



# Research Update

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PEER INSTITUTION COMPARISON

# NSF Higher Education Research and Development (HERD) Total Expenditures

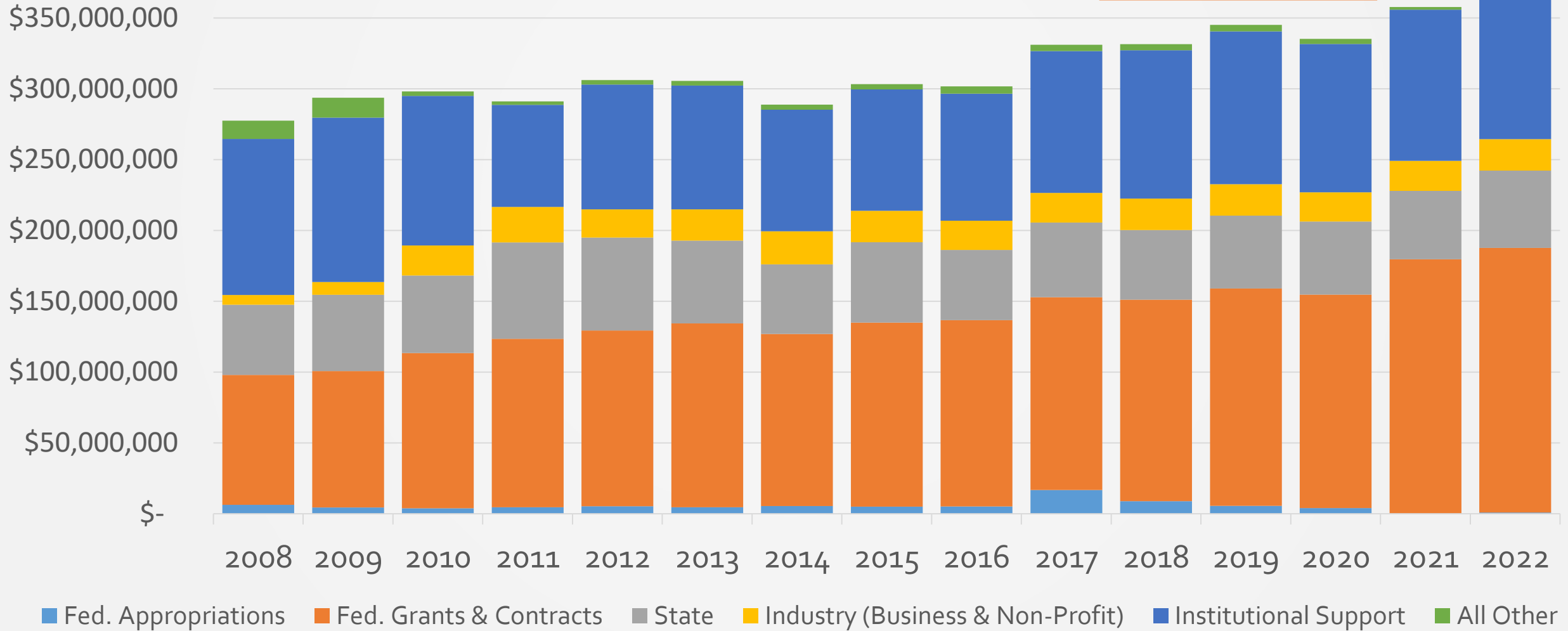
Funding sources include:

- Federal government funding
- State and local government funding
- Institution funds
- Business funding
- Other sources (e.g., nonprofits)

WSU DATA

# NSF HERD R&D Expenditures

2008=\$277.4M  
2022=\$368.4M



# NSF HERD Total R&D Expenditures

(dollars in thousands)

Peer Rank	Institution	2022 Ranking	2018	2019	2020	2021	2022
1	University of Maryland <sup>1</sup>	19	n/a	1,096,600	1,103,062	1,142,264	1,228,550
2	Purdue University, West Lafayette	41	631,574	663,927	687,144	679,482	754,627
3	Virginia Polytechnic Institute and State University	53	531,636	541,969	556,341	542,045	591,861
4	North Carolina State University	55	509,841	541,100	546,290	547,118	583,203
5	University of Georgia	56	453,249	477,536	482,786	493,944	545,631
6	Colorado State University, Fort Collins	64	374,955	398,477	407,302	447,197	456,911
7	University of Missouri, Columbia	70	294,686	310,421	332,180	388,779	432,310
8	Iowa State University	76	361,206	358,474	363,107	360,275	393,184
<b>9</b>	<b>Washington State University<sup>2</sup></b>	<b>77</b>	<b>331,424</b>	<b>344,997</b>	<b>335,201</b>	<b>357,648</b>	<b>368,396</b>
10	Louisiana State University, Baton Rouge	84	286,726	296,497	286,733	296,673	344,556
11	University of Nebraska, Lincoln	87	308,053	316,820	320,463	320,758	340,260
12	University of Tennessee, Knoxville <sup>3</sup>	89	259,607	247,693	320,407	316,273	324,435
13	Mississippi State University	97	244,102	264,526	280,485	275,143	303,418
14	Oregon State University	99	272,433	263,830	268,385	376,955	297,934

<sup>1</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership.

