ENVISION CAMBRIDGE

Public Meeting

September 26, 2018

Agenda

- New Policy Ideas Generated from the Envision Cambridge Process
- 100% Affordable Citywide Overlay Analysis
- Development Projections Comparing Current Zoning and New Policy Ideas:
 - Super-inclusionary housing program
 - Environmental performance incentive
- Small group discussions
- Report back

Hundreds of new policy and program ideas were generated from a wide-reaching engagement process

- Advisory committee and working groups
- Public workshops
- Street team events
- Focus groups
- Youth workshops
- Online and paper surveys
- Digital engagement
- Walking tours







We want to test the effectiveness of priority zoning-related ideas

- Some recommendations have a large-scale, measurable effect on development and its outcomes across all planning topics.
- Additional analysis is needed to understand range of impacts.

Ideas to test include:

- 100% affordable housing overlay
- "Super-inclusionary" housing program
- Environmental performance incentive



Members of the public discussed proposed recommendations at a public meeting in July.

What are we asking of you today?

- Tell us what you think about these ideas
 - What do you like about these ideas?
 - What do you dislike about these ideas?
 - What changes to these ideas would you make, if any?



Members of the public have already started to weigh in on this analysis

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100% Affordable Citywide Overlay Analysis

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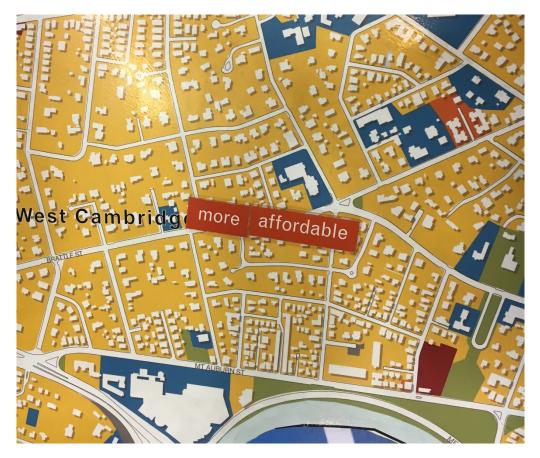
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Why study a 100% Affordable Housing Citywide Overlay?

Advances Envision Cambridge shared community goals:

- Foster neighborhoods of opportunity and equitable distribution of affordable housing citywide.
- Provide a variety of housing options for people of different socioeconomic levels, life stages, and physical needs.
- Expand affordable rental and homeownership opportunities to enable Cambridge to thrive as a mixed-income community.
- Provide access to opportunities for all people regardless of differences.
- Work toward addressing race-based disparities and racial equity.
- Maintain the existing patterns of the city through a mix of preservation and complementary infill development.



100% Affordable Housing Citywide Overlay: Background

- The City already partners with affordable housing developers (usually local nonprofits).
 - Development is subsidized by federal, state, and city government.
 - "Affordable" housing is income-restricted where housing costs are affordable to low-, moderate, and middle-income people
 - City-funded affordable housing is created through acquisition of existing multifamily housing and new construction
 - FY19 funding for Affordable Housing Trust totals \$13.6 million in City funds
 - Two or three projects are typically completed each year (approx. 50-60 affordable units)
- The overlay does not change the number of units produced because affordable housing production is determined by the availability of funding.
- Main objectives are to:
 - Expand affordable housing's viability in areas where it's been more difficult to create new affordable units
 - Enable affordable housing developers to better compete with market-rate developers in growth areas



625 Putnam Ave is an example of a 100% affordable housing development built by a nonprofit developer in Cambridge.

Why study a 100% Affordable Housing Citywide Overlay?

- Challenges to building affordable housing:
 - High land costs and competition from market-rate developers
 - Appeal of discretionary approvals can add significant cost, long delays, and significant risk to affordable housing developers.
 - More difficult to build affordable housing in some areas of the city given zoning limitations (i.e. density is limited in Residence A and B districts, where high land costs make development infeasible for affordable housing developments without discretionary approvals and significant zoning relief)
- 100% Affordable Housing Citywide Overlay would:
 - Remove permitting uncertainty and subsequent additional costs, delays, and risks to make it easier to complete 100% affordable housing
 - Enable affordable housing developers to better compete with market-rate developers
 - Expand affordable housing's viability in areas where it's been more difficult to create new affordable units
 - Help reduce costs for affordable housing development by balancing land costs with the number of units needed to make projects feasible and lowering soft costs through an expedited approval process

What would the 100% Affordable Housing Citywide Overlay entail?

For 100% affordable housing developments only:

- Offer density bonuses and relief from dimensional standards (height, setbacks, open space) and parking where necessary (varies by zoning district)
- Allow for as-of-right approvals with required design review and community input instead of discretionary permitting approvals
- Allow affordable multi-family and townhouse developments in all districts (e.g. not currently an allowed use in Residence A and B districts);
- Allow for conversion of any existing structure (including existing residential) to affordable multifamily housing
- A design review process would ensure good design without creating uncertainty about a project's fundamental viability



Huron Ave. at Vassal Ln. has different densities together in close proximity.

100% Affordable Housing Overlay Ideas for Discussion

- The 100% Affordable Housing Overlay could apply to the entire city
 - In higher-density areas such as commercial corridors and areas of potential change, affordable developments would need 2.5 times the density allowed by current base zoning to be competitive in the market
 - In residential neighborhoods and other areas, affordable developments would need an FAR of 2.0 to be financially feasible in all areas



Residential Neighborhoods

Corridors and Areas of Potential Change

Examples of recent infill development in Cambridge

In these examples, the new developments are at a higher density than the surrounding buildings.



Urban Form Comparison – Density Allowed by Current Zoning (Residential)

Floor Area Ratio Precedents









FAR is one of many urban form rules. FAR and rules about height, lot coverage, historic preservation, and design guidelines combine to manage the form of a building.

