



2017 Town Gown Report



Massachusetts
Institute of
Technology

Presentation to the Planning Board
February 6, 2018

Scales of Impact



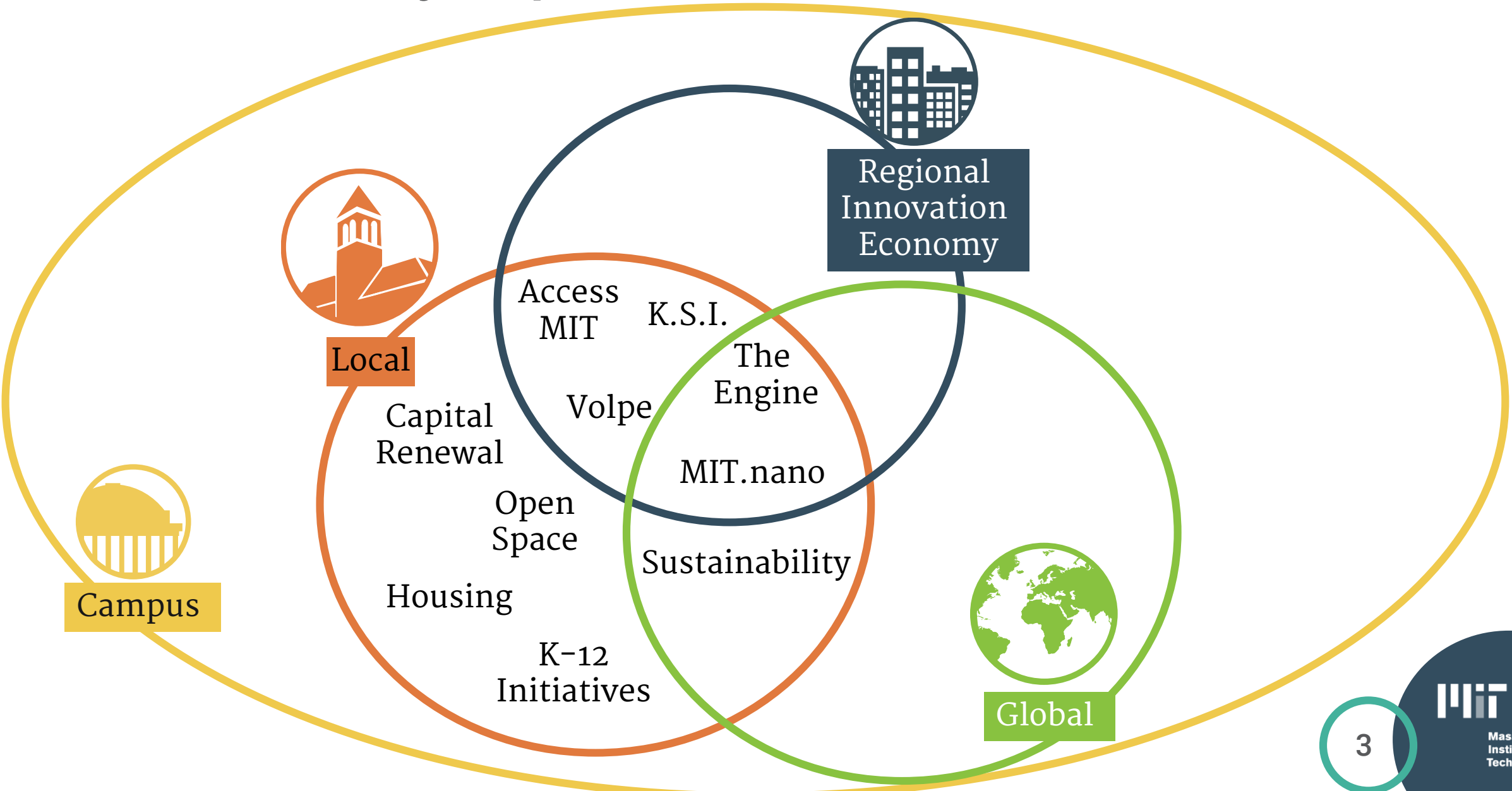
Campus
Serves the Institute's mission and leads to further scholarship

Local
Creates mutually beneficial interconnectivity between MIT and Cambridge.

