

The Future of Land-Grant Universities



Sam Pardue, Dean and Director



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1862

- 1st US income tax (3% of incomes > \$600, 5% of incomes > \$10,000)
- "Battle Hymn of Republic" published
- 1st Federal tax levied on tobacco
- Richard Gatling patents Gatling machine gun



1862 Morrill Land-Grant Act

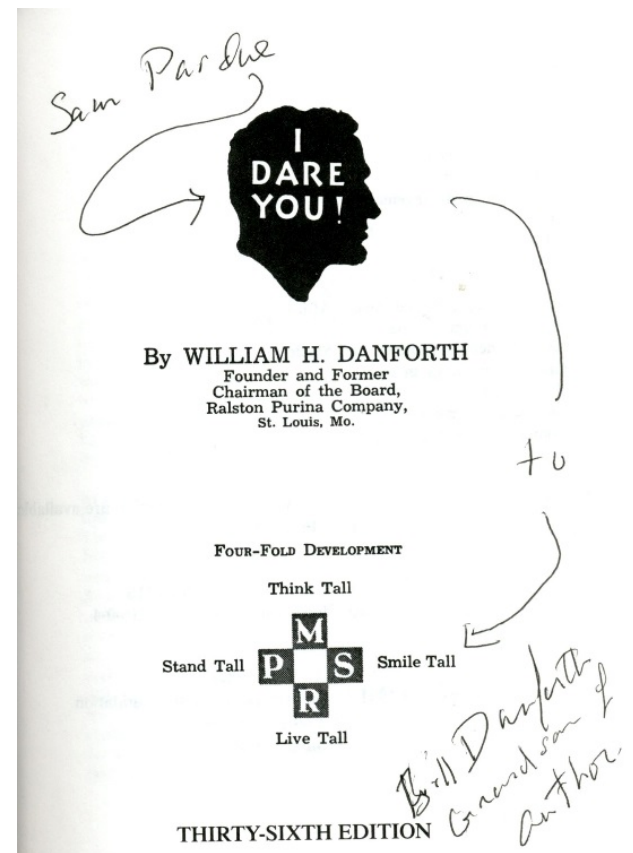
“... to create a college where the leading object shall be, without excluding other classical and scientific studies and including military tactics, **to teach such branches of learning as are related to agriculture and the mechanic arts**, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life.”





William Henry Danforth II

- Grandson of Ralston-Purina founder
- Princeton Undergraduate
- Harvard Medical School
- Naval physician during the Korean War
- Chancellor of Washington University in St. Louis for 24 years



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Image Source: <http://supportagresearch.org/william-danforth/>



“A successful university is a noble institution. It is a statement of faith; faith that human beings can be educated and that human thought is worthwhile, that the thinking, analyzing animal called man can



use his unique talents for the benefit of himself and his fellows; that we can learn from our past; that we can change; that by intelligence we can improve our lot and the lot of our children and their children."



Trends in Public Higher Ed

- Rising Costs (2.5X inflation)
- Declining State Support
- Isolation of Scientists / Communication Failures
- Questioning the Value of Higher Ed
- Aging Infrastructure
- Changing Demographics



Are Public Universities Going to Disappear?

Facing giant budget cuts, the chancellor of the University of Kansas worries aloud about the future of state-funded higher education.