Floor Area Ratio

0.0 - 2.0
2.1 - 4.0
4.1 - 6.0
6.1 +

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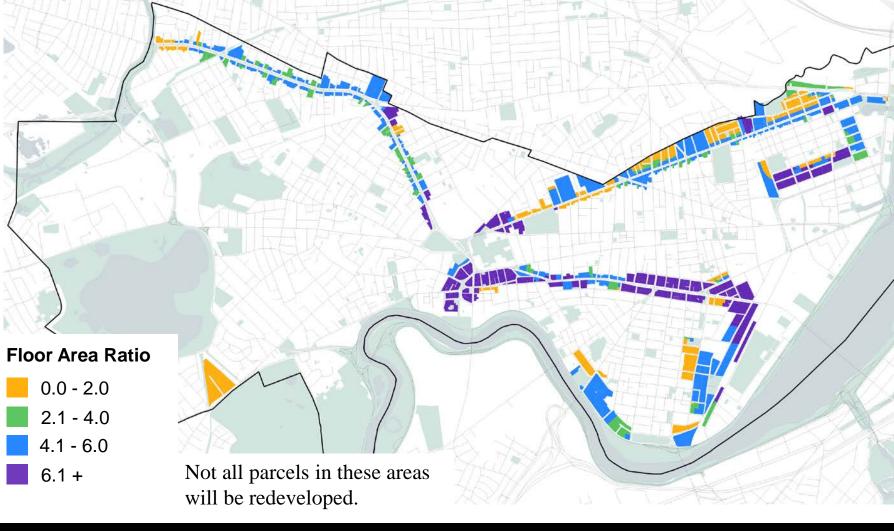
Urban Form Comparison – Max. Density under 100% Affordable Overlay

Floor Area Ratio Precedents





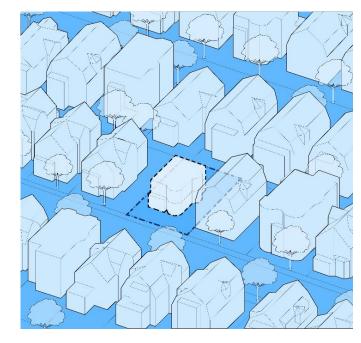
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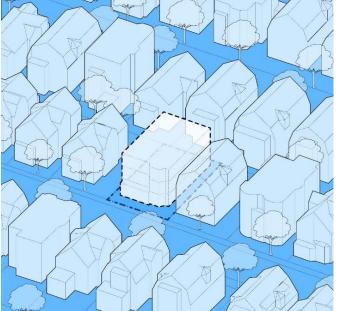
What would the 100% Affordable Citywide Overlay look like in residential neighborhoods?

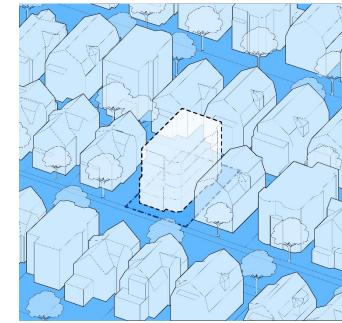
100% Affordable Housing developments in residential zoning districts would take the form of mid-rise multifamily buildings, consistent with the historic mix of densities found throughout Cambridge.

Examples of hypothetical buildout on small parcels (<5,000sf):



Maximum allowed under current zoning (many existing buildings are non-compliant) 2 units, 2 stories





69% of existing buildings in residential neighborhoods are not zoning compliant, due to height, density, or both

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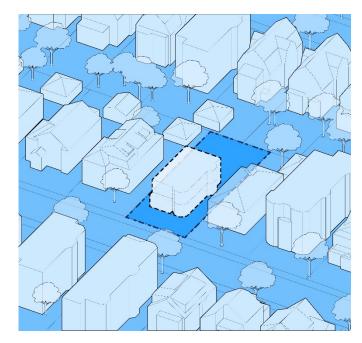
Example of buildout under 100% Affordable Citywide Overlay 7 units, 3 stories

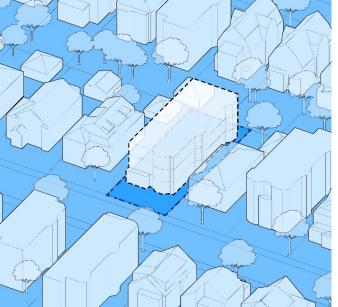
Example of buildout under 100% Affordable Citywide Overlay 8 units, 4 stories

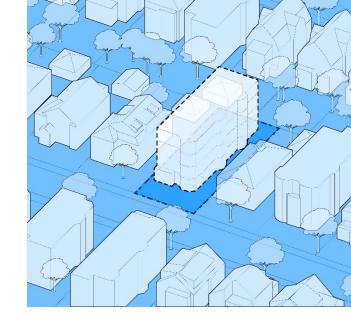
What would the 100% Affordable Citywide Overlay look like in residential neighborhoods?

100% Affordable Housing developments in residential zoning districts would take the form of mid-rise multifamily buildings, consistent with the historic mix of densities found throughout Cambridge.

Examples of hypothetical buildout on medium-sized parcels (5,000sf – 10,000sf):







69% of existing buildings in residential neighborhoods are not zoning compliant, due to height, density, or both

17

Maximum allowed under current zoning (many existing buildings are non-compliant) 2 units, 2 stories

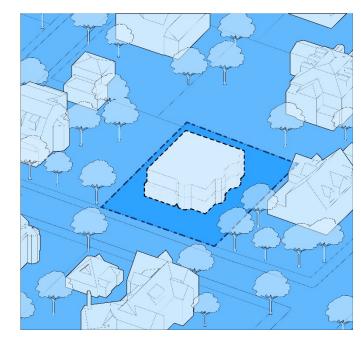
Example of buildout under 100% Affordable Citywide Overlay 10 units, 3 stories

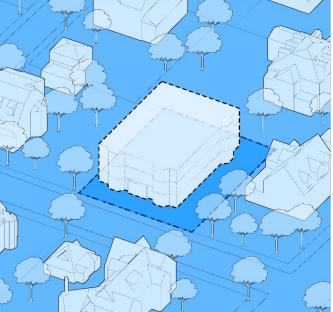
Example of buildout under 100% Affordable Citywide Overlay 12 units, 4 stories

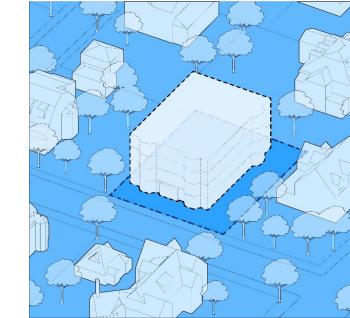
What would the 100% Affordable Citywide Overlay look like in residential neighborhoods?

100% Affordable Housing developments in residential zoning districts would take the form of mid-rise multifamily buildings, consistent with the historic mix of densities found throughout Cambridge.

Examples of hypothetical buildout on large parcels (>10,000sf):







69% of existing buildings in residential neighborhoods are not zoning compliant, due to height, density, or both

18

Maximum allowed under current zoning (many existing buildings are non-compliant) 1 unit, 2 stories

Example of buildout under 100% Affordable Citywide Overlay 17 units, 3 stories

Example of buildout under 100% Affordable Citywide Overlay 23 units, 4 stories

How does the 100% Affordable Housing Citywide Overlay relate to the other new policy ideas that were tested?