Regional
Contributes to the region's innovation economy

Global
Facilitates the research and knowledge to address the world's great challenges.

Initiatives by Impact Area



MIT.nano



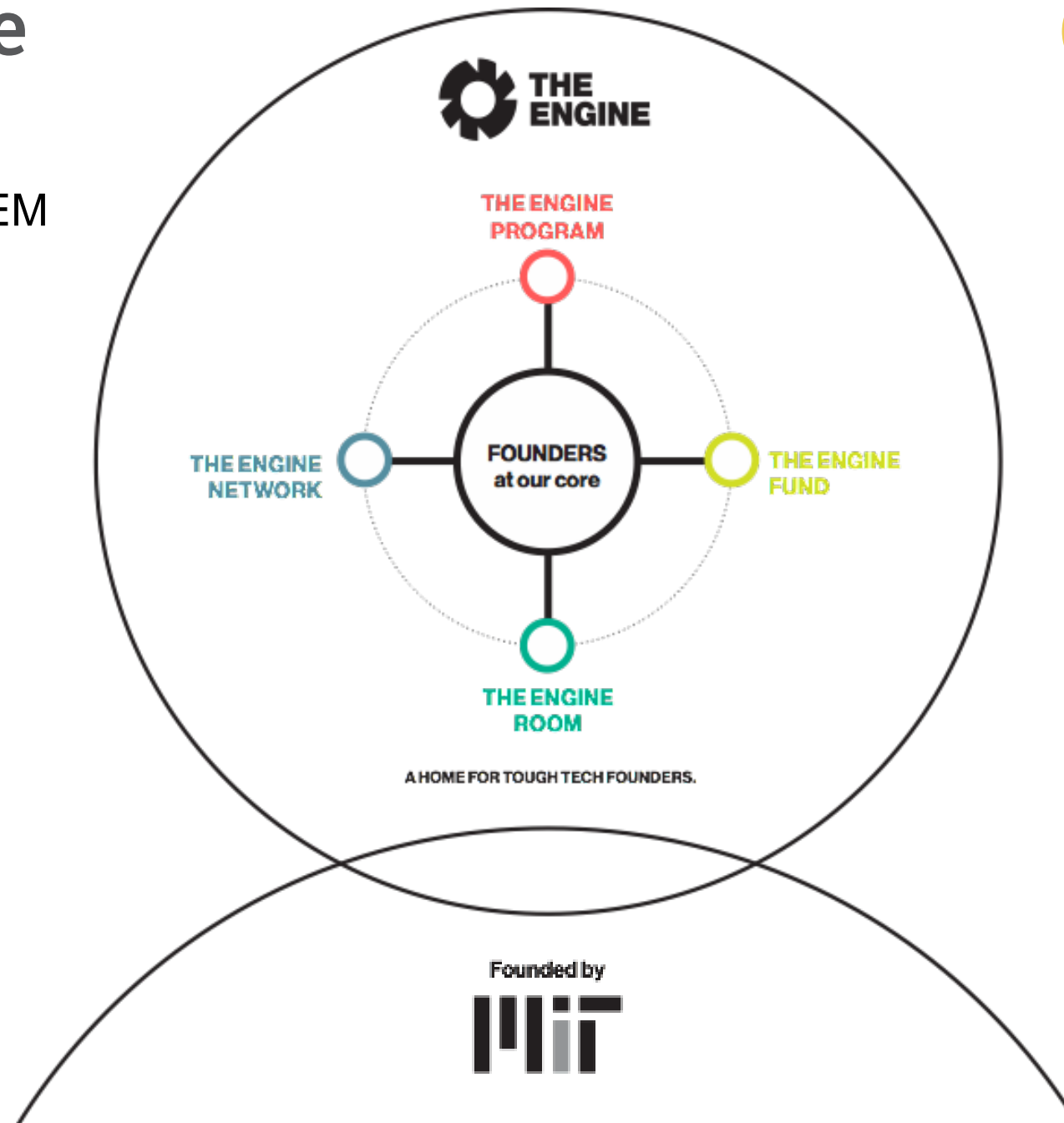
- Central facility for complex nano-scale instruments
- Research in health, energy, computing & more
- Project will be completed this year

