

STRONGER BY RESEARCH

A STRATEGIC AGENDA

for Kentucky Postsecondary
and Adult Education



A Presentation to the Interim Joint Committee on Education,
Postsecondary Subcommittee
by Robert L. King, CPE President
September 9, 2013

In order to compete in a global economy, Kentucky's postsecondary education must focus on



The “Public Good”

Creating a citizenry that not only has content knowledge in fields of study, but also is comprised of critical thinkers, problem-solvers and innovators.



Knowledge creation

Fostering networks devoted to developing innovative and creative solutions to society's problems.



Knowledge transfer

Moving intellectual research into the marketplace.



Partnerships

Mobilizing business, industry, university and government resources and investments.



Goals of the *Kentucky Postsecondary Education Improvement Act of 1997* (House Bill 1)

1. Seamless, integrated system of postsecondary education strategically planned and adequately funded to enhance economic development and quality of life.
2. Major comprehensive research institution (UK) ranked nationally in the top 20.
3. Nationally recognized metropolitan research university (UofL).
4. Regional universities, with at least one nationally recognized program of distinction or one nationally recognized applied research program, working cooperatively with other postsecondary institutions to assure access to quality degrees.
5. Comprehensive community and technical college system.
6. Efficient, responsive, coordinated system of autonomous institutions delivering educational services to citizens in quantities and of a quality comparable to the national average.



Stronger by Degrees

*2011-15 Strategic Agenda for
Kentucky Postsecondary and Adult Education*

- **Vision:** All Kentuckians will be prepared to succeed in a global economy.
- **Mission:** To deliver a world-class education to students, create and apply new knowledge, and grow the economy of the Commonwealth.
- **Four focus areas:**
 - College readiness
 - Student success
 - Research, economic and community development
 - Efficiency and innovation



Stronger by Degrees

2011-15 Strategic Agenda for

Kentucky Postsecondary and Adult Education

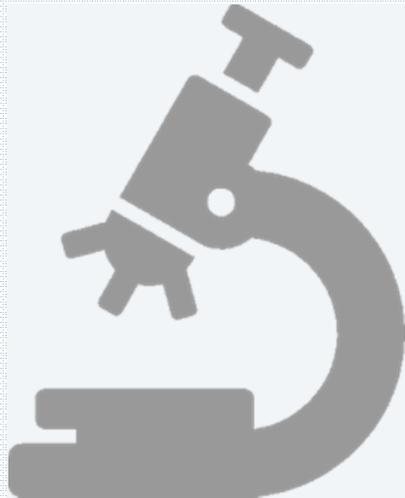
Building Kentucky's R&D Capacity

Strategies:

- Support the critical role that the **University of Kentucky** and the **University of Louisville** play in the **creation of new knowledge** and recognize universities and faculty members for the advancement of knowledge and enlightenment.
- Support **collaborative research efforts** that leverage university expertise, lead to research investments and **commercialization** in high-growth or emerging areas, and are **aligned with business and industry growth**.
- Develop and implement a **strategic communications plan** that **highlights campus-based research and development initiatives** and the impact of this work on Kentucky's economic and community competitiveness.
- Secure additional funding for **research matching programs** and **explore new funding approaches** to maximize research, Kentucky Innovation Act investments, and multi-campus collaborations.
- Advance **Kentucky's STEM+H agenda** through ongoing **leadership, advocacy**, and **collaborative efforts**.
- Foster an **innovative, creative**, and **entrepreneurial culture** within the postsecondary education community.



Stronger by Degrees
Performance Metrics



**Degrees and credentials in
STEM+H Fields**
(science, technology, engineering,
math, and health)



**Research &
Development
Funding**



Growing STEM+H capacity in Kentucky

- **CPE STEM taskforce**

Developed a state-wide P-20 strategic action plan to accelerate Kentucky's performance within the STEM disciplines.

