

**Strategic Plan  
Progress Update  
Jan-Dec 2016**

WASHINGTON STATE  UNIVERSITY

**Washington State University will be one of the nation's leading land-grant universities, preeminent in research and discovery, teaching, and engagement.**

**Theme 1**

**EXCEPTIONAL RESEARCH,  
INNOVATION AND  
CREATIVITY**

**Theme 2**

**TRANSFORMATIVE STUDENT  
EXPERIENCE**

**Theme 3**

**OUTREACH AND  
ENGAGEMENT**

**Theme 4**

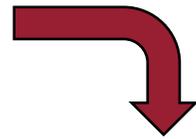
**INSTITUTIONAL EFFECTIVENESS:  
Diversity, Integrity, and Openness**



# Mapping of Themes, Goals Sub-goals, Initiatives & Metrics

## Themes:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_



## Goals:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_



## Sub-goals:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_



## Initiatives:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

## Metrics:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_



# The Drive to 25: To be recognized as a top-25 public research university by 2030

## AAU metrics

- Federal research and development expenditures
- Faculty awards
- National Academy membership
- Citations of faculty scholarship

## Peer-comparisons

- Total research and development expenditures
- Doctorates awarded
- Annual giving
- 6-year graduation rate

## WSU-specific metrics

- % of undergraduates involved in research, scholarship, and creative discovery
- Placement rate of graduates
- % of underrepresented minority faculty, staff, and students



# Theme 1 - Exceptional Research Innovation and Creativity

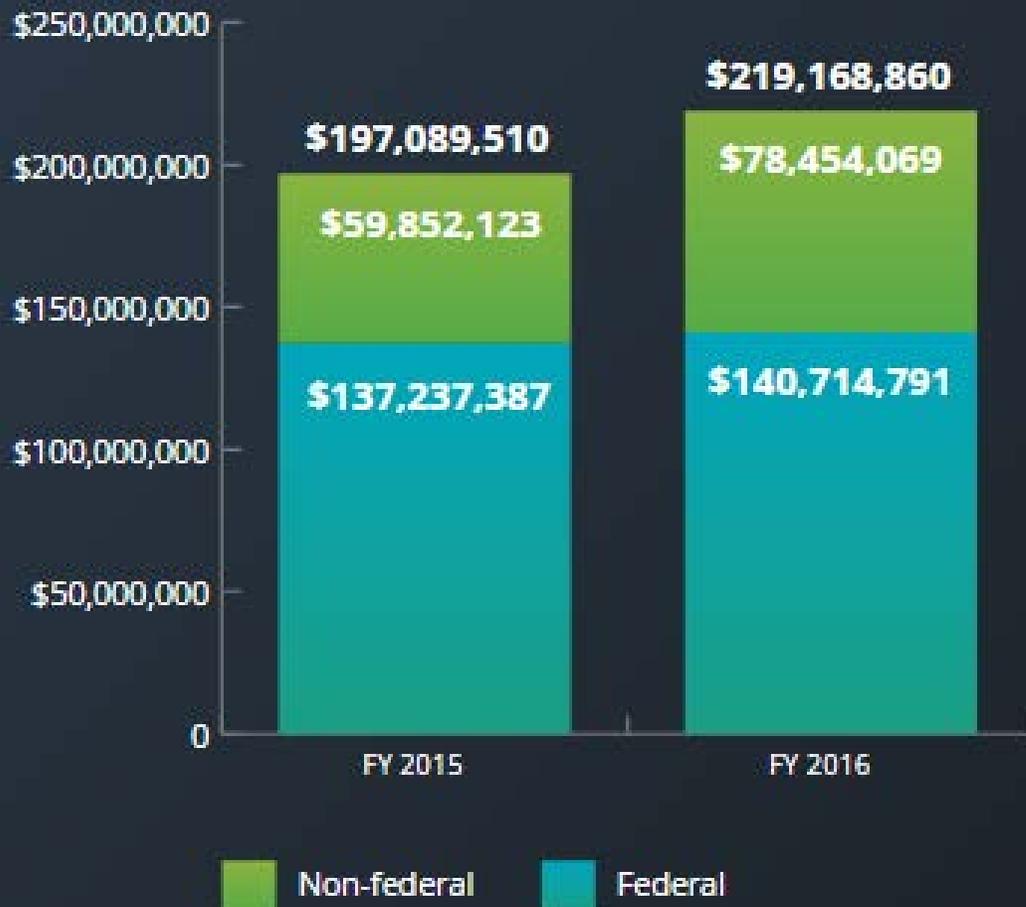
**WSU continues to make significant progress on Theme 1 subgoals and has launched initiatives to increase momentum.**