The Engine

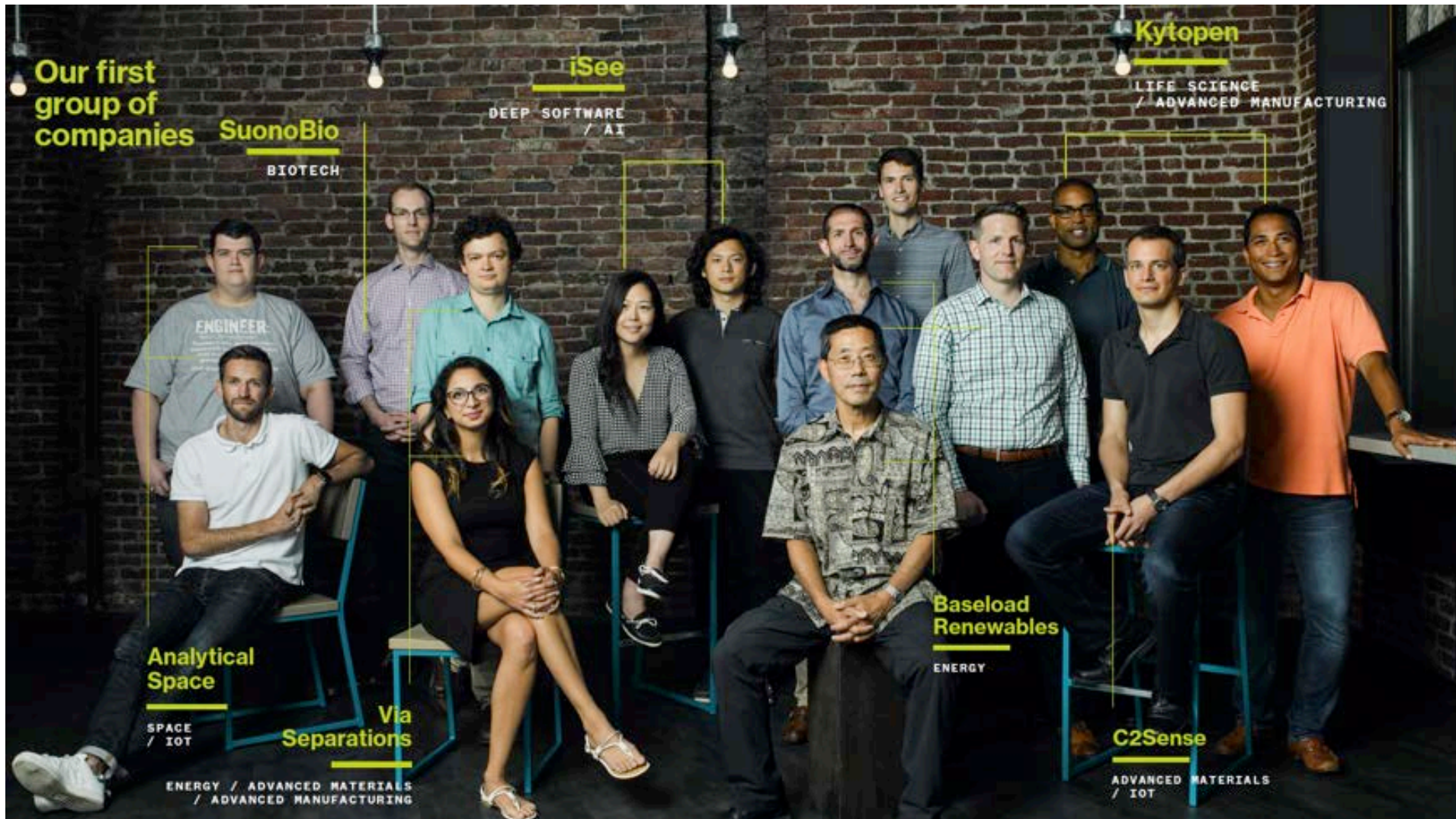


THE ENGINE'S SYSTEM

The Engine Fund, The Engine Network, The Engine Room, The Engine Programs—all to support founders working on tough tech problems. Built by and on the strong foundation of MIT.



