

The Role of Intermediaries

Intermediary Management in the University

USIMP 2012
Sabanci University, Istanbul
June 21 - 22, 2012

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- Strategic perspective on academic-industry relations
- Strategic perspectives on university intermediaries
- MIT functional intermediaries:
 - *Outreach*
 - *Contracting/Legal*
 - *Licensing*
 - *Others*
- Summary



Why Industry Engages with Academia

- Identify new management practices
- Monitor emerging/cutting-edge technologies
- Gain insight from internationally-recognized experts
- Strengthen strategic decision-making
 - *development of new products and processes*
 - *implementation of innovative management practices*
 - *achievement of effective growth strategies*
- Discover new technologies through [proprietary] research collaborations
- Identify and access technology and expertise outside company's core competencies
- Technology transfer through licensing
- Recruit new employees
- Enhance technical and managerial skills through training



- Different missions
 - *Academia - education and advancement of knowledge*
 - *Industry - maximize returns to stakeholders/shareholders*
- Some common interests
 - *Global problems - opportunities and challenges*
 - *Knowledge transfer - both directions*
 - *Human resources - talent acquisition/talent development*
- The research complement
 - *Academic basic research “feeds” industry applied research and product development*
 - *Industry provides financial support*

The challenge for industry to understand





mens et manus is “mind and hand”

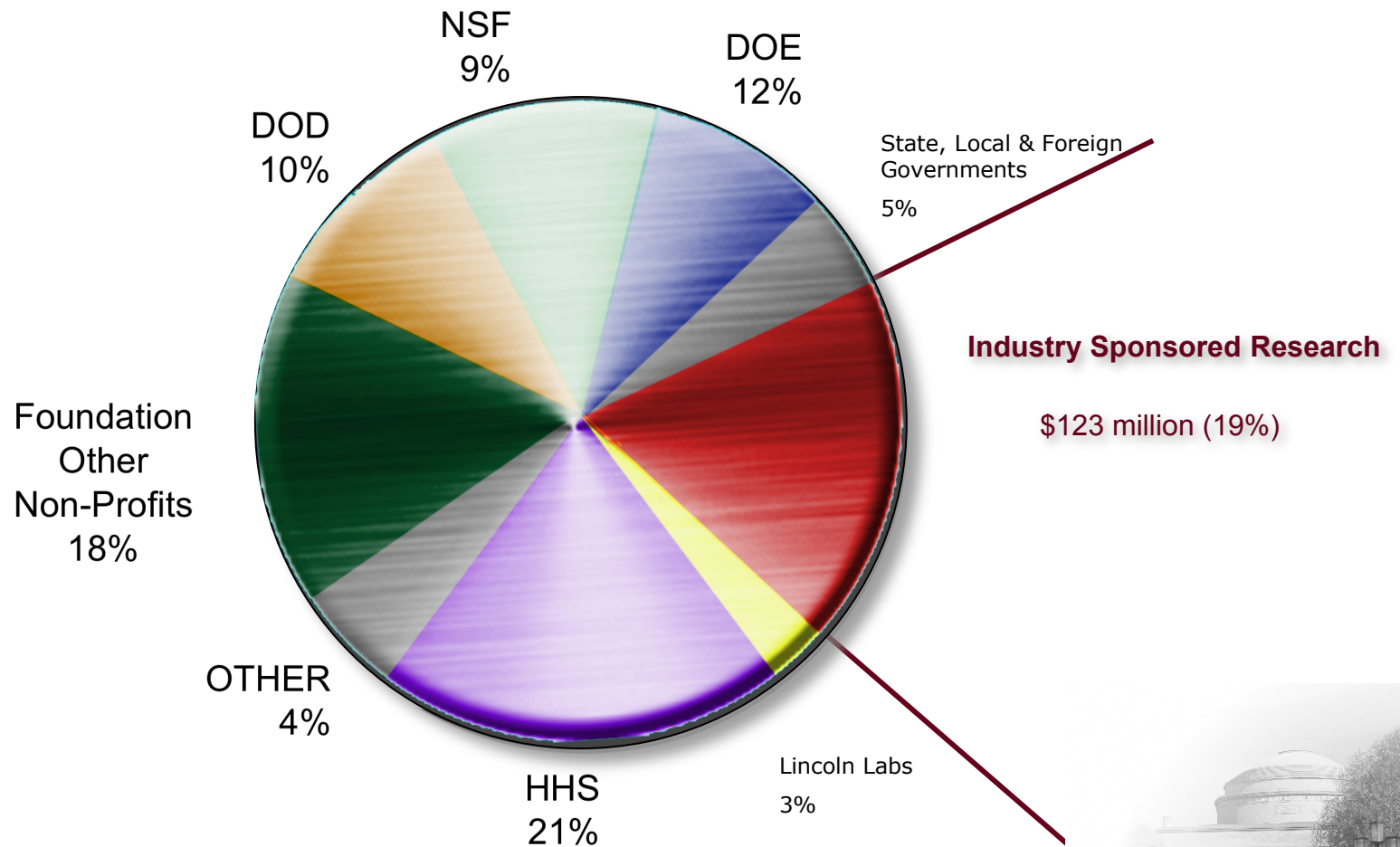
It is the culture of MIT, the faculty and students to have an impact on the world and to solve real-world problems

