Status and Outlook for Research Funding at U-M

90th Annual Research Report to the Regents

Steve Forrest, Vice President for Research

January 19, 2012

University of Michigan
Office of the Vice President for Research

The Research Enterprise at U-M

3rd largest segment at U-M

- Health System: ~ $2.4 B
- Education: ~ $1.3 B
- Research: ~$1.2 B

Research and Education

The University fulfills three basic, interlocking functions: to educate youth in the widest possible variety of intellectual disciplines; to collect, increase, and disseminate knowledge that bears on these disciplines; and to perform those services for society, both individually and collectively, which, consistent with its education and research functions, it is peculiarly qualified to perform.

– Harlan Hatcher, 8th President of U-M in the 40th Annual Report on Sponsored Research, 1962

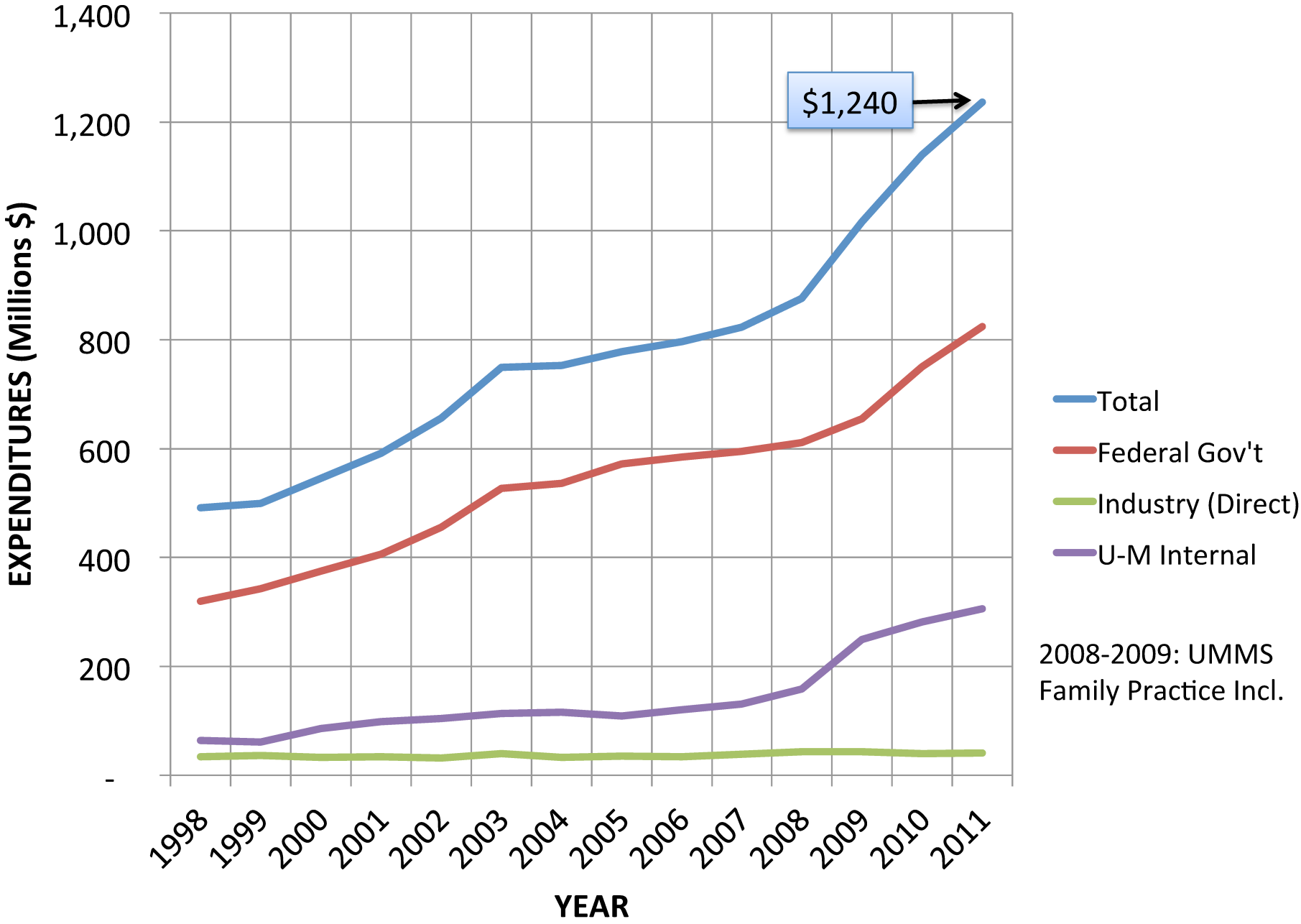
Universities and colleges serve a dual role, as the main source of basic research in the United States and as the training ground for new researchers.