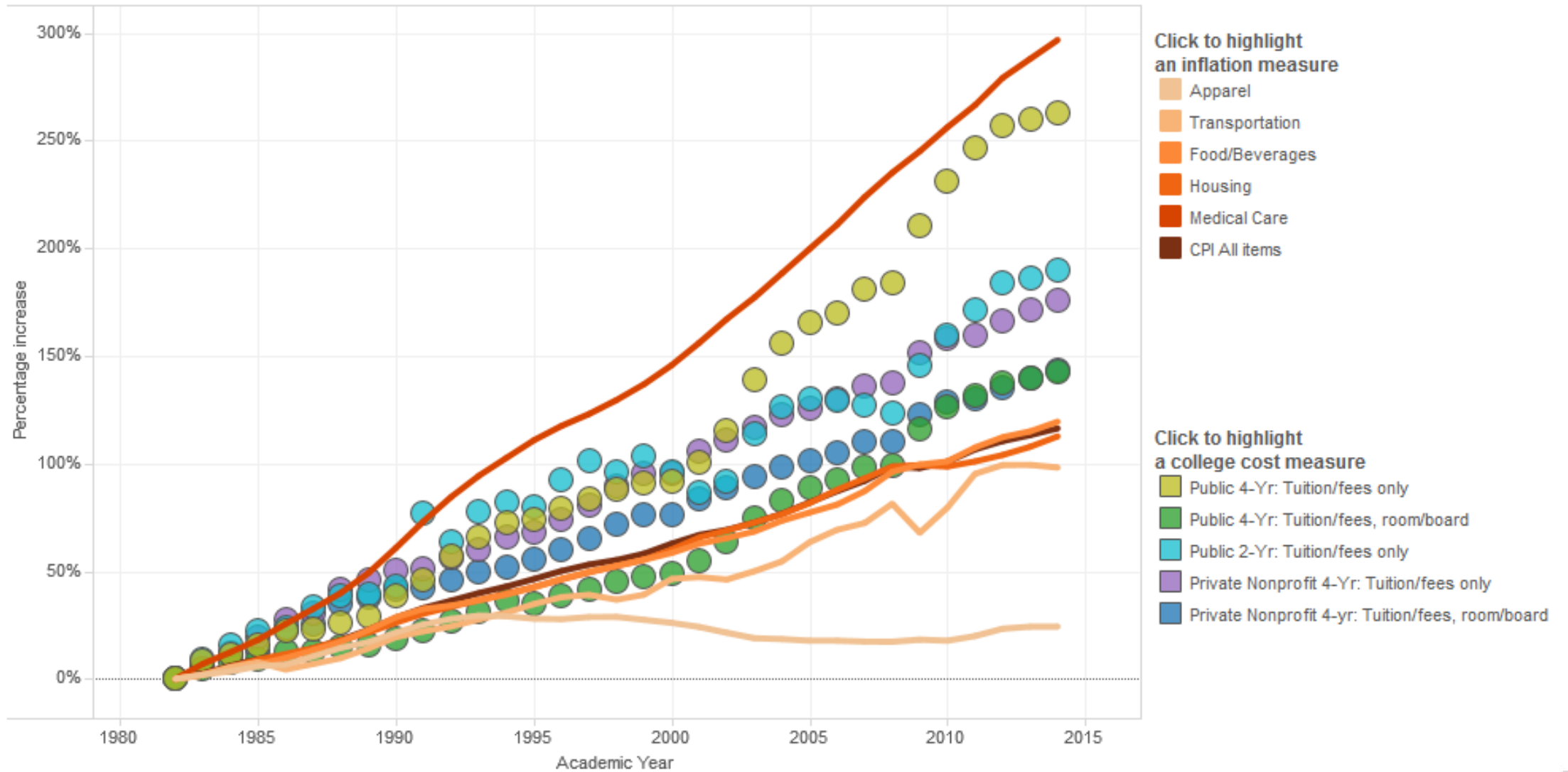
Bernadette Gray-Little, the chancellor of the University of Kansas (Charlie Riedel / AP)

The Atlantic

ALANA SEMUELS | OCT 21, 2015

SOURCE: <http://www.theatlantic.com/business/archive/2015/10/are-public-universities-going-to-disappear/411685/>