It is part of the academic mission of MIT and the faculty to forward the advancement of knowledge with research

It is part of the educational mission of MIT to use research in the education of students

A university culture for industry engagement



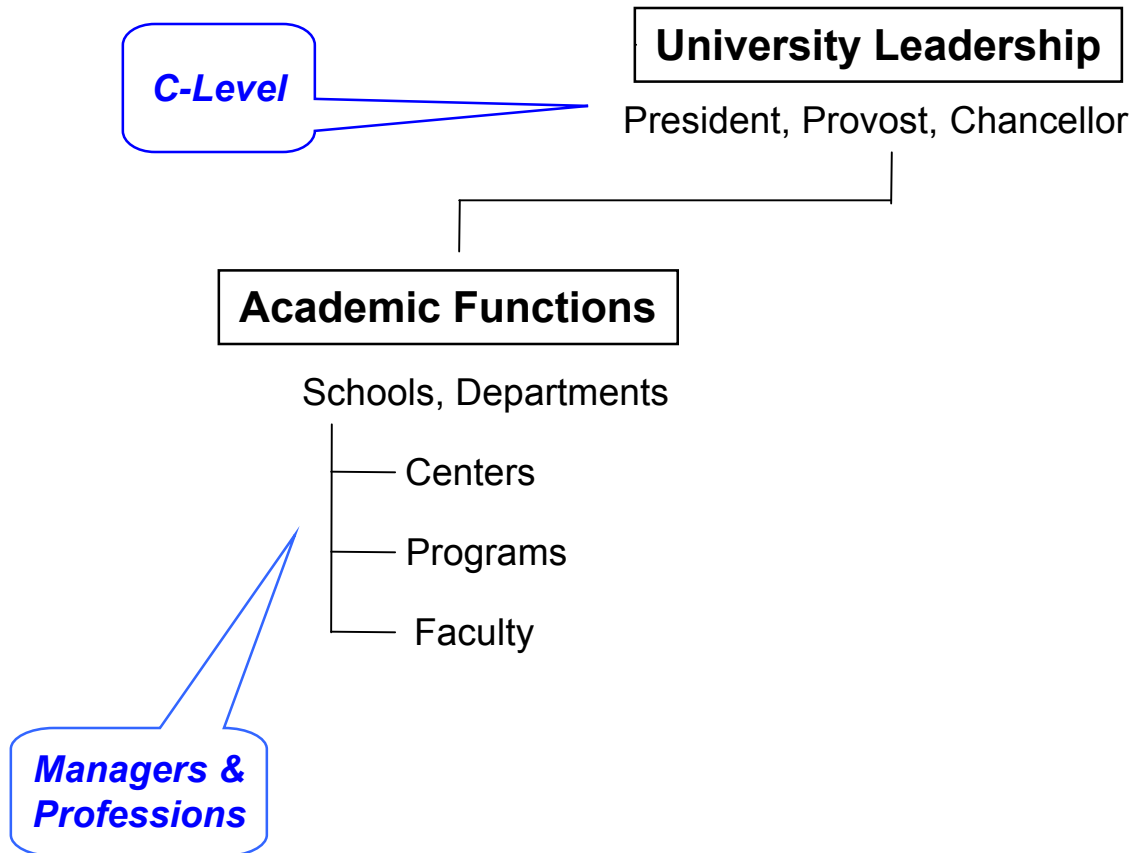
On-Campus R&D: \$661 million*