- The 100% Affordable Housing Citywide Overlay does not change the number of units produced because affordable housing production is determined by the availability of funding.
- The number of **City-subsidized** affordable units is therefore the same under all of the other policy ideas that were tested.
- City funding typically allows 50-60 affordable units to be created through new construction and acquisition of existing multi-family properties each year.



Huron Ave. at Vassal Ln. has different densities together in close proximity.

Development Projections



Testing the impact of community-generated ideas

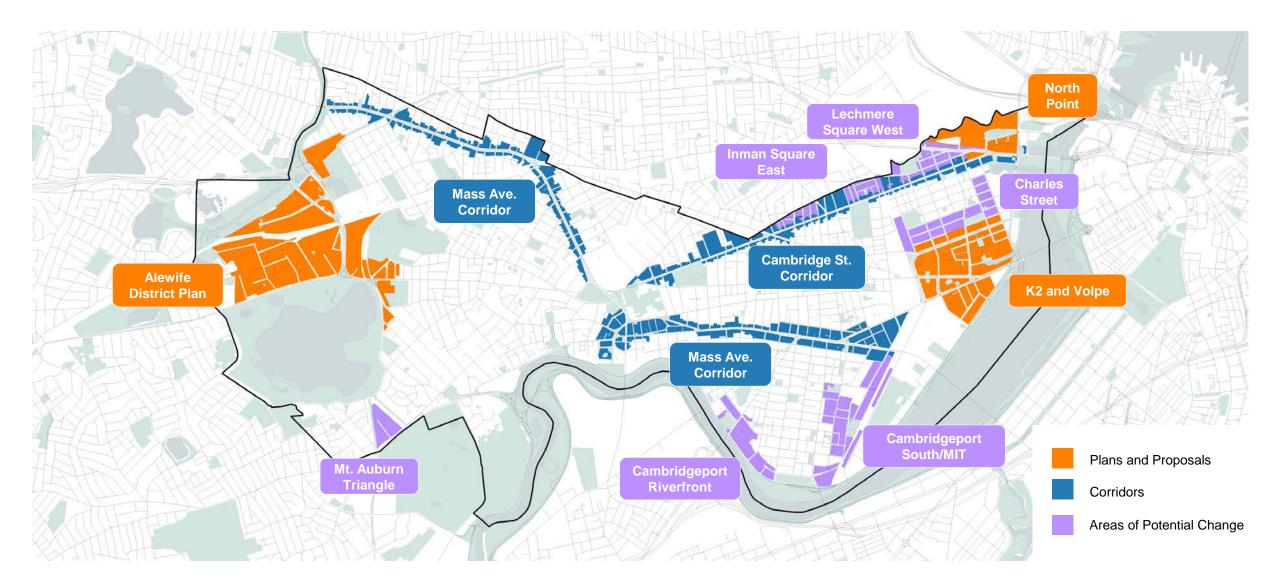
How do we test these ideas?

- Compare development projections through 2030 under current zoning and new policy ideas.
- Measure the hypothetical impact of these projections to enable a discussion about tradeoffs.
- FAR-based analysis. Any proposal would have to include further consideration of dimensional constraints.

These tests are analysis, NOT recommendations or proposals.

- They **do not** address the effects of all regulations. Zoning laws are always more nuanced than what we can test.
- They **are not** perfect predictions of what will occur. The tests are based on various assumptions, and we cannot predict how individual landowners will act or how the real estate market might change over time.

Study areas for development projections



What to consider when evaluating new policy ideas

Housing

- Housing units
- Affordable units



Mobility

• Auto traffic impacts



Urban Form

- Relationship to existing context
- Experience from the street



• Greenhouse gas emissions



Economy

- Commercial space
- Jobs



Community Wellbeing

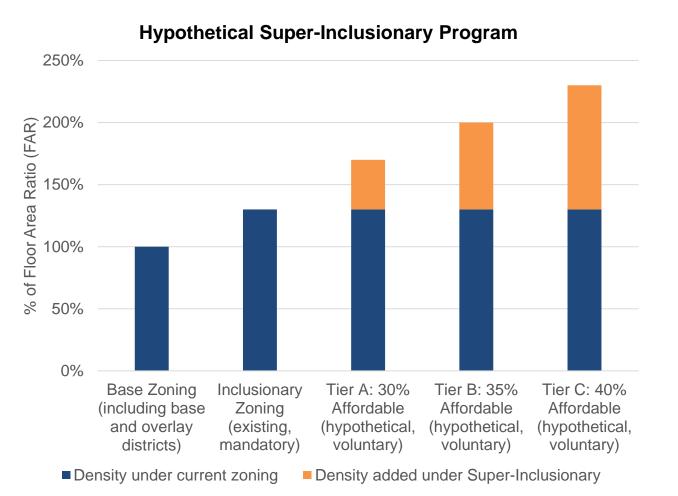
- Residents
- Public school students

Super-Inclusionary Housing Program



What is a "super-inclusionary" housing program?

- Current inclusionary zoning requirements:
 - Requires that 20% of new residential development is dedicated to affordable housing.
 - Gives a 30% density bonus
- Super-Inclusionary would be a voluntary program that provides a larger density bonus in exchange for additional affordable housing beyond the city's current requirements
 - Like the existing policy, it would only apply to new residential buildings or conversions which create 10 or more new units or more than 10,000 square feet of residential space



Why study super-inclusionary housing program?

Advances Envision Cambridge shared community goals:

- Increase the overall housing supply and produce new affordable housing.
- Provide a variety of housing options for people of different socioeconomic levels, life stages, and physical needs.
- Expand affordable rental and homeownership opportunities to enable Cambridge to thrive as a mixedincome community.
- Foster neighborhoods of opportunity and equitable distribution of affordable housing citywide.
- Provide access to opportunities for all people regardless of differences.
- Work towards addressing race-based disparities and racial equity.
- Builds customer base for retail to attract and retain small businesses

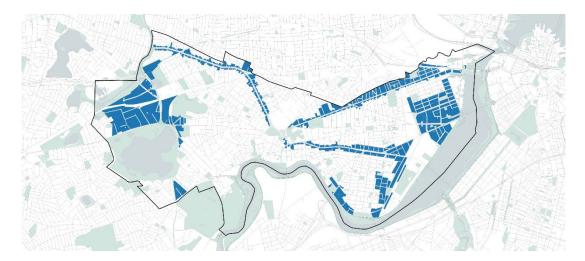
Other benefits:

- Inclusionary Zoning is a major driver of affordable housing development
- Leverages private investment for public benefit (no public subsidy)
- City-regulated program

Super-Inclusionary Housing Program Ideas for Discussion

- A voluntary, tiered increase to allowable density in exchange for additional affordable housing
 - Each density bonus was set to the minimum amount that allows the additional market-rate units to subsidize the affordable units and ensure that the incentive is financially viable
 - Special permit rules would not be changed. The present approval process would be maintained.
- Several different tiers of super-inclusionary incentives were tested:

Tier	Required Affordable Housing	Density increase over current zoning
Current Inclusionary	20% of floor area (mandatory)	30% over base FAR (given)
Tier A	30% of floor area	70% over base FAR
Tier B	35% of floor area	100% over base FAR
Tier C	40% of floor area	130% over base FAR



The Super-Inclusionary Housing Program was tested along corridors and in areas of potential change.

