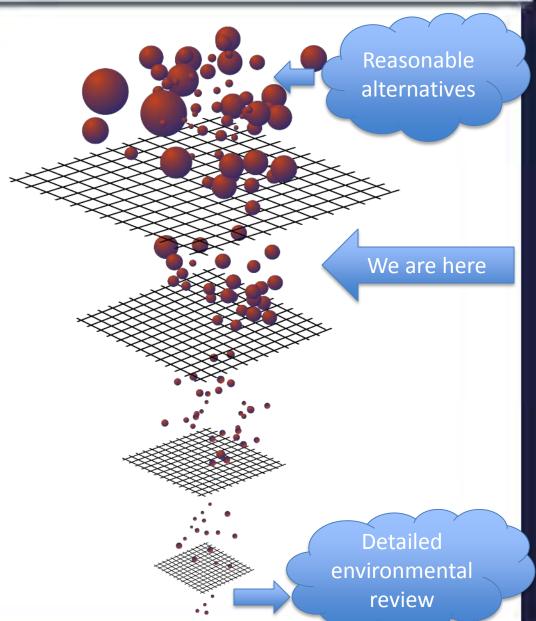


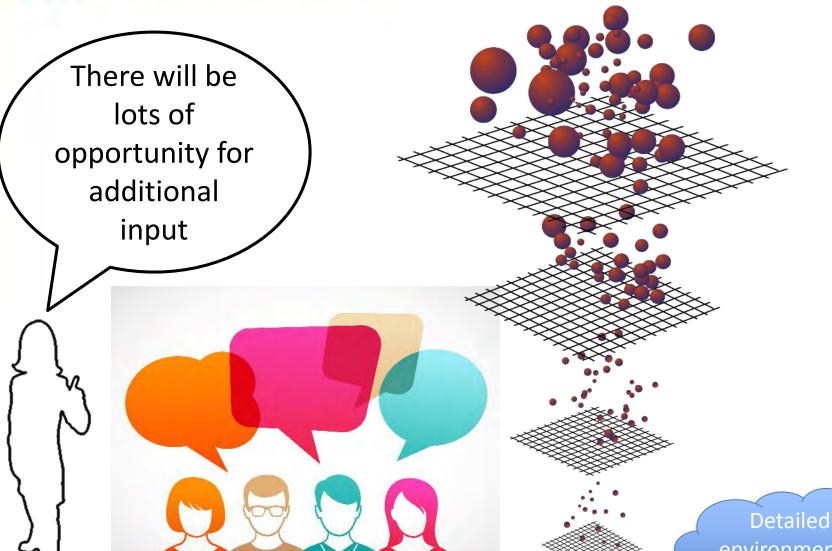
rban design and economic development



Detailed environmental review As of today, we are just beyond the first screen







Detailed environmental review





- Over 100 potential alternatives developed
- Each must satisfy Purpose & Need Statement
 - Bridge deficiencies
 - Safety and operations
 - Mobility

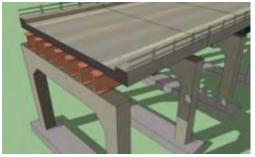




Bridge deficiencies

Bridge Conditions: Fair to Poor in general

- Many bridges reaching end of intended lifespan
- CTDOT spent over \$60M on repairs since 2004
- An additional \$60M will be spent over next 5 years
- Bridges are safe, but deterioration will continue