The Engine



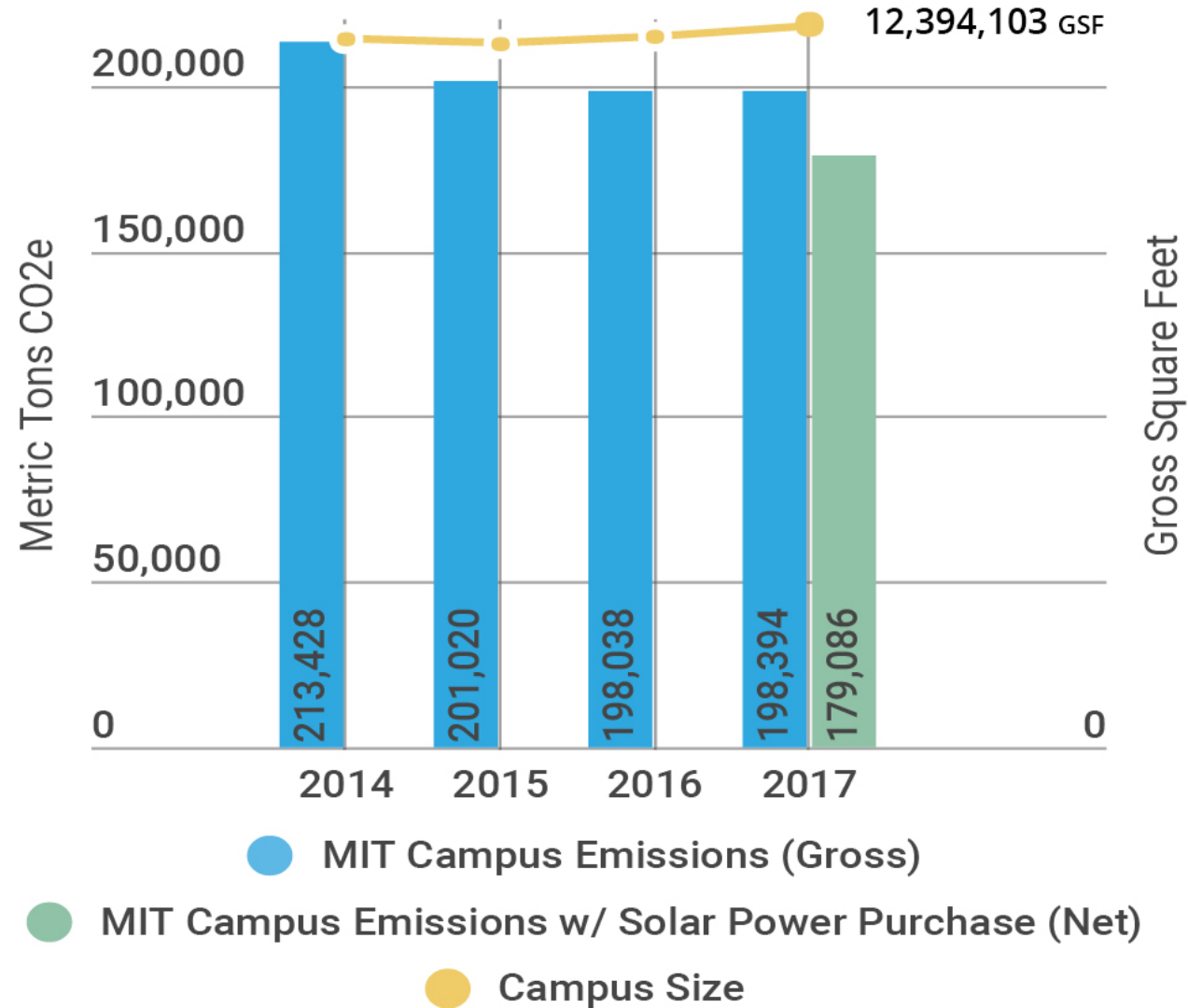


Sustainability

Julie Newman



Total Campus Emissions By Year





Layers of Climate Resilience: Interdependent Campus and City



COMMUNITY

23,000 people

A healthy and prepared community fulfills MIT's mission



BUILDINGS

140 + buildings

Where research, education and knowledge transfer happen



UTILITIES

15 + utilities

Protecting vital infrastructure (i.e. steam, electric, water, etc.)