Super-inclusionary Housing Program: Adoption Rates

- Tier A is available in all parts of the city except traditional residential neighborhoods
- In the areas where the character and access to amenities can support additional density, higher tiers are available in order to produce a higher percentage of affordable units
- Adoption rates for each tier would vary by the area of the city, depending on the allowable base density and rents that are achievable in each area.
- Not all developments would opt for the highest tier available to it.
- Not all developments would opt for *any* super-inclusionary bonus.

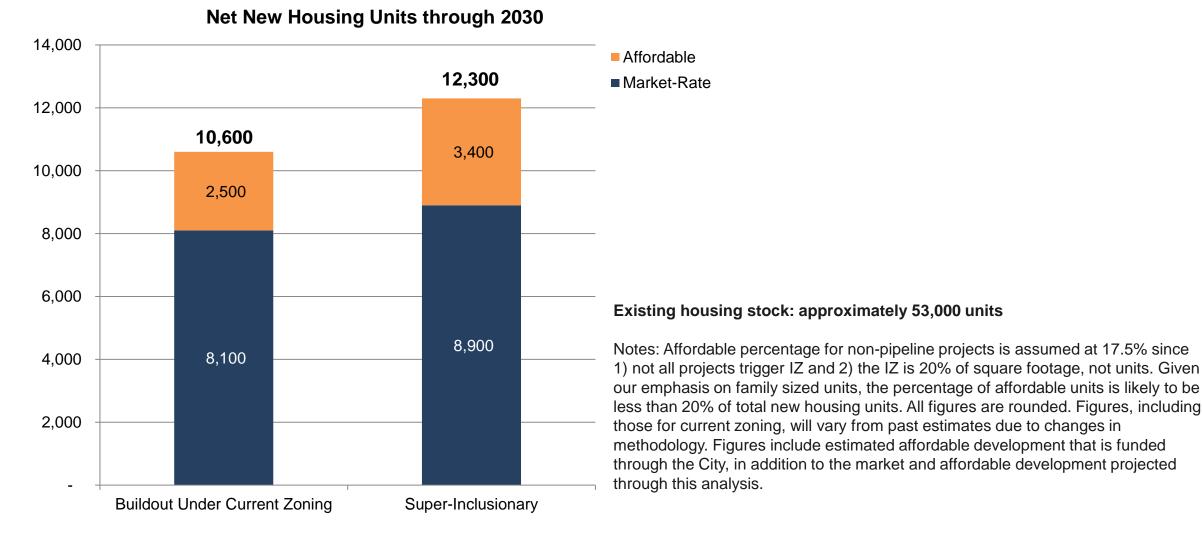
Tested adoption rates:

Area	Buildout under Current Zoning: 20% Affordable	Tier A: 30% Affordable	Tier B: 35% Affordable	Tier C: 40% Affordable
Lower density	50%	50%	0% (not allowed)	0% (not allowed)
Medium Density	50%	30%	20%	0% (not allowed)
Higher density	25%	30%	20%	25%

Super-Inclusionary Concepts and Tiers Analyzed



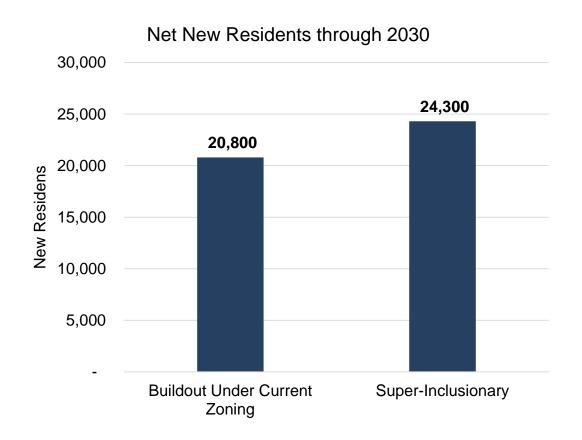
Comparison of Potential Housing Production – Super-Inclusionary



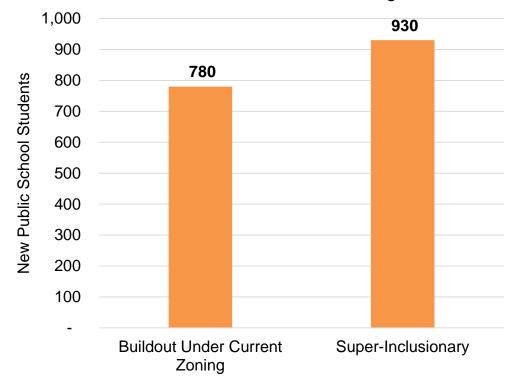
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Comparison of Potential New Residents and Public School Students

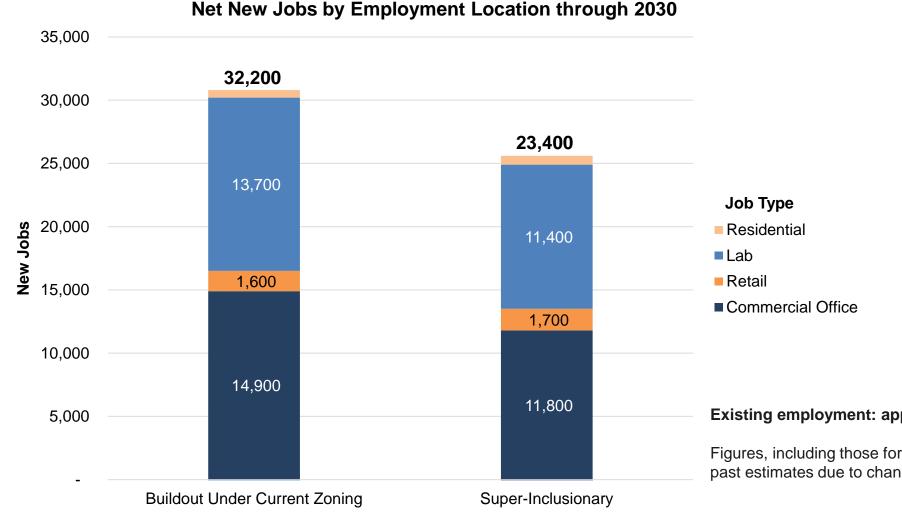


Net New Public School Students through 2030



Figures, including those for current zoning, will vary from past estimates due to changes in methodology.

