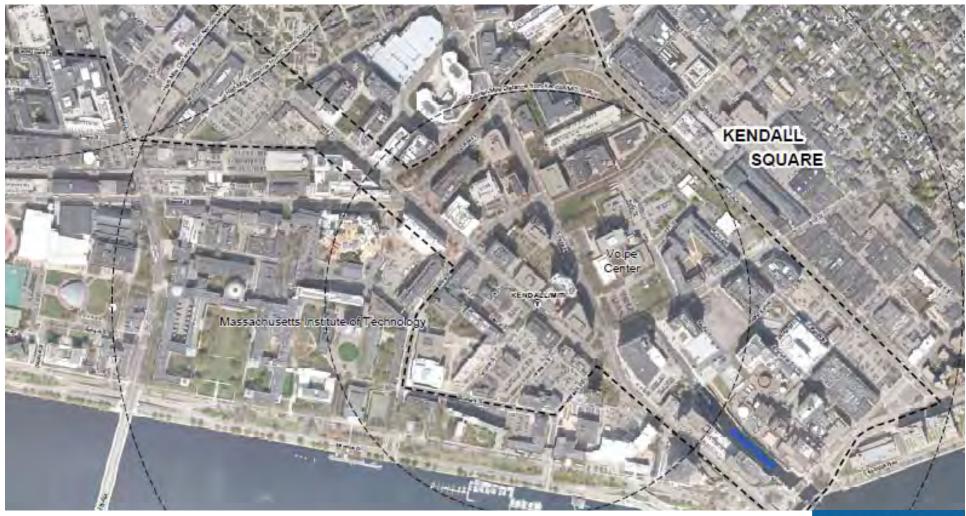
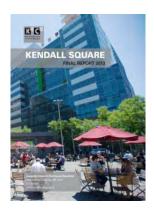
# PUD-KS (Volpe Site) Rezoning November 17, 2015



**Community Development Department** 





*K2 Study Process 2011 – 2012* 



ECPT/CBT Plan



Connect Kendall Sq Competition

2011

2012

2013

#### **K2 Study**

20-person Advisory Committee --residents,
 businesses, property owners/developers, MIT,
 Kendall Square Association, CRA

- Multidisciplinary consultants -- Goody Clancy
- 18 committee meetings, 5 public meetings/working sessions/site tours
- City Council roundtable

2014

PUD-KS Proposal developed with discussions at Planning Board

2015

PUD-KS Petition Filed by Planning Board Ordinance Committee/Planning Board Public Hearings

**Volpe Site Community Outreach (summer/fall)** 

**PUD-KS Refiled – August 2015** 

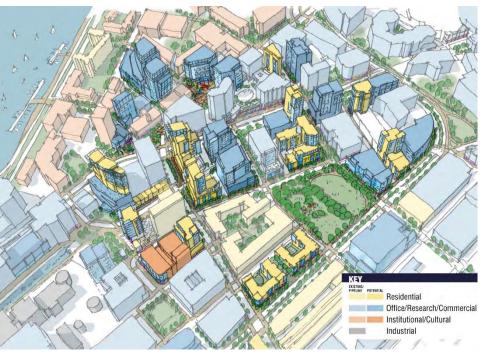
**Petition Hearings (ongoing)** 

## **Vision for Kendall Square**

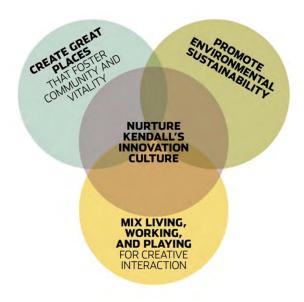
"A dynamic **public realm** connecting diverse choices for **living**, **working**, **learning**, and **playing** to inspire continued success of Cambridge's **sustainable**, **globally-significant** innovation community."



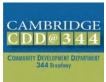
ECPT Planning Vision (CBT Architects + Planners)

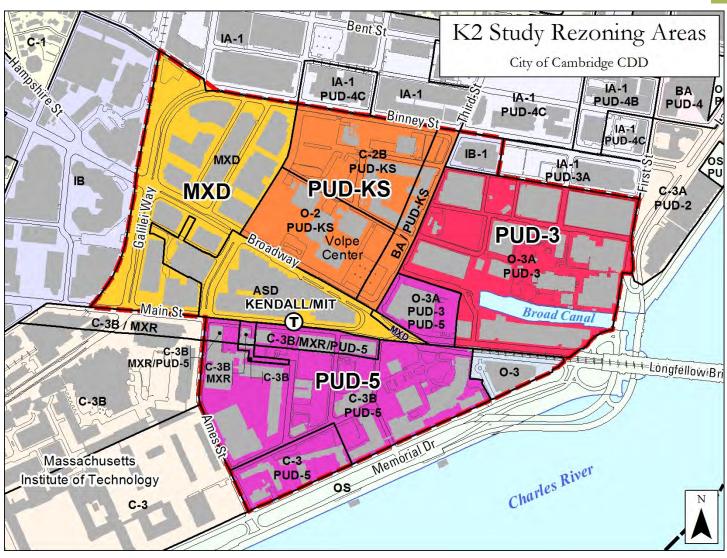


K2 Planning Vision (Goody Clancy)