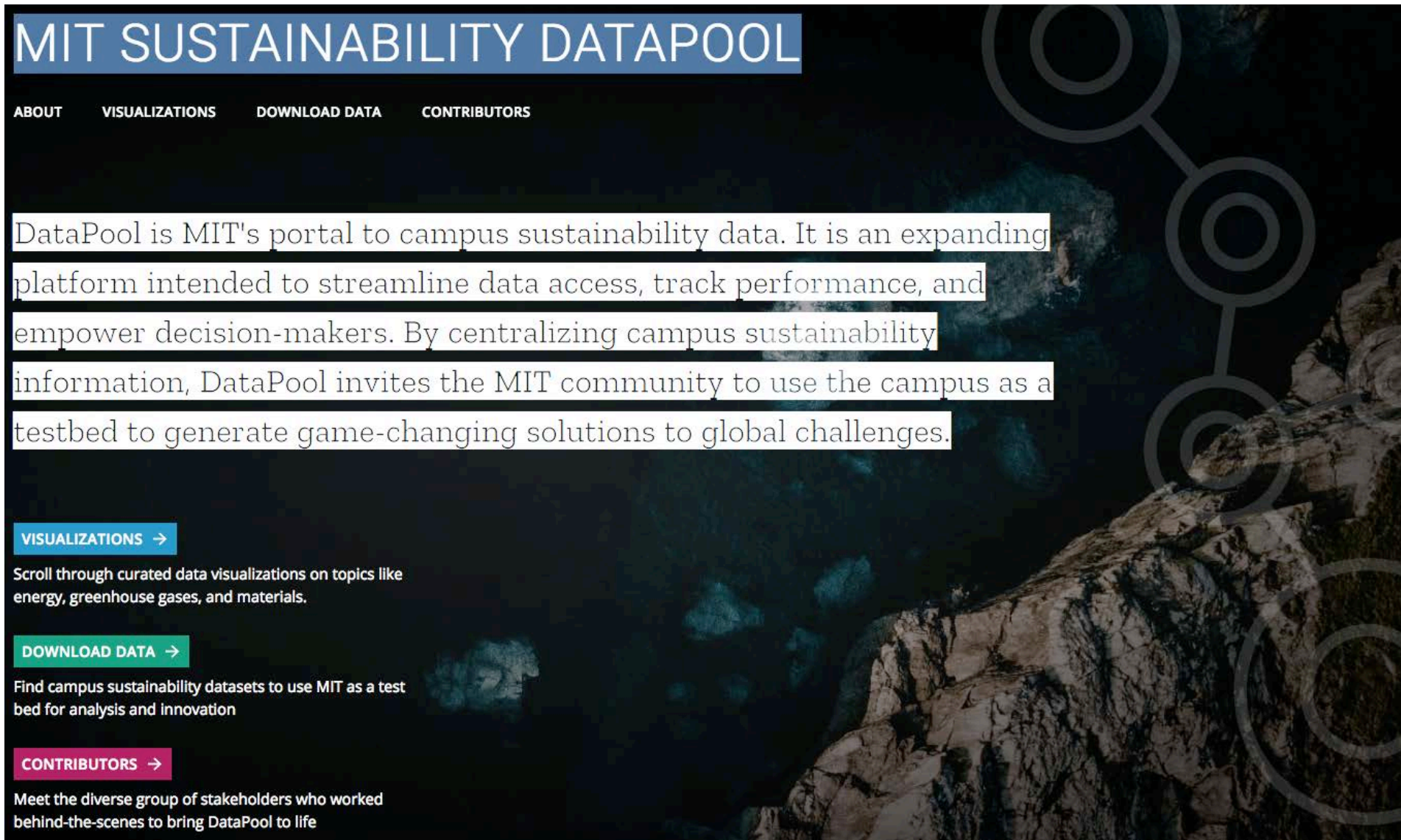


SITE SYSTEMS

166 acres

Capacity of soil and trees to absorb floods and mitigate heat

Seeking solutions and measuring impact across campus

The image shows a screenshot of the MIT Sustainability DataPool website. The background features a dark, abstract graphic with a network of circles and lines, overlaid on a landscape of rocky terrain and water. The website header includes the title 'MIT SUSTAINABILITY DATAPOOL' and navigation links for 'ABOUT', 'VISUALIZATIONS', 'DOWNLOAD DATA', and 'CONTRIBUTORS'. A main text block describes the platform's purpose. Below this are three highlighted sections: 'VISUALIZATIONS', 'DOWNLOAD DATA', and 'CONTRIBUTORS', each with a brief description and a right-pointing arrow.

MIT SUSTAINABILITY DATAPOOL

[ABOUT](#) [VISUALIZATIONS](#) [DOWNLOAD DATA](#) [CONTRIBUTORS](#)

DataPool is MIT's portal to campus sustainability data. It is an expanding platform intended to streamline data access, track performance, and empower decision-makers. By centralizing campus sustainability information, DataPool invites the MIT community to use the campus as a testbed to generate game-changing solutions to global challenges.

VISUALIZATIONS →
Scroll through curated data visualizations on topics like energy, greenhouse gases, and materials.

DOWNLOAD DATA →
Find campus sustainability datasets to use MIT as a test bed for analysis and innovation

CONTRIBUTORS →
Meet the diverse group of stakeholders who worked behind-the-scenes to bring DataPool to life



I'm in climate action mode

John Sterman is a professor who not only teaches about system dynamics and sustainability—he sees them in action, every day. He's committed to a healthy, low-carbon commute so he bikes to work rain, snow, or shine. Because driving less makes a big difference to our campus, community, and the planet.

Your commute counts. Switch it up.
web.mit.edu/accessmit

John Sterman

*Jay W. Forrester Professor of Management,
MIT Sloan School of Management*



accessMIT



Kendall Square

Steve Marsh

Innovation Catalysts



- Opportunity to strengthen unique mixed-use district
- Creation of vibrant connections and sense of place
- Space for housing that brings life and vitality to the area
- Industry and academia collaboration to advance science
- Solutions for global challenges