Comparison of Potential New Jobs – Super-Inclusionary

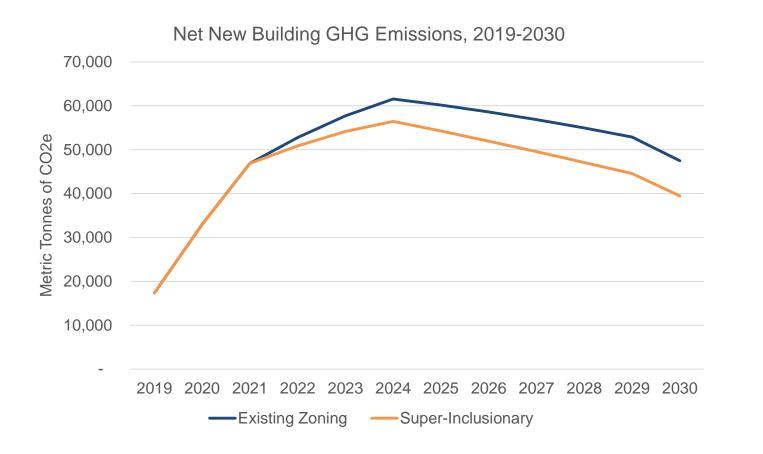


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 - Both current zoning and a Super-Inclusionary Policy would result in net new jobs.
 - Net new jobs are lower under the • Super-Inclusionary Program because residential construction is incentivized compared to commercial.

Existing employment: approximately 124,000 jobs

Figures, including those for current zoning, will vary from past estimates due to changes in methodology.

Comparison of GHG Emissions – Super-Inclusionary

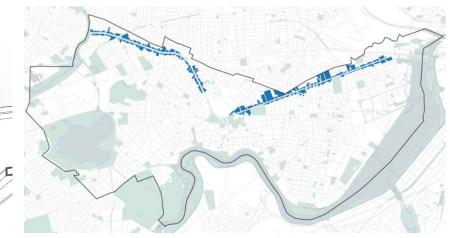


Existing Building Emissions: approx. 1 million tonnes

Figures assume individual electrification of buildings (using Cambridge's Low Carbon Energy Supply Strategy scenario 1), improvements in the electric grid, and the energy use intensity targets called for in the Net Zero Action Plan. Figures show GHG emissions from operations.

Urban Form Outcomes: Hypothetical Corridor Block under Super-Inclusionary Program – Low Density

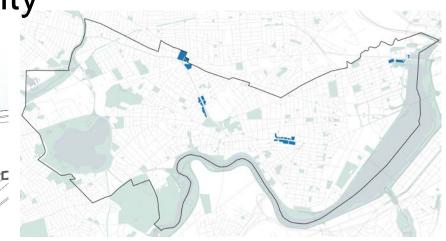




Study areas shown in the map have maximum super-inclusionary densities that might result in the density shown.

Urban Form Outcomes: Hypothetical Corridor Block under Super-Inclusionary Program – Medium Density





Study areas shown in the map have maximum super-inclusionary densities that might result in the density shown.

Urban Form Outcomes: Hypothetical Corridor Block under Super-Inclusionary Program – High Density

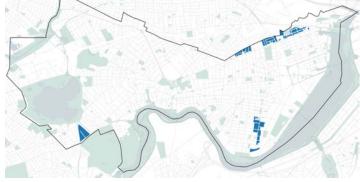


Urban Form Outcomes: Hypothetical Transitional Area under Super-Inclusionary Program – Existing Condition



Urban Form Outcomes: Hypothetical Transitional Area under Super-Inclusionary Program – Low/Medium Density





Study areas shown in the map have maximum super-inclusionary densities that might result in the density shown.

Urban Form Outcomes: Hypothetical Transitional Area under Super-Inclusionary Program – Medium/High Density





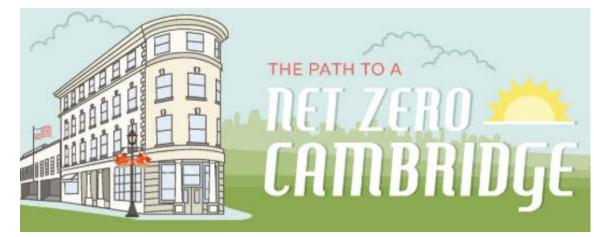
Study areas shown in the map have maximum super-inclusionary densities that might result in the density shown.

Environmental Performance Incentive



What is an environmental performance incentive policy?

- A voluntary program that provides a density bonus in exchange for improved environmental building performance, such as:
 - Net zero construction ahead of the requirements set forth by the Net Zero Action Plan
 - Net positive construction after net zero construction is required
 - District energy
 - Resiliency measures



Cambridge's 2015 Getting to Net Zero Framework is an action plan to get all buildings to net zero GHG emissions by mid-century.

Туре:	Municipal	Small Residential (1-4 units)	Multifamily	Commercial	Institutional	Laboratory
Target Year:	2020	2022	2025	2025	2025	2030

Current Net Zero Action Plan requirements by use:

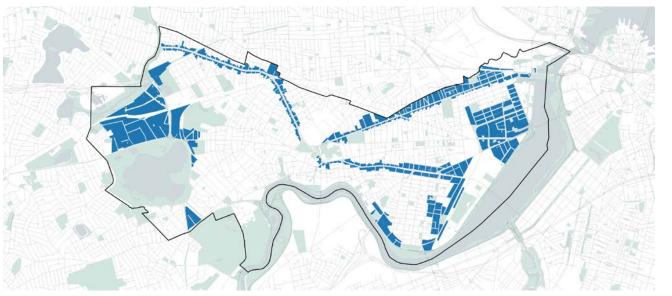
Why study an environmental performance incentive program?

Advances Envision Cambridge shared community goals:

- Prepare for impacts of climate change
- Accelerate net zero adoption
- Reduce building energy consumption
- Transition away from fossil fuels

What would the Environmental Performance Incentive entail?

- The incentive would require adoption of net zero construction for new buildings in the years before net zero is mandated, net positive construction after the mandates go into effect, or other measures that would increase environmental performance at a large scale.
- Limited to areas with the highest likelihood of change (not available in traditional residential neighborhoods).

