Ohio State is Working for Ohio
Outline of Topics

• Interdisciplinary research
• Federally funded research
• Third Frontier success
• International research
• Student research initiatives
• Commercialization
More than 5000 researchers
14 colleges
64,000+ students across all campuses

Astounding discoveries every day, solving global human problems
Depressed pregnant women at higher risk for severe flu infection (Oct. 2009)

Movement of South American cities after earthquake in Chile (Mar. 2010)

TV drama more persuasive than news program (Feb. 2010)

Tiny mutation indicates proper drug dosage (May 2010)

Disadvantaged preschoolers lack motor skills (Apr. 2010)
Top OSU Research Stories – 2010

- Indonesian ice field gone in matter of years (Aug. 2010)
- Semiconductor converts heat to computing power (Sept. 2010)
- People reject popular opinions that oppose their views (Aug. 2010)
- Key enzyme repairs sun-damaged DNA (Jul. 2010)
- Warning system to prevent swimmers from getting sick at lakes (Aug. 2010)
Faculty Awards and Honors

- 10 members of National Academy of Sciences
- 11 members of National Academy of Engineering
- 6 Institute of Medicine members
- 14 American Academy of Arts and Sciences members
- 160 fellows of the American Association for the Advancement of Science
- Numerous Sloan, Guggenheim, and Fulbright Scholars
Targeted Investments in Excellence (TIE)

Public Health Preparedness
Targeted Investments in Excellence (TIE)

Climate, Water, and Carbon
Targeted Investments in Excellence (TIE)

Population and Health
Centers for Innovation

- Poverty
- Hunger
- Health and disease
- Industrial competition
- Economic systems
- Climate change
- Access to energy
- Art and culture

The State of Research at The Ohio State University
Centers for Innovation

International Poverty Solutions Collaborative

- Health and well-being
- Designing physical environments
- Developing business and economic opportunities
- Families, schools, and communities
Centers for Innovation

Weinland Park

• Housing development
• Weinland Park Elementary School
• Schoenbaum Family Center
• Local food systems
Centers for Innovation

Food Innovation Center
- Designing foods for health
- Food safety
- Biomedical nutrition/disease prevention
- Global food strategy and policy
University System of Ohio Centers of Excellence

Climate, Energy, and the Environment
Health and Well-Being, Human Behavior, and Bioinformatics
University System of Ohio Centers of Excellence

Transportation for Tomorrow’s Economy
University System of Ohio Centers of Excellence

Materials, Manufacturing Technologies, and Nanotechnology
University System of Ohio Centers of Excellence

Food Production, Supply, and Safety
ARRA Investments at Ohio State

Clean Coal Technology (ARPA-E)
ARRA Investments at Ohio State

Predicting Osteoarthritis (NIH)
## American Recovery and Reinvestment Act (ARRA)

**ARRA Awards to Ohio State (Totals as of 10/20/10)**

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Number of Awards</th>
<th>Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Institutes of Health</td>
<td>172</td>
<td>$80,696,424</td>
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<tr>
<td>National Science Foundation</td>
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<td>$16,899,591</td>
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<td>Department of Energy</td>
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<td>Department of Defense</td>
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<tr>
<td>Department of Education</td>
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<td>$46,155,416</td>
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<tr>
<td>Department of Justice</td>
<td>3</td>
<td>$156,508</td>
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<tr>
<td>U.S. Department of Agriculture</td>
<td>2</td>
<td>$133,034</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>239</strong></td>
<td><strong>$157,491,807</strong></td>
</tr>
</tbody>
</table>
College of Education and Human Ecology
Third Frontier Program

- 60+ Ohio State projects
- Facilities and laboratories
- Industry-university collaborations
- Product development
Third Frontier Program

- Wright Center in Biomedical Imaging
- Biomass (OARDC)
- Center for Automotive Research (CAR)
- Ohio Research Scholars Program
Ohio Research Scholars

David R. Cole
- Ohio Research Scholar in Subsurface Extraction and Carbon Sequestration Sciences

Katrina Cornish
- Endowed Chair in Bio-based Emergent Materials

Datta Gaitonde
- Ohio Research Scholar in Advanced Propulsion Systems Integration and the John Glenn Chair for Technology and Space Exploration
Internationalizing Ohio State Research
Celebrating 50 Years of Excellence: Byrd Polar Research Center
Synchronous Objects
Student Research

Denman Undergraduate Research Forum and Undergraduate Research Day
Student Research

Buckeye Bullet
Student Research

Solar Decathlon
Student Research

Honda iDream Challenge
Technology Commercialization

The State of Research at The Ohio State University
Innovator of the Year Award

- New university award
- Recognition of researchers actively working to promote commercialization of university intellectual property
- Foster a climate that encourages entrepreneurial activity

The winners are...
2010 Early Career Innovator of the Year
2010 Innovator of the Year Award
Thank You

Please join us for a reception honoring the *Innovators of the Year* in the Great Hall Meeting Room