Communication and Use of STAR METRICS Data

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Communications Working Group
Reporting on personnel supported by Federal and Other Agencies

Examples of Possible Applications:
• External: Reporting to legislators and agencies
• Internal Institutional groups
  • Office of Research applications/reporting
  • Economic Development groups
What summary information would best assist in communication of personnel support?

FTE- based?

Individual- based?

Both?
Examples of current STARMETRICS summary formats
Summary of all individuals supported by agencies

<table>
<thead>
<tr>
<th></th>
<th>Number of Individuals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2011_Q2</strong></td>
<td></td>
</tr>
<tr>
<td>All Funding (Federal &amp; Non-Federal)</td>
<td>8,325</td>
</tr>
<tr>
<td>All Non-Federal</td>
<td>3,400</td>
</tr>
<tr>
<td>All Federal Funding</td>
<td>5,812</td>
</tr>
<tr>
<td>All Federal Science Funding</td>
<td>4,250</td>
</tr>
<tr>
<td><strong>Rolling 12 months thru 6/2011</strong></td>
<td></td>
</tr>
<tr>
<td>All Funding (Federal &amp; Non-Federal)</td>
<td>11,668</td>
</tr>
<tr>
<td>All Non-Federal</td>
<td>5,563</td>
</tr>
<tr>
<td>All Federal Funding</td>
<td>8,043</td>
</tr>
<tr>
<td>All Federal Science Funding</td>
<td>6,053</td>
</tr>
</tbody>
</table>

Source: STAR Metrics Report for Star State University - (All).
Note: Totals may not agree exactly due to rounding.
Summary of personnel by FTE
Example from Indiana:
Application of personnel summary based on individuals and geographic location

Number of jobs created by science funding
By congressional district
Example from University of Missouri:

Student support based on partial or total Research portfolios; First Quarter, 2013
What has been the experience to date of STARMETRICS participants

- Utility of FTE-based summary?
- Utility of individual-based summary?
- Suggestions for combining?
Now More Than Ever, University Scientists and Scholars Deserve Our Support

BY ROBERT V. DUNCAN
Vice Chancellor for Research

During the previous fiscal year, agencies of the United States government awarded MU faculty scientists and scholars close to $300 million for sponsored research and instruction and public service projects. These dollars, the lifeblood of MU’s research enterprise, were generated mostly through competitive submission processes involving researchers from many of the nation’s top institutions. Only the most important projects from the best investigators eventually gain support.

That MU has been so consistently well represented among projects selected for sponsorship is a testament to the energy, ambition and excellence of our faculty. Thanks in large part to their efforts, the University has not just enhanced its position as one of the nation’s premier centers of research and higher learning, but has also emerged as a major force in Missouri’s economic development. In recent years, for example, companies licensing MU-generated intellectual property have tallied over $1 billion in sales.

The still precocious state of our nation’s economic recovery — reflected as intensifying competitive pressures from across the globe — make it imperative that we continue to support the economy-enhancing work of our scientists and scholars.

Instead, just the opposite is happening. Drastic cuts in federal discretionary spending, the result of the so-called sequester, threaten to severely weaken the ability of universities like MU to continue the scientific research and development activity that our nation so desperately needs. This is a profound threat to both the nation’s long-term growth prospects and to the financial well-being of thousands of Missourians.

According to data compiled by Science Works for U.S., a project of the Association of American Universities, the Association of Public and Land-grant Universities, and The Science Coalition, sequestration will reduce federal funding for scientific research by nearly $5 billion over the next nine years, which will result in a reduction of U.S. GDP by at least $20 billion. The net impact could be 200,000 fewer jobs — many of them in important, well-paying techNICal fields — for each year between 2013 and 2016.

Here at MU, in the current year alone close to $17 million in previously awarded federal funds were lost, a 10 percent of the university’s federal funding for research. Such cuts are of particular concern given the importance of several of MU’s newly funded investigations, many of which, ironically, have the potential to save the federal treasury millions. Among the most noteworthy are:

- A four-year, $14.14 million grant from the U.S. Department of Health and Human Services’ Centers for Medicare and Medicaid Services to the School of Nursing and Curtin’s Professor of Nursing Marilyn Ranze, Rnanz, and her team of MU researchers will use the funds to discover ways of reducing avoidable “re-hospitalizations” among nursing home residents. Unnecessary hospital admissions not only impair the well-being of patients, but are a significant driver in pushing up national health care costs.

- A $3.0 million grant from the USDA to Jerry Taylor, the Wurzburg Chair in Animal Genetics at MU, to determine what specific genes play a role in breeding problems and other issues in the cattle industry — a project that could significantly increase the efficiency of cattle reproduction.

- A $2.4 million grant from the Substance Abuse and Mental Health Services Administration to establish a Terrorism and Disaster Center that will train mental health providers to aid communities before and after natural and man-made disasters.

Last summer, MU Chancellor Brady Deaton was signatory, along with the leaders of every major research university in the nation, to a letter to Congress that openly summed up the reasons why the sequestration cuts should be reversed. “Americans know that investments in education and scientific research pay long-term dividends,” the letter read.