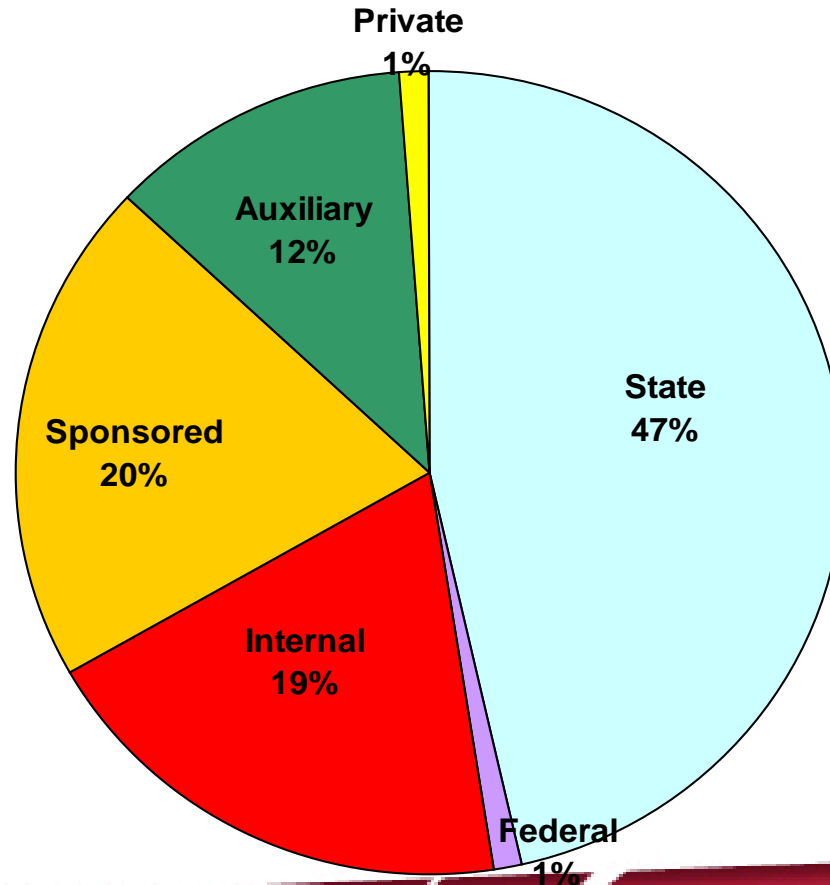
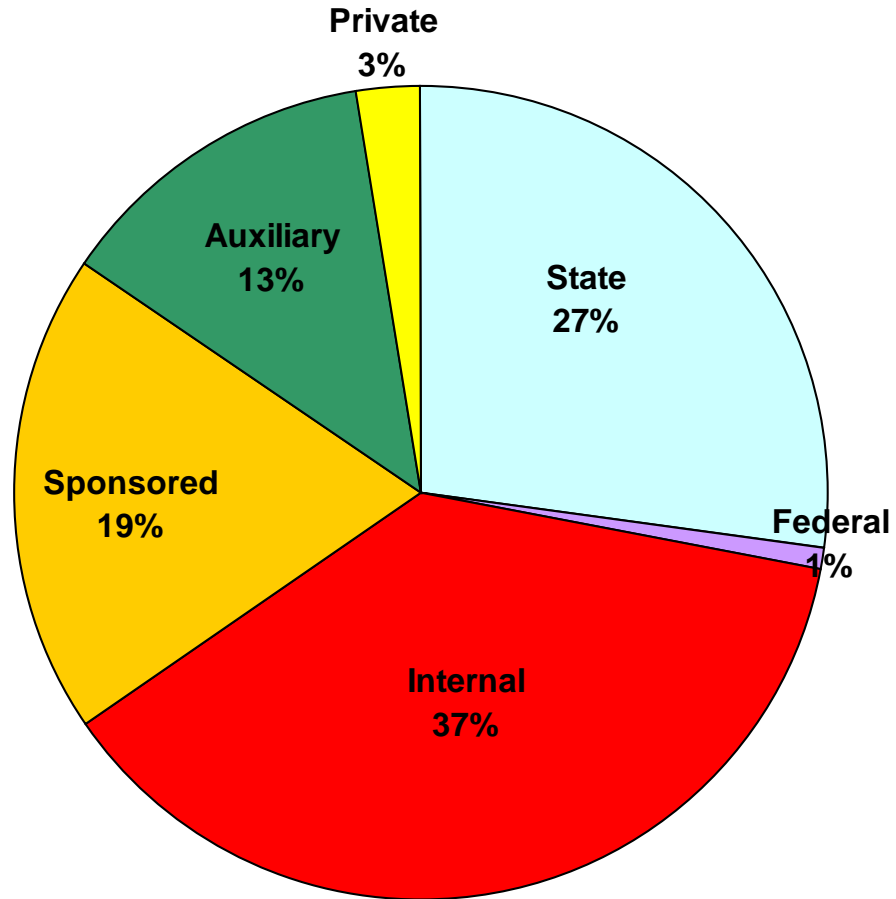
<http://www.cnbc.com/2015/06/16/why-college-costs-are-so-high-and-rising.html>