- **Kentucky STEM Initiative Fund (KRS 164.0287)**

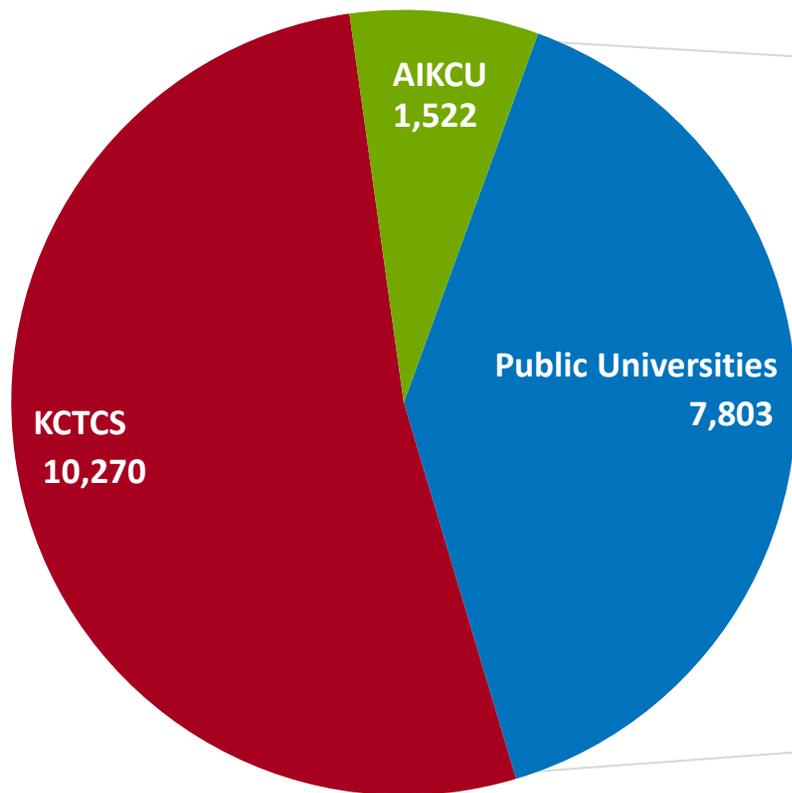
Funding appropriated to support the recommendations of the STEM taskforce.



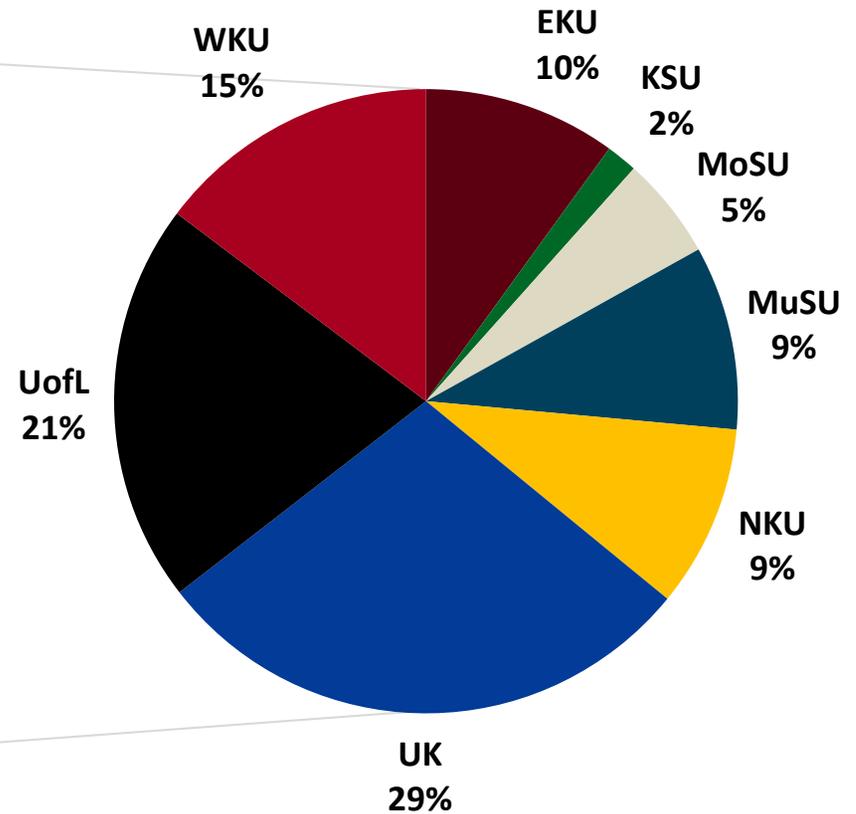
STEM+H Degrees Conferred by Sector and University