# **Zoning**





## **Major Proposed Modifications**



#### Affordable Housing Requirements

15% low-moderate + 5% middle income minimum

#### Open Space

Detailing desired open space functions

Limiting how much of the requirement can be met on a Federal site

#### Height

More flexibility in arrangement, limiting bulk at taller elevations

#### Active Uses

More desired ground floor uses including grocery stores, family-serving uses, small independent operators; limitations on banks

#### Urban Design

Urban Design Framework to inform future development review

# **Modifications: Affordable Housing**





APPROXIMATE	<b>Current Zoning</b>	Initial Proposal	Modifications
Total Units	879	1,014	1,014
Low-Moderate Units	101	101	152
Middle Income Units	None required	51	51
Total Affordable Units	101	152	203

# **Modifications: Public Open Space**

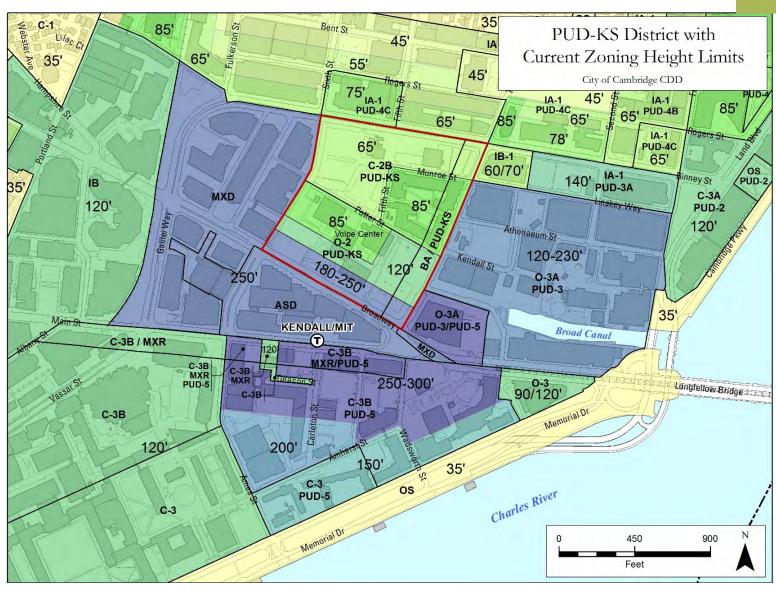


- System: All spaces must serve a public function, integrate with the area's open space network
- Civic park or plaza: Required element of the public open space system
- Federal site: Fulfills no more than half of requirement