– Chronicle of Higher Education, 2012

The Challenge

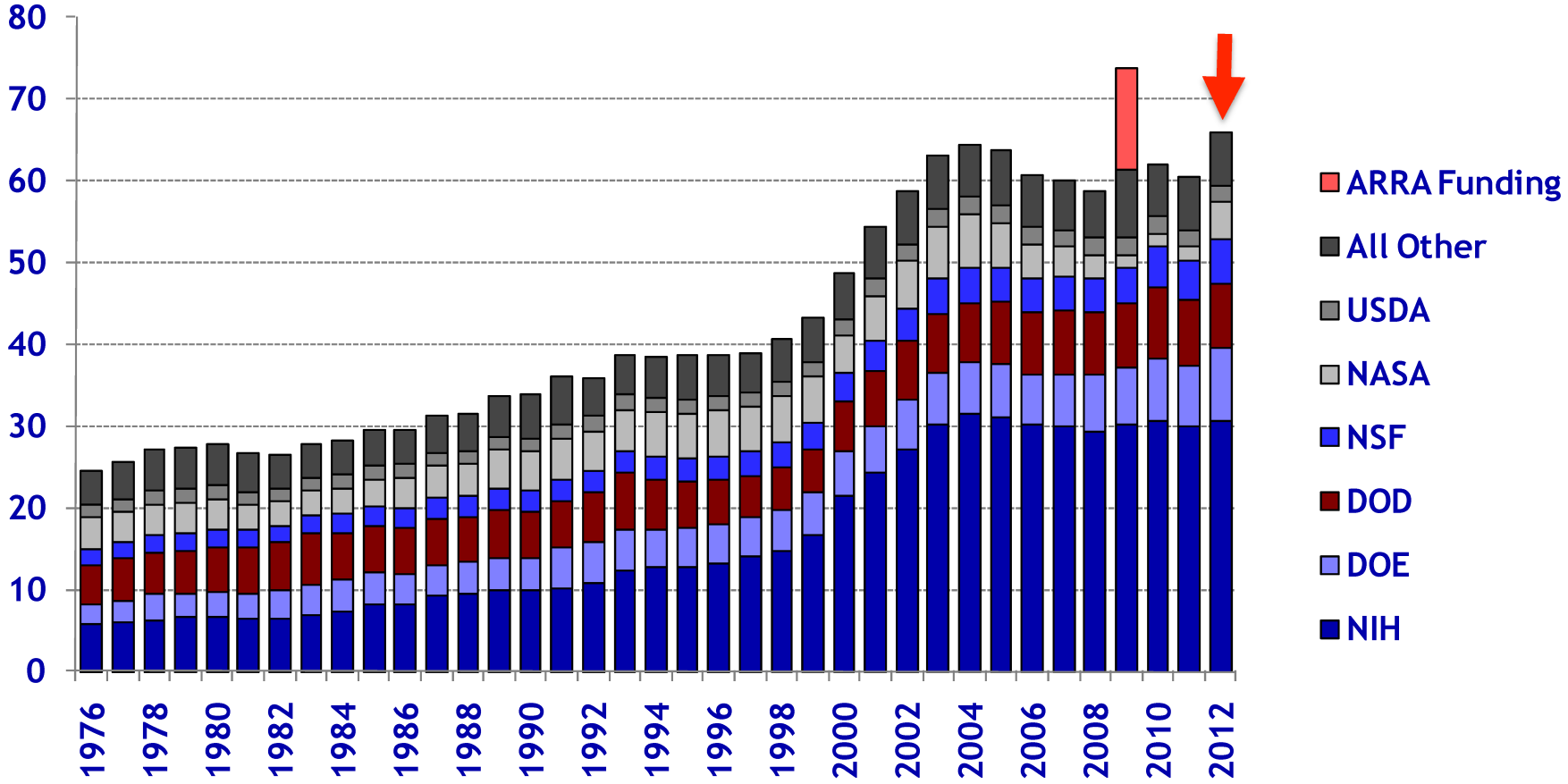
In a time of flat or declining federal funding for research, how does U-M's research enterprise continue to thrive and grow?