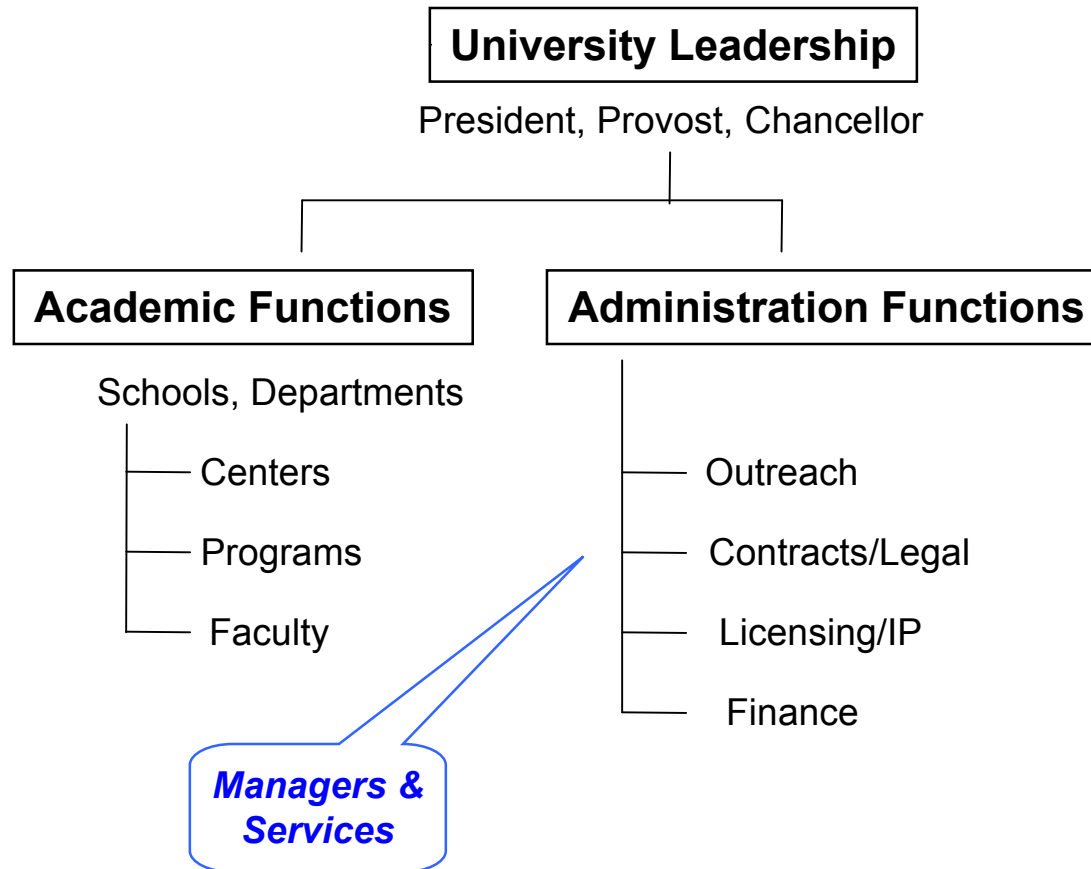
*FY 2011

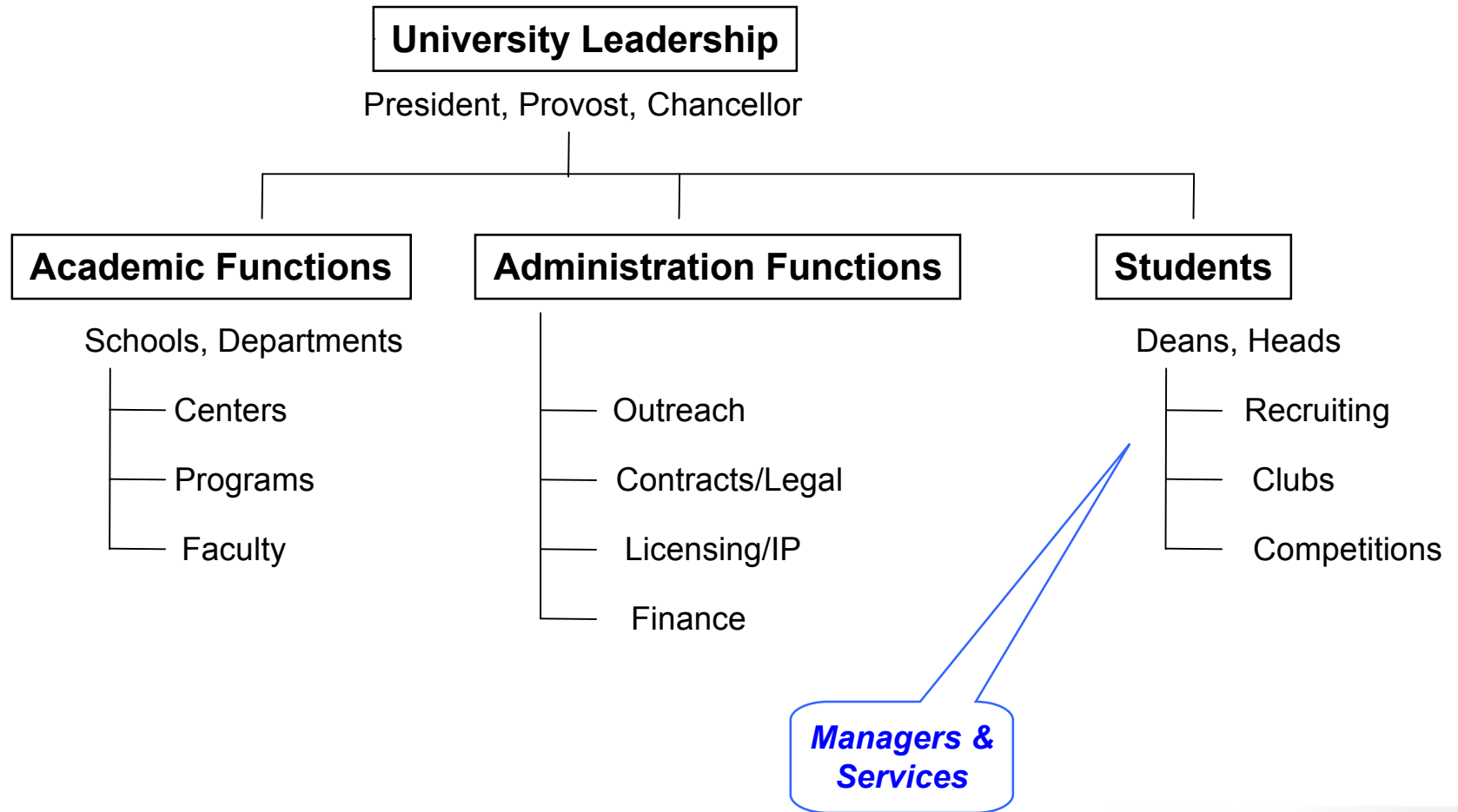


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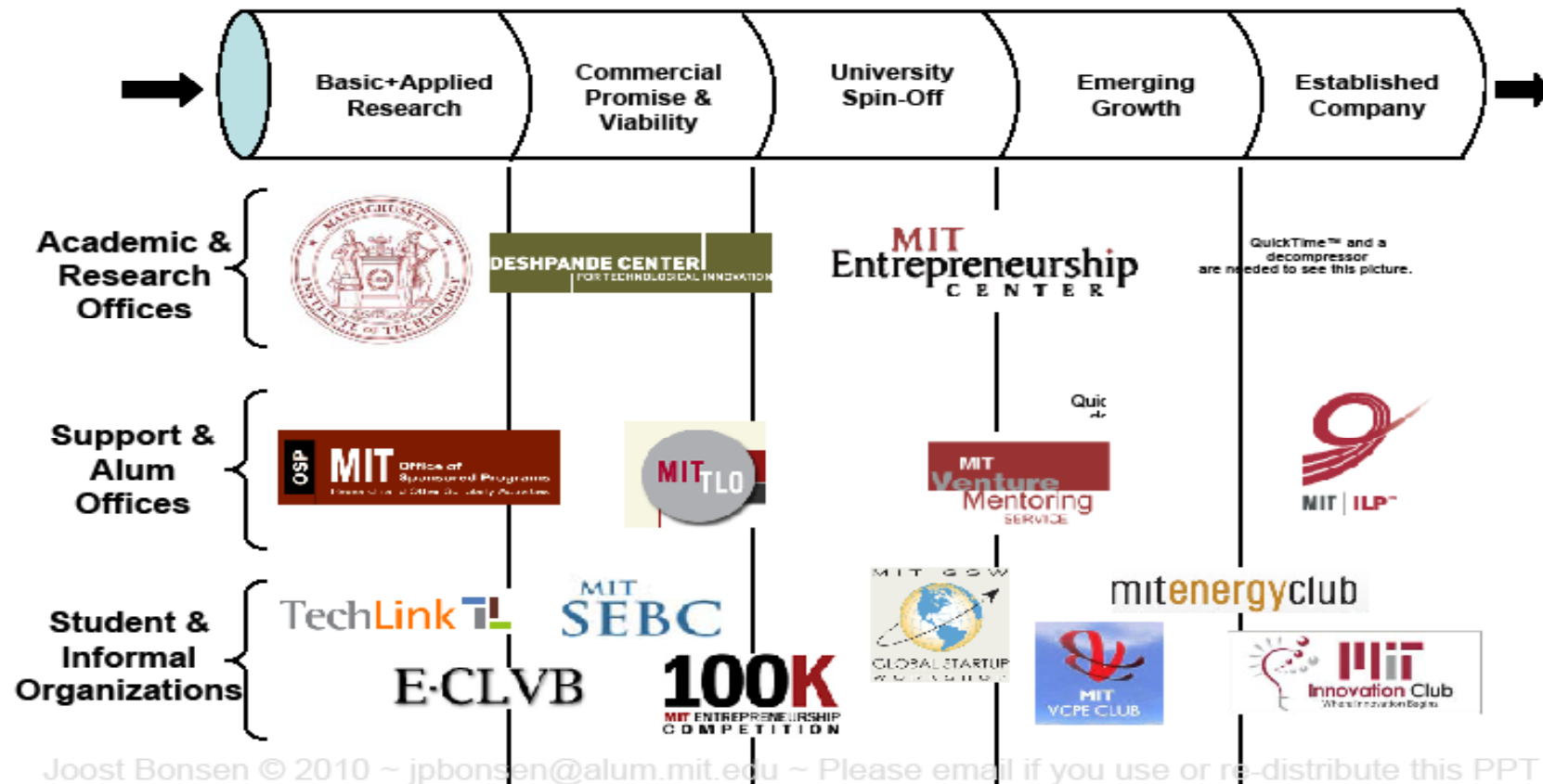