System Totals
(2009-2012)

All Institutions



Subset: Public Universities



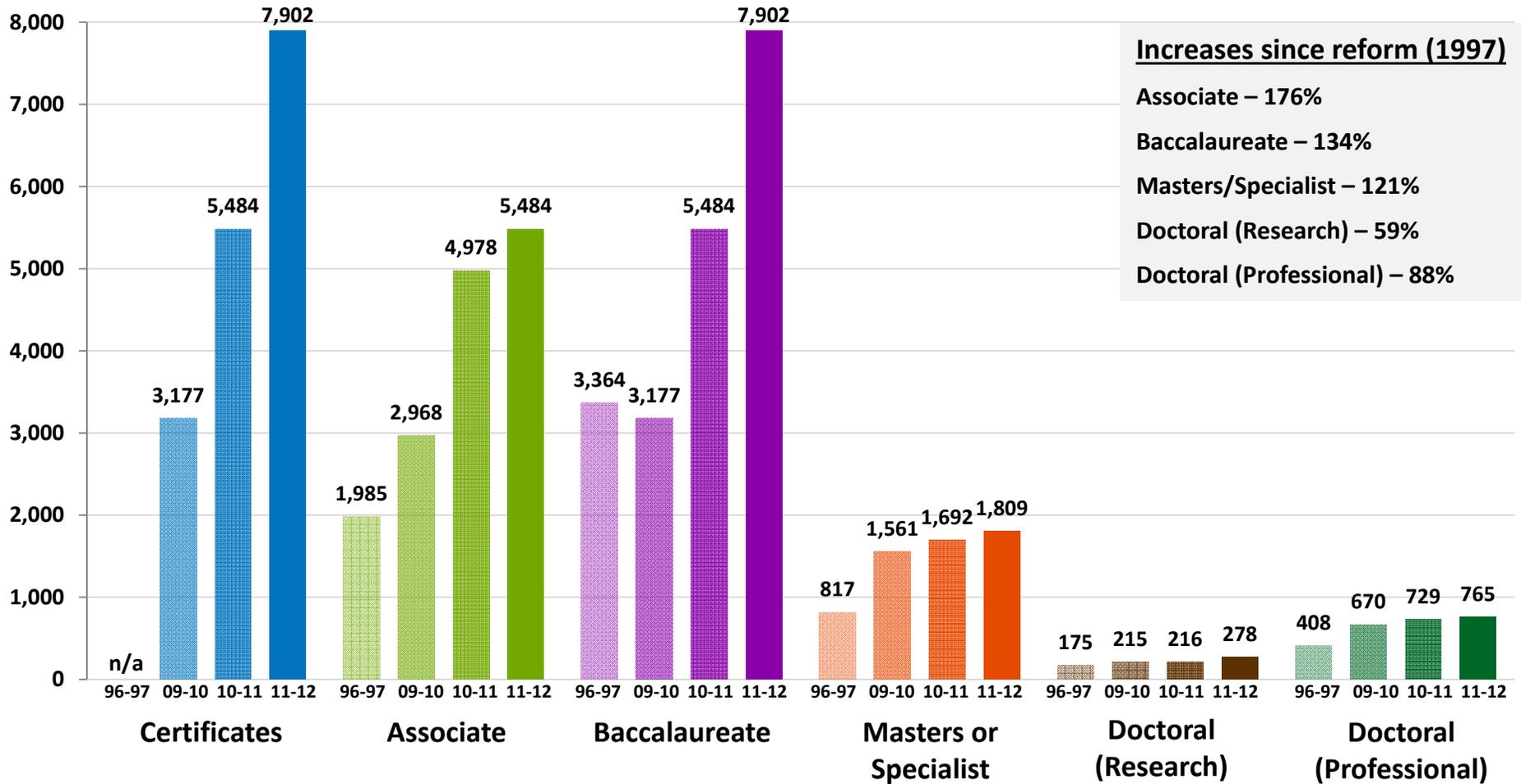
Source: CPE KPEDS.



