

# **LONGWOOD MEDICAL AND ACADEMIC AREA (LMA) FACT SHEET 2012\***

## **LOCATION**

- The LMA is located on a 213-acre site, three miles southwest of downtown Boston, adjacent to the neighborhoods of the Fenway, Mission Hill, Audubon Circle and the Town of Brookline.

## **SCOPE**

- The LMA's unique concentration of 24 institutions include three major Harvard affiliated teaching hospitals, three research or research treatment centers, three Harvard graduate schools, six historic colleges organized into the Colleges of the Fenway, a private secondary school, an HMO, an art museum, one public high school, a State mental health center, a children's treatment center, a religious institution, an international pharmaceutical research company, and a healthcare insurer.
- MASCO members represent 24 institutions in the LMA: Beth Israel Deaconess Medical Center, Brigham and Women's Hospital, Boston Children's Hospital, Dana-Farber Cancer Institute, Emmanuel College, Isabella Stewart Gardner Museum, Harvard Medical School, Harvard School of Dental Medicine, Harvard School of Public Health, Joslin Diabetes Center, Judge Baker Children's Center, Massachusetts College of Art and Design, Massachusetts College of Pharmacy and Health Sciences, Massachusetts Mental Health Center, Simmons College, Temple Israel, Wentworth Institute of Technology, Wheelock College, and The Winsor School. Harvard Vanguard Medical Associates, Blue Cross Blue Shield, New England Baptist Hospital, Mass. Eye and Ear, and Merck Research Laboratories are Associate Members of MASCO.
- Over 107,900 people commute to and visit the LMA daily including employees, students, volunteers, non-member employees, patients and visitors.

## **EMPLOYEES/PHYSICIANS/ RESEARCHERS/FACULTY**

- Each day in the LMA more than 45,200 employees and 21,000 students provide medical care, conduct research, teach, attend school, or otherwise support these functions. There are also several thousand continuing education students, hospital volunteers, and others not on members' direct payroll (contracted vendors, physician providers, researchers on grants) and pre-K through 12<sup>th</sup> grade students for an estimated total of over 81,800 people per day in the LMA, not including patients or visitors.
- Thirty-three percent of LMA employees are Boston residents. Half of the employees from Boston live in five neighborhoods: Fenway/Kenmore, Dorchester, Jamaica Plain, Brighton, Mission Hill and Roxbury. Thirteen percent of LMA employees live in Brookline and Newton, with another nine percent commuting from the South Shore, Plymouth and the Cape.
- Between 1993 and 2010 the LMA averaged an annual growth rate of over 1,100 employees.
- LMA institutions jointly average 7,500 job openings annually.
- Nearly 91% of LMA employees work for healthcare or research institutions.

- There are approximately 7-10,000 researchers in the LMA, including those paid by grants and non-payroll sources.

## **STUDENTS**

- The LMA has 21,000 students total, including undergraduate and graduate students and students in grades 5-12\*
- 39 % are graduate students (an increase of nearly 14% since 2008 (1,000 students))
- Massachusetts relies on highly-skilled workers to drive our innovation-based economy. Over half of LMA undergraduate degrees and more than three-quarters of graduate degrees conferred annually are in fields that support the creative economy, education, health care, and human services, or a variety of high-tech industries employing science, technology, engineering and math (STEM) workers.
- Six of Boston's 19 four-year small colleges (defined as enrollment < 4,800), are located in the LMA, and are known as the Colleges of the Fenway (COF). In Fall of 2011 the total enrollment of the COF made up over half (52.3%) of Boston's four-year small college enrollment.
- The Colleges of the Fenway students comprise 16.1% of Boston's total students attending four-year colleges and universities. In 2011 the COF had 19,592 students, more than UMass Boston (15,741), or Boston College (14,754).
- 67% of Colleges of the Fenway students come from Massachusetts, 30% are from out-of-state, and 3% are international.

\*Not including Boston Latin School or continuing education students.

## **PATIENTS/ VISITORS: 2011**

- There were over 103,000 inpatient admissions and 2.4 million outpatient visits to the LMA.
- On average, an estimated 3.8 million people visit the LMA per year, including visitors to patients in the hospitals, cultural institutions and conference centers.
- Approximately 56% of all hospital-based outpatient clinical visits, and 55% of all inpatient admissions in Boston were to LMA hospitals and clinics.
- LMA medical institutions accounted for more than half (52%) of all staffed beds in Boston hospitals and trauma centers, totaling 1,824 staffed beds.
- There were 12,560 births in the LMA.

