

2017–2018 ANNUAL REPORT

THE POWER OF

Big

Big Ten Academic Alliance



Big ideas have big impact, and no one has bigger ideas and bigger impact than the Big Ten Academic Alliance.

Our 14 world-class institutions produce big impacts for the states they serve and the nation at large. Collectively, they employ 50,000 faculty who conduct \$10.5 billion in groundbreaking research each year, and they produce 147,000 highly skilled graduates who are ready to make big changes to the world around them.

Together through the Big Ten Academic Alliance, the nation's preeminent academic collaborative, our 14 member universities advance their academic missions, generate unique opportunities for students and faculty, and serve the common good by sharing expertise, leveraging campus resources, and collaborating on innovative programs.

In this report, you will see countless examples of how our member institutions work together through the Big Ten Academic Alliance to amplify big ideas through collaborative action to produce even bigger impacts.

It's all part of the power of thinking big—and of being part of the Big Ten Academic Alliance.

A handwritten signature in black ink that reads "Keith A. Marshall". The signature is fluid and cursive.

Keith A. Marshall, Ph.D.

Executive Director

Big Ten Academic Alliance

Big Ideas

172

less commonly taught languages have been offered through **CourseShare**, a unique program that allows Big Ten students to take courses through distance learning

90M

books available to Big Ten libraries through **UBorrow**, a service that allows more rapid access than traditional interlibrary loan programs

30

years of offering relevant, effective professional development for promising faculty through the **Academic Leadership Program**

