9TH ANNUAL ECONOMIC IMPACT REPORT 2015

URC UNIVERSITY RESEARCH CORRIDOR®

STATEWIDE IMPACT

URC contributed **$17.5 billion** in net economic activity in 2014

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

RESEARCH AND DEVELOPMENT

URC spent **$2.104 billion** in R&D expenditures, an increase of **more than 50%** since 2007

ENTREPRENEURSHIP

Since 2002, the URC universities have cultivated **188 startup companies**, 71 of which have formed in the past five years

ROI

For every **$1 invested** in the URC universities there were **$22 in economic benefits** to the state

ENROLLMENT

155,763 STUDENTS

URC **ranked first** in number of degree-seeking students

TALENT

34,141 GRADUATES

URC **ranked first** among peer clusters in total number of degrees conferred in 2014

ALUMNI

1.2 million URC alumni **living worldwide**

629,000 live in Michigan

MICHIGAN STATE UNIVERSITY · UNIVERSITY OF MICHIGAN · WAYNE STATE

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URC UNIVERSITY RESEARCH CORRIDOR®

SECTOR REPORTS

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:

'15 ATTRACTING, FOSTERING, AND INSPIRING TALENT

- 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.

'13 ALUMNI ENTREPRENEURSHIP

- A 2013 survey of URC alumni found **19.1%** of respondents had founded or co-founded a business.
- 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.
- ***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.

'11 INFORMATION AND COMMUNICATION TECHNOLOGY

- 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.

'09 LIFE SCIENCES

- 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.
- 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.

'14 BLUE ECONOMY

- **One in five Michigan jobs** (718,700) is associated with water-enabled or water-related industries.
- 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.

'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

- 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.
- URC universities spent **$101 million** on advanced manufacturing R&D in 2009.
- URC universities are educating more than ***14,000 students*** in engineering.

'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.

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