Volpe



Open Space
Approx. 2.5 acres



Residential
1,400 units, including:
280 affordable
20 middle income



Commercial
1.7 million SF



Retail & Active Uses
65% of ground floor on
main streets

Kendall Square Initiative



Open Space
Over 1.8 Acres



Residential
450 Graduate & 290 Other



Commercial
880,000 SF



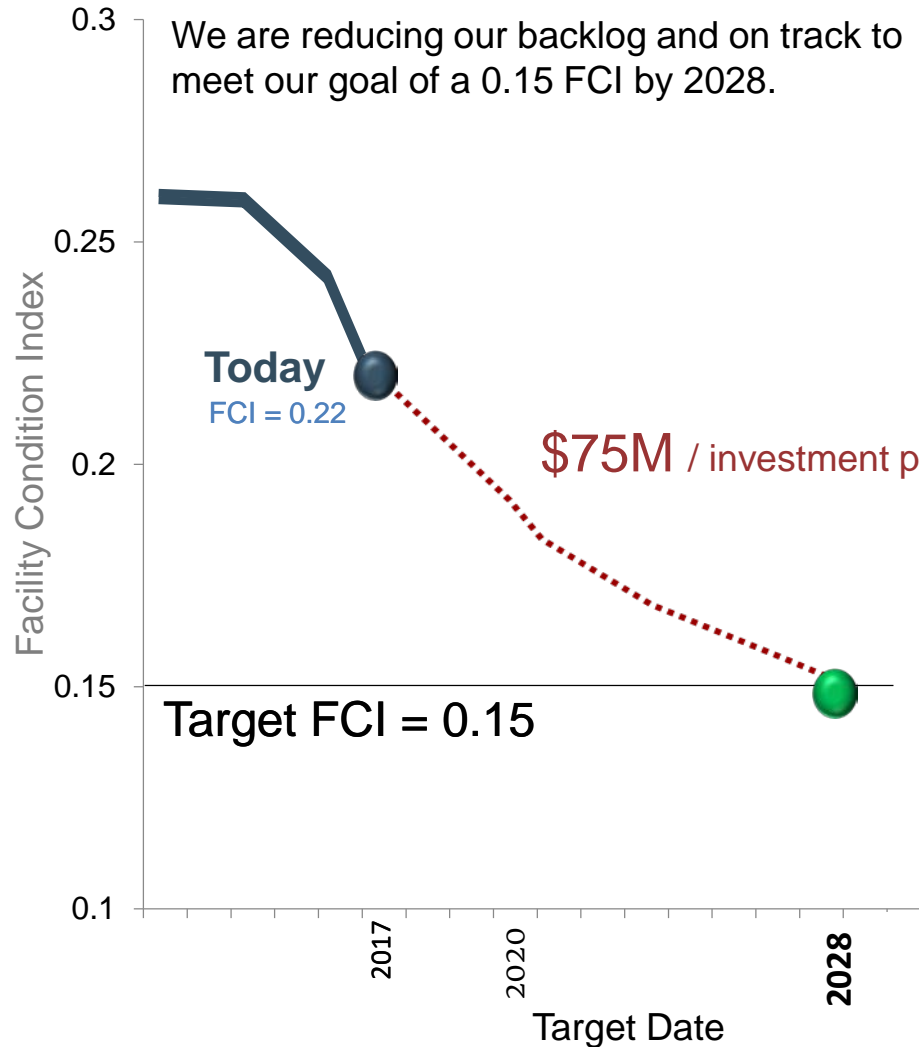
Retail & Active Uses
115,000 SF



Campus Planning

Jon Alvarez

Capital Renewal Funding



Early Program FY12-16

Focus on **safety, code compliance**, and priority systems, i.e., leaking roofs, loose masonry, non-functional mechanical systems, antiquated fire protection systems.



Focus for FY18

- **Space transformation** in priority buildings
- **GHG emissions reduction** opportunities
- **Cost savings** from energy and operations
- **Research resiliency** and flexibility

After reaching the target in 2028

... \$90-100M / yr. to “keep-up”

2% of building replacement value for high priority mission enabling buildings*

1% Lower priority buildings

Major Renewal Projects



Housing



Vassar
Street
Residence



W70
Renovation



Kendall
Site 4
Grad Dorm



Educational Initiatives

Sarah Gallop

New Educational Initiatives



- MIT Impact Scholarship
 - First round awarded in 2017, second round spring 2018
- Pathways to Invention
 - Teaching invention to K-5 students at Fletcher Maynard Academy
- K-12 Outreach Administrator
 - Strengthening educational connections between MIT and the community



Questions?