

The Massachusetts Life Sciences Center



**MassEcon: The Eds,
Meds & Massachusetts
Industry: Partnering for
Economic Growth**

June 17, 2011

The Massachusetts Life Sciences Center: Who We Are and What We Do

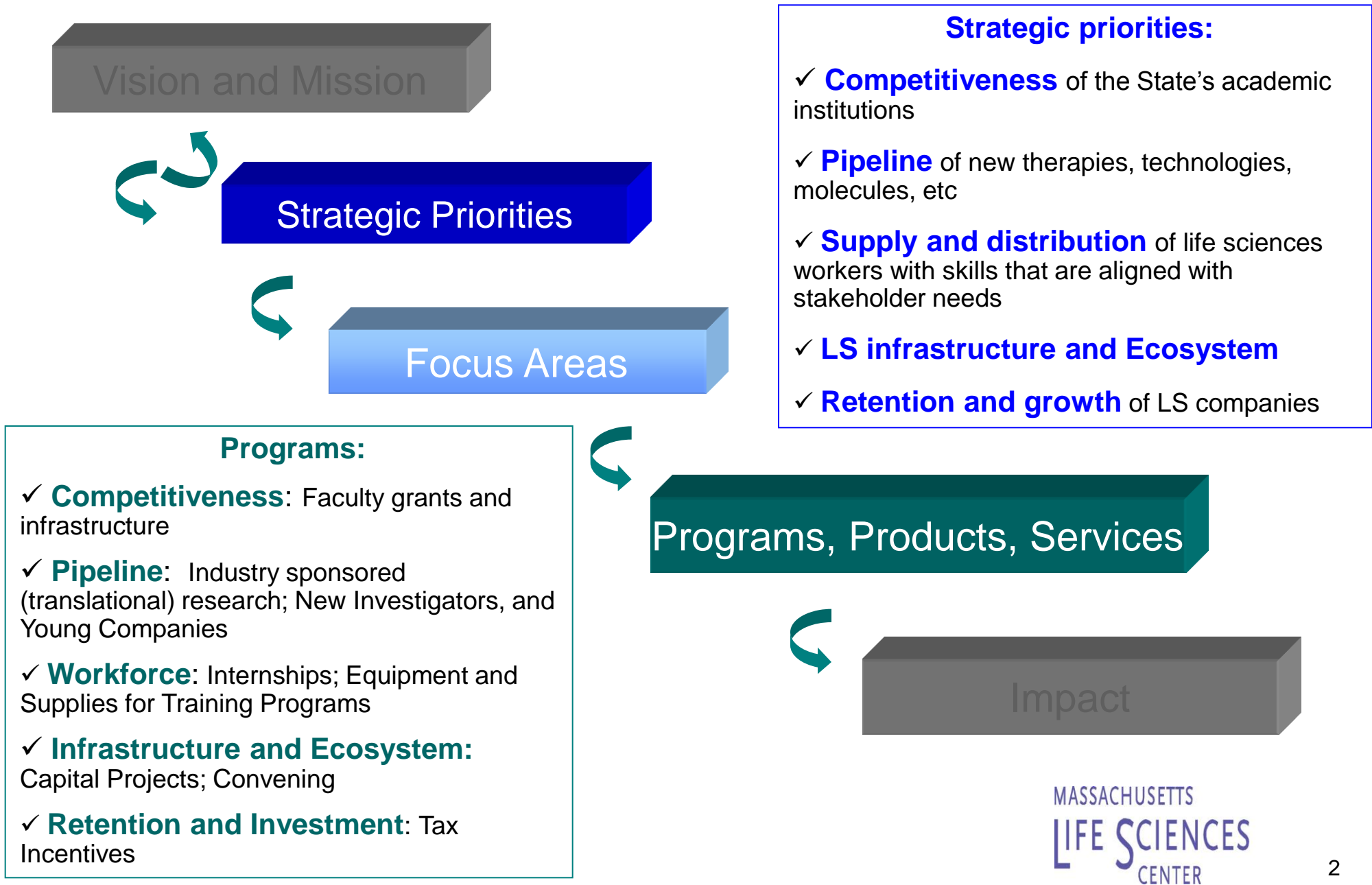
Vision:

- The Massachusetts Life Sciences Center administers the state's 10-year, \$1B life sciences initiative. We develop and offer “best practice” programs that fund innovative economic development initiatives in the Massachusetts life sciences Supercluster, but also may have relevance for other technology sectors

Mission:

- Serve as the “hub” of the Massachusetts life sciences Supercluster
- Create jobs and drive economic development
- Encourage innovation through investments in good science and good business
- Strengthen and protect Massachusetts' global leadership position in the life sciences by supporting our academic medical centers, research institutions and universities; contributing to workforce development, and creating an industry-friendly environment
- Accelerate the commercialization of promising treatments, therapies and cures