## **LAND USE**

- 17.6 million square feet of building space were developed in the LMA as of 2010, including member and non-member facilities.
- Near-site, within one mile of the LMA, members and associate members own or lease another 2.35 msf, with facilities in Fenway/Kenmore, Brigham Circle, Brookline Village, Crosstown and Coolidge Corner.

- Off-site, more than one mile beyond the LMA, members and associate members own or lease another 4.7 msf including academic campuses and healthcare facilities.

## **GROWING RESPONSIBLY**

- Consistent with the City's efforts to reduce impacts of students in Boston's neighborhoods the Colleges of the Fenway are housing more students on-campus with 2,295 new beds built since 2001.
- The Fenway neighborhood is the #1 LMA employee zip code resulting in more people who 'walk-to-work'
- Fifteen LEED certifiable or certified buildings have been built in the LMA, including nine Gold, three Silver, and three Certifiable buildings. Another nine LEED buildings are planned, approved or under construction as of Fall 2012.
- 'Cool Roofs' help reduce the heat island effect in the LMA, of these there are four completed green roofs and approximately 31 high albedo (white) roofs. Parks or quadrangles located on top of structures at grade represent another three "green roofs" in the LMA.
- Due to significant efforts by MASCO and its members the number of drive-alone commuters has dropped 13% in the last decade while transit use has increased 5%, and walking and bicycling has increased by 6%.
- Energy efficiency initiatives have saved 4.4 million kWh of electricity, equivalent to the average annual consumption of a small college.
- Over 21% of member waste (over 6 million pounds) is recycled or composted.

## **ECONOMIC**

- Total revenues for MASCO member institutions were \$7.7 billion.
- Total net patient service revenue for LMA medical institutions was nearly \$4.1 billion dollars.
- LMA payroll of over \$2.26 billion generated an estimated \$119.8 million in state income tax revenues for the Commonwealth.
- Massachusetts was the number two state recipient of National Institutes of Health (NIH) funding in FY 2011, following California, receiving \$2.5 billion dollars. The LMA is responsible for \$1.03 billion in NIH funding, or forty-one percent of the Massachusetts' total.
- If the LMA were ranked as a state, it would be number eight, after North Carolina, and before Washington state.
- NIH funds are used to find causes of common and rare diseases and accelerate cures for the community. Among LMA research specialties are: diabetes, cancer, heart diseases, AIDs, sleep apnea, and genetic disorders.

## **WORKFORCE/ COMMUNITY DEVELOPMENT**

Members generate significant community benefits annually, such as:

- PILOT payments of over \$4.39 million to the City of Boston
  - Four LMA medical institutions donated nearly \$70 million in Net Charity Care in 2011 absorbing the cost of treatment for those who cannot pay
  - Mission-related community health programs to cure and prevent disease (\$90.5 million)
  - Over \$129 million in scholarships were awarded to enrolled students, of which \$20 million were to Boston residents.
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- Each year, hundreds of millions of dollars are contributed by LMA hospitals and outpatient clinics in community benefits, along with hundreds of thousands of volunteer hours, for health care programs, education and advocacy to Boston and its neighborhoods and the Commonwealth. The health care programs range from the development, operation and staffing of health care centers with partner communities, to outreach through operation of mobile diagnostic van services at 50 different sites, to advocacy and education related to specific health issues.
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- The Colleges of the Fenway are rooted in the community, have a tradition of community service, and are building the core economy of Massachusetts. 66% of Colleges of the Fenway alumni live in Massachusetts. They support the Commonwealth's innovation economy (e.g., scientific research, higher education and healthcare), while filling core economy labor shortages including: nursing, pharmacy, radiology, design, social work, engineering, and inner-city school teaching.
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- The Colleges of the Fenway students alone donate over 120,000 volunteer hours annually (equal to 15,000 work days), they participate in Alternative Spring Break, and actively engage in service learning through their curricula, practica, and activities.
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- Colleges of the Fenway students and faculty spend an additional 750,000 hours annually serving the community through internships and volunteer placements - equal to 93,600 work days or 360 full-time staff. These hours take place in the community with over 800 of these sites located in the City of Boston, and 2,125 sites total located throughout Massachusetts.

**Prepared by  
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Note: Data sources include the American Hospital Association,  
The Boston Business Journal Book of Lists,  
IPEDs College Navigator website,  
National Institutes of Health website,  
MASCO, and member institutions.

\* Unless otherwise noted data are from 2010