

#### **RESEARCHATU-N** OFFICE OF THE VICE PRESIDENT FOR RESEARCH

### Research and Scholarship 2012 Annual Report

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Vice President for Research

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## **EXECUTIVE SUMMARY**

- U-M remains one of the world's premier research universities.
- Federally sponsored research is likely to decline.
- We are taking steps to anticipate and adapt to these changes.
- We must work to sustain and enhance the federal investment in university research.



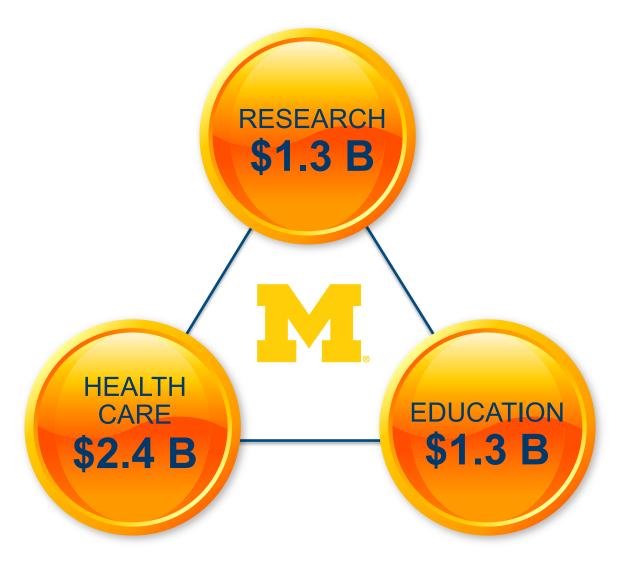