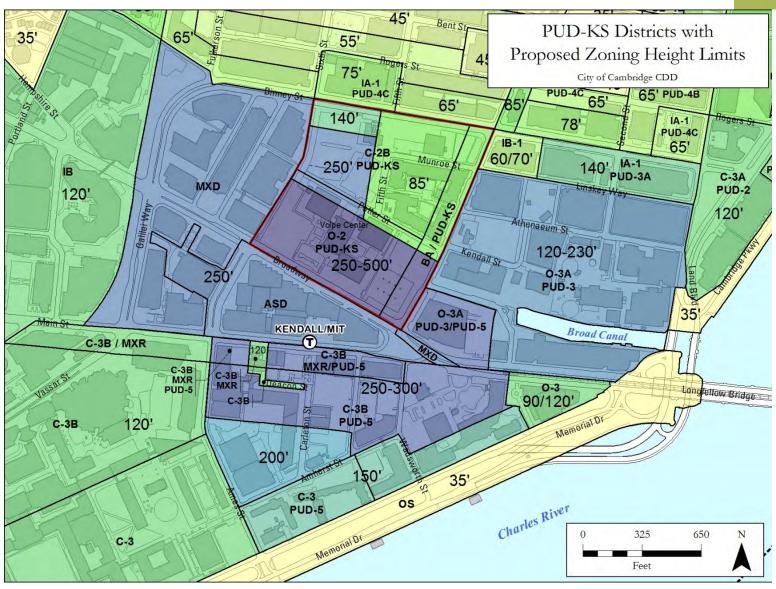
# **Height Limits: Current**





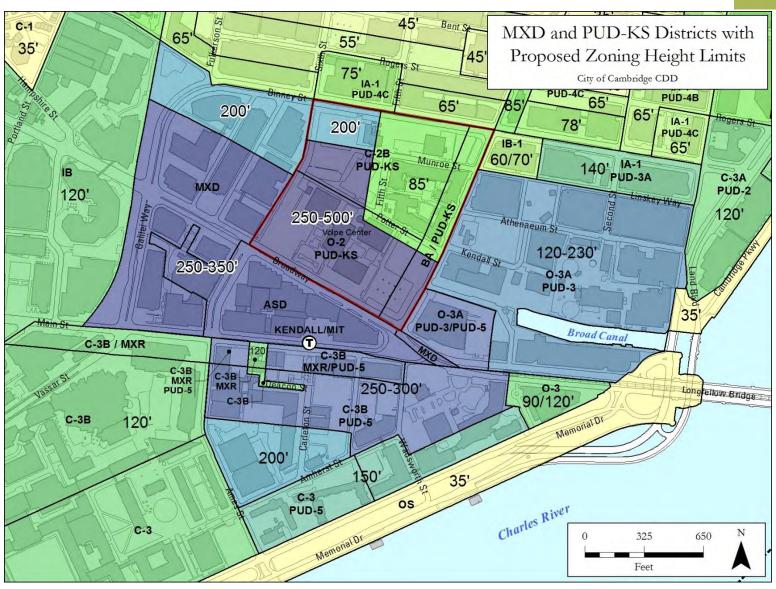
# **Height Limits: Initial Petition**



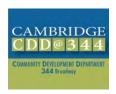


# **Height Limits: Proposed Modifications**





## **Height Limits: Proposed Modifications**

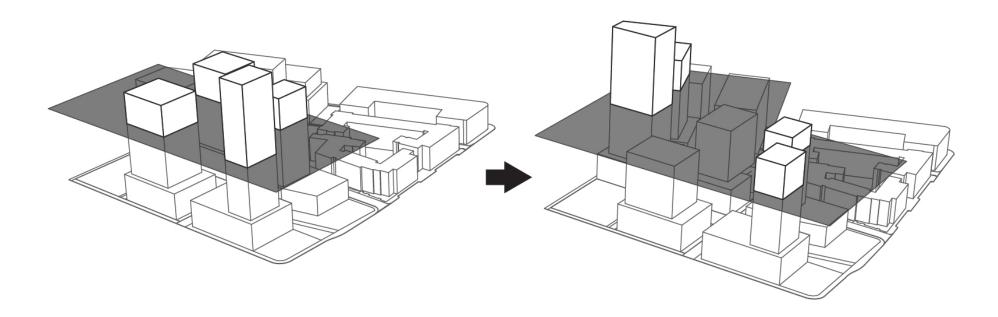


#### Above 250 feet:

No more than 15,000 SF floor plate No more than 10% of parcel area total (62,000 SF)

#### Above 350 feet:

No more than one building as a distinctive landmark Planning Board can reject a proposal if it does not provide the desired benefit, in favor of a plan with a 350-foot limit



#### **Modifications: Active Ground Floors**





- **Required:** 75% of frontage along major streets
- Incentivized: spaces of 5,000 square feet or less
- Active Uses Must Include: grocery, market or general store space for small operators (2,500 square feet or less)
- Active Uses May Include: child care, recreation, education and cultural uses for families
- Active Uses May Not Include: banks, office lobbies

# **Volpe Site: Anticipated Development**

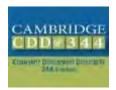


	Current Zoning	Proposed Zoning
Site Area	620,000	620,000
Residential	967,000 (min)	1,116,000 (min)
Office / Lab (not including Innovation Space)	1,086,000 (max)	1,632,000 (max)
Retail	50,000	140,000
Innovation Space (min)	0	84,000
Total Private Development	2,103,000	2,972,000
Volpe Facility (replacement)	375,000 (exist.)	375,000 (approx.)

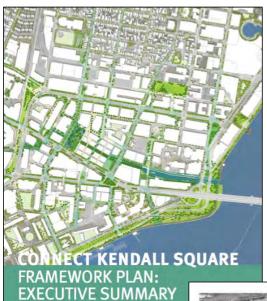
Figures in Square Feet of Gross Floor Area. ALL FIGURES APPROXIMATE

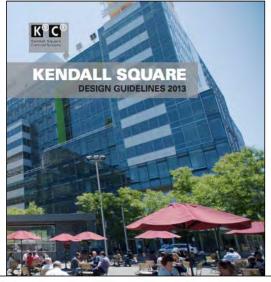
# **Benefits of PUD-KS Zoning Proposal (as Modified)**