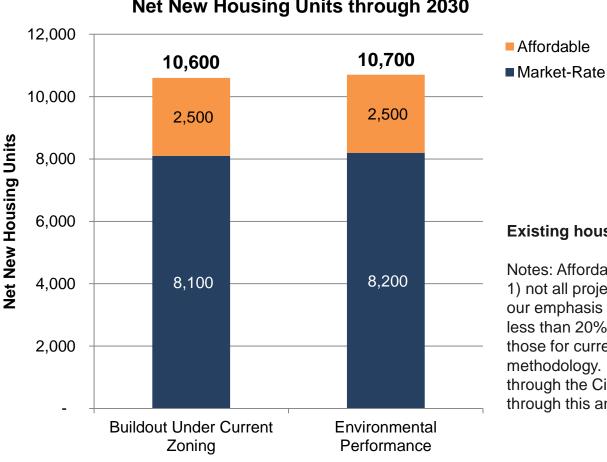


The Environmental Performance Incentive was tested along corridors and in areas of potential change.

Environmental Performance Incentive Policy: Testing

- This analysis tested a version of a Environmental Performance Incentive bonus that offers a bonus to both residential and nonresidential development
- Additional allowable density under this bonus:
 - Residential: 10%
 - Commercial: 15%
- Adoption of the bonus is assumed to be:
 - Residential: 70%
 - Commercial:
 - 40% in areas with higher density
 - 80% in areas with lower density

Comparison of Potential Housing Production – Environmental **Performance Incentive**

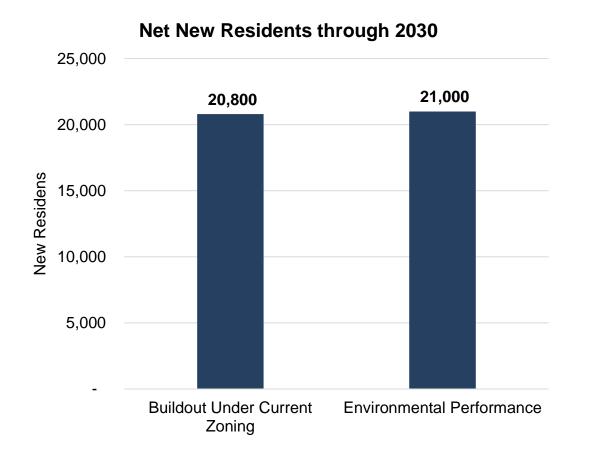


Net New Housing Units through 2030

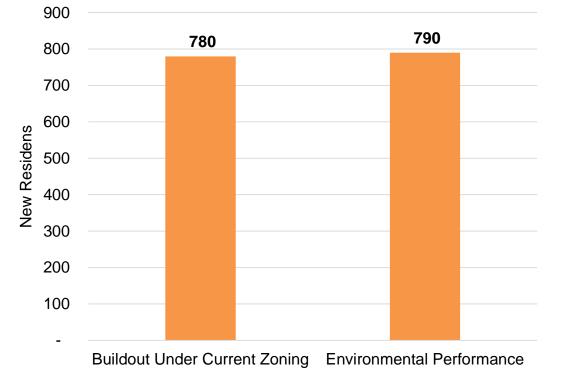
Existing housing stock: approximately 53,000 units

Notes: Affordable percentage for non-pipeline projects is assumed at 17.5% since 1) not all projects trigger IZ and 2) the IZ is 20% of square footage, not units. Given our emphasis on family sized units, the percentage of affordable units is likely to be less than 20% of total new housing units. All figures are rounded. Figures, including those for current zoning, will vary from past estimates due to changes in methodology. Figures include estimated affordable development that is funded through the City, in addition to the market and affordable development projected through this analysis.

Comparison of Potential New Residents and Public School Students

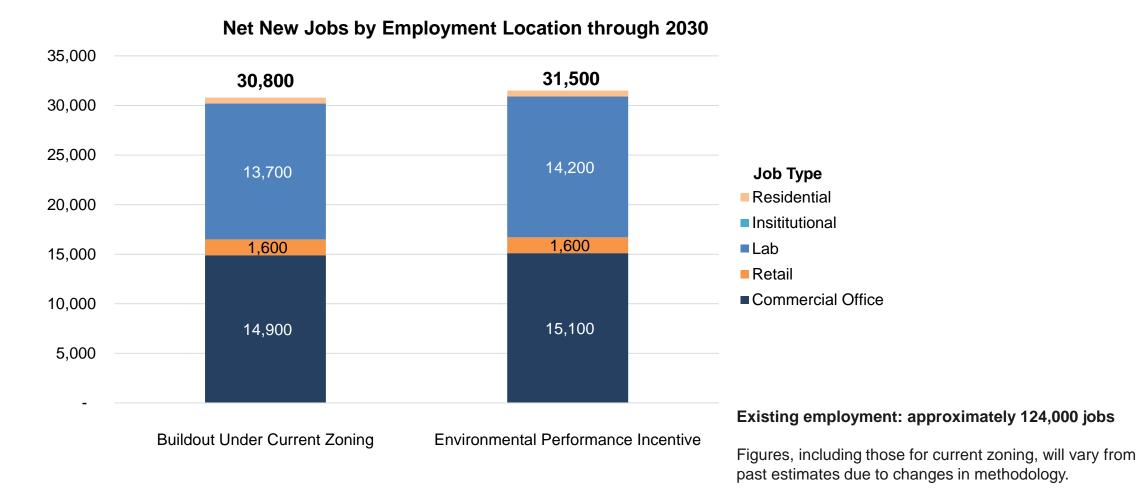


Net New Public School Students through 2030

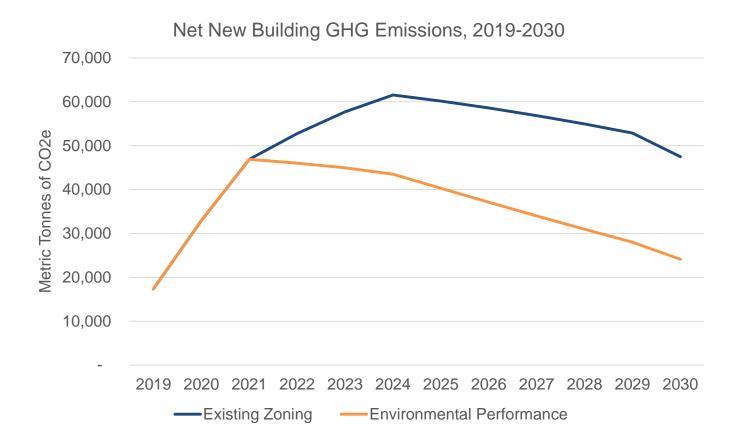


Figures, including those for current zoning, will vary from past estimates due to changes in methodology.