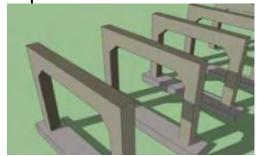


Deck





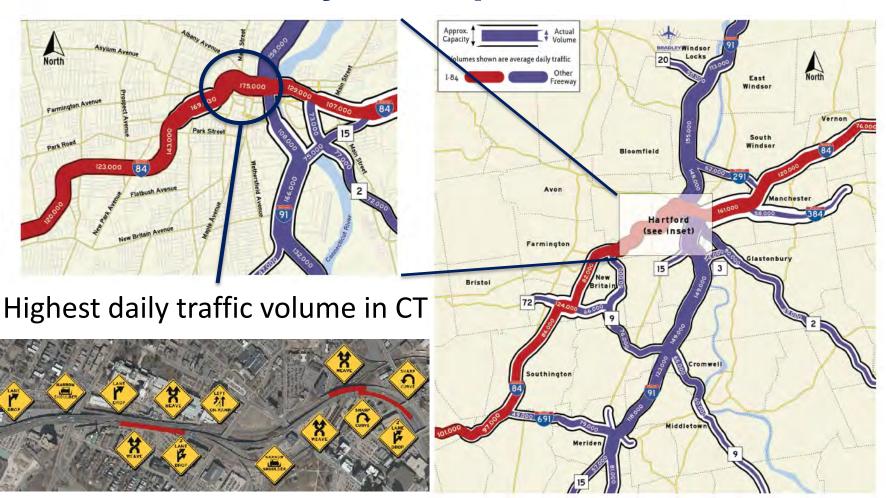
Super Structure



Sub Structure



Safety and operations

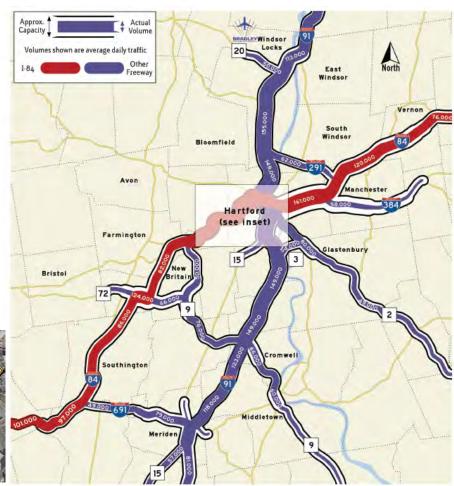


Safety and operations



High accident segments





Mobility: Moving People and Goods

- Car and truck movement
- Transit integration
- Pedestrian and bicyclist accommodation
- Parking supply and management





Mobility: A balanced approach

We need to do both well for project success







Mainline alternatives (vertical):

No Build (as is)

Green

Alt 2 (elevated)

Blue

Alt 3 (lowered)

Yellow

Alt 4 (tunnel)