KENTUCKY COUNCIL ON POSTSECONDARY EDUCATION

STEM+H Degrees Are Rising

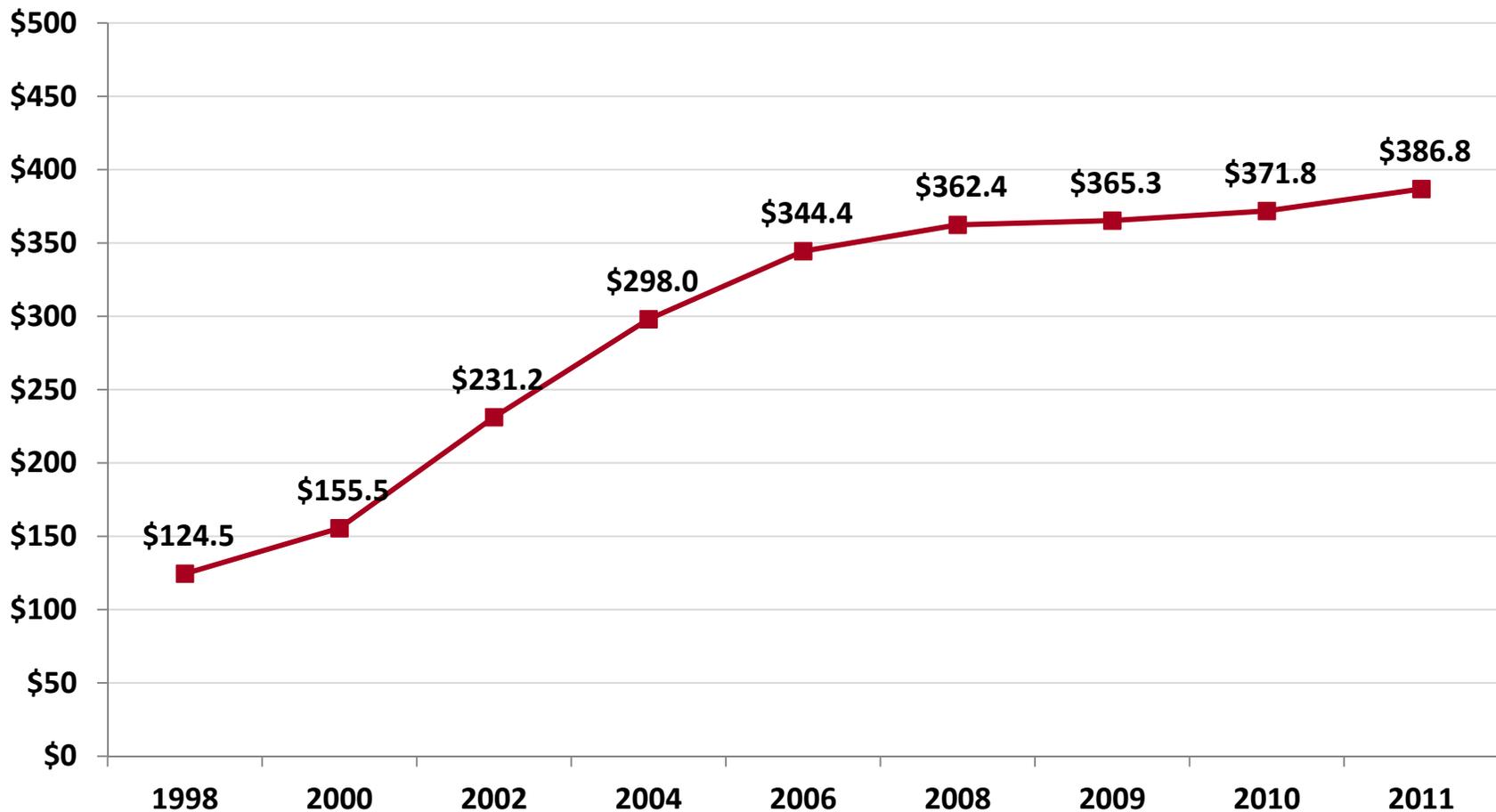
System Totals
(1996-97, 2009-2012)



Source: CPE KPEDS. Note: CIP codes used to identify the STEM fields changed twice during period of interest.