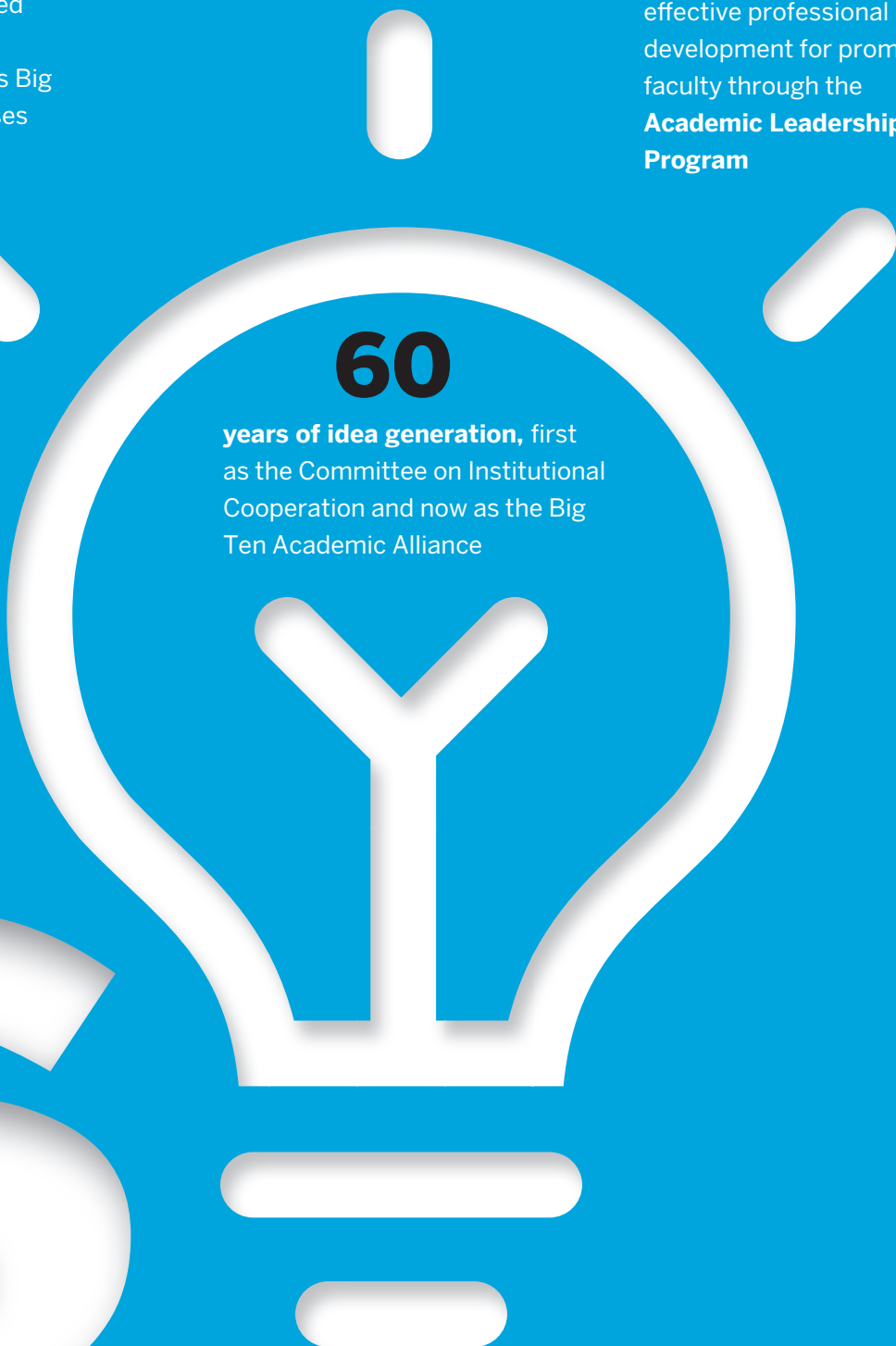
9

Big Ten universities are founding members of **CADRE, the Shared BigData Gateway for Research Libraries**, that is developing, seeding, and maintaining a cloud-based, extendable cyberinfrastructure for sharing large academic library data resources

60

years of idea generation, first as the Committee on Institutional Cooperation and now as the Big Ten Academic Alliance

Big Ten



Universities in the Big Ten Academic Alliance deliver on Big Science. They are responsible for one discovery after another and have the research credentials and funding support to prove it. Engaging in \$10.5 billion in research in 2017-18, member universities continue to provide powerful insights into important issues in medicine, technology, and agriculture and are committed to developing a scientific workforce that promises to advance that work for generations to come.

Big Science

U.S. congressional districts benefit from Big Ten research dollars through scientific equipment and technology expenditures

439

individuals are supported through research awards, according to data from 10 member institutions; 40% are students and 16% are faculty

70K

\$10.5B

in funded research, more than the Ivy League's \$4.5 billion and the University of California system's \$4.6 billion combined

50%

of research employees at 10 of our member institutions are **supported by NSF**; 25% are **supported by NIH**

80K

research-trained graduates are employed one year after leaving a Big Ten university; 24% are graduate students and 9% are postdocs

Impact

Through collaboration, the universities of the Big Ten Academic Alliance have built a strong portfolio of nationally recognized student and faculty opportunities. Students who attend one member institution benefit from the academic strengths of 13 other schools. Access to their resources, languages, classes, and opportunities opens minds and opens doors. Faculty benefit, too, because the collective power of the Alliance enhances their personal networks, scholarship, research, and leadership potential. For all of them, these big opportunities lead to big experiences.

Big Opportunities



653,309

faculty and students are
afforded **exceptional**
opportunities at Big Ten
universities

20

years of helping underrepresented
students prepare for graduate
school through our **Summer**
Research Opportunities
Program

11

years dedicated to **ensuring**
full opportunities for
individuals with disabilities
by providing accessible
technology and content

600+

member university staff
at 28 watch stations
participated in the
inaugural **Women In IT,**
Lead From Where You
Are Virtual Conference

unities

Big

Imp

The collective voice of the Big Ten Academic Alliance furthers the conversation on today's important research and academic topics. We make a big statement—and a big impact. Our collaborations influence every member campus, increasing diversity and serving as a gold standard for research partnerships. Our local and regional communities benefit from the financial engine provided by inspired research efforts. People here and across the globe feel the impact of our collaborations that improve their health, enhance opportunities, and improve the human condition.

universities in the Big Ten–Ivy League Traumatic Brain Injury Research Collaboration, working to **increase student athletes' health & wellness**

22

Impact

increase in the average number of **underrepresented minority (URM) faculty members hired** in STEM disciplines since the beginning of the **Professorial Advancement Initiative**

URM postdoctoral scholars supported on their path to become faculty members through an NSF grant

patents issued this year to Big Ten schools **creating a significant impact** across the marketplace

200%

205

1,100

\$275M



Big savings lay the foundation for big plans. Through collaborative efforts in resourcing and purchasing, the Big Ten Academic Alliance maximizes efficiencies and enhances purchasing power. The academic enterprise across all 14 campuses benefits from the savings that are delivered through shared resources and procurement agreements, which can then be invested in the infrastructure that furthers cutting-edge research, scholarship, and student success.

Big Savings

\$37M

library licensing savings
over the last 5 years

annual savings through
OmniPoP, the fiberoptic
network shared infrastructure

\$9M

\$81.1M

in consortial contract spend

\$100M+

aggregated savings over the last
5 years through the **combined
purchasing power** of the Big
Ten Academic Alliance

\$9.2M

savings through **50 procurement
and licensing agreements**

ings

The Big Ten Academic Alliance brings together the nation's top minds to advance the academic enterprise. Partnerships are built through shared passions, intellectual curiosity, and a commitment to solving challenging problems. By thinking big, our partnerships maximize resources and investments, provide access to unmatched services and scholarly material, and establish a collaborative network where discovery flourishes and good ideas can be brought to fruition.