- Strategic Reallocation grants competition funded five Grand Challenge research projects and one Student Success project
- Research expenditures up
  - Total R&D Expenditures ↗ \$1M
  - Federal R&D Expenditures ↗ \$1.7M
- Number of citations per faculty member and H Index ↗ to 27.15 from 22.47 in 2014
- Multi-Institution competitive grants ↗ to 516 (above target of 508) from 500
- Grant activity for multi-unit projects ↗ to 238 awards, from 223 in 2015
  - Award amount ↗ to \$63.8M from \$49.3M in 2015



# Drive to 25 Momentum

## Sponsored project awards



- Total research and development expenditures FY 2016: \$334.1M
- Federal research and development expenditures FY 2016: \$136.6M



# WSU Faculty Earned Prestigious Honors

## Newly elected to the Washington State Academy of Sciences



**Monica Kirkpatrick Johnson**

The professor of sociology and Honors College distinguished professor studies work, family, and education across the life course.



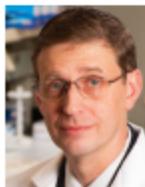
**Brian Lamb**

The Regents professor and Boeing distinguished professor is an atmospheric scientist who leads WSU's Laboratory for Atmospheric Research.



**Jill McCluskey**

The distinguished professor of sustainability serves as associate director of the school of Economic Science.



**John Roll**

The senior vice chancellor at WSU Health Sciences Spokane was also recently named associate vice president for health science research. In that position, he will help develop an integrated, university-wide health sciences research agenda.

## New fellows to the National Academy of Inventors



- H. Keith Moo-Young, chancellor of WSU Tri-Cities, who led an industry consortium research project on manufactured gas plant remediation strategies and holds a patent for a process to quantify coal tar in the environment



- Dr. Katrina Mealey, whose MDR1 patent is licensed to nine different companies on four continents, brought over \$1 million in royalties to WSU, and has led to a new partnership with Mars Inc.



- Dr. Diane Cook, who holds several patents in environmental sensor-driven activity model development and cofounded Adaptelligence, a startup company that focuses on activity recognition using sensors in wearable and mobile devices



# Flight Fueled by Forest Residuals



- Alaska Airlines flew the first commercial flight using the world's first renewable, alternative jet fuel made from forest residuals and produced by the WSU-led Northwest Advanced Renewables Alliance (NARA).