Housing	<ul> <li>1,000 units minimum (approx.)</li> <li>150 affordable, 50 middle-income (approx.)</li> <li>\$20+ million in total incentive zoning payments</li> </ul>
Active Ground Floors	<ul> <li>Continuous active use on Third Street, Broadway</li> <li>Up to 140,000 SF ground-floor retail (exempt)</li> <li>Grocery/general merchandise, small operators, family uses</li> </ul>
Public Open Space	<ul> <li>At least 3.5+ acres Public Open Space</li> <li>Connections to adjacent streets and spaces</li> <li>At least one major civic plaza/park, other public functions</li> </ul>
Innovation Space	84,000 SF (approx.) at full commercial buildout
Transportation	Cap on total parking
Sustainability	<ul> <li>LEED Gold + energy, stormwater requirements</li> <li>Additional requirements from Net Zero Plan</li> </ul>
Community Funds	• \$16+ million total for open space programming, transit improvements, workforce readiness
Urban Design	<ul> <li>General K2 Design Guidelines</li> <li>Site-Specific PUD-KS Urban Design Framework</li> </ul>



#### **Background materials**



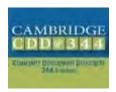


# VOLPE SITE REZONING COMMUNITY CONVERSATIONS The City is considering a zoning change that would guide the transformation of 14 acres in the heart of Kendall Square. Join us in discussing this proposal!

#### **Purpose**

- Visually represent the City's and the community's key goals and aspirations for the site
- 2. Inform the City's review process for development projects
- 3. Identify key principles, concepts, and ideas





#### Vision – Volpe site

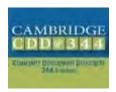
- An accessible, diverse and unique place that integrates the PUD-KS district seamlessly into the surrounding urban fabric of Kendall Square and the Eastern Cambridge neighborhoods, and the community.
- A place that is defined by high quality sustainable architecture, urban design and open space with an enduring sense of place that celebrates Kendall Square's spirit of innovation and creativity.

#### Framework structure

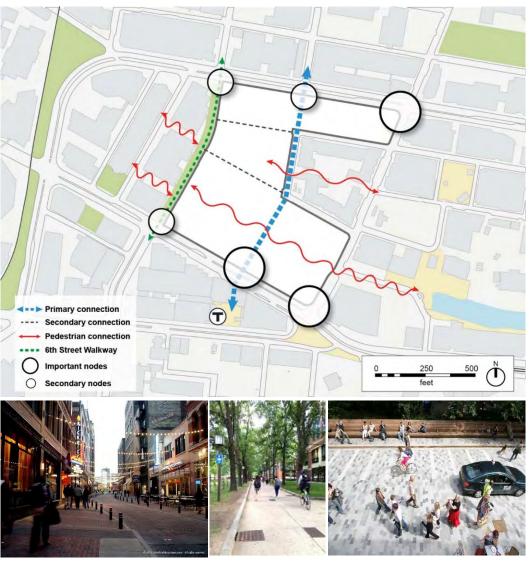
- 1. Connections
- 2. Open space
- 3. Active ground floors
- 4. Built form
- 5. Housing for families





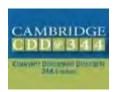


#### **Connections**



#### Main organizing features

- Extension of surrounding streets and connections through the site (e.g., Fifth Street and Broad Canal Way)
- Enhancement of the Sixth Street Walkway
- 3. Provision of different types of connections (e.g., shared streets, multi-modal streets, bike lanes, mid-block connections, alleys etc.)

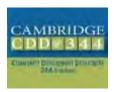


#### **Open space**

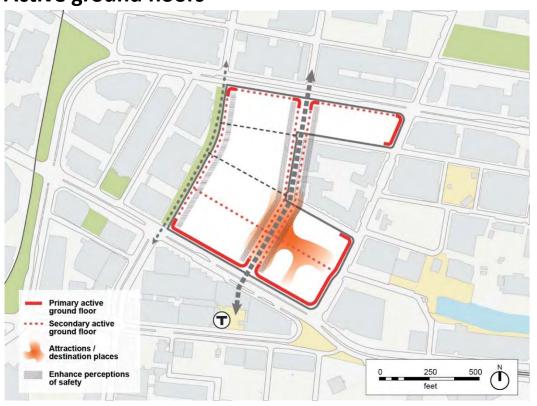


#### Main organizing features

- Network of open space areas organized along the extension of Fifth Street and/or Broad Canal Way
- 2. The corner of Broadway and Third Street as a gateway
- 3. A balanced mix of lively gathering spaces and more naturalistic, passive parks



#### **Active ground floors**

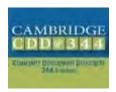


#### Main organizing features

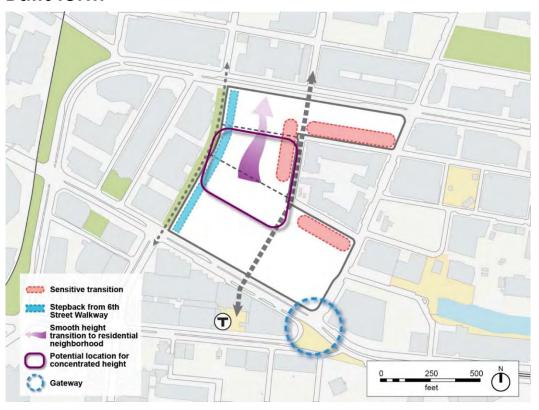
- Creating a hierarchy of streets with different activity levels
- Concentration of destination type activities