U-M Research Expenditures: Historical Trends



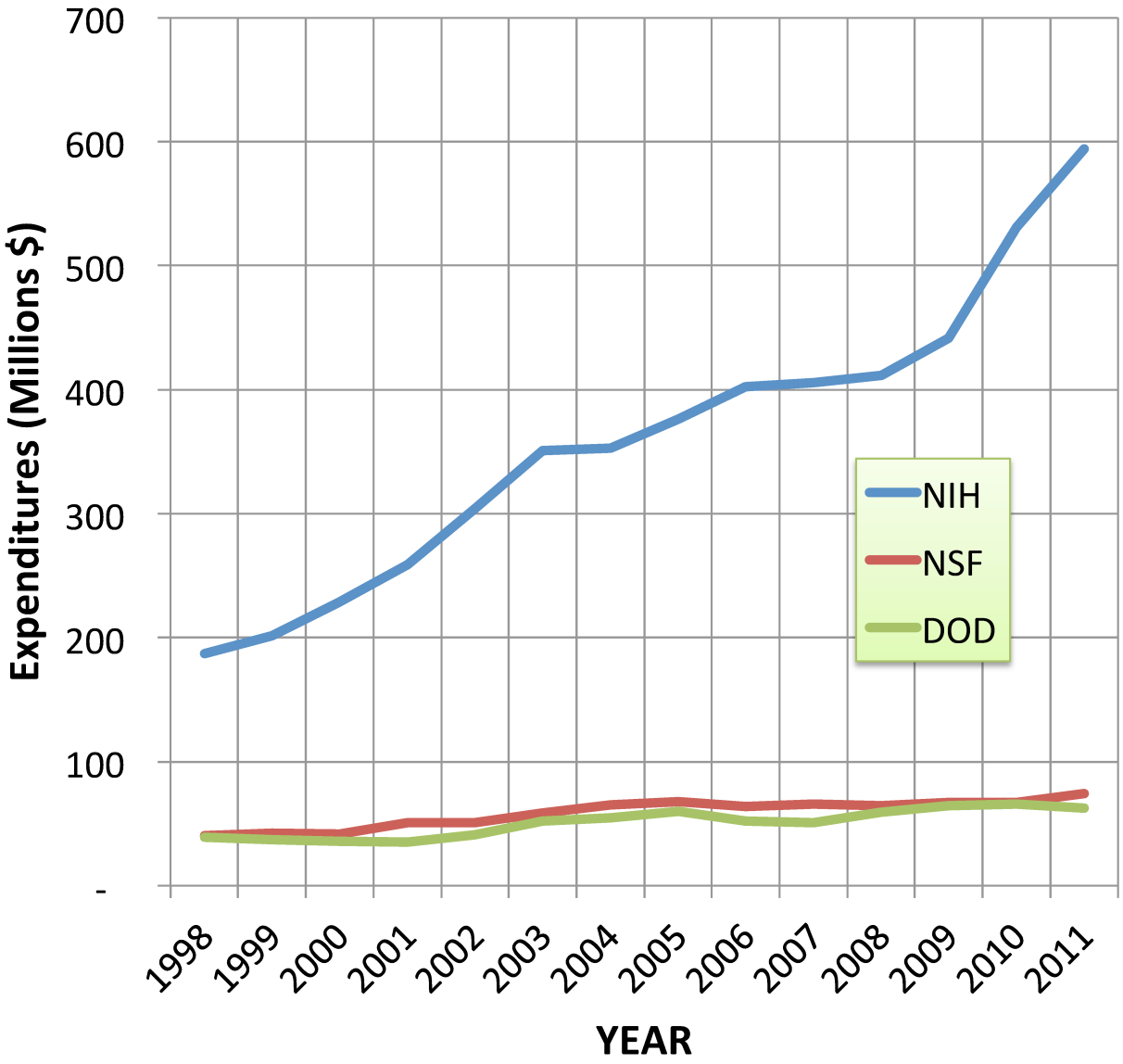
Trends in Research by Agency

in billions of constant FY2011 dollars



Source: Up to 1994 - National Science Foundation / National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development; 1995 to Present - *AAAS Report: Research and Development* series;
FY 2011 and FY 2012 figures are latest estimates.
Research includes basic research and applied research.