# Development of Energy Systems Innovation Center

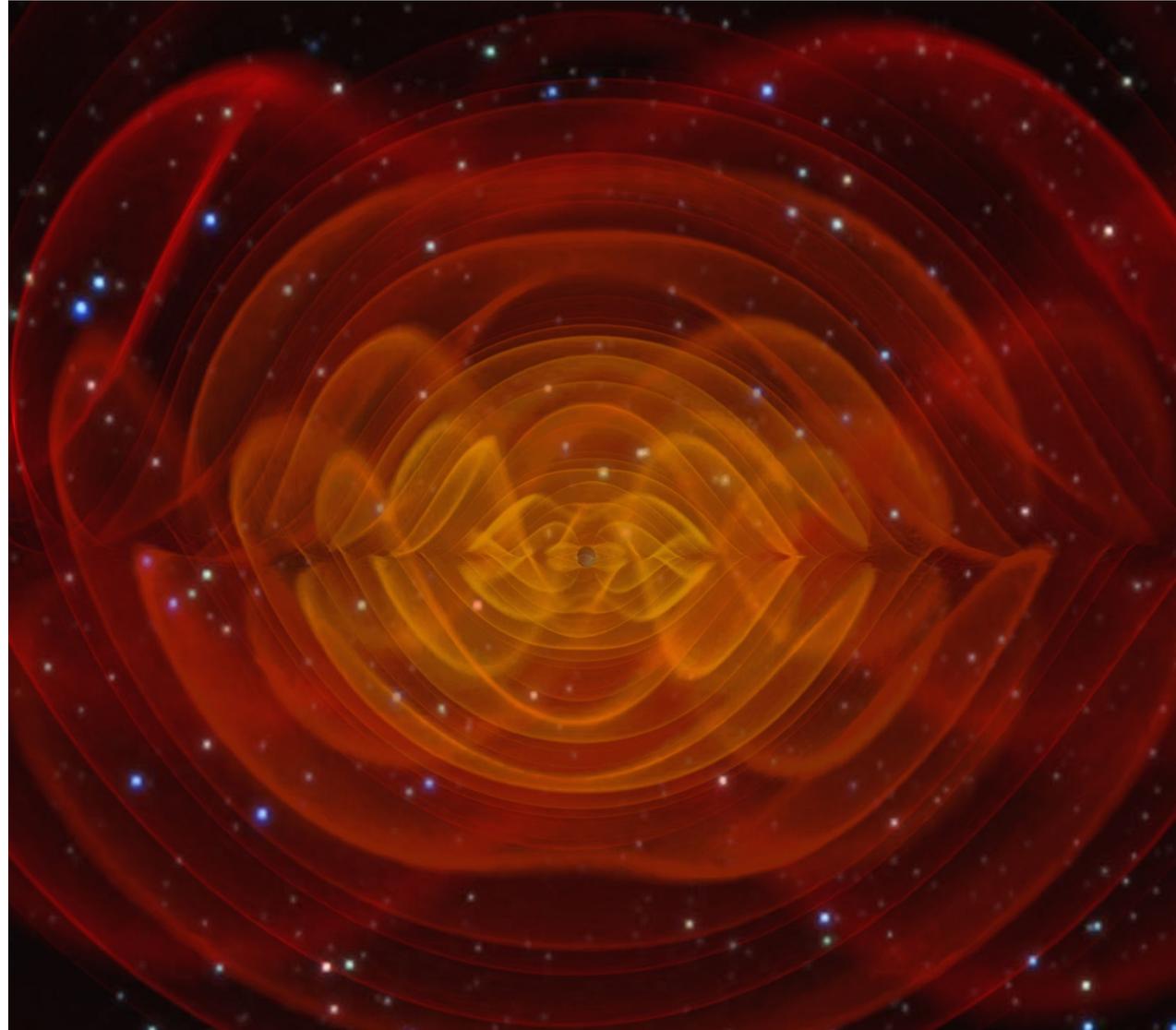


- The solar array at the WSU Research Park, part of the most comprehensive “smart city” lab in the U.S. to test smart grid technologies, was completed in 2016.
- WSU faculty from engineering, communication, psychology, sociology, economics, and more are contributing.



# WSU Researchers Honored for Gravitational Waves Discovery

- WSU scientists and engineers working at the Laser Interferometer Gravitational-wave Observatory detector (LIGO) at Hanford helped detect gravitational waves.
- Sukanta Bose and his team of WSU researchers were among those awarded a Breakthrough Prize in Fundamental Physics for the discovery, which confirmed Einstein's general theory of relativity.



# Theme 2 - A Transformative Student Experience

All campuses are growing, making WSU its most diverse ever. Our focus remains on supporting students to complete their degrees.

- Total enrollment ↗ to 30,142 from 29,686 in 2015
  - Bachelor's degrees awarded in high-demand fields ↗ to 1,971 from 1,868
  - Bachelor's degrees awarded to low-income students ↗ to 1,914 from 1,771
  - Graduate/professional degrees ↗ to 1,452 from 1,214
- Percentage of the student body from under-represented groups ↗ in all areas except professional degrees
- First-year retention rate ↗ 1%; six-year graduation rate ↗ 2.4%
- WSU the top-ranked public institution in the country, and no. 4 overall, for “adding value,” according to *Money Magazine*



# WSU Everett Team Excelled at International University Rover Challenge



- Nearly 20 Voiland College of Engineering and Architecture students competed as part of the team, which took second at the world's premier college robotics competition.



# WSU Student Entrepreneurs Won Regional Health Innovation Challenge



- Undergraduate students Emily Willard and Katherine Brandenstein won first place and \$10,000 for their prototype of SafeShot, a lid that attaches to a multi-use injection vial to sterilize the needle each time it enters the vial.
- They are working to bring this product to market through their start-up company, *Engage*.



# WSU Scholars Engaged on Campus and Worldwide

- Honors College enrolled its largest class ever (270 students).
- WSU students earned Fulbright, Boren, Goldwater, Udall, and other Distinguished Scholarships.



Boren Scholarship winner Jackson Peven spending his junior year in Harbin, China



# New College of Medicine Launched



The new medical school's admissions committee prepared for applications to arrive.

- The Elson S. Floyd College of Medicine earned preliminary accreditation by the Liaison Committee on Medical Education (LCME) in October of 2016.
- Accreditation from the Northwest Commission on Colleges and Universities followed in early 2017.



# Theme 3 - Outreach and Engagement

**WSU's avenues for outreach and engagement are expanding, with programs and projects in place to increase impact.**

- Patents filed ↗ to 155 from 93
- Royalties/other ↗ to \$1.9M from \$1.2M
- Undergraduate enrollment ↗ at all sites



# Major Internationalization Initiative Launched



- INTO WSU partnership launched to develop academic pathway programs for international students enhance international enrollment on campuses and opportunities for domestic students to experience global perspectives.
- New International Programs Intensive American Language Center (IALC) launched at Tri-Cities.



# WSU Faculty and Student Teams Led Patent Breakthroughs for Societal Impact



Dr. Susmita Bose working with student Sahar Vahabzadeh to improve materials for hip and knee replacements.