#### **Built form**



#### Main organizing features

 areas and interfaces that require careful and sensitive transition to the surrounding environment

Also includes matters the Planning Board should consider when determining if a tall building is a "distinctive architectural landmark"



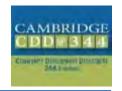
#### **Housing for families**



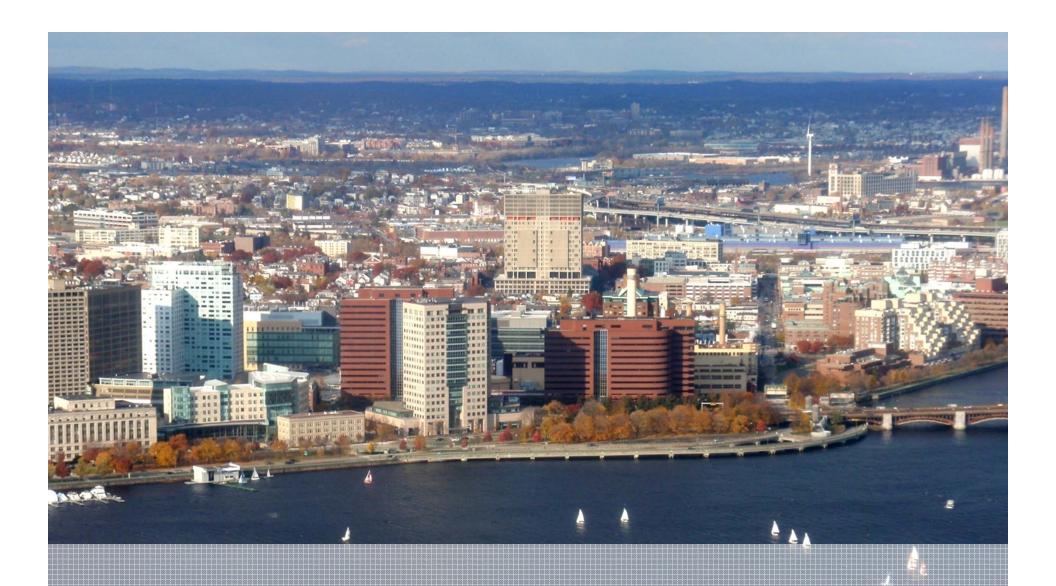
 Design objectives and guidelines to address key siting and design issues relating to housing for families with children.