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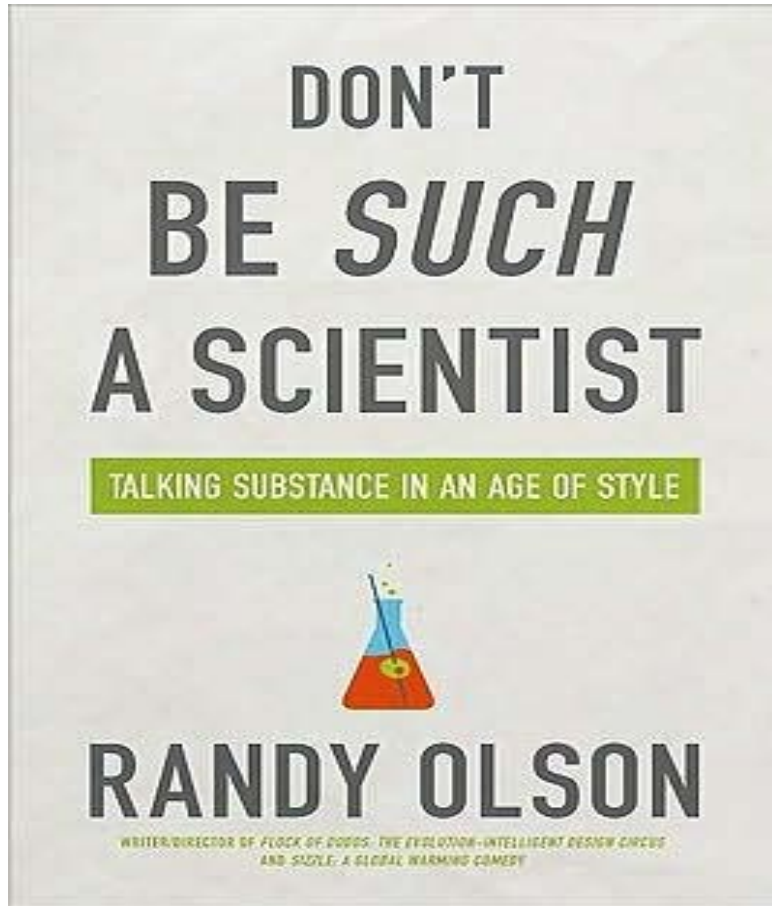
UGA - Funding Source Summary



Talking to Ourselves:

How the Public Disconnect Threatens Science

Scientistsspeak in a language that even they don't understand. Or so people think. Most scientists don't care how they are perceived, but in our media-dominated age, style points count.



A Prescription for Disaster?

“We've arranged a global civilization in which most crucial elements profoundly depend on science and technology. We have also arranged things so that almost **no one understands** science and technology.





This is a prescription for disaster. We might get away with it for a while, but sooner or later this combustible mixture of **ignorance and power is going to blow up in our faces.”**

Carl Sagan



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U.S.

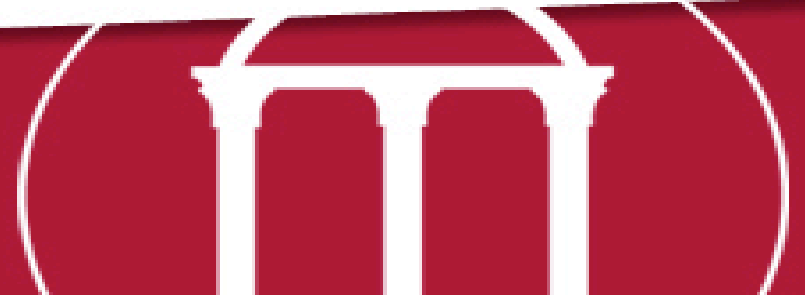
Recent Grads Doubt College's Worth

One of the main reasons is student debt, which is delaying millennials from starting families, businesses



<http://www.zerohedge.com/news/2015-09-29/getting-really-ugly-really-fast-two-thirds-recent-graduates-say-us-college-education>

<http://www.wsj.com/articles/recent-grads-doubt-colleges-worth-1443499440>



Higher education

Not what it used to be

American universities represent declining value for money to their students

Dec 1st 2012 | CHICAGO | From the print edition



6.7k



“...rising fees and increasing student debt, combined with shrinking financial and educational returns, are undermining at least the perception that university is a good investment.”

<http://www.economist.com/news/united-states/21567373-american-universities-represent-declining-value-money-their-students-not-what-it>





FEDERAL RESERVE BANK OF SAN FRANCISCO

ECONOMIC RESEARCH

FRBSF ECONOMIC LETTER

2014-13

May 5, 2014

Is It Still Worth Going to College?