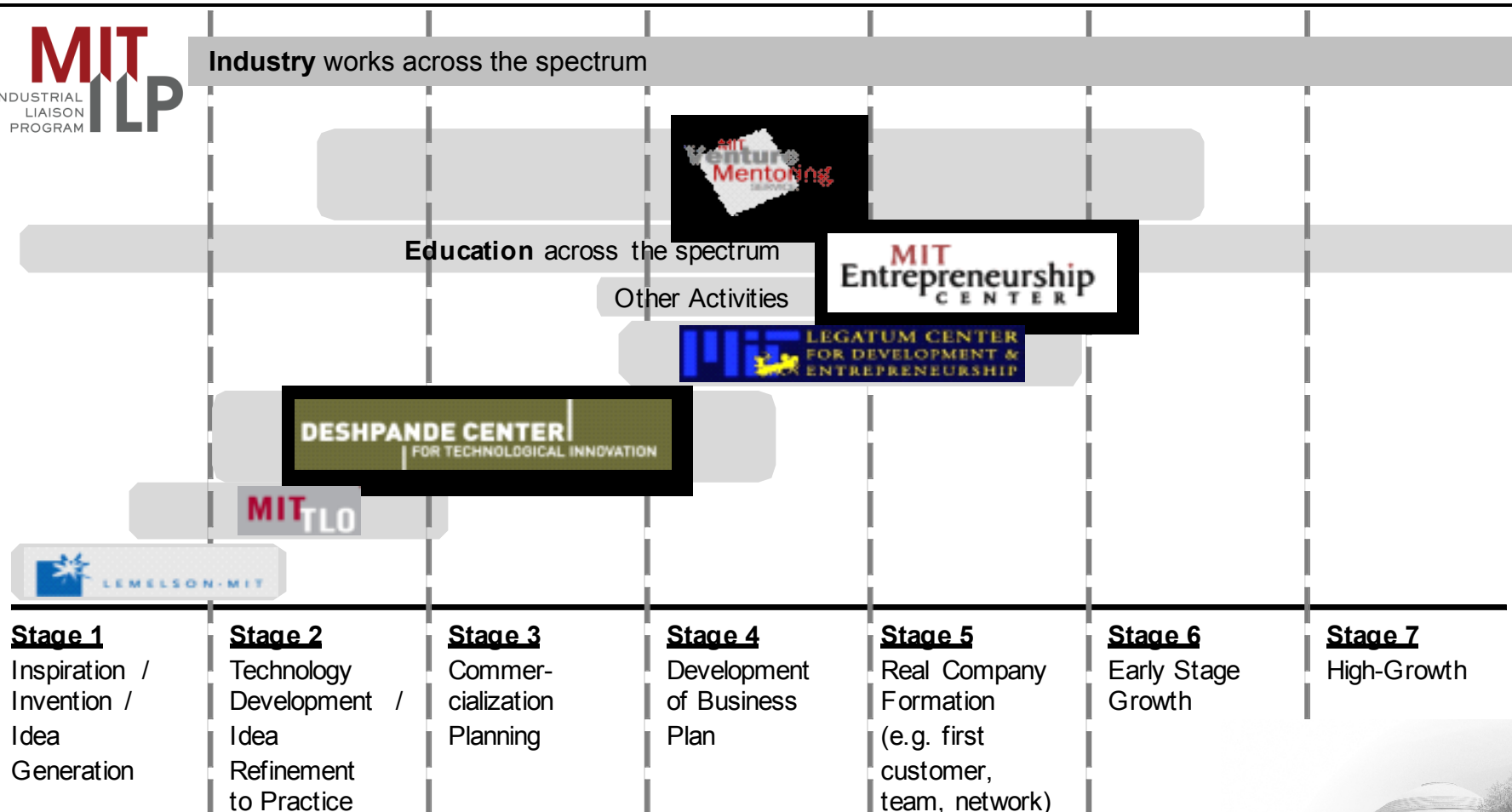


The university is decentralized



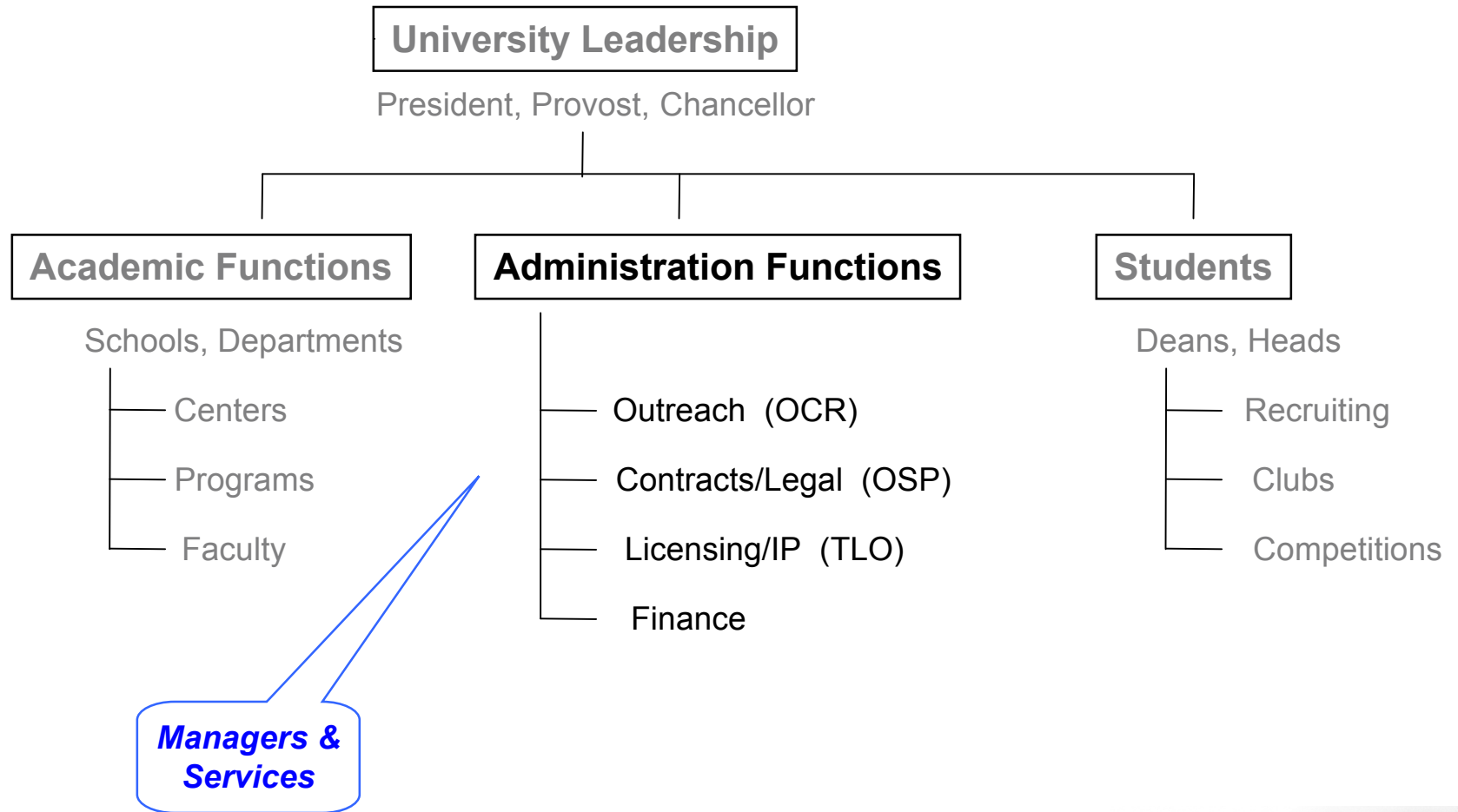
MIT Innovation Pipeline





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The university is decentralized