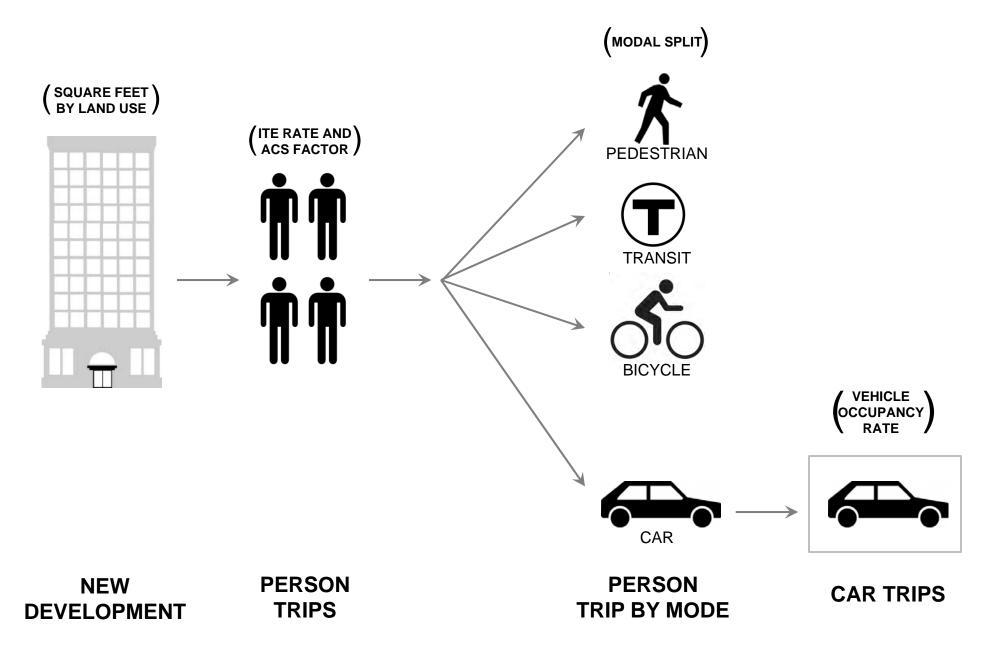




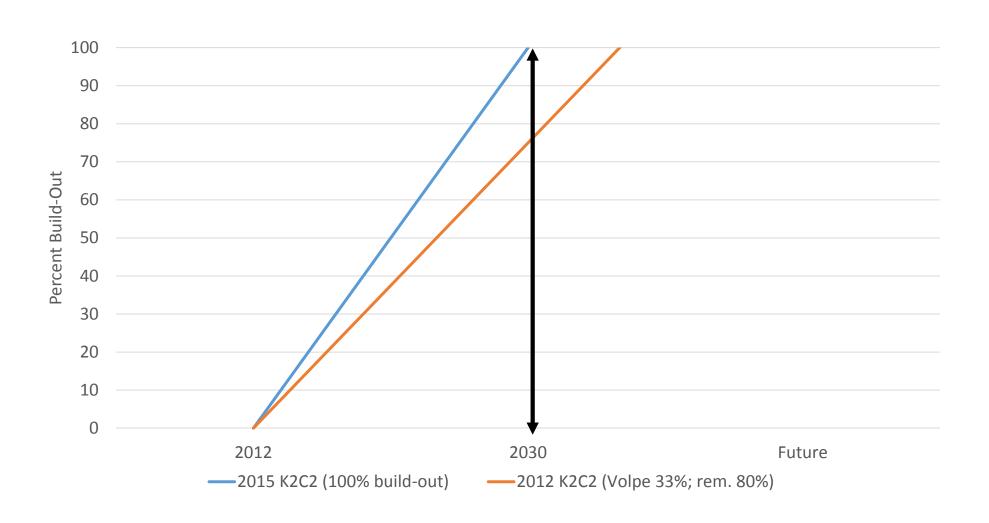


**K2C2** Transportation Analysis

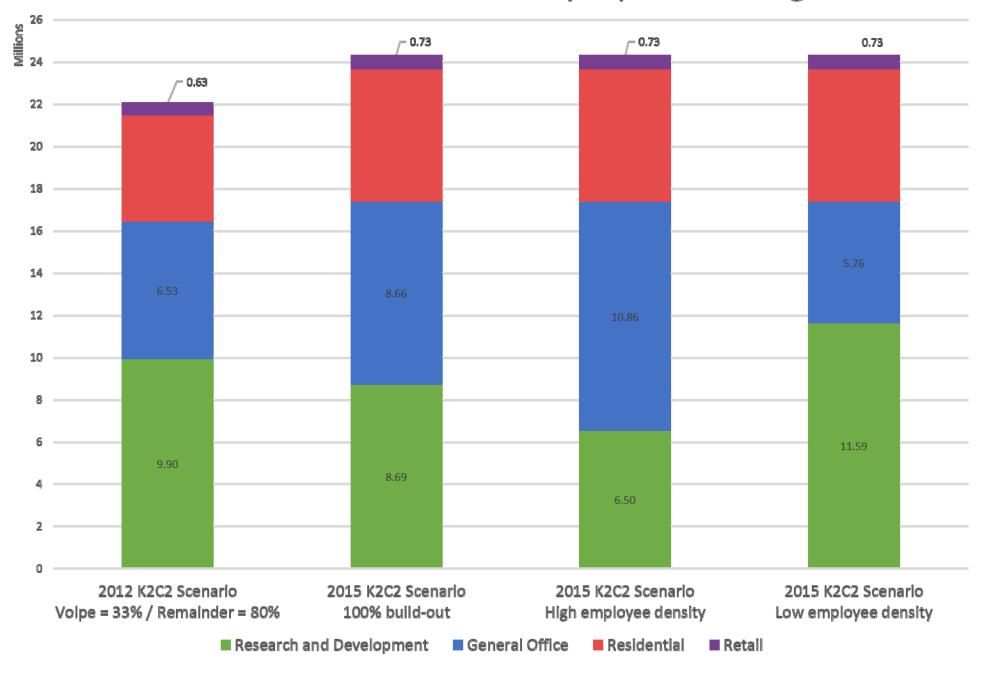
# **Calculating New Trips**



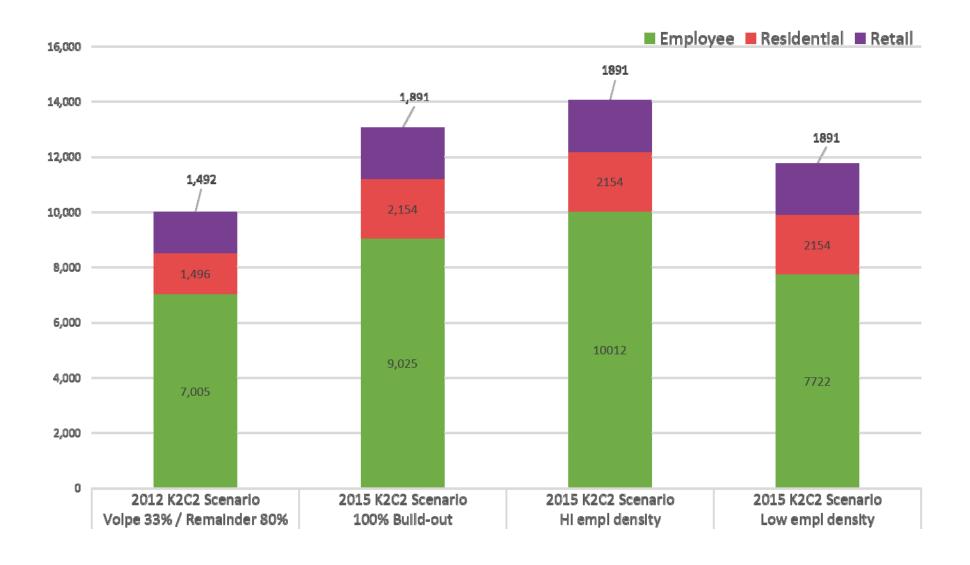