BY MARY C. DALY AND LEILA BENGALI

<http://www.frbsf.org/economic-research/publications/economic-letter/2014/may/is-college-worth-it-education-tuition-wages/>



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Highlights of Key Findings

A National Study of Capital Infrastructure & Deferred Maintenance at Schools of Agriculture

Supported by the Board on Agriculture Assembly of the Association of Public and Land-grant Universities (APLU)

October 15, 2015

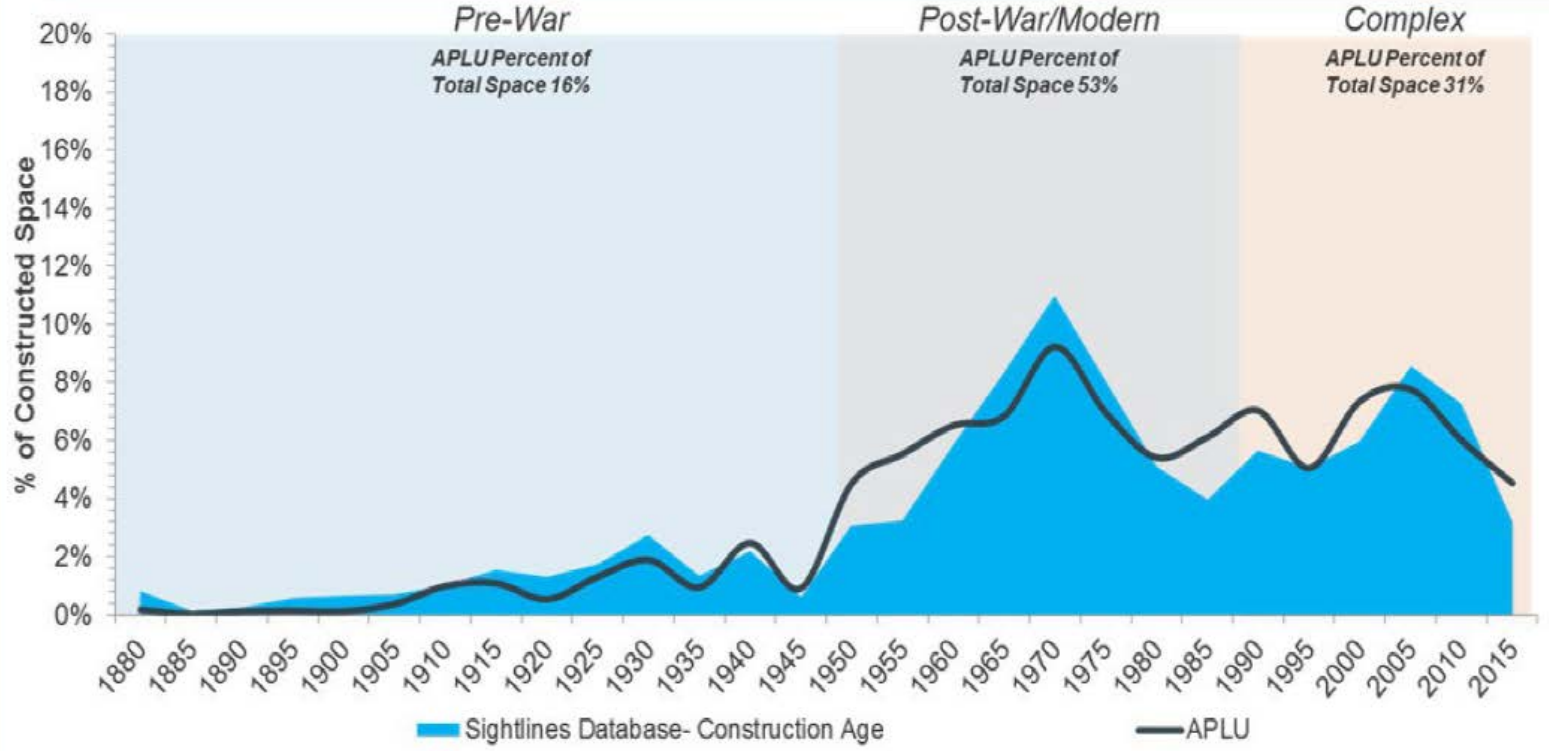


Sightlines, LLC | 405 Church Street, Suite 2 | Guilford, CT 06437

- \$8.4 billion in total deferred maintenance
- Replacement value of these buildings is \$29 billion.
- \$6.7 billion in deferred maintenance in facilities over 25 years old