### **PUBLIC UNIVERSITIES**

ALL UNIVERSITIES

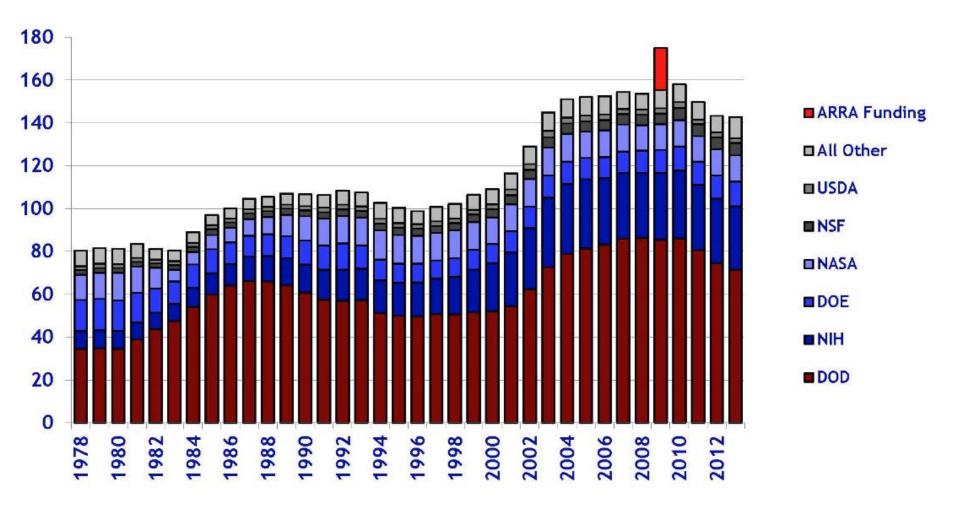


## **U-M's CORE FUNCTIONS**



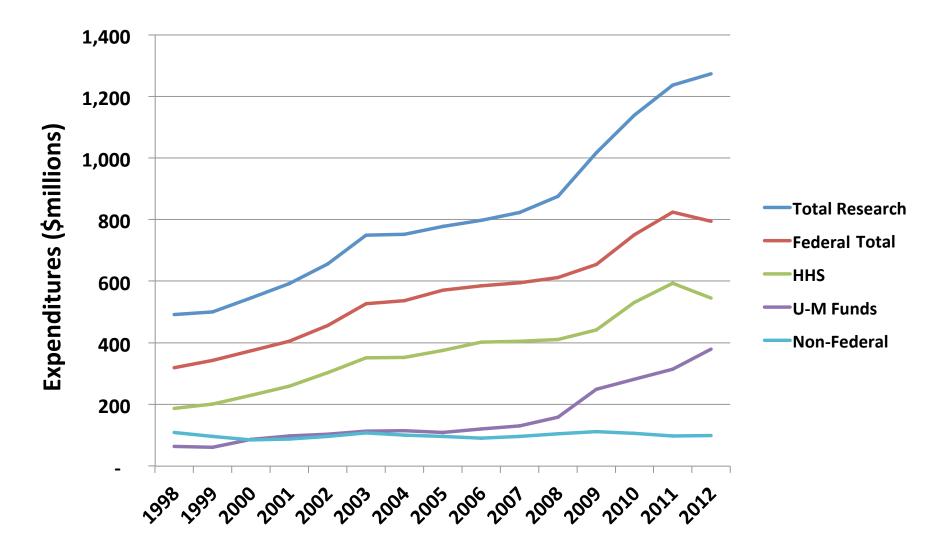


## **TOTAL FEDERAL R&D SPENDING**



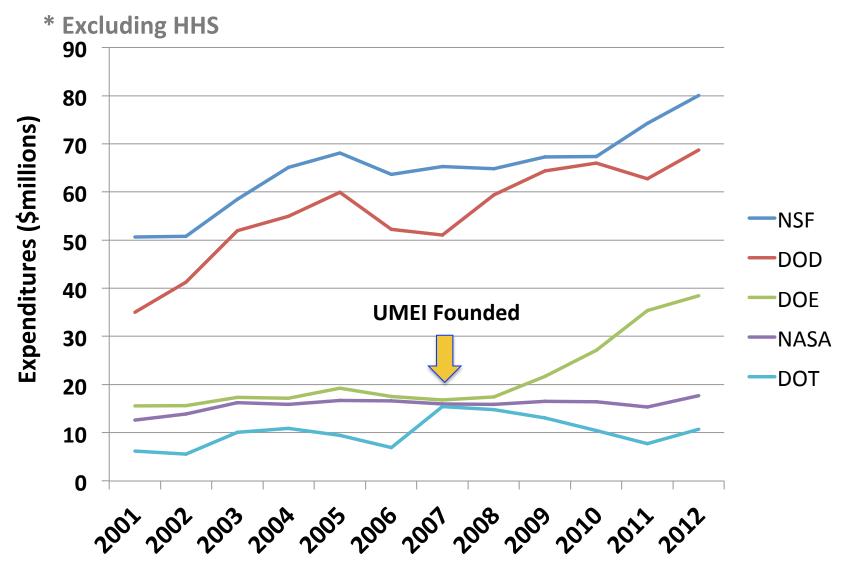


## **GROWTH OF U-M RESEARCH**



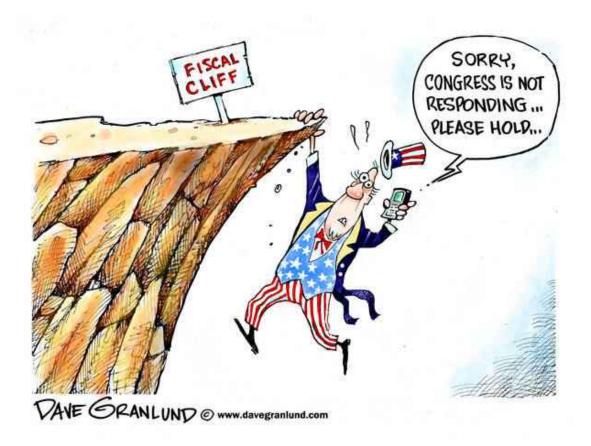


## **RESEARCH BY AGENCY AT U-M\***





## SEQUESTRATION





## THE OUTLOOK

#### No matter what happens with sequestration, we are entering a period of flat or declining federal funding for university research.



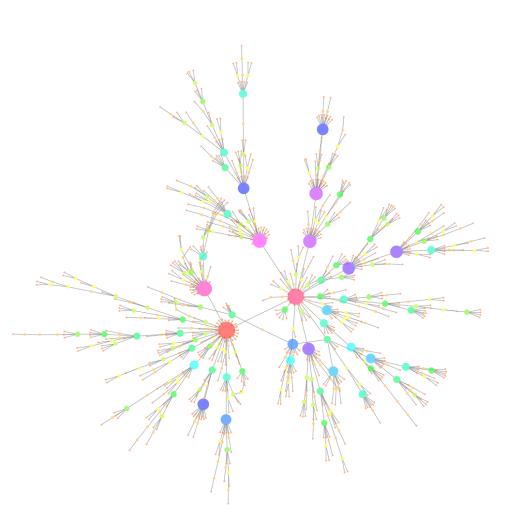
## WHAT CAN U-M DO?