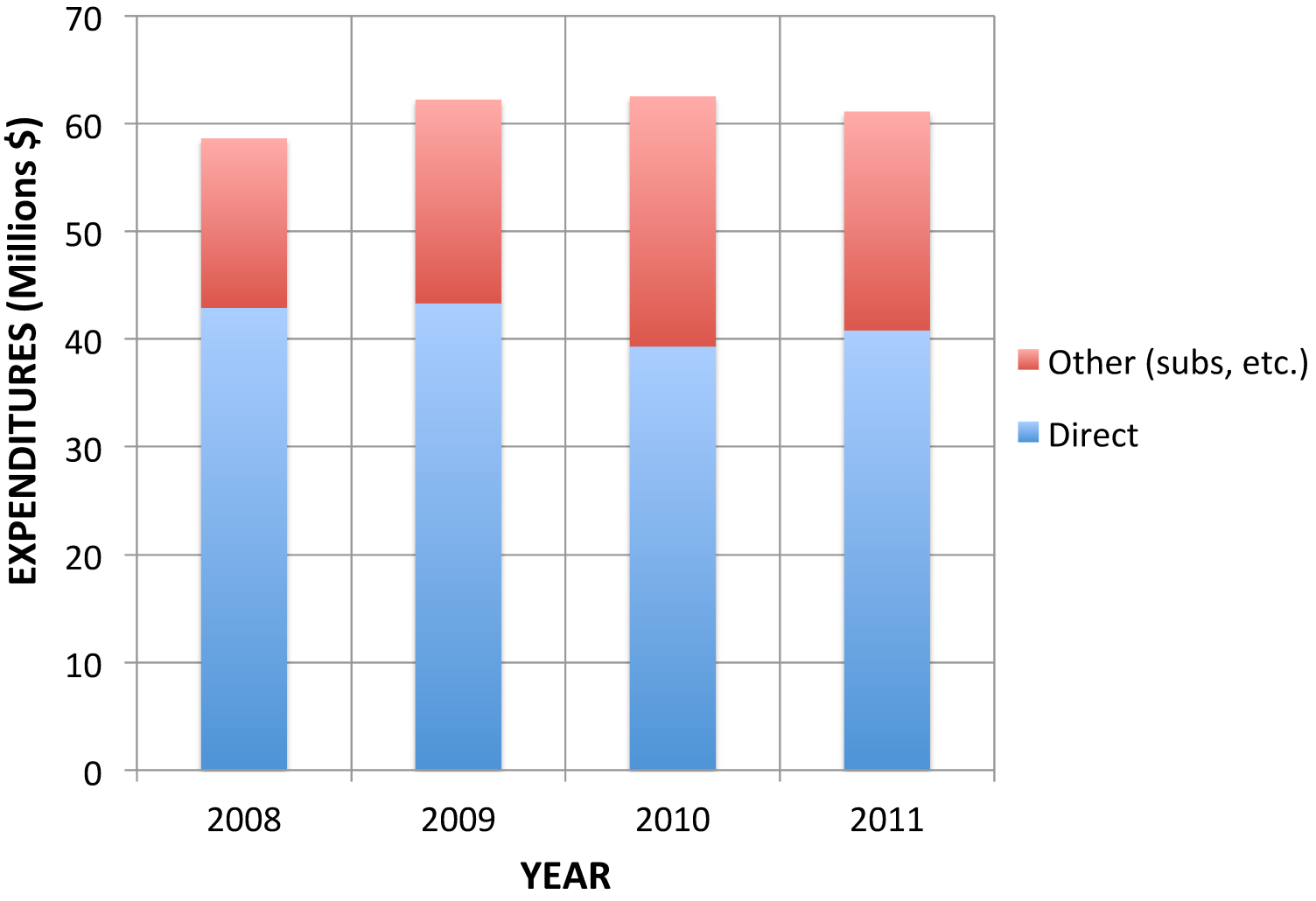
U-M Research Expenditures by Agency



Notable Growth: 2011