Comparison of Potential New Jobs – Environmental Performance Incentive



Comparison of GHG Emissions – Environmental Performance



Existing Building Emissions: approx. 1 million tonnes

Figures assume individual electrification of buildings (using Cambridge's Low Carbon Energy Supply Strategy scenario 1), improvements in the electric grid, and the energy use intensity targets called for in the Net Zero Action Plan. Figures show GHG emissions from operations.

Comparison of Urban Form Impacts

- The additional density needed for the environmental performance incentive could be accommodated with little impact on urban form at many sites, **when compared to existing zoning**.
- Where dimensional constraints (like maximum height rules) already limit the adoption of allowed density, any environmental performance incentive would need relief from those rules to be viable.

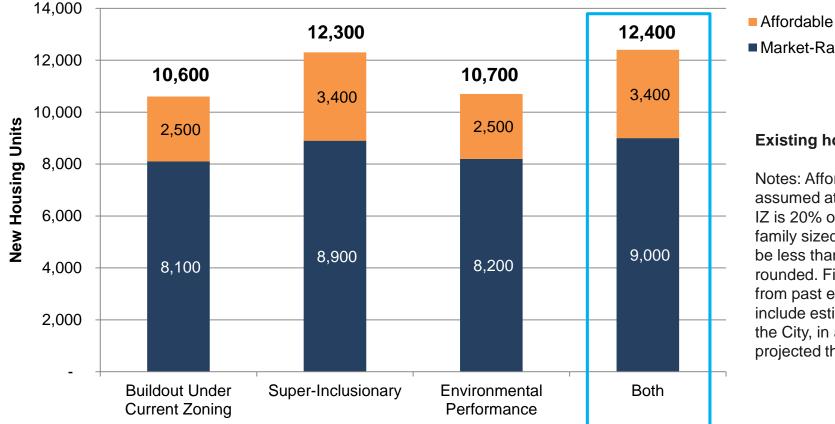
Combined Super-Inclusionary Program and Environmental Performance Incentive

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Comparison of Potential Housing Production – Super-Inclusionary plus Environmental Performance



Net New Housing Units through 2030

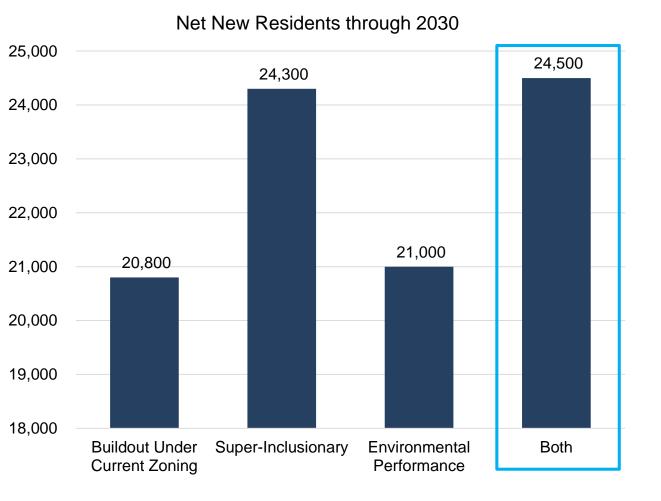
Market-Rate

Existing housing stock: approximately 53.000 units

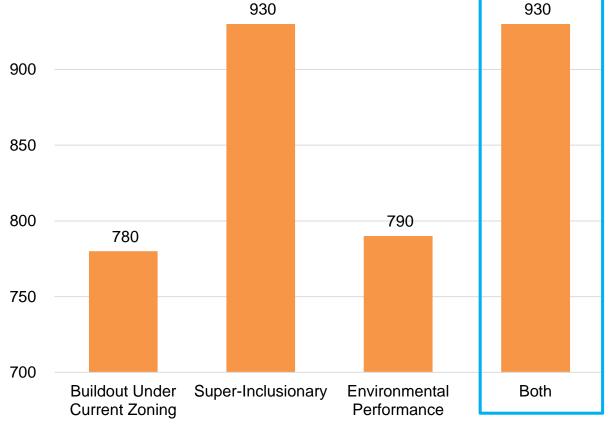
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Comparison of Potential New Residents and Public School Students