- Serves
 - *MIT leadership and faculty*
 - *Industry member partners (ILP)*
- Professional program and staff (45 people)
 - *Liaison Officers (20)*
 - *Conference management and marketing*
 - *Research and publications*
 - *Website and IT*
 - *Management processes, CRM*
- Self-funded business model
 - *ILP fee base*
 - *Distribution of incentives and profits to MIT community*

Not the only entry for industry to MIT

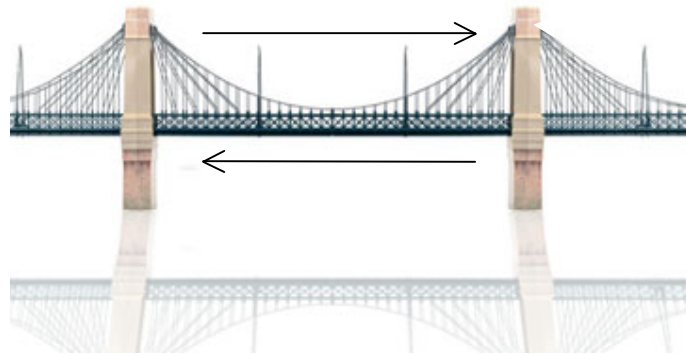


- The ILP is industry's chief gateway and guide to MIT

COMPANIES



ILP



MIT



- Provides expert counsel on building productive partnerships
- Develops customized, cost effective programs
 - *assess, address strategic research needs*
 - *facilitate faculty, researcher interactions*
 - *monitor emerging technologies and innovative management practices*



- Experienced Officer, custom workplan
- Executive research briefings
- On-campus meetings with faculty and research staff
- Faculty visits to company sites
- Symposia and conferences
- Customized research reports
- Member website
 - *KnowledgeBase*
- Publications
 - *ILP News Mosaic*
 - *Web reports and digital presentation archive*

A holistic and strategic approach



Tactical Best Practices*

THE SEVEN KEYS TO COLLABORATION SUCCESS

- 1. Define the project's strategic context as part of the selection process.**
 - Use your company research portfolio to determine collaboration opportunities.
 - Define specific collaboration outputs that can provide value to the company.
 - Identify internal users of this output at the working level; executive champions are not a substitute for this requirement.
- 2. Select boundary-spanning project managers with three key attributes:**
 - In-depth knowledge of the technology needs in the field
 - The inclination to network across functional and organizational boundaries
 - The ability to make connections between research and opportunities for product applications
- 3. Share with the university team the vision of how the collaboration can help the company.**
 - Select researchers who will understand company practices and technology goals.
 - Ensure that the university team appreciates the project's strategic context.
- 4. Invest in long-term relationships.**
 - Plan multiyear collaboration time frames.
 - Cultivate relationships with target university researchers, even if research is not directly supported.
- 5. Establish strong communication linkage with the university team.**
 - Conduct face-to-face meetings on a regular basis.
 - Develop an overall communication routine to supplement the meetings.
 - Encourage extended personnel exchange, both company to university and university to company.
- 6. Build broad awareness of the project within the company.**
 - Promote university team interactions with different functional areas within the company.
 - Promote feedback to the university team on project alignment with company needs.
- 7. Support the work internally both *during* the contract and *after*, until the research can be exploited.**
 - Provide appropriate internal support for technical and management oversight.
 - Include accountability for company uptake of research results as part of the project manager role.

* J. Pertuze, E. Calder, E. Greitzer, W. Lucas, "Best Practices for Industry-University Collaboration", MIT Sloan Management Review 51, no. 4 (Summer 2010): 83-90



- Serves
 - *MIT leadership and faculty*
 - *All external parties, public and private*
- Professional staff (55 people)
 - *Contracts Officers (25)*
 - *Information, data and cost analysis*
 - *Training and communications*
 - *Website and IT*
- Legal services is separate
 - *Internal, MIT Office of General Counsel (4)*
 - *External*
- Mission
 - *Administer all stages of research related funding and contracting with the MIT community and funding sources*



- Pre-proposal contracts
 - *Teaming agreements*
 - *Non-disclosure Agreements*
- Research contracts
 - *Sponsored research agreements*
 - *Fellowship agreements*
 - *Consortium agreements*
 - *Unfunded collaboration contracts*
 - *Industrial Alliance Agreements*
- Post-award
 - *Use of non-MIT facilities for MIT research*
 - *Inbound Equipment Loan Agreements*
 - *Research Data Use Agreements*
- Other
 - *Material Transfer Agreements*
 - *Academic Host Agreements*
- Sub-awards to research partners