Externally-funded Research and Development (1998-2011, UK and UofL) (in millions of dollars)

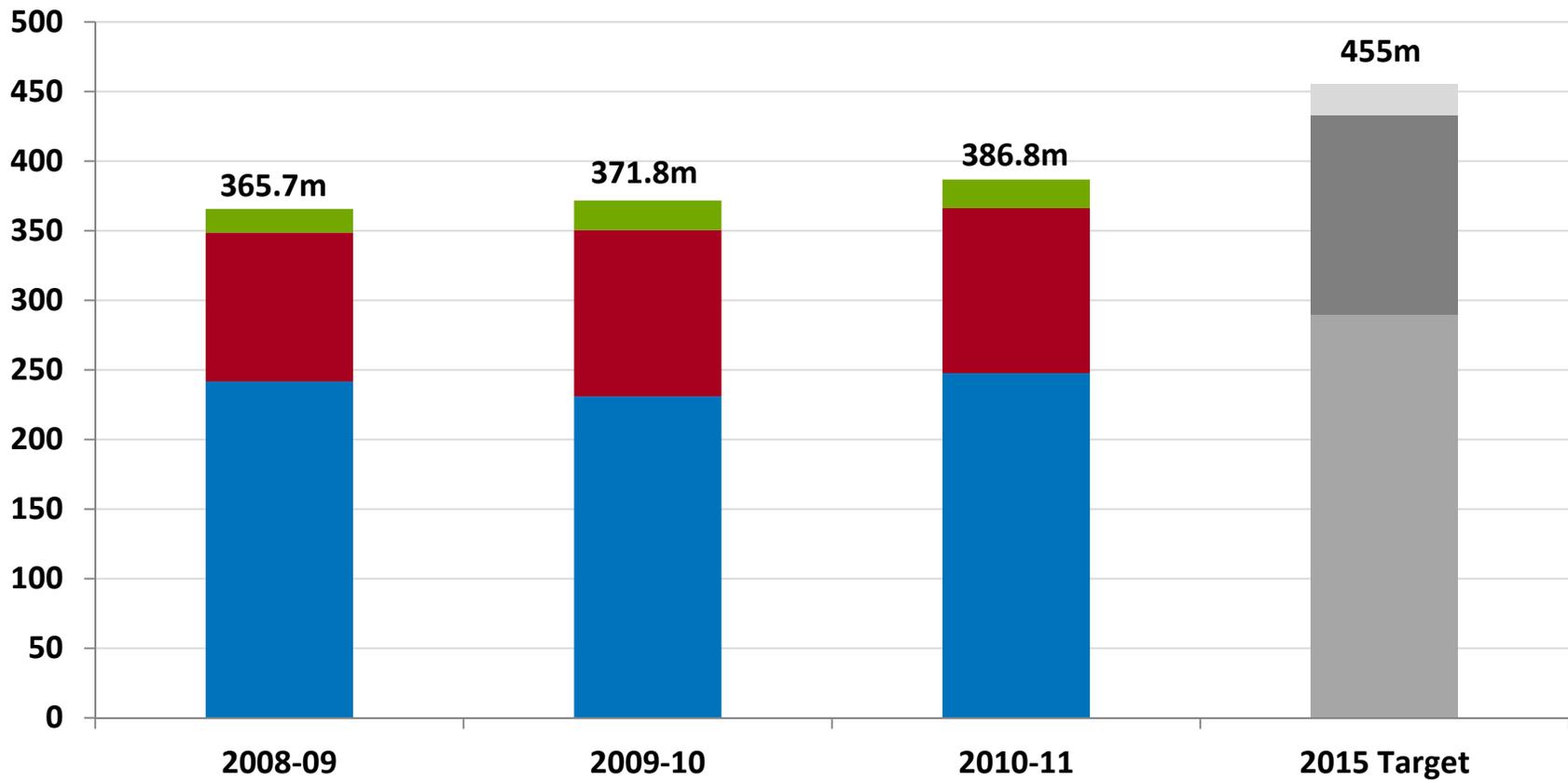


Source: CPE KPEDS.



Externally-funded Research and Development (2008-2011) (in millions of dollars)

■ UK ■ UofL ■ Comprehensives



What is the Endowment Match Program?

- Program that matches state dollars with private gifts to encourage higher education research activities.
- Encourages private giving because donors “double their contributions” by having them matched dollar for dollar by the state.
- All funds both state and private are endowed, which provides a perpetual source of funding for research.