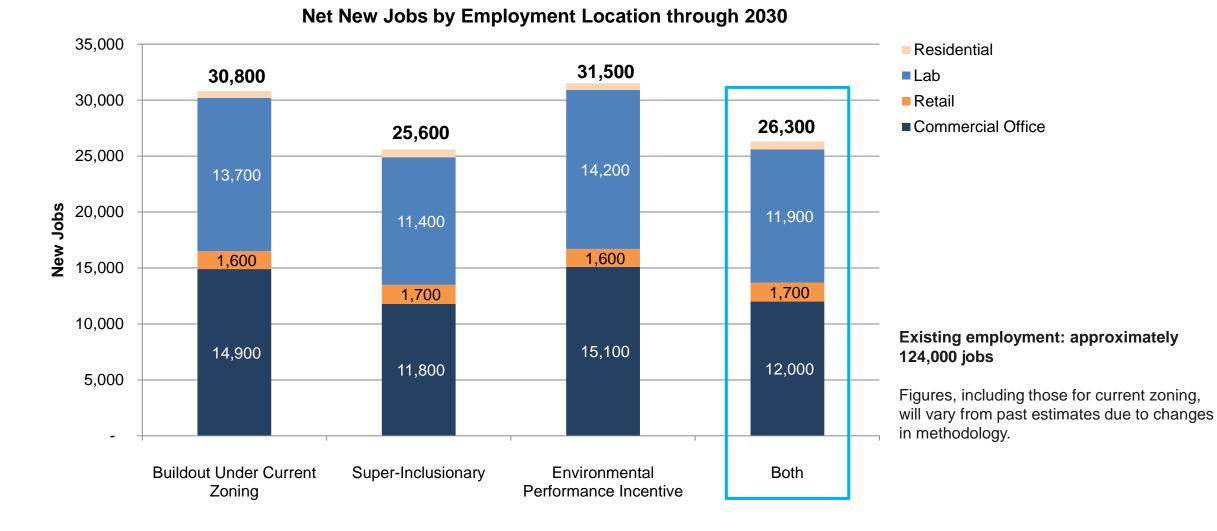
950



Net New Public School Students through 2030

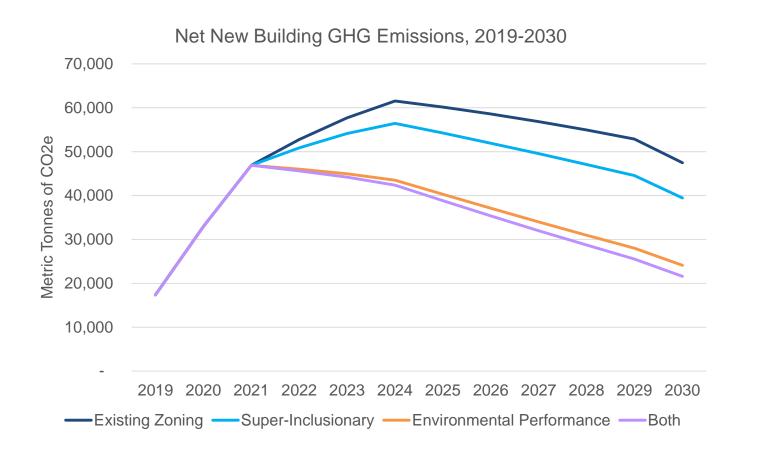


Comparison of Potential New Jobs



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Comparison of GHG Emissions



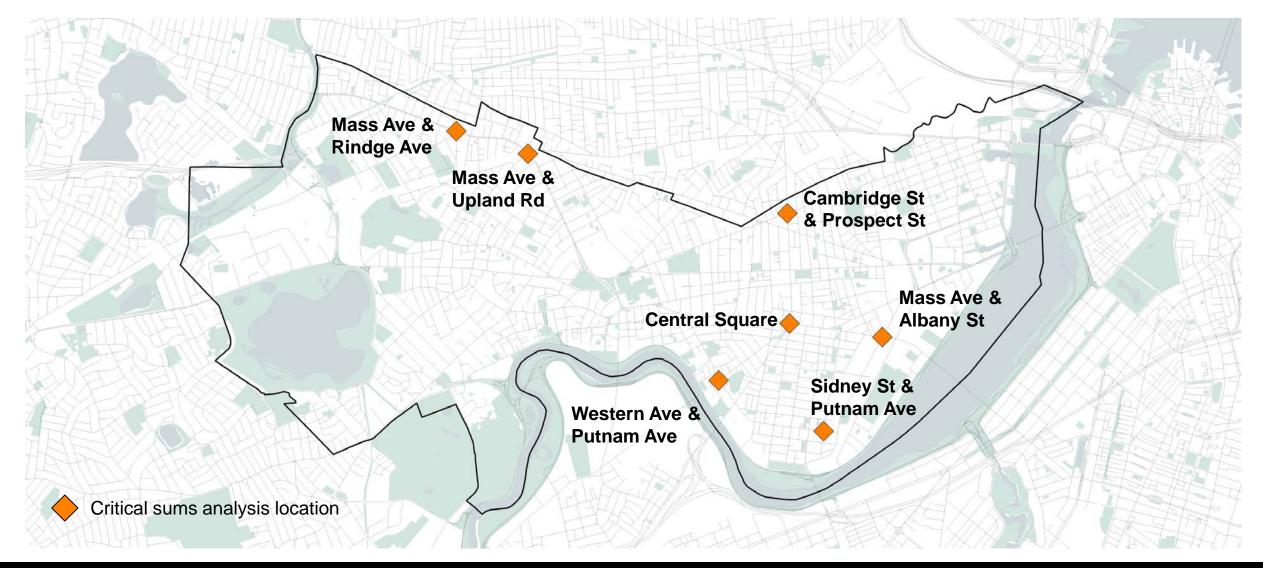
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Comparison of Urban Form Impacts

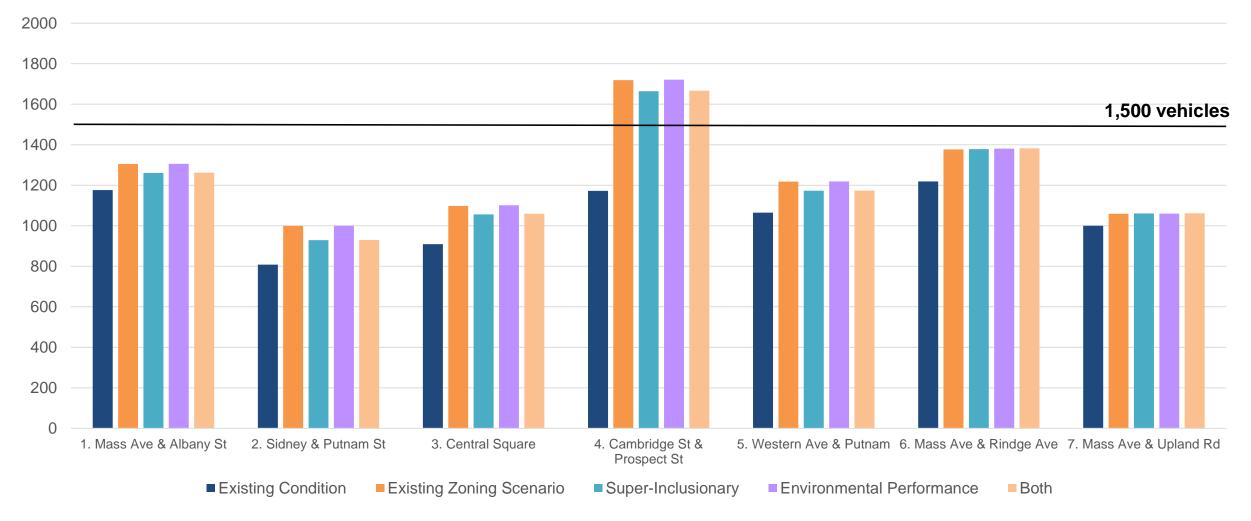
- The additional density needed for the environmental performance incentive **in addition to a superinclusionary policy** could be accommodated with little impact on urban form at many sites, **when compared to super-inclusionary**.
- Where dimensional constraints (like maximum height rules) already limit the adoption of allowed density, any environmental performance incentive would need relief from those rules to be viable.

Mobility Comparison: Critical Sums at Key Intersections



Mobility Comparison: Critical Sums at Key Intersections

1500 vehicles is the threshold for critical sums intersection failure.



Includes Single-Occupancy and High-Occupancy Vehicles

Mobility Comparison: Critical Sums at Key Intersections

- Cambridge St & Prospect St is the only intersection to exceed critical sums thresholds in buildout scenarios
- This is largely a result of development in Kendall Square and East Cambridge subareas, much of which is already in the pipeline

Small Group Discussions