Exit 46 EB On-Ramp

Exit 46 WB Off-Ramp

Brown

Sigourney Street

The number of each alternative relates to its vertical profile elevation

Broad Street

Asylum Street

igh Street

Ann Uccello S

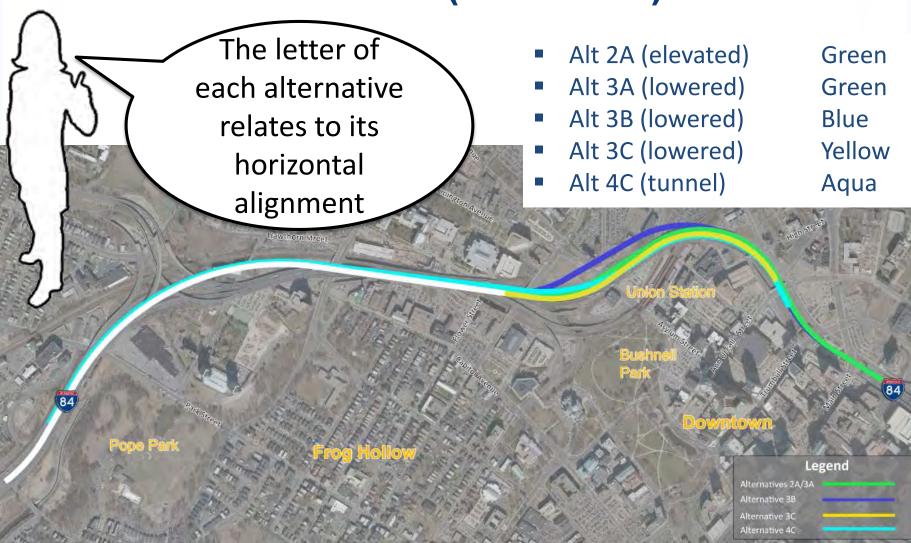
Park Street

North Branch of Park River Conduit

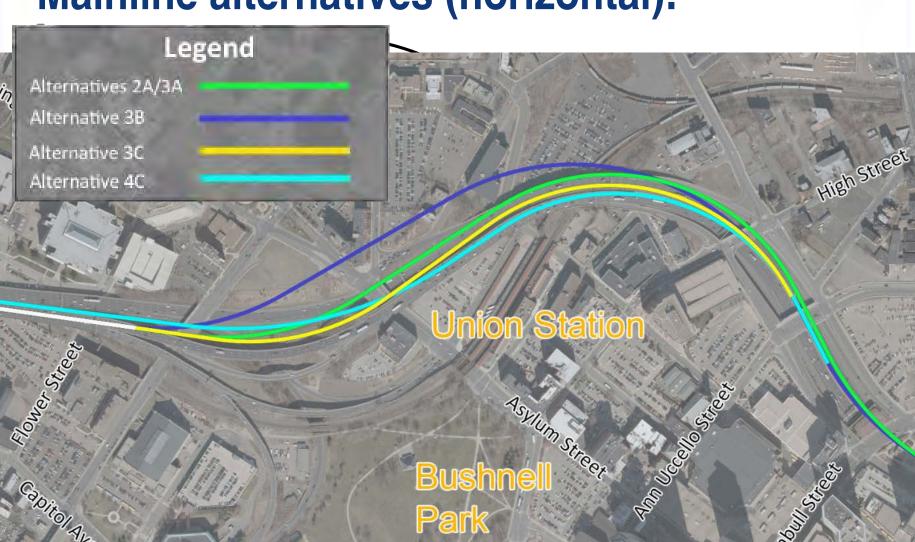
Park River Conduit