<p>Pre-War</p> <p>Built before 1951</p> <p>Durable construction</p> <p>Older but typically lasts longer</p>	<p>Post-War/Modern</p> <p>Built between 1951 and 1990</p> <p>Lower-quality/Quick-flash construction</p> <p>Already needing more repairs and renovations</p>	<p>Complex</p> <p>Built in 1991 and newer</p> <p>Technically complex spaces</p> <p>Higher-quality, more expensive to maintain & repair</p>
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SOURCE: <http://www.sightlines.com/wp-content/uploads/2015/10/A-National-Study-of-Capital-Infrastructure-Deferred-Maintenance-at-Schools-of-Agriculture-Final.pdf>



For the first time ever, more American women than men are college graduates

Updated by Libby Nelson on October 13, 2015, 8:40 a.m. ET @libbyanelson libby@vox.com

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Women are now much more likely than men to earn bachelor's degrees.

(Shutterstock)

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Most Viewed



WAYWARD SONS: THE EMERGING GENDER GAP IN LABOR MARKETS AND EDUCATION

By David Autor and Melanie Wasserman



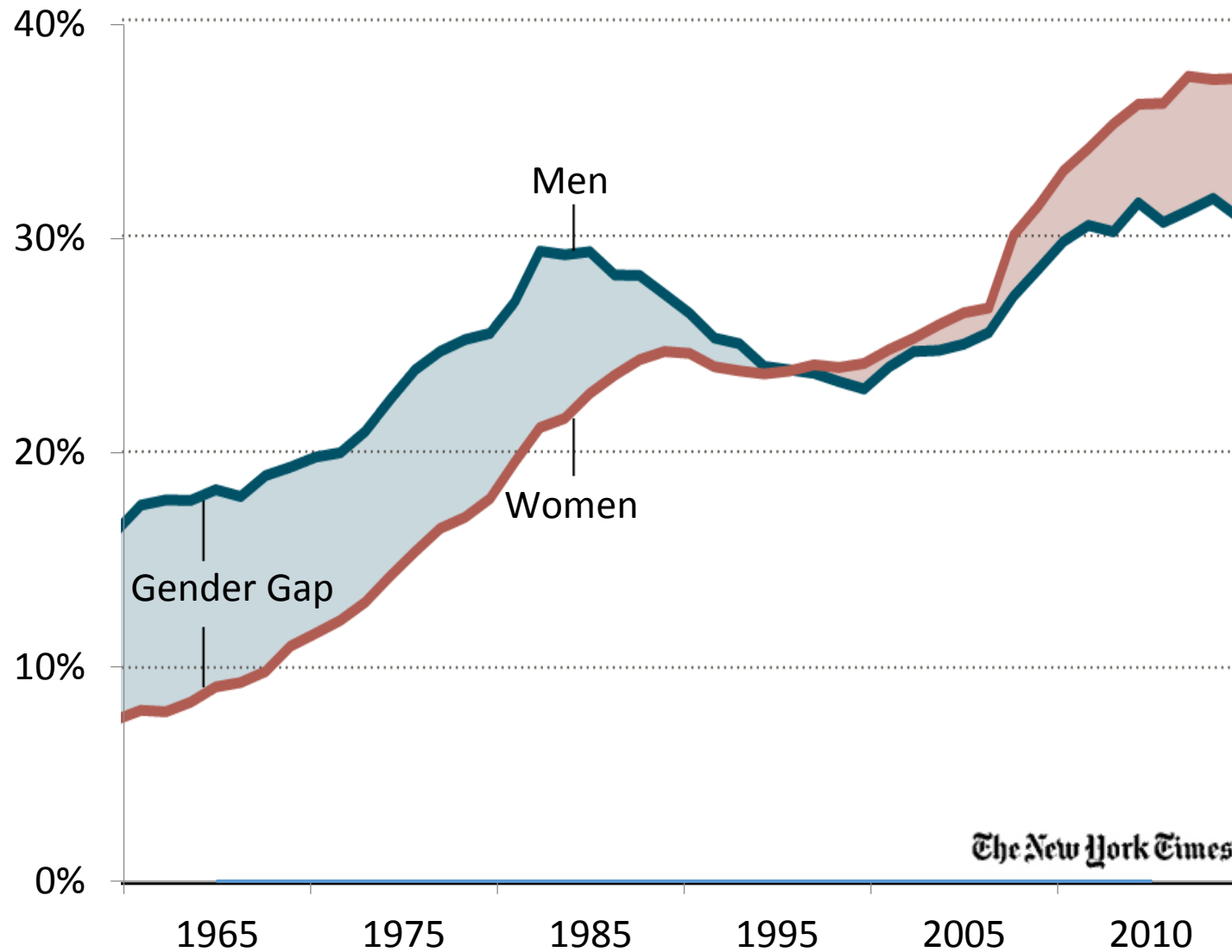
Image Source: New York Times



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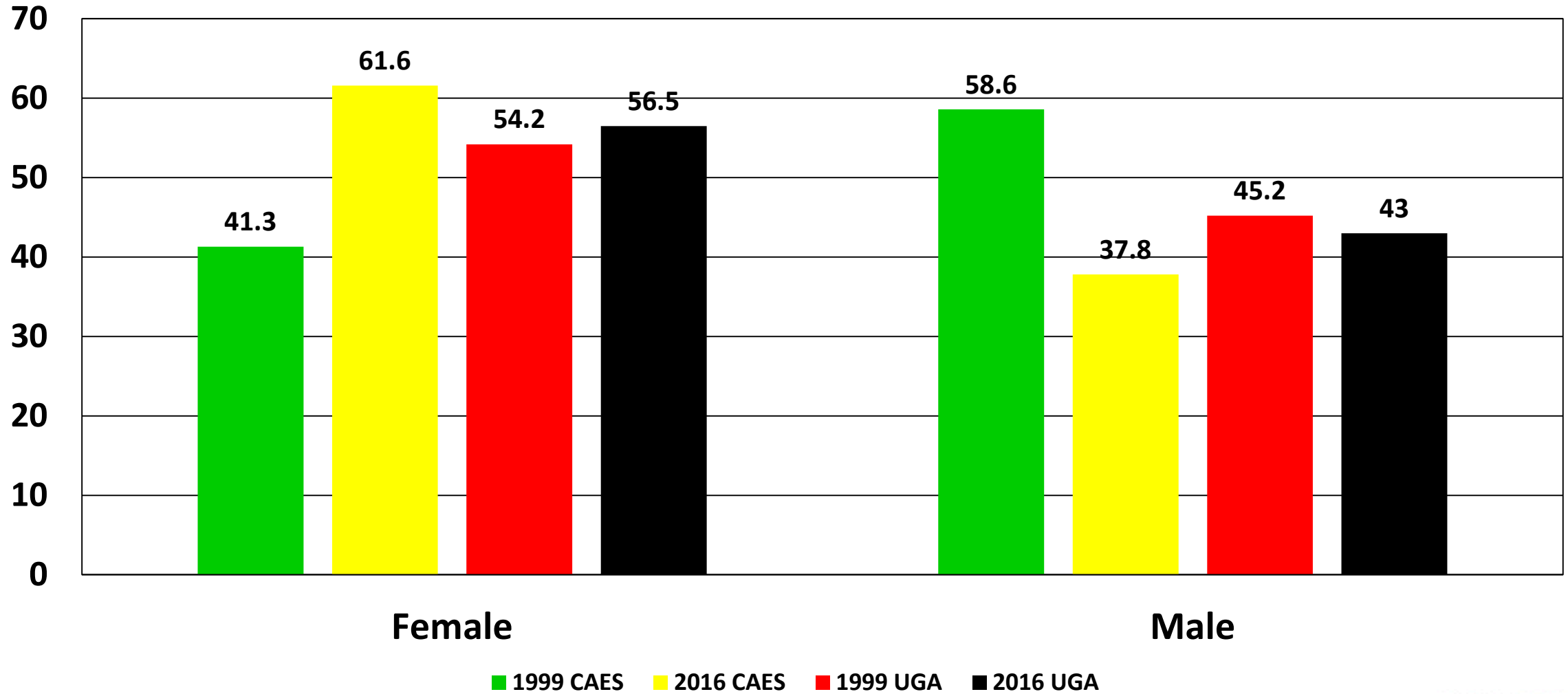