# Pace of Development Scenarios



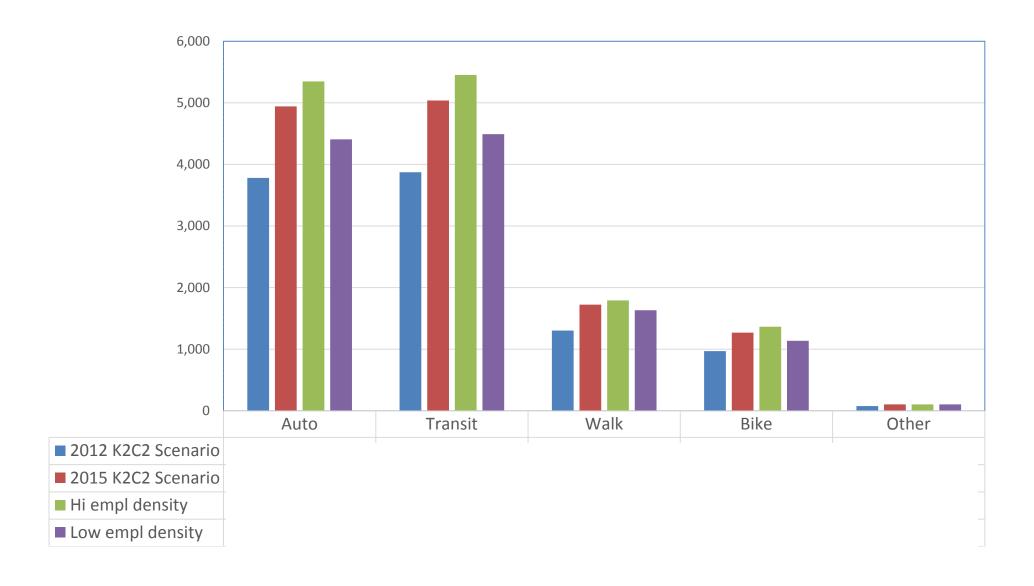
# 2030 Build-Out Scenarios by Square Footage



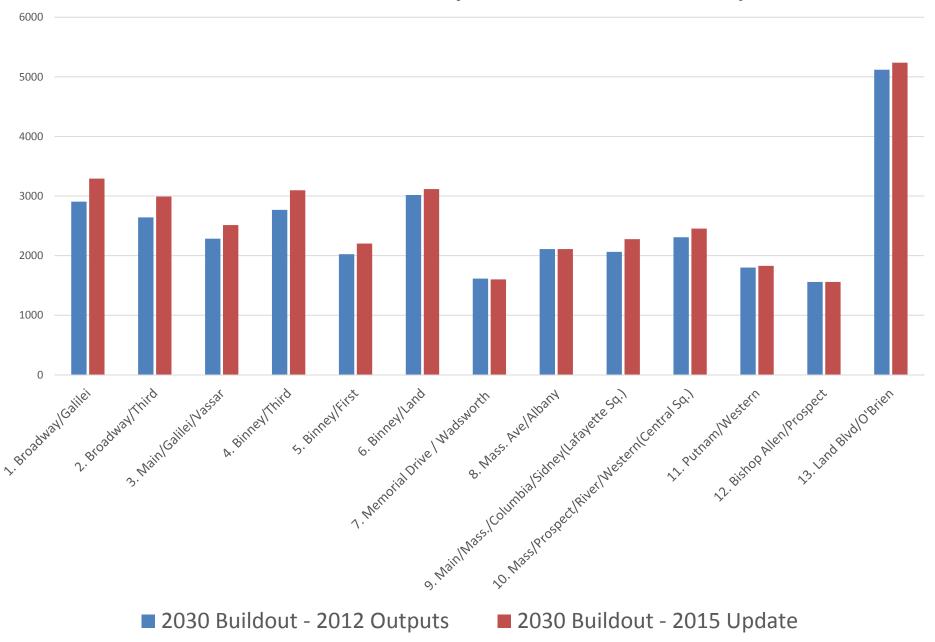
# 2030 Estimated Total Person Trips Comparison