- Build on our strengths
- Strengthen ties to industry
- Focus on and shape federal priorities
- Anticipate funding trends
- Engage globally
- Seize opportunities

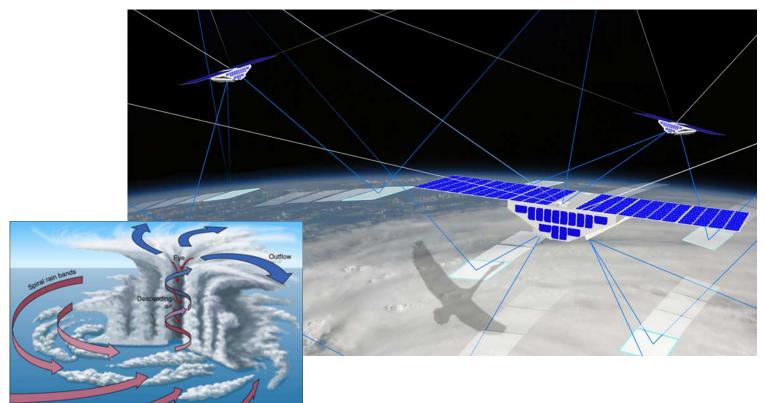


## **U-M'S STRENGTHS**

- Size
- Breadth
- Excellence
- Interdisciplinary
- Systems Focus



## CYGNSS: CYCLONE GLOBAL NAVIGATION SATELLITE SYSTEM

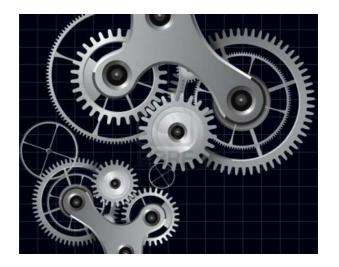


- First NASA program fully managed by a university
- Mission: Measure core hurricane winds in real time



## **WORKING WITH INDUSTRY**

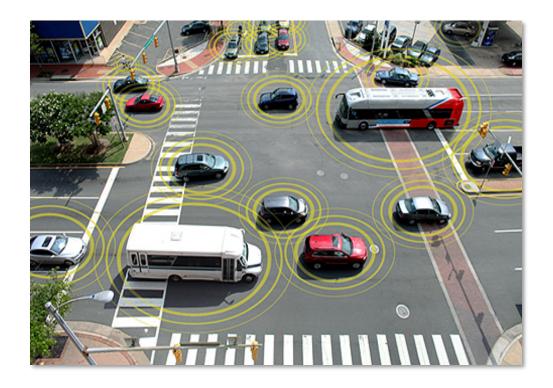
- Simplify Tech Transfer & Business Engagement
  - "Michigan Research Advantage"
- Expedite Clinical Trials
- Improve Administrative Processes (ORSP)





# Building on our strengths TRANSFORMING MOBILITY

- 80% reduction in crashes
- 80% reduction in emissions
- 100% increase in new mobility startups

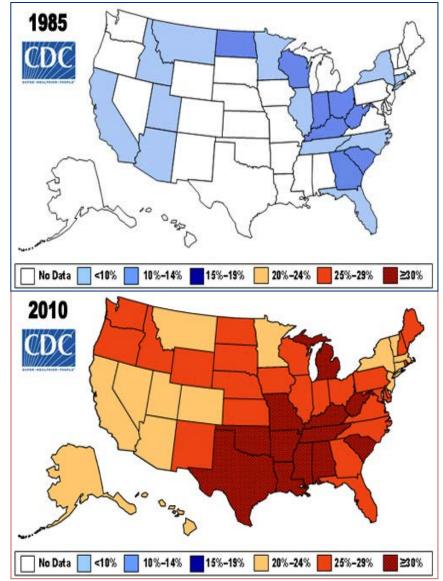




## SOCIETY 2030

- Health across the lifespan
- Consumption of goods and services
- Living, mobility and working environment
- The worker and the workplace

#### Increase in obesity: 1985 to 2010





## THE FUTURE

- UM is uniquely positioned to grow in both quality and influence
- Self-investment and funding diversification will lead to long-term success
- Our principal objective: Attract, retain and produce the talent and ideas that will drive the US economy into the future



## **Questions?**