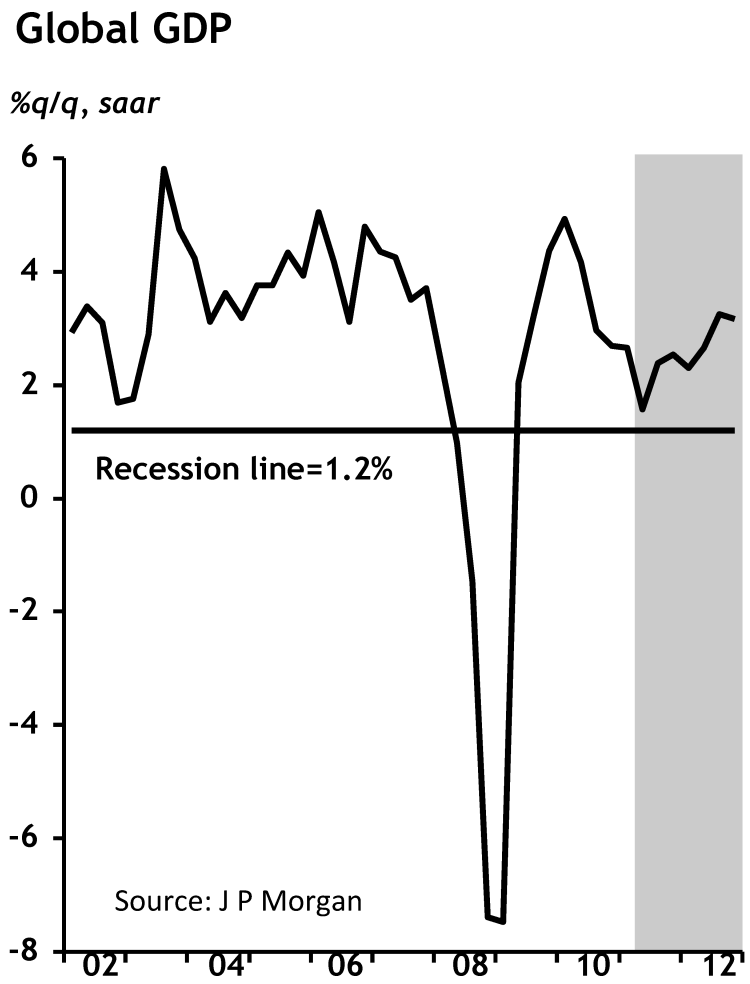
- NIH: +12.6%
- NSF: +10.3%
- DOD: -4.9%
- Energy: +44%
- NASA: -6.5%

