Town Gown Report 2018

Presentation to the Planning Board
February 5, 2019
Highlights

Israel Ruiz
MIT.nano

• Historic commitment to research at MIT
• State-of-the-art facility that will serve over 2,000 MIT faculty and researchers
• Located in the campus core, the building was completed in June 2018
MIT Stephen A. Schwarzman $ College of Computing $

- An interdisciplinary hub for work in computer science, artificial intelligence, data science and related fields
- Vassar Street site promotes connectivity to MIT campus
- Building design expected to begin in early 2019
The Engine

• A home for Tough Tech founders
• The Engine provides capital, labs, equipment, tools, space, and connections
• Building the next generation of world-changing companies
Campus Planning (Jon Alvarez)
Housing

Vassar Street Residence

70 Amherst Street

Kendall Square Site 4

Volpe Development

Kendall Square One Broadway Residence
Streetscape & Open Space

~2,300 trees on campus

100+ trees added in North Corridor this year
North Corridor &

- 65,000 sf landscape filter added
- 56,200 gal. stormwater storage (flood mitigation)
- 70% reduction in phosphorus
- 1.0% lbs runoff
- 100% treatment of 2-year storm (0.3")
- 40% reduction of peak rate and volume

- 20,500 sf tree canopy coverage added
- 418 linear feet of benches added
- 172 bike parking spots provided

- 49 parking spots removed from campus core
- Lighter color pavement installed to reduce heat island effect

- 1.5 acres treated by landscape filters
Vassar Street
Current Projects

Central Utility Plant Expansion

Metropolitan Warehouse Renovation

New Music Building
Sustainability & Resiliency

Julie Newman
Scales of Impact

- Individual
- Campus
- City
- Globe
Sustainability, Climate, & Food Landscape at MIT,
Consumption in a material world and @ MIT
Climate Resiliency: Modeling to Planning

A Plan for Action on Climate Change

October 21, 2015

A joint statement

President L. Rafael Reif
Provost Martin Schmidt, SM '85, PhD '88
Vice President for Research Maria Zuber
Chancellor Cynthia Barnhart, SM '89, PhD '98
Executive Vice President & Treasurer信小刚微, SM '11

Preliminary Flood Model Mapping - 2018 100yr. Storm
Scales of Impact: Renewable energy growth

Summit Farms

2016

Fast following organizations

Examples

- Arizona State University
- Boston University
- Brown University
- Elizabeth City State University
- Envision Charlotte
- Green Health Exchange
- Green Sports Alliance
- Johns Hopkins
- New York State Schools and Agencies
- Northern Virginia Regional Commission
- University of North Carolina System
- Washington University
- Temple University
- Vanderbilt University
Food Systems & Sustainability  

<table>
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<tr>
<th>5 Focus Areas for Campus Transformation</th>
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<td><strong>Access to affordable, sustainable, and culturally meaningful food</strong> and empowerment to make informed choices.</td>
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<td><strong>Standards for food vendors</strong> according to shared environmental, economic, and socially just standards.</td>
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<td><strong>Comprehensive waste reduction strategies</strong> within the MIT food system.</td>
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<td><strong>Vibrant indoor and outdoor spaces</strong> on campus that foster strong social connections and incorporate localized production of food.</td>
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<td><strong>Innovation and experimentation</strong> to create a model campus food system of the future.</td>
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Pathway to Sustainability Leadership by MIT

INCUBATION, TRANSFORMATION, AND MOBILIZATION

Campus Sustainability Task Force, 2019
Massachusetts Institute of Technology

Exemplar
Model
Generator
Innovator
Thoughtful partner
Kendall Square'

Steve Marsh
Ecosystem Opportunities

- Innovation Space
- R&D Capacity
- Open Space
- Programming
- Sustainability
- Housing
- Connections
- Retail
Kendall Square Construction

• Construction is progressing on the underground garage and Sites 4 and Site 5
• Site 4 will house 450+ graduate students *
• Site 5 will be home to the MIT Museum and innovation tenants like Boeing
Kendall/Volpe Community Contributions To-Date

$7.0 million in community fund payments

$1.7 million for public “Kendall WiFi” in the Square, Newtowne Court, and Washington Elms

$1.0 million for Grand Junction multi-use path

$500,000 for the community center design

$230,000 for community event programming

$180,000 for Blue Bikes
Staying Connected with the Community

Volpe Block Party

Hubweek/Site 5 groundbreaking
Volpe Community Benefit Commitments &

$25.5 million for a community center $
$8.5 million to community fund for nonprofits $
$8.5 million for transit improvements $
$8.5 million for Grand Junction multi-use path $
$1.5 million to support the job connector program $
$1.0 million for an innovation arts program $
280 affordable residential units valued at $ approximately $140 million %
20 middle-income residential units value at $ approximately $6 million %
New DOT Volpe Facility

Volpe conceptual massing – 2017 & Volpe proposed massing – 2019
New DOT Volpe Facility

Site Plan

East Façade facing public walkway
New DOT Volpe Facility $
New DOT Volpe Facility

Landscape Art by Maya Lin

View from Binney Street
Historic Renovation

Renovation of historic buildings will continue to activate the Main Street corridor.

139 Main St. 750 Main St. $
Educational Initiatives
Sarah Gallop
MIT Impact Scholarships $10,000

- $10,000 scholarship to help defray college costs
- Now in its 2\textsuperscript{nd} year, 20 Cambridge residents are putting MIT’s scholarships to work
- Ten new scholarships are awarded each year
- Criteria: personal impact in the community
Pathways to Invention
Starting early at Fletcher-Maynard Academy ( 
Pathways to Invention
Continuing through middle school & beyond (}
K-12 Community Outreach

• New K-12 Community Outreach Administrator is a direct connection between Cambridge educators and MIT’s K-12 initiatives

• We look forward to growing collaborations and strengthening reciprocal partnerships to provide equitable access for youth to MIT programming