MLSC Strategy Summary: Programs Tie Directly to Strategic Priorities



Examples of Life Sciences Center Investments

Life Sciences Center investments already have contributed to the creation of more than **one million square feet of new laboratory and manufacturing space.**

- **The Albert Sherman Therapeutics Center at the University of Massachusetts Medical School**

- **The Center is contributing \$90M toward a \$405M therapeutics center. Projected to create thousands of jobs through direct construction spending, and 1,600 jobs through facility operation.**

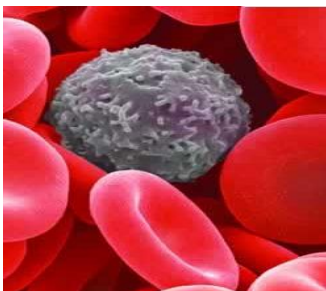


- **Organogenesis in Canton**

- **The Center provided a \$7.4M grant plus tax incentives to retain Organogenesis and encourage their expansion in Canton. The expansion is projected to create 185 new permanent jobs, and will include the world's largest tissue manufacturing facility.**

- **Good Start Genetics**

- **Good Start Genetics was awarded a \$500,000 Accelerator Loan in 2009. Less than two years later the company raised \$18 million in a Series A round, and paid back the Center's loan with interest.**



- **Stem Cell Bank & Registry**

- **The Center has invested \$9 million to support the creation of the Massachusetts Stem Cell Bank and International Stem Cell Registry at UMass Medical School.**

Supporting Workforce Development

■ Equipment & Supplies Matching Grant Program for Skills Training and Education:

- Awards grants of up to \$250,000 per institution for equipment and supplies that support life sciences training
- Awards made to 32 institutions across Massachusetts; \$3.4 million investment
- Over \$600k in additional “matching” funds provided by industry sponsors



■ Internship Challenge Program:

- Funds interns working at companies with fewer than 100 employees– up to \$7,200 for twelve weeks of work
- Program has placed more than 450 interns in paid internships over the past three summers
- More than 55 of the participants have been offered full or part-time jobs at the conclusion of their internships
- Program is now being expanded to operate on a year-round basis



Cooperative Research Grants

The Cooperative Research Grants encourage industry-sponsored research at Massachusetts academic institutions and accelerate “bench to bedside.” **The Center has awarded 8 grants totaling \$4.76 million.**

Research Partners	Award Recipient	Award	Research
UMass Lowell/ Boston Scientific	Dr. Rudolf Faust	\$199,596 per year for three years	Novel polymer biomaterials
Immune Disease Institute/ Epic Therapeutics	Dr. Judy Lieberman	\$250,000 per year for three years	An siRNA-based microbicide
Harvard School of Engineering and Applied Sciences/ Rain Dance Technologies	Dr. David Weitz	\$250,000 per year for three years	Development of a functional fluorescent- activated cell sorter
Massachusetts General Hospital/ Idera Pharmaceuticals	Dr. Andrew Luster	\$63,100 per year for three years	Targeting of toll-like receptors in A.I.D.
Brigham & Women’s Hospital/ Biomeasure	Dr. Richard Lee Dr. Prath Patwari	\$250,000 per year for three years	Design and testing of a new regenerative protein for delivery
UMass Medical School/ Rxi Pharmaceuticals	Dr. Michael Czech Dr. Gary Ostroff	\$249,593 per year for three years	Development of orally-delivered RNAi therapeutics
MGH/Philips Healthcare	Dr. Qianqian Fang	\$250,000 per year for two years	Combined optical and mammographic imaging device
UMass Medical School/RXi Pharmaceuticals	Dr. Robert Brown	\$250,000 per year for two years	ALS treatment using “selfdelivering rxRNA”

The “Bottom Line”

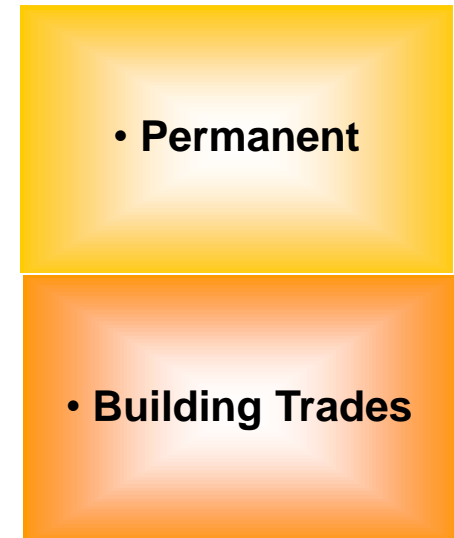
Life Sciences Center’s Impact: June ‘08 – June ‘11

**Matching Investments
Attracted
= \$706 M**

**Job Potential
= 7,038**

**Public Dollars Invested
= \$215.8 M**

3 X multiplier



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