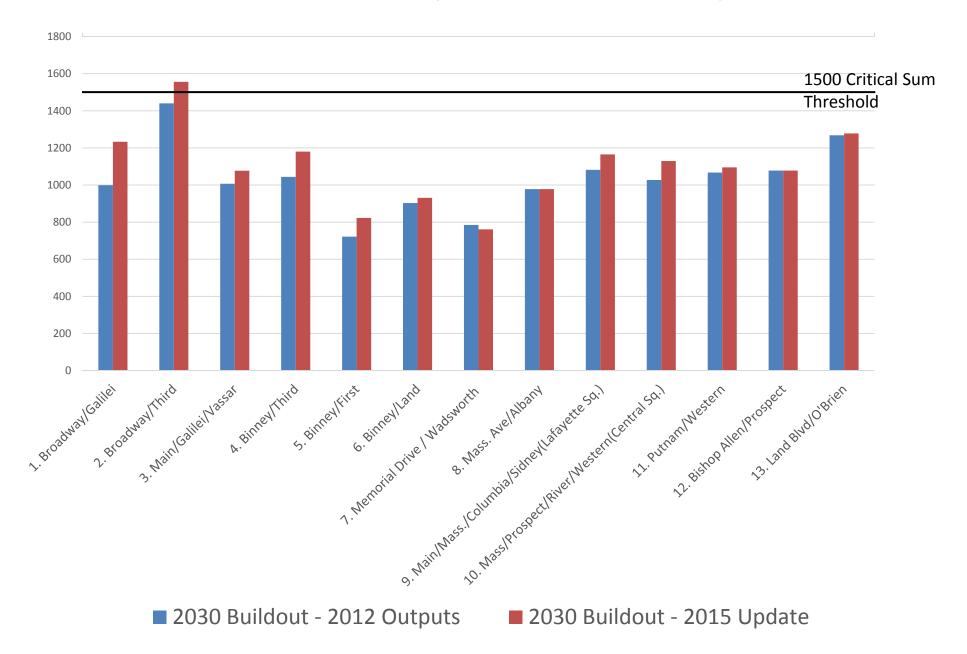
# 2030 Estimated Person Trips by Mode



# 2030 Traffic Volumes by Intersection Comparison



# 2030 Critical Sums by Intersection Comparison



# Approach

- Current zoning requires traffic study and mitigation program
- Require transit analysis and mitigation
- Link to milestones, thresholds or performance standards
- Current proposal includes \$10 per square foot requirement (\$6.67 for open space and transit)
- Final Development Plan/Special Permit to include specific and detailed set of requirements

# Preliminary Financial Analysis

Cambridge Redevelopment Authority
HR&A Advisors

# Assumptions and Methodology

Program	Total Proposed SF	Percent of Total
Residential	1,116,000 SF	38%
Office	816,000 SF	27%
Lab	816,000 SF	27%
Retail	140,000 SF	5%
Innovation	84,000 SF	3%
Total	2,972,000 SF	100%

Key Assumptions	Amount
65% AMI	15.00%
95% AMI	5.00%
Interest Rate (Total Project Costs)	6.00%
LTV (Total Project Costs)	60.00%
Program Size (Baseline)	2,972,000 SF

Estimated Construction Costs (Hard & Soft)		
Residential	\$407 per GSF	
Office	\$358 per GSF	
Lab	\$413 per GSF	
Retail	\$330 per GSF	
Innovation	\$358 per GSF	
Parking	\$100,000/space	

# Assumptions and Methodology

- Preliminary cash flow analysis based on Kendall area development comps
- Modeled as a horizontal developer pro forma
- "Land Value" based on 3 phases of land disposition
- Resulting value is "supportable site costs"
- Based on industry acceptable 15% Internal Rate of Return

# Land Value Output

Costs Included in Program Analysis	Additional Site Improvement Costs to be Supported
Building construction	Federal facility (building and fit-out)
Soft costs	Site Remediation
On site improvements	Public Streets and Parks
Inclusionary and Middle Income Housing	Off site Infrastructure
Linkage / Incentive Payments	
Community Fund @ \$10	

# **Preliminary Results**

Estimated Residual Land Value	Per GSF
Residential	\$58
Office	\$155
Lab	\$199
Retail	\$68
Innovation	\$129
Total*	\$126

<sup>\*</sup>Based on proposed program SF

Private Development	2,972,000 SF
Residential (w/ 15% low-mod, 5% mid)	38%
Office	27%
Lab	27%
Retail	5%
Innovation	3%
Supportable Site Improvement Costs	\$283,000,000