<sup>2</sup> Total WSU 2016 NSF HERD expenditures internally corrected to \$301.6M. NSF HERD website shows prior reported incorrect amount of \$334.1M.

<sup>3</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Prior to FY20, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

# NSF HERD Total R&D Expenditures by Tenure-Tenure Track Faculty Member

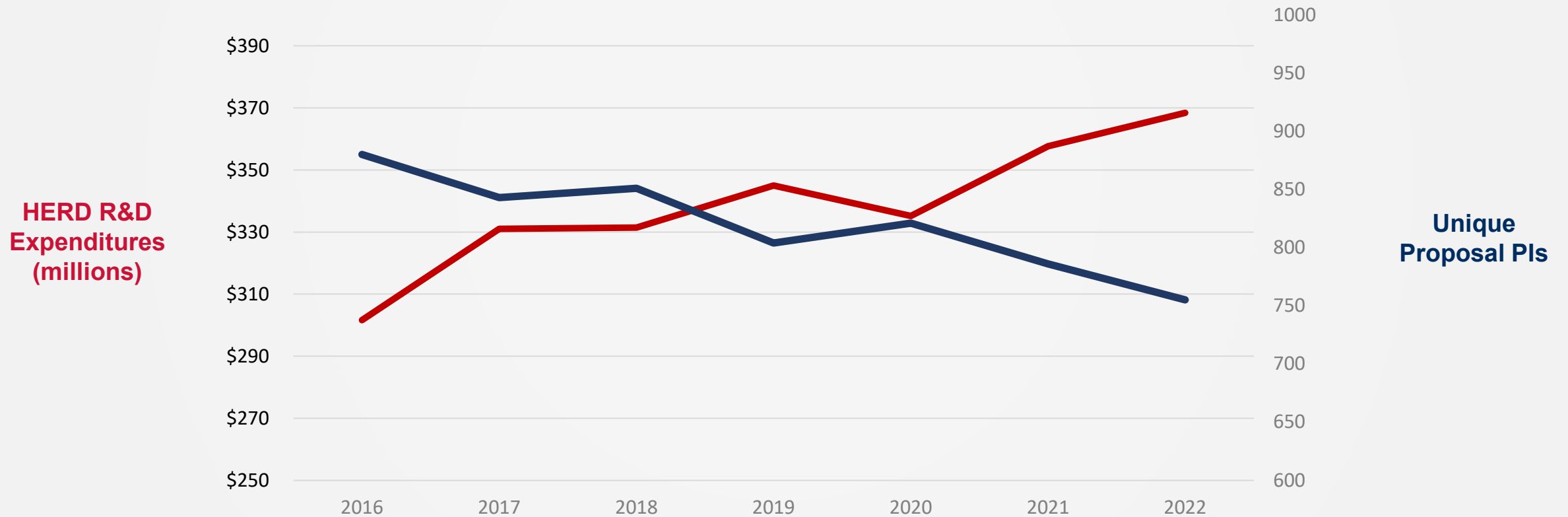
(dollars in thousands)

Peer Rank	Institution	2018	2019	2020	2021	2022
1	University of Maryland <sup>1</sup>	525,955	579,394	589,033	622,374	680,147
2	University of Missouri, Columbia	272,605	284,616	329,000	378,804	436,544
3	Colorado State University, Fort Collins	350,098	367,260	365,840	415,868	432,271
4	Purdue University, West Lafayette	370,715	383,699	389,685	385,704	429,424
<b>5</b>	<b>Washington State University</b>	<b>365,810</b>	<b>393,533</b>	<b>389,920</b>	<b>413,785</b>	<b>417,351</b>
6	North Carolina State University	369,986	391,912	395,576	379,153	413,033
7	Mississippi State University	338,404	366,210	389,382	372,150	407,655
8	Virginia Polytechnic Institute and State University	359,133	361,634	372,550	360,482	395,973
9	Oregon State University	292,729	288,654	302,349	318,705	362,582
10	Iowa State University	283,447	281,303	293,776	296,441	339,244
11	University of Nebraska, Lincoln	283,137	300,778	300,059	311,516	338,230
12	University of Georgia	281,288	289,240	287,887	296,485	333,169
13	Louisiana State University, Baton Rouge	249,183	267,516	249,478	262,542	311,448
14	University of Tennessee, Knoxville <sup>2</sup>	284,325	276,827	277,810	275,180	282,191

<sup>1</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership.

<sup>2</sup> The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Prior to FY20, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

# Increasing Research Expenditures from Fewer Research Active Faculty



# Strategic Planning for Research at WSU

## Strengths

Precision agriculture and Sustainability

Energy Futures

Shock Physics and Materials

Infectious Diseases

Addiction and Mental Health

Water Resources and Hydrology

National Security

## Shared/Multidisciplinary

Human Health and Community Health

Artificial Intelligence and Robotics

Sustainability, Environment, and Climate change

Diversity, Equity, Inclusion and Social Justice

**Thank you!**  
Questions?



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