Big Partners

2014

the year the **Cooperative Cataloging Partnership** was started to create access to cross-institutional collections through supplemental cataloging capacity

24/7

surveillance and threat analysis by **OmniSOC**, a joint cybersecurity operations center created by 5 of our universities to rapidly respond to cyber-threats

150

attendees at the **Traumatic Brain Injury Summit**, a collaboration between the Big Ten and the Ivy League

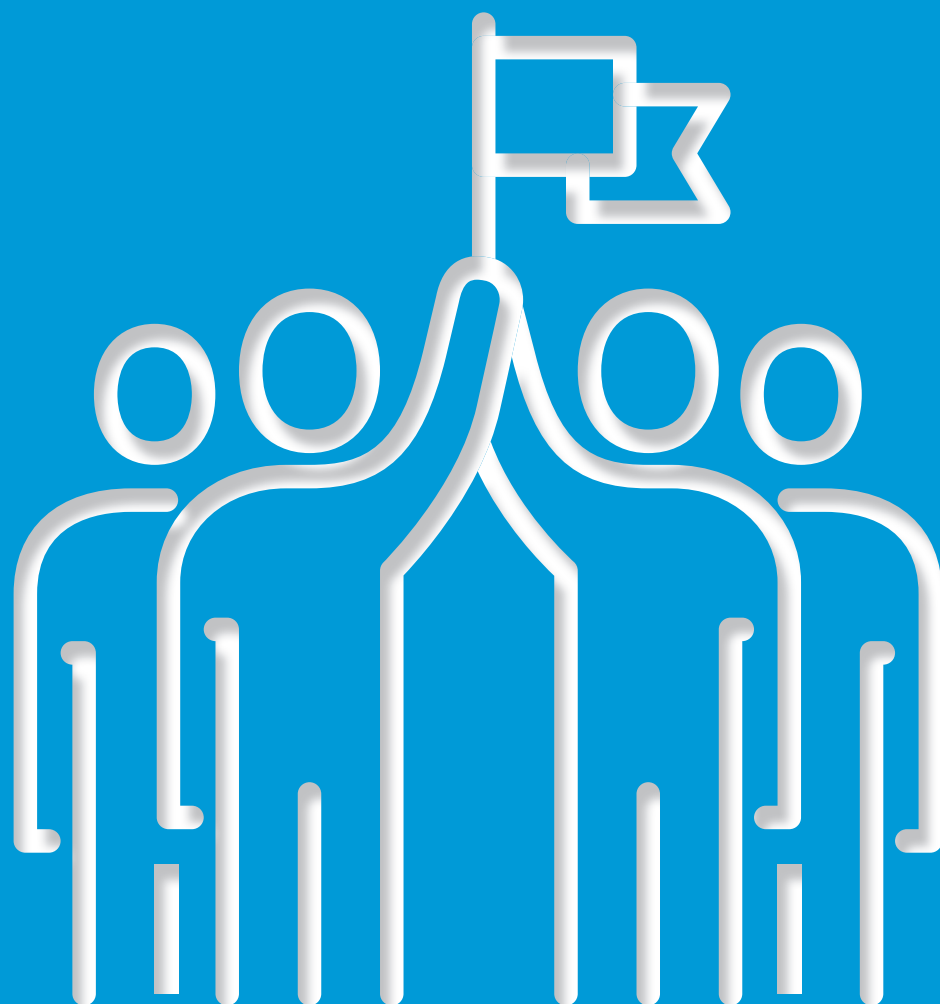
28

the total number of schools in the Big Ten Academic Alliance and the Associated Colleges of the Midwest that are working together to advance the **Undergraduate and Faculty Fellows Program for a Diverse Professoriate**

36

universities in the **International Research Experience Program**, partnering to provide valuable research opportunities to Big Ten and French students

Partnerships



Provosts

July 1, 2017–June 30, 2018

Karen Hanson, *Chair*
University of Minnesota

Andreas Cangellaris
University of Illinois

Lauren Robel
Indiana University

Susan Curry
University of Iowa

Mary Ann Rankin
University of Maryland

Martin A. Philbert
University of Michigan

June P. Youatt
Michigan State University

Donde Ashmos Plowman
University of Nebraska-Lincoln

Jonathan Holloway
Northwestern University

Bruce A. McPheron
Ohio State University

Nicholas P. Jones
Pennsylvania State University

Jay T. Akridge
Purdue University

Wanda Blanchett
Rutgers University-New Brunswick

Sarah C. Mangelsdorf
University of Wisconsin-Madison

Big **Alliance**

The Big Ten Academic Alliance is a consortium of world-class research universities governed by its member provosts and supported by campus investment.



University of Illinois
Indiana University
University of Iowa
University of Maryland
University of Michigan
University of Minnesota
Michigan State University
University of Nebraska-Lincoln
Northwestern University
Ohio State University
Pennsylvania State University
Purdue University
Rutgers University-New Brunswick
University of Wisconsin-Madison



1819 South Neil Street, Suite D
Champaign, IL 61820-7271
www.btaa.org • 217.333.8475
info@btaa.org