- Serves
 - *MIT leadership and faculty*
 - *All external parties, public and private*
- Professional staff (35 people)
 - *Licensing Officers (15)*
 - *Patent administration and maintenance*
 - *Information and financial analysis and management*
 - *Website and IT*
- Mission
 - *Manage all aspects and stages of MIT intellectual property*
 - *Facilitate the transfer of MIT research results into society via technology licensing*
- Strategy is “Volume”
 - *Maximize the number of technologies, patents, and licenses (rather than pick winners)*





- Patent filing and administration
 - *Assess commercial potential with inventors*
 - *Strong and broad patent filing*
 - *Protect and defend*
- License for impact
 - *Understand licensee potential and plans*
 - *Balance MIT and licensee interests*
 - *Focus on impact vs. income*
 - *Maintain legal and academic integrity*
- License maintenance
 - *Monitor licensee performance*
 - *Support licensee efforts to attract investment*
 - *Evolve, amend agreements as appropriate*
- Support for start up companies
 - *Provide advise for licensing options*
 - *Provide networking with investors and entrepreneurs*



Volume (FY2011)

• Invention disclosures	632
• US patents filed	~2-300
• US patents issued	153
• Licenses & options granted	113
• Companies started with MIT IP	26

**Financials (FY2011)**

• Revenues	\$85M
• Royalties	\$70M
• Cashed-in equity	\$3.3M
• Total patent costs	\$17.6M



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Just begin, and make engagement a competency



Thank you

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MIT Office of Corporate Relations



THE CAMBRIDGE-AREA INNOVATION ECOSYSTEM

A sample of the rich resources available in the MIT Community and beyond.

EDUCATIONAL INSTITUTIONS

Harvard University
Boston University
Boston College
Northeastern University
Tufts University
Babson College
Brandeis University
University of Massachusetts
Worcester Polytechnic Institute

REGIONAL PUBLICATIONS

Mass High Tech
Boston Business Journal
Xconomy
Innovation Economy
column in the Boston Globe

ENTREPRENEURS/START-UP COMPANIES

Life Sciences/Biotech
Energy
Robotics
Internet/Web 2.0/Web 3.0
Gaming
Information & Communication Technologies

SERVICE PROVIDERS

Law Firms
Marketing and Publicity Services
Accountants and Part-Time CFOs
HR
Outsourced IT
Traditional Office Space
Incubators
Consultants

ENTREPRENEURSHIP SUPPORT

TIE Boston
128 Innovation Capital Group
Boston Entrepreneurs' Network

CORPORATE R&D LABS

Microsoft
Google
Mitsubishi Electric
Novartis
Pfizer
Schlumberger
Nokia

INVESTORS

Venture Capitalists
Angel Investors
Private Equity
Corporate Investor Groups

MIT ORGANIZATIONS

Deshpande Center for Technological Innovation
Venture Mentoring Service
MIT Entrepreneurship Center
MIT Enterprise Forum
MIT Entrepreneurs Club (e-Club)

MODULAR, ADD-AS-YOU-GROW OFFICES / SERVICES

Cambridge Innovation Center
One Kendall Square
Regus

STATE & LOCAL GOVT. INITIATIVES

Life Sciences Cluster
Robotics Cluster
Clean Energy Cluster
IT Cluster

REGIONAL TRADE ASSOCIATIONS

Mass Technology Leadership Council
Mass Software Council
Mass Innovation and Technology Exchange
Mass IT Collaborative Entrepreneurship Committee

COMPETITIONS

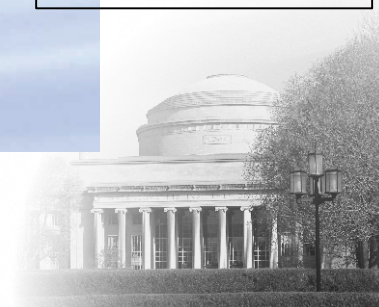
MIT \$100k Entrepreneurship Competition
MIT Clean Energy Entrepreneurship Prize
MIT IDEAS
X-Prize
MIT and Dow Materials Engineering Contest

Seed funding, marketing,
mentoring, VC contact

Mentoring, networking

Education, culture

Education, culture,
networking, competition,
team building



MIT “Bridges” to/with the Boston Innovation Ecosystem

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A sample of the rich resources available in the MIT Community and beyond.