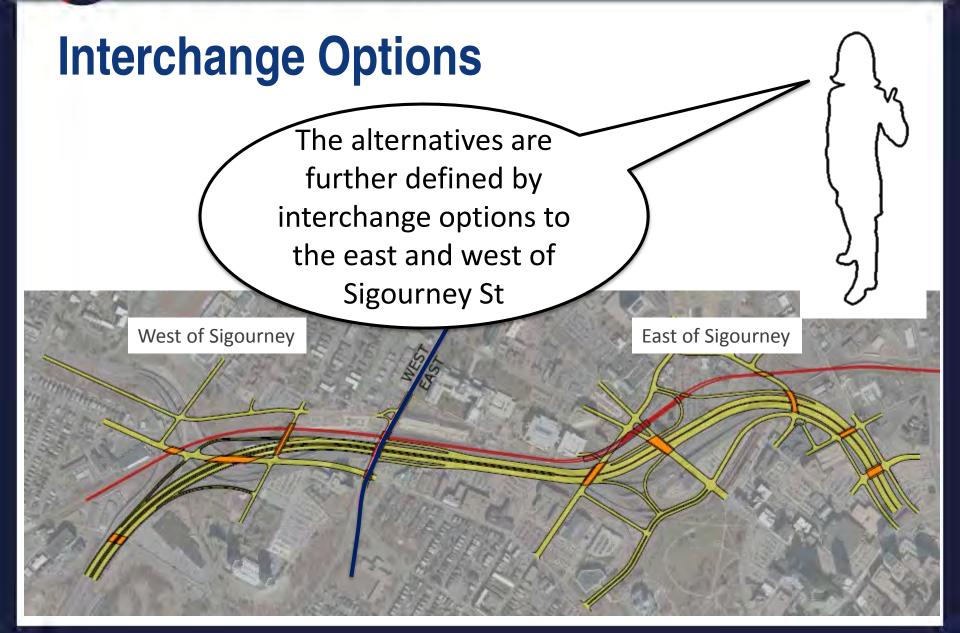
Gully Brook Conduit

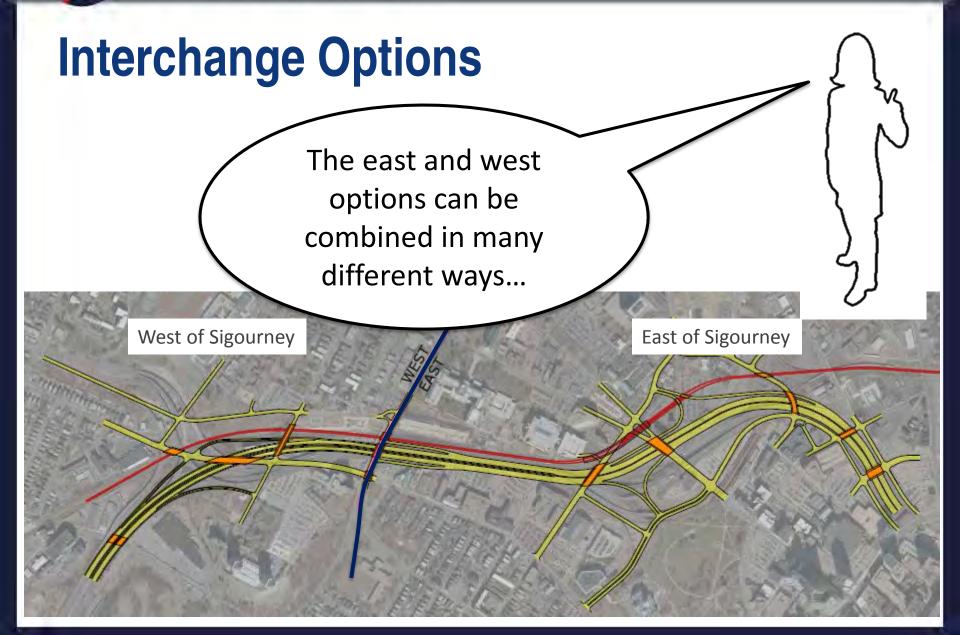
Mainline alternatives (horizontal):



Mainline alternatives (horizontal):





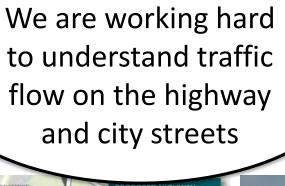


Interchange Options

Alternative	Options west of Sigourney	Options east of Sigourney
2A (elevated)	8	3
3A, 3B, 3C (lowere	ed) 8	11
4 (tunnel)	1	1