“Federal support for scientific research and cutting-edge research aid laid the foundation for the dramatic expansion of the 20th century U.S. economy and can do the same in the 21st. These investments produce the people and the ideas that lead to new products, new businesses, and entry into new industries, as well as the jobs that go with them.”

As national leaders in higher education, we urge you to show America and the world that our country’s political system is capable of solving serious problems. The choices will not be easy, but throughout our nation’s history, America leaders have overcome great challenges with difficult decisions and selfless compromises. Please do so again and do so now."

I am confident all of our faculty scientists and scholars would endorse this view, as would, I hope, every Missourian who cares about the continued vitality of research and scholarship. Let’s make sure our federal representatives hear it from all of us. Now more than ever, MU scientists and scholars deserve our support.

Expenditures and Awards

In this report you will encounter charts and graphs that reflect the essence of funding MU research. Some are expressed in terms of “expenditures,” which represent resources spent by a researcher during a given fiscal year. Others are expressed as “awards,” which show the total amount of funds available for use, money often expended over a period of years.

Expenditures Up as Federal, State Funding Increases

Increased levels of funding from federal, state and non-profit agencies helped boost MU expenditures in FY 12. Over the past decade, investigators at MU have been consistently ranked among the nation’s leaders in growth rates for externally supported projects.

External Expenditures

<table>
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<th>Year</th>
<th>Total Exp.</th>
<th>State of Missouri</th>
<th>Non-State</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>$332,000</td>
<td>$50,000</td>
<td>$282,000</td>
</tr>
<tr>
<td>2011</td>
<td>$292,000</td>
<td>$45,000</td>
<td>$247,000</td>
</tr>
<tr>
<td>2010</td>
<td>$252,000</td>
<td>$40,000</td>
<td>$212,000</td>
</tr>
<tr>
<td>2009</td>
<td>$212,000</td>
<td>$35,000</td>
<td>$177,000</td>
</tr>
<tr>
<td>2008</td>
<td>$172,000</td>
<td>$30,000</td>
<td>$142,000</td>
</tr>
</tbody>
</table>

Total Expenditures, by Sponsor:
$749,996,626
Impact on U.S. Congressional District 4

The District at a Glance

- UM Students: 8,821
- UM Alumni: 32,939
- UM Employees: 19,380
- Population: 746,616

UM Students from the District in 2012

- 8,821 students
  - 7,092 - MU
  - 1,081 - UMKC
  - 598 - Missouri S&T
  - 50 - UMSL

UM Alumni Residing in the District in 2012

- 32,939 alumni
  - 27,710 - MU
  - 3,354 - UMKC
  - 1,272 - Missouri S&T
  - 605 - UMSL

UM Employees in the District in 2012

- 113,568 patients seen at MU Health Care, with $29,804,576 of uncompensated care
  - 11 patients seen at the UMSL Center for Eye Care with an average of $85 per patient in uncompensated care

UM Services Received in the District in 2012

- 362,130 contacts with MU Extension through MU Extension events held in district counties.

UM Construction Projects involving Vendors located in the District in 2012

- 66 vendors involved with 129 projects, for $26.5 million.

UM Alumni Teaching K-12 in the District in 2012

- 1,645 teachers
  - 20% of all district teachers
  - 117 principals and administrators
  - 20% of all district principal and administrators

Impact on Education in 2011

- UM served 59% of first-time undergraduates attending four-year public institutions in 2011.
  - UM awarded 49% of the 1,110 doctoral degrees earned in Missouri.
  - $431.2 million - MU
  - $202.2 million - UMKC
  - $147.5 million - Missouri S&T
  - $87.5 million - UMSL

Supporting the University of Missouri is an investment in the future of Missouri.

The university advances Missouri citizens and communities through its mission of teaching, research, public service, and economic development across our four campuses and University of Missouri Extension.
Mizzou Measures Up

MU is accessible, affordable and accountable to citizens. Here are examples of our progress.

MU is a nationally competitive, global university.

MU is a member of the Association of American Universities (AAU) based on quality of teaching, research and scholarship.

60 associations of American universities
227 other doctoral research universities
850 specialized, religious, technical
1,536 4-year colleges
1,920 community colleges

MU conducts millions of dollars in federal research.

Research & Development Expenditures, FY2012:
$114.3 million

Research at Mizzou: research.missouri.edu

More information about the Association of American Universities: aaau.edu

Generous supporters worldwide invest in Mizzou. Private gifts enrich programs and facilities, support faculty and make an MU education more accessible.

In FY2012, alumni and friends made 58,790 gifts to MU totaling $88 million.

Give to Mizzou: giving.missouri.edu

Since 2007, Mizzou Alumni Association membership has grown by 24.6 percent, providing more financial support for scholarships, faculty grants and alumni programs.

Join the Mizzou Alumni Association: mizzou.com
Data Utility

• STAR METRICS data can complement/enhance other impact information
  ➢ Statistics
  ➢ Stories

• Presentation format of STAR METRICS data will be important with focus on simplicity

• STAR METRICS data can assist with discussion of specific issues – e.g. workforce development; benchmarks