

# 10<sup>TH</sup> ANNUAL ECONOMIC IMPACT REPORT

## STATEWIDE IMPACT

The URC's **\$16.5 billion** net impact in Michigan is up from \$12.8 billion in 2007



## ROI

**\$500 million** in new tax revenues are attributable to the URC as well as a net jobs impact of 68,896 in the state



## RESEARCH AND DEVELOPMENT

URC spent **\$2.15 billion** in R&D expenditures, an increase of more than 53% since 2007



## ENROLLMENT

**155,607 students** URC ranked first among peer clusters



## INNOVATION POWER RANKING

URC again **ranked #2** in the Innovation Power Ranking, which indexes defining factors of leading research universities – talent, R&D and technology commercialization



## ENTREPRENEURSHIP

Since 2002, the URC universities have cultivated **210 startup** companies, 79 of which have formed in the past five years

## TALENT

**34,547 graduates** URC ranked first among peer clusters in total number of degrees conferred in 2015



## ALUMNI

**1.2 million** URC alumni living worldwide, 651,000 of which live in Michigan





Since 2008, Michigan's University Research Corridor (URC) – an alliance between Michigan State University, the University of Michigan and Wayne State University – has commissioned a series of reports examining its contributions toward key sectors of Michigan's economy, including entrepreneurship. Key findings include:

**ATTRACTING, FOSTERING, AND INSPIRING TALENT**

**'15**

- Among top research university clusters in the U.S., the **URC ranks first** in medical degrees, total degrees awarded and enrollment, and second in advanced degrees in high-tech fields such as engineering and sciences.
- Of the 32,000 URC graduates each year, more than a third earn degrees in **high-demand fields** such as medicine and engineering.
- Ann Arbor, East Lansing and Midtown Detroit residents 25 and older are three times more likely to have a degree compared to other Michigan communities.

**ALUMNI ENTREPRENEURSHIP**

**'13**

- A 2013 survey of URC alumni found **19.1%** of respondents had founded or co-founded a business.
- **Nearly half** of the businesses started by URC alumni entrepreneurs began in Michigan.
- URC alumni-started firms were nearly **1.5 times more likely** to stay in business versus the national average.
- URC alumni entrepreneurs started or acquired businesses at **double the national average** rate among college graduates between 1996 and 2012, and many of these companies were in fields outside their major area of study.
- URC alumni entrepreneurs have started businesses in **every state**, and over 100 countries.

**INFORMATION AND COMMUNICATION TECHNOLOGY**

**'11**

- The URC universities spent nearly **\$74 million** on research projects with a strong IT focus in FY 2010.
- Nearly **40%** of the approximately 150 URC-assisted start-ups between 2001 to 2011 had an ICT component.
- Information technology employs about 3.5% of the state's workforce (**135,000 workers**) – a significant stand-alone sector and the underpinning for much of the major industry activity and growth represented in previous sector reports.

**LIFE SCIENCES**

**'09**

- In 2008, URC universities spent **\$887 million** on life sciences research and development.
- R&D expenditures **grew 69%** since the founding of the Life Sciences Corridor in 1999.
- Michigan's life sciences industry employed **more than 79,000 workers** (2.1% of all employment in 2006).
- From 1999 to 2006, life sciences employment **grew 10.7%** while manufacturing employment dropped 24%.
- Life sciences wages averaged \$83,494 in 2006.

**'16**

**ENGAGING DETROIT**

- The URC's Detroit economic impact is **\$958 million** (FY 2014).
- The URC accounts for **one in 20 jobs** in Detroit.
- The URC is engaged in more than **340 programs**, projects, activities and events in Detroit focused on community building, economic revitalization, public education, and public health.

**'14**

**BLUE ECONOMY**

- From 2009-2013, URC universities received 2,100 awards totaling nearly \$300 million and supporting **341 researchers** from dozens of departments for water-related research and outreach.
- Each year, URC universities produce more than **3,400 graduates** prepared to analyze and find solutions to water-related issues in academia, government and the private sector.
- **One in five Michigan jobs** (718,700) is associated with water-enabled or water-related industries.

**'12**

**AUTOMOTIVE INNOVATION**

- The URC universities confer more than **3,600 degrees annually** in auto-ready disciplines, supplying the industry with talent.
- Between FY 2007 and 2011, the URC universities spent \$300 million (\$60 million annually) on **more than 1,400 auto projects**. Over 28% of the research was funded by private industry – nine times the average share of industry funding for all university R&D at these institutions.
- URC researchers have helped automakers **improve vehicle quality, safety, engine efficiency** and performance, and reduce fossil fuel use.

**'10**

**ADVANCED MANUFACTURING**

- URC universities spent **\$101 million** on advanced manufacturing R&D in 2009.
- URC universities are educating more than **14,000 students** in engineering.
- In 2007, Michigan's advanced manufacturing industry employs **381,351 workers**, 10.3% of all employment. One-third of the Midwest's advanced manufacturing jobs are in Michigan, paying an average wage of \$64,122.

**'08**

**ALTERNATIVE ENERGY RESEARCH AND DEVELOPMENT**

- Michigan has a **comparative advantage** in biomass and wind compared to the energy potential in the other 49 states.
- URC universities spent more than **\$79.5 million** on R&D related to alternative energy in 2007.
- **More than 50%** of all alternative energy R&D supported the auto industry.