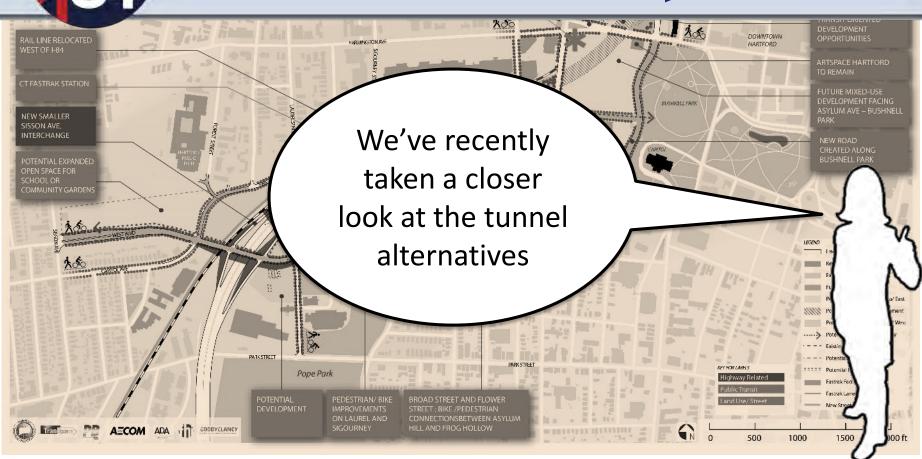
Traffic analysis ongoing



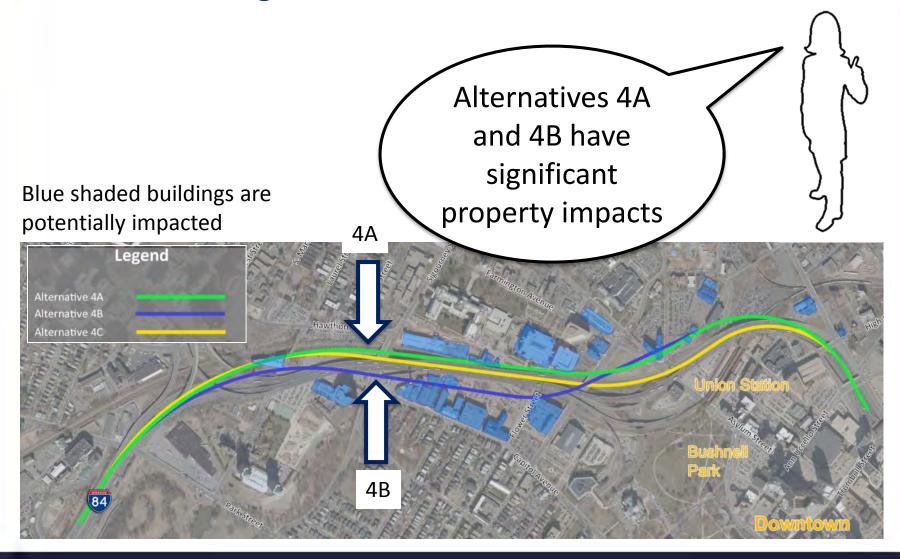




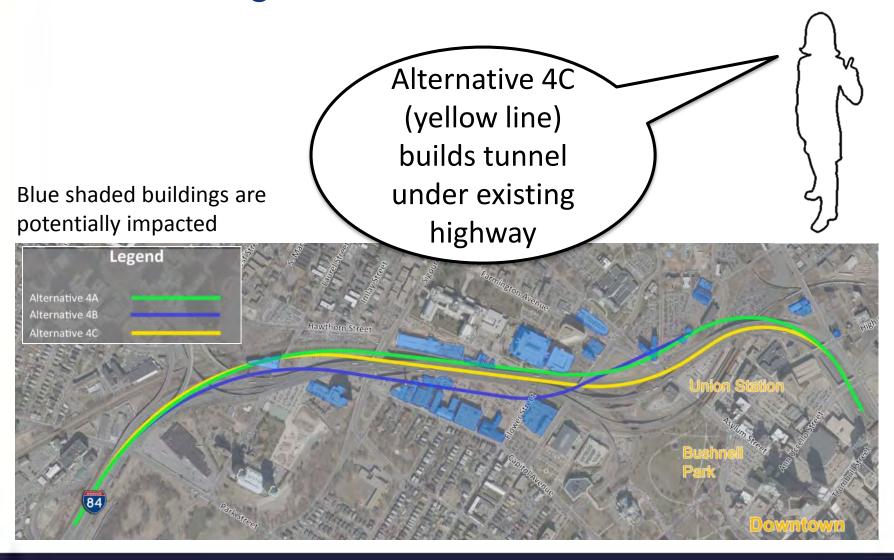


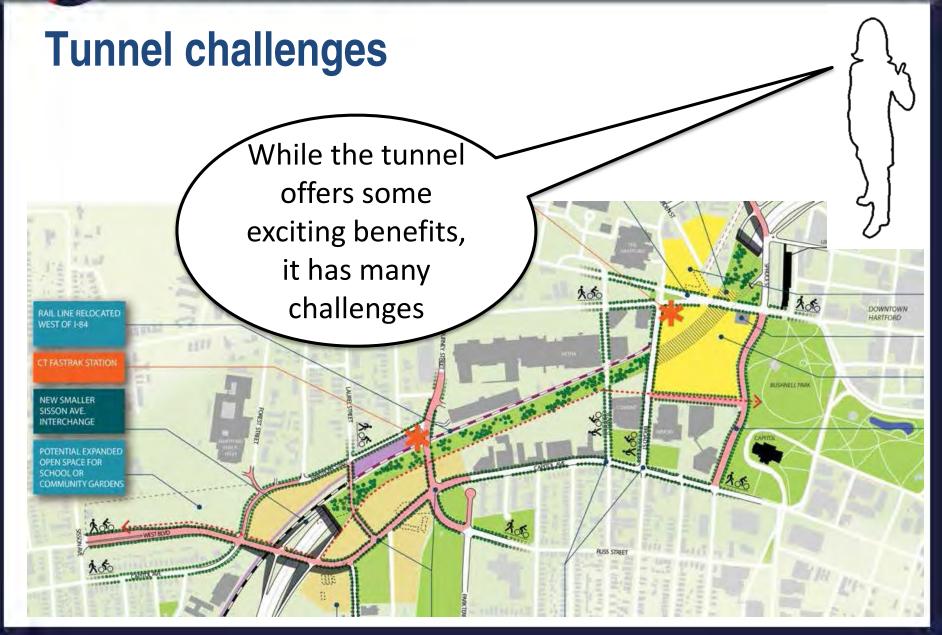


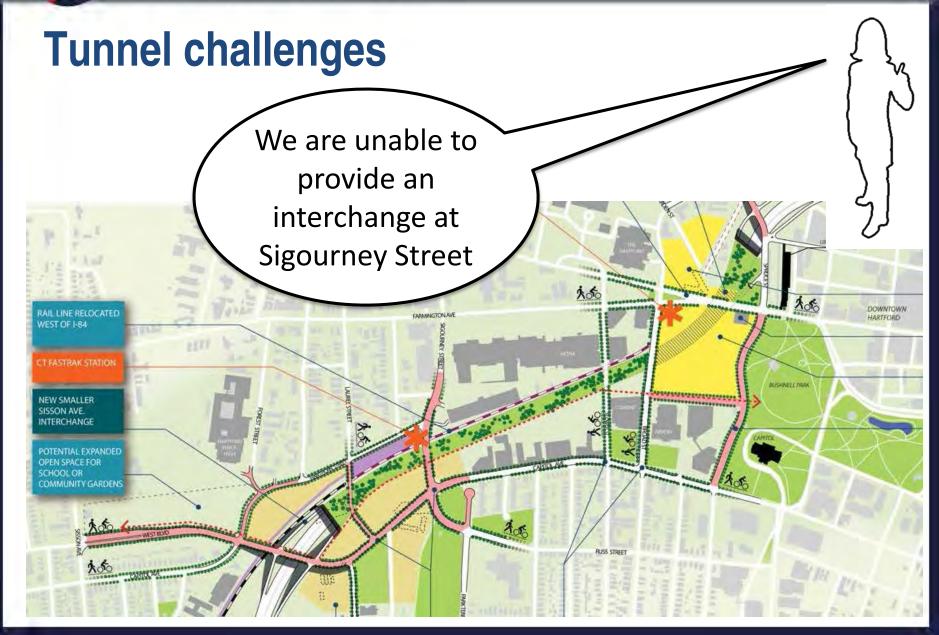
3 Tunnel Alignments Considered

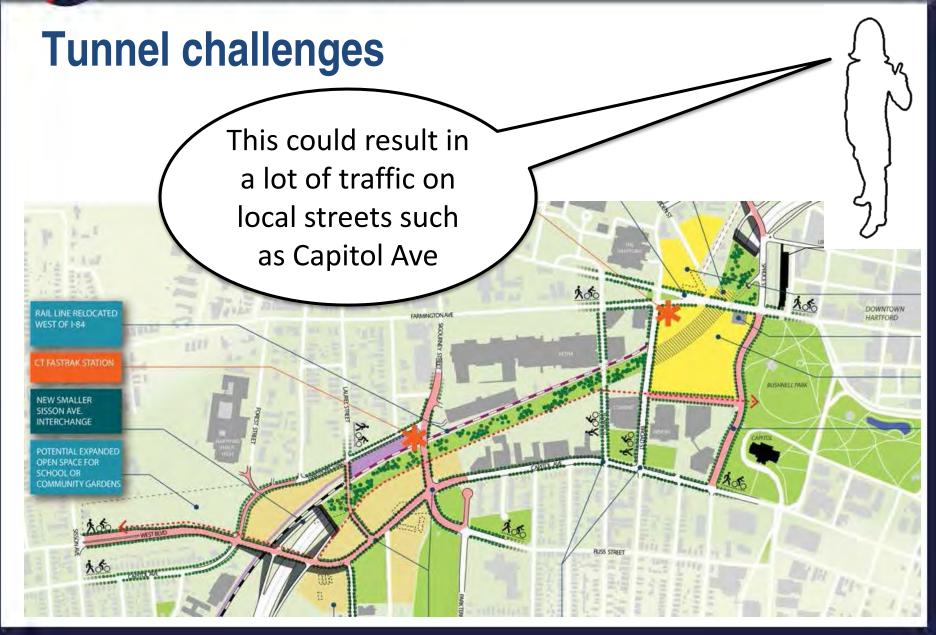


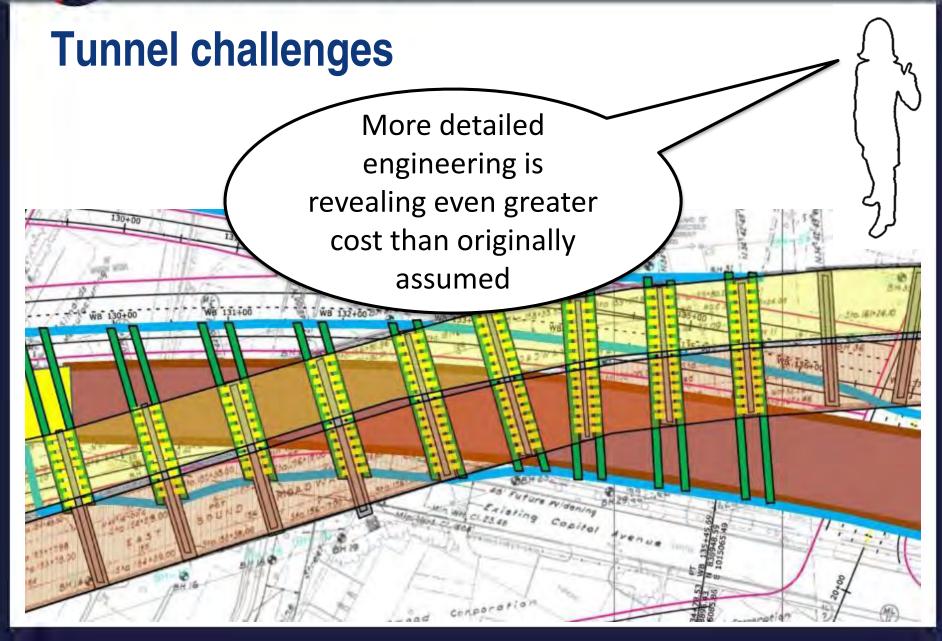
3 Tunnel Alignments Considered











Tunnel challenges

Temporary structures would need to be built to support existing highway during tunnel construction







Construction Considerations



Building 'on-top' of the existing highway alignment is more difficult than building off alignment





Alternative 3B, for example, could be partially built to the north of the existing alignment







Alternative 3C however, gets built directly in the existing I-84 footprint