- WSU researchers Amit Bandyopadhyay and Susmita Bose have received six patents over the past two years on technology that can improve recovery time and outcomes for common surgical procedures.
- Hakan Gurocak has led the development technology that conveys a sense of touch.



# Theme 4 - Institutional Effectiveness: Diversity, Integrity and Openness

Employee Engagement Survey indicated high employee satisfaction, and high marks for accountability, innovation, and creativity. More engagement needed to assess and achieve goals for diversity, climate and transparency.

- Number of staff from underrepresented groups: AP staff up to 138, from 125. Classified Staff, up to 135 from 128.
- Employee Engagement indicators: I am recognized for doing a good job: 53.4 percent, up from 48.67 percent. My supervisor gives me ongoing feedback: 50.84 percent, up from 44.07 percent.
- New tools such as Activity Insight and Academic Performance Solutions will help WSU track and report on scholarly activity and engagement throughout the year.



# Crimson Spirit Boosts Customer Service

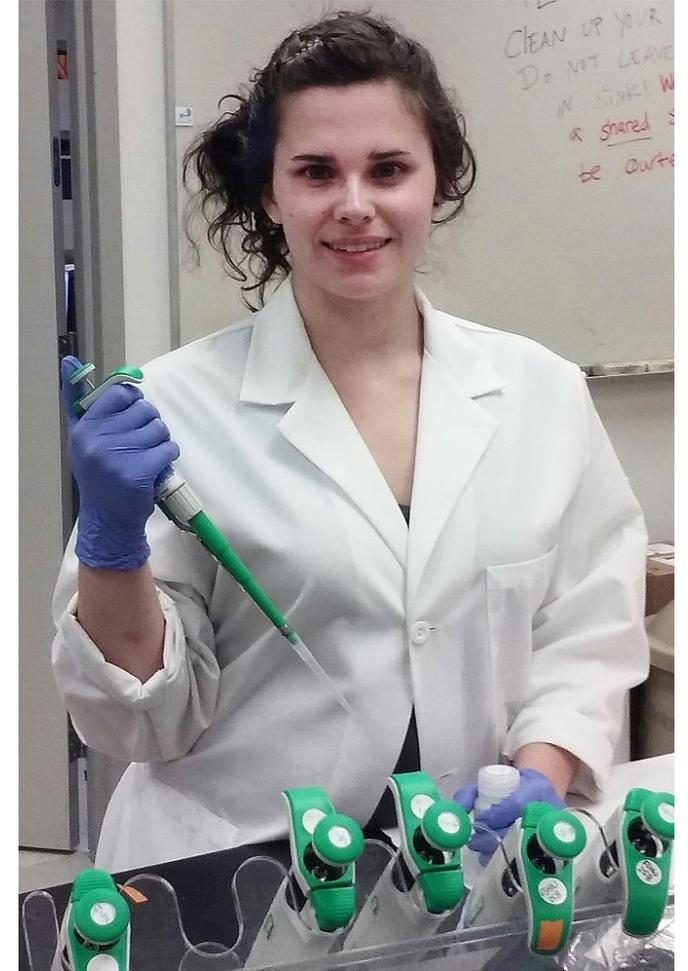


- A new training program emphasizes the values of quality customer service, creativity in problem solving, extra effort, and trust and respect in difficult situations.
- The Crimson Spirit Customer Service training program began in March of 2016, and 758 employees completed the training throughout the year, either in person or online.



# Mentor Program Supports Women in STEM

- The School of Biological Sciences (SBS) launched the WiSTEM Initiative – Women in Science, Technology, Engineering and Mathematics – to connect young women interested in STEM careers with mentors, networking opportunities and a supportive community of like-minded individuals.
- WiSTEM hosts informal meetings the second Wednesday of most months where undergraduates can talk with faculty and peers about their concerns, challenges and successes.
- WiSTEM also is supporting the new WSU student chapter of [Scientista](#), a national organization that empowers pre-professional women in STEM through content, communities and conferences.



# Drive to 25 Shared Vision

**Washington State University will be recognized as one of the nation's top 25 public research universities, preeminent in research and discovery, teaching, and engagement by 2030.**

The Drive to 25 builds on the cornerstones of our institutional Strategic Plan and its two pivotal goals:

- WSU will offer a transformative educational experience to undergraduate and graduate students
- WSU will accelerate the development of a preeminent research portfolio



# Thank you!

The successful pursuit of Washington State University's mission requires the efforts of our entire community.

[strategicplan.wsu.edu](http://strategicplan.wsu.edu)

[wsu.edu/drive-to-25](http://wsu.edu/drive-to-25)

