MIT’s Innovation Ecosystem

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Kendall Square has been called the most innovative square mile in the world.

MIT is a destination for global innovation. It is an attractor of talent and ideas.

MIT is surrounded by companies creating the future.

Engaged in a culture of 24/7 idea exchange.
Massachusetts is most innovative state in the U.S.*

- High concentration of universities
  - 52 colleges and universities
  - 250,000 students
- World-class hospitals
  - Mecca of medicine
  - 20+ hospitals (MGH, BWH, Boston Children’s)
- Robust VC funding
- State/local government leadership

*Bloomberg State Innovation Index
MIT discovery is focused on practical impact, commercial value.

- Interdisciplinary research enhances problem-solving.
- Entrepreneurial ecosystem spurs innovation.
- Patenting/licensing speeds commercialization.
- MIT ranks first in industry R&D expenditures.
MIT discovery is focused on practical impact, commercial value

- MIT Energy Initiative
- Digital World/Digital Learning Digital Health
- Global Environment/Sustainability
- Quest for Intelligence
- Innovation Initiative
MIT filed more patents than any other single university

Each Year:

- 59 to 102 licenses
- 18 to 45 options
- 16 to 26 companies started on MIT IP
- Additional companies launch from other MIT activities
MIT R&D totaled $733 million in FY2018

Industry Sponsored R&D
$159 million (22%)
Accelerating Commercialization

- **Progress Toward Impact**
- **Transfer**
- **Progress Toward Impact**
- **Impact**

**MIT Startup Exchange**

**Industrial Liaison Program**
- MIT Faculty/Researchers
  - Academic theory, research orientation
- ILP Program Directors
  - Making shared value and language to facilitate interactions

**Participants from Industry**
- Practical know-how, profit-loss prudence, business orientation

**MIT Sandbox Innovation**

**Venture Mentoring**

**Martin Trust Center for Entrepreneurship**

**Technology Licensing Office**

**MIT Sanbox**

**Innovation**

**Cambridge Innovation Center (CIC)**

**The Engine**

**Office of Sponsored Programs**

**The Engine**

**Corporate Relations**
Build/manage productive partnerships at MIT

Programs customized to member needs

260 of world’s leading companies are ILP members

26% ILP members sponsor MIT research, accounting for 49% of all corporate research funding

MIT’s Industrial Liaison Program is industry’s chief gateway and guide to MIT.
Contribute to strategic planning, new business development

Examine emerging/disruptive research and technology

Learn of new management approaches to corporate issues

Engage with your key business clients at MIT

Executive Briefings provide a focused forum for company decision makers and key MIT faculty.
MIT Startup Exchange enables innovation through matchmaking.

- **260+** ILP Members “Global1000”
- **1700+** MIT-connected Startups
- **600+** Introductions each year
Trending Technologies

- AI/ML
- AR/VR
- 3D printing
- Autonomy
- Batteries
- Blockchain
- Big data/analytics
- Cybersecurity
- IoT/IIoT
- Synthetic Biology
- Sensing
- Robotics
- Renewables
- Polymers
- Life science
- Nano

1700+
Campus Interfaces to New Translational Entities

FIN (AFFOA Fabric Innovation Network)

Advanced Manufacturing Institutes (AMI) Industry Consortiums coupled with Federal and State funds

ILP supported consortium creation

New aggregation model for licensing existing background IP

THE ENGINE
Built by MIT

Efficiency: Ready to sign option agreements

New networks speed innovation, make possible the previously impossible, and enhance the probability and amplitude of impact.

Establishment of these interfaces requires significant resources for negotiation and management from the MIT campus.
Kendall Square Initiative

• $1.2 billion development plan
• 3 new buildings for research and development
• 2 new buildings for housing
• 1 building for retail and office space.

_Fostering interaction at a city scale._
Riding the wave of the Internet of Things, GE could make the region an epicenter for smart-connected products. It's important to be where we can attract the best talent and have truly joint research projects where we can live and breathe the atmosphere of a great innovation hub.

Henk van Houten, Global Head of Philips Research

When it comes to advancing innovation, the Boston area is one of the world’s most vital resources for a number of industries, especially health care.

Joseph Jimenez, Novartis CEO

15 of the world’s 20 largest biopharma firms have a presence in Massachusetts.

MA is ranked #1 Innovative State in US by Bloomberg

Boston is ranked #1 City in US for Innovation Hub by US Chamber of Commerce

Oracle

Takeda

Johnson & Johnson

Pfizer

Dai Nippon Sumitomo Pharma

NEC

Mitsubishi

Baxter

Amazon

Pfizer

Dai Nippon Sumitomo Pharma

Oracle

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NEC

Mitsubishi

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