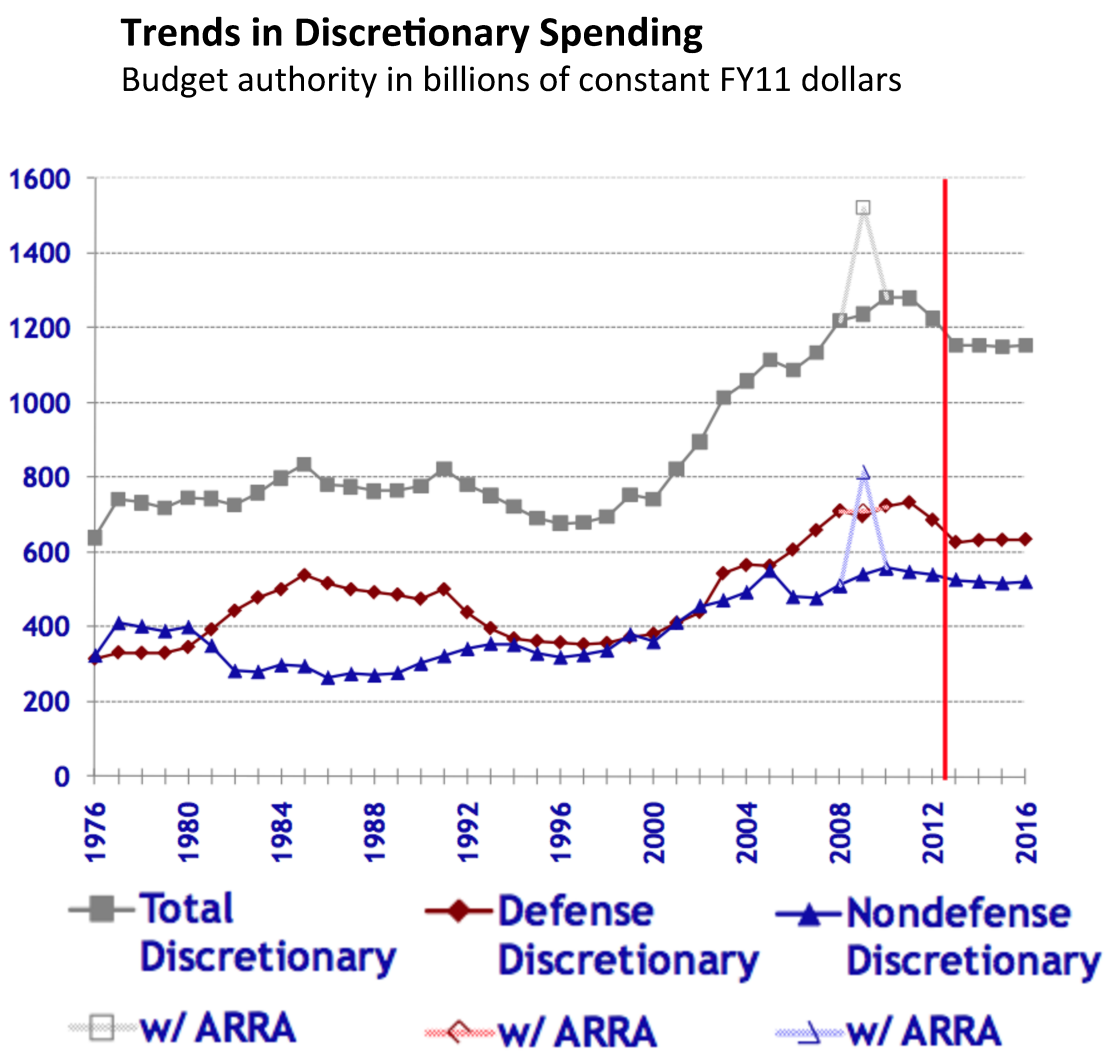
The Role of Industry



A small, but important segment: **A catalyst**

A worrisome growth forecast

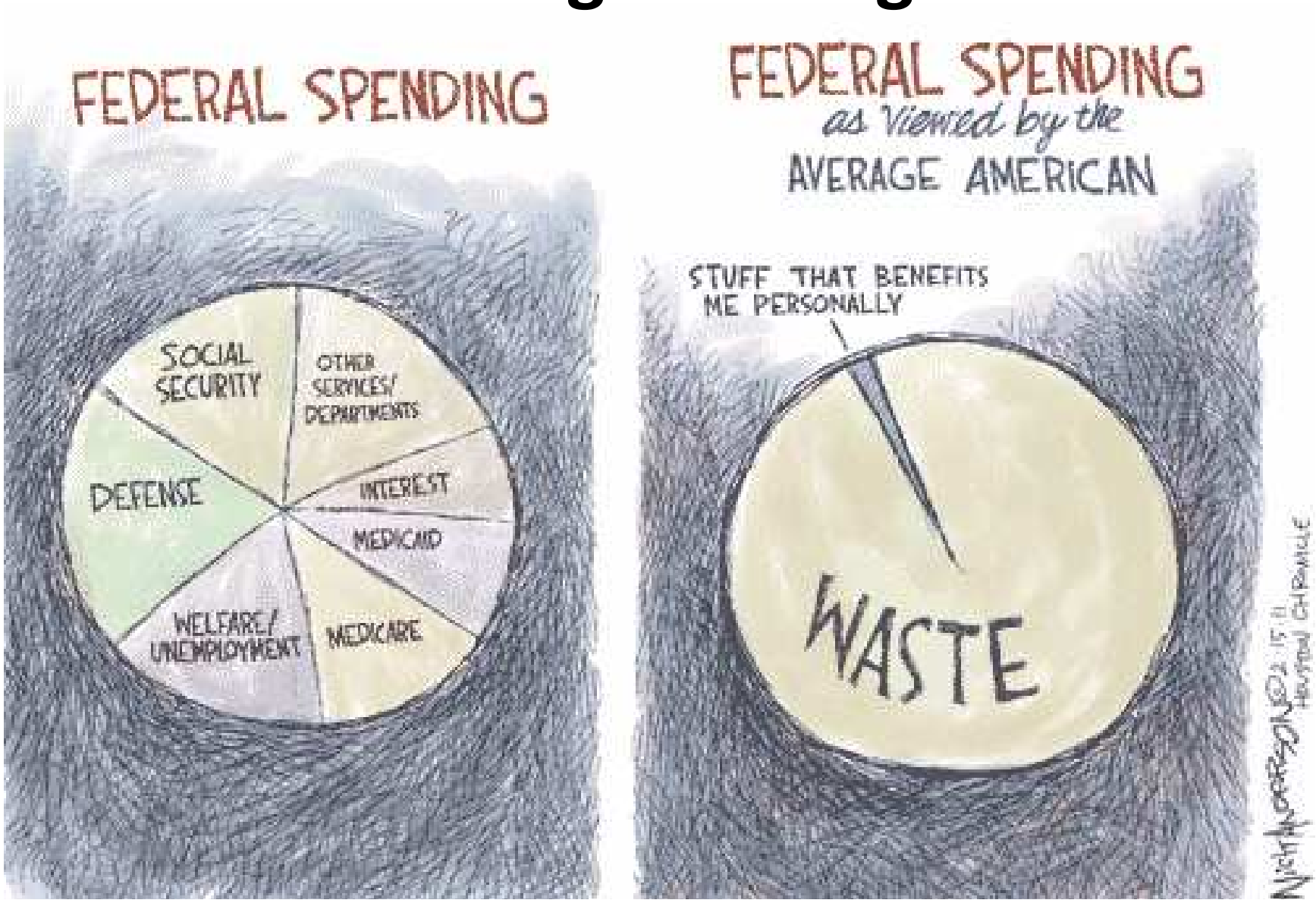




Source: Budget of the U.S. Government, FY 2012

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Understanding Washington DC



Future Perspective

- We anticipate significant budget cuts across all agencies
- Near term relief should not be mistaken for long term situation
- Trends likely to persist over time (~5 years)

Staying Above the Storm

First: Focus on our strengths that are priorities for the federal government and industry, including

- Health
- Energy
- Intelligent Vehicle Systems
- Manufacturing
- Sustainability

Staying Above the Storm

Second: Build on the U-M culture/environment

- Our reputation for excellence
- Strengths across disciplines
- Interdisciplinary cooperation
- Use-inspired research
- Ties to industry
- International relationships
- NCRC

Staying Above the Storm

Third: Streamline our administrative processes

- Improve proposal competitiveness
- Improve research administration
- Reduce barriers to working with industry


UNIVERSITY OF MICHIGAN
Office of the Vice President for Research