35-Year-Olds with a 4-Year Degree

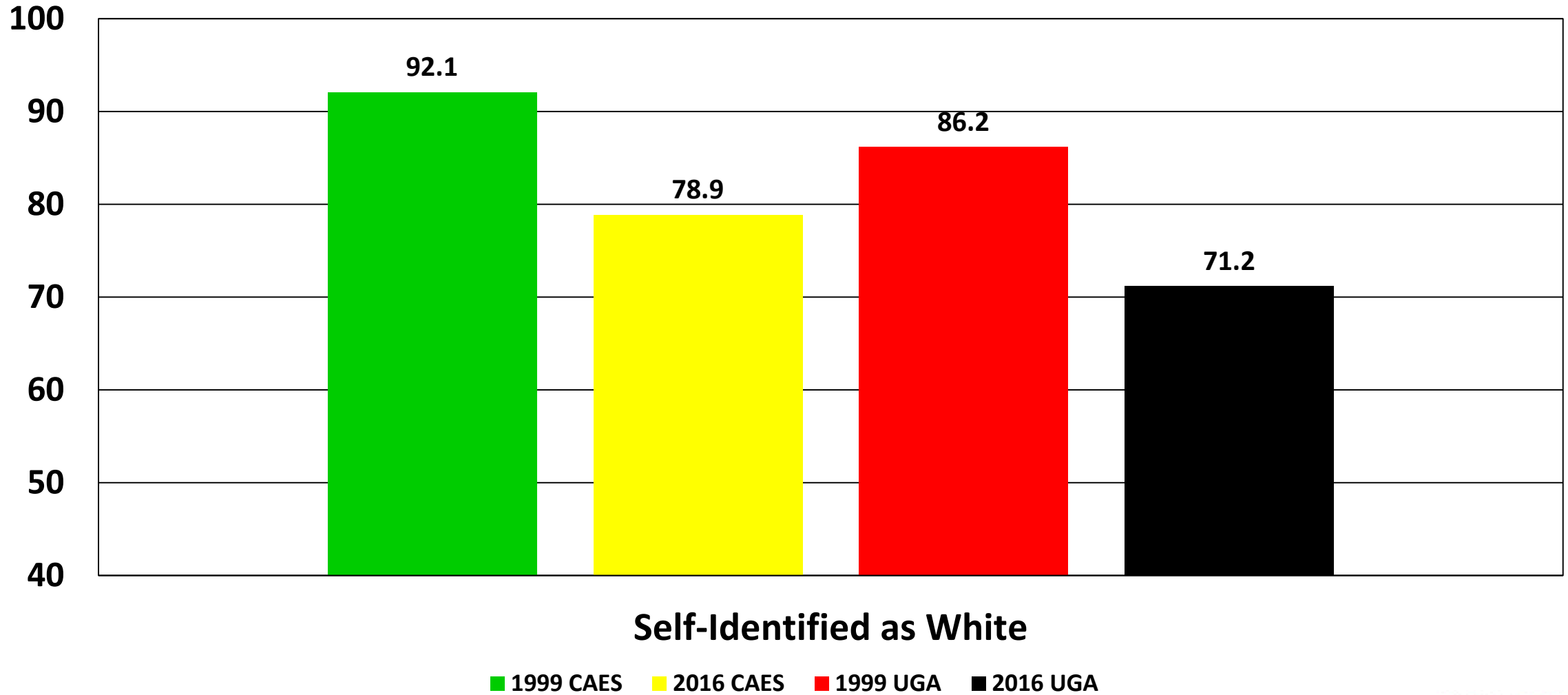


The New York Times

Gender Trends: Undergrad



Ethnicity Trends: Undergrad





Thank You



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Tuition, Fees, Room & Board (2015 \$)

Academic Year	Private Nonprofit Four-Year	Five-Year % Change	Public Four-Year	Five-Year % Change
1975-76	\$16,213	—	\$7,833	—
1980-81	\$16,143	0%	\$7,362	-6%
1985-86	\$19,708	22%	\$8,543	16%
1990-91	\$24,663	25%	\$9,286	9%
1995-96	\$27,202	10%	\$10,552	14%
2000-01	\$30,716	13%	\$11,655	10%
2005-06	\$35,106	14%	\$14,797	27%
2010-11	\$39,918	14%	\$17,710	20%
2015-16	\$43,921	10%	\$19,548	10%

SOURCES: The College Board, Annual Survey of Colleges; NCES, IPEDS data.