Conventional Construction

Conventional construction methods maintain traffic but typically takes a long time





Conventional Construction

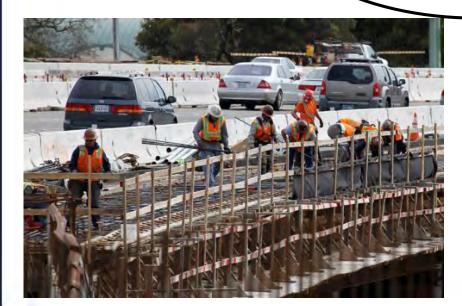
Bridges are usually constructed on-site





Conventional Construction

Often, temporary construction is needed which increases overall cost





Accelerated Construction

Accelerated construction methods limit traffic flow to achieve shorter construction duration

Example: I-84 Southington, CT





Accelerated Construction

Often, bridges can be constructed offsite and transported when they're ready

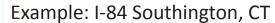
Example: I-84 Southington, CT





Accelerated Construction

Temporary construction is minimized which could save time and money







So how might we manage traffic to expedite construction?





We might consider closing sections of I-84 or some of the travel lanes





This could minimize property impacts and require less temporary construction





We would also want to maximize use of transit options, such as CTfastrak, commuter rail, and local bus





There are many other ways to manage demand in and out of Hartford, especially during the peak hours









What's next



More meetings scheduled...

- OPS in August and September, November and December will continue to
- Public meetings in Personal test how well each
- Local pop-up éverits allits ummer long perspective



More meetings scheduled...

We hope you continue to participate in the I-84 Hartford Project by attending these informative events!

Thank You!

Thank you for your time. We deeply appreciate your time and 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