What level of financial support?

Four Rounds of Funding

Fiscal Year	State Support	Private Match	Combined Total
1999	\$110 M	\$110 M	\$220 M
2001	\$120 M	\$120 M	\$240 M
2004	\$120 M	\$120 M	\$240 M
2009	\$60 M	\$60 M	\$120 M
Total	\$410 M	\$410 M	\$820 M

Note: Of \$410 M in total state appropriations for this program, UK and UofL received \$350 M. This table reflects figures for state and private funds when fully matched. As of June 30, 2013, there was \$875,000 in state funds remaining to be matched.



What outcomes have been achieved?

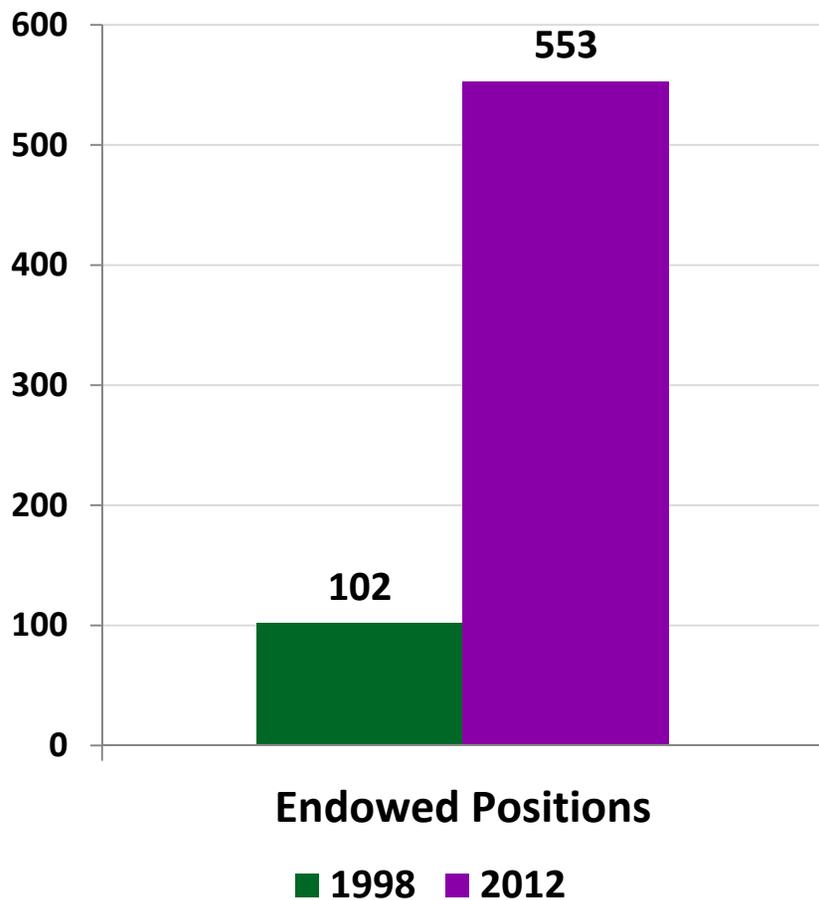
Fiscal Years 1998 – 2012 (UK & UofL Only)

- Over \$409 million in private gifts generated.
(for all participating Bucks for Brains universities).
- Endowment values grew by \$1.06 billion or 198%.
(on average, this is now producing \$50 million in earnings)
- Externally funded R&D grew by \$246.2 million or 209%.
(extramural R&D figures between 1998 and 2012.)
- Endowed positions grew by 451 positions or 442%.



Rise in Endowed Positions

Kentucky Public Research Universities
Fiscal Years 1998-2012



Areas (Select List)

- Endocrinology
- Ophthalmology
- Pharmaceutical Science
- Chemical Engineering
- Hematology
- Pediatrics
- Forestry
- Veterinary Science
- Neurology
- Aging
- Psychology
- Plant and Soil Sciences
- Cancer
- Electrical Engineering
- Biophysics
- Nursing
- Cardiology
- Tobacco Research



2014-16 Biennial Request

Funding to Fulfill Research Needs



**New round of
endowment match
(Bucks for Brains)
funding**



**Research pool
(operating funding)
targeting Kentucky's
critical needs**



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