



# *The Eds, Meds and Industry: What's Next for this Critical Partnership?*

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**University of Massachusetts**

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# The Massachusetts Innovation Ecosystem

- ❖ Key ingredients for the innovation ecosystem:
  - Broad and deep knowledge-creating institutions (universities, medical centers, other research institutions)
  - Global industry leaders in many technology sectors
  - Entrepreneurs and start-up companies
  - Investment capital (angel, VC and other) and related expertise (legal, finance, etc.)
  - Incubators and institutions to accelerate growth (MIT's Deshpande Center, MA Tech Transfer Center)
  - Supportive public sector (innovation focused centers, strategic investments, matching grants)

# Productivity of the Commonwealth's Largest Research Institutions (2008)

Research Expenditures	New Licenses Executed	Total Active Licenses	Start-up Companies Created	Licensing Revenue
\$4.35 B	443	3,536	58	\$226 M

Includes:

Boston University	Beth Israel Deaconess Medical Center
Harvard University	Brigham & Women's Hospital
MIT	Children's Hospital Boston
UMass	Dana-Farber Cancer Institute
	MGH

# New Trends Emerging

- ❖ From centralized corporate R&D to new kinds of industry/university collaborations
- ❖ From universities as independent actors to multi-institutional partnerships for building infrastructure and attracting research funding
- ❖ From a primary focus on a traditional, disciplinary-focused academic research agenda to one which also emphasizes multidisciplinary problems and translation through applied research, product development, and commercialization and use

# Pfizer Global Centers for Therapeutic Collaboration

- ❖ \$100M investment over five years
- ❖ New collaboration model for drug discovery and development
- ❖ Partners include Beth Israel Deaconess Medical Center, Boston University, Children's Hospital Boston, Harvard University, Partners HealthCare, Tufts Medical Center, Tufts University and the UMass Medical School
- ❖ Boston is third U.S. site (San Francisco and New York), with international sites to be added in 2012

# Massachusetts Green High Performance Computing Center

- ❖ Joint venture between UMass, MIT, Harvard, Boston U. and Northeastern to build a shared high performance computing center in Holyoke, MA (\$95M construction cost)
- ❖ Financial partners include the Commonwealth, Cisco and EMC
- ❖ Center will expand computing infrastructure for universities, promote research collaborations and industry partnerships
- ❖ Will also catalyze regional economic growth and enable a range of education partnerships in K-12 and with Springfield Tech and Holyoke Community College

# UMass Innovation Institute

- ❖ A new vehicle at UMass to create capabilities in applied research, and enable development of new and innovative products and services
- ❖ Increases opportunities for external support and more efficiently and effectively moves research to commercialization and societal use
- ❖ Multidisciplinary in focus and complementary to academic research programs – especially UMass core strengths such as materials science, information technology and clean energy
- ❖ Launched as a pilot project at UMass Amherst with intent of expanding across system over time

# Panel

- ❖ **David Bokoler**, IBM Distinguished Engineer and Chief Technology Officer, Emerging Internet Technologies, IBM Software Group
- ❖ **Mark Rice**, Dean, School of Business, WPI
- ❖ **Ira Rubenzahl**, President, Springfield Technical Community College
- ❖ **Susan Windham-Banister**, President, Massachusetts Life Sciences Center
- ❖ **Jack Wilson**, President, UMass (moderator)