



# The University for Kentucky

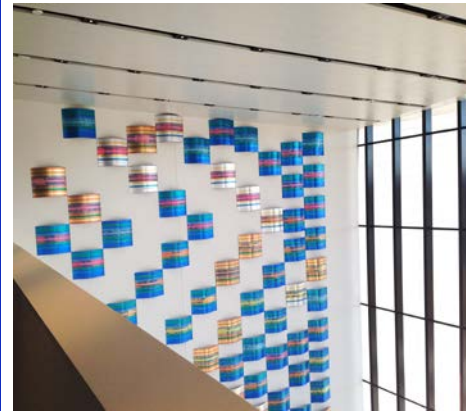
**University of Kentucky**  
**Board of Trustees Retreat**  
October 17, 2014

**Dr. Eli Capilouto,**  
President of the University of Kentucky



## College of Fine Arts

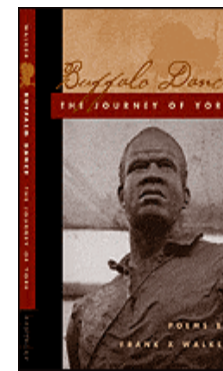
Alumni Endowed Professor Arturo Sandoval's, "Confluence River Reflections" hangs in the grand foyer of the Owensboro Convention Center.



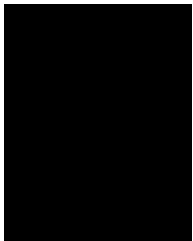


## College of Arts & Sciences

**Professor Frank X Walker** is Kentucky's Poet Laureate and author of the acclaimed, "Turn Me Loose: The Unghosting of Medgar Evers" as well as other renowned literary pieces and works of poetry.



**The Kentucky P20 Innovation Lab**, hosted by the UK College of Education, is leading the way to help schools in Kentucky transform education to deliver next generation learning and, ultimately, increase the number of students who are ready to succeed in college and career.



College of Education



UNIVERSITY OF  
KENTUCKY  
**150**  
YEARS  
1865-2015

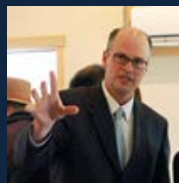


UK's Center for Applied Energy Research (CAER) is advancing Kentucky's energy economy, including: carbon sequestration, solar and coal-to-liquid processing. **CAER** is piloting technology in an active power-plant and is conducting research in China. **Dr. Rodney Andrews**, Director, is PI on a \$24 million, multi-institution EPSCoR grant.



**Dr. Greg Luhan** and **Dr. David Biagi** are helping revitalize manufacturing in Kentucky. The House Boat to Energy Efficient Residence (HBEER) initiative is creating jobs lost during the 2008 recession. **Dr. Luhan** and **Dr. Biagi** are hoping to rebuild communities (West Liberty) destroyed by natural disasters using the HBEER model.

## College of Design



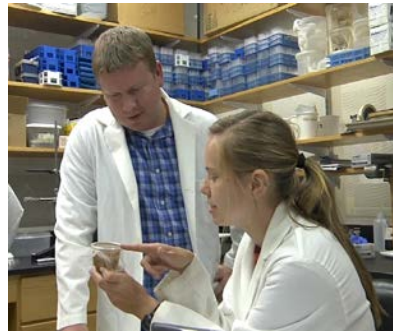
Dr. Ellen Hahn is a professor in the College of Nursing and the College of Public Health. She is the director of the Kentucky Center for Smoke-free Policy, leads UK's tobacco-free campus effort and is an authority on the harmful effects of tobacco use.



UK HealthCare  
is  
tobacco free.



College of Nursing

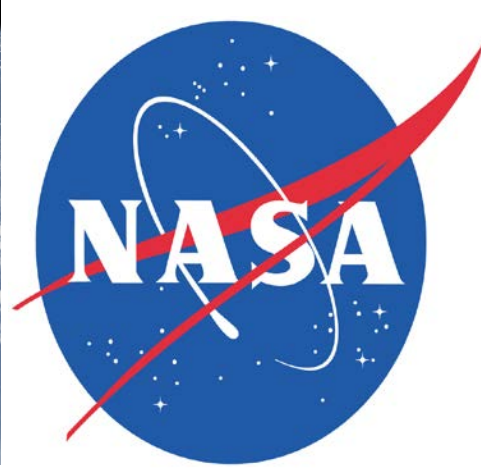


**Dr. Stephen Dobson**, developed a technology that uses male mosquitoes to effectively sterilize females through a naturally occurring bacterium. The company, **MosquitoMate**, is gathering data for the EPA to demonstrate the technology's effectiveness.

College of Agriculture,  
Food and Environment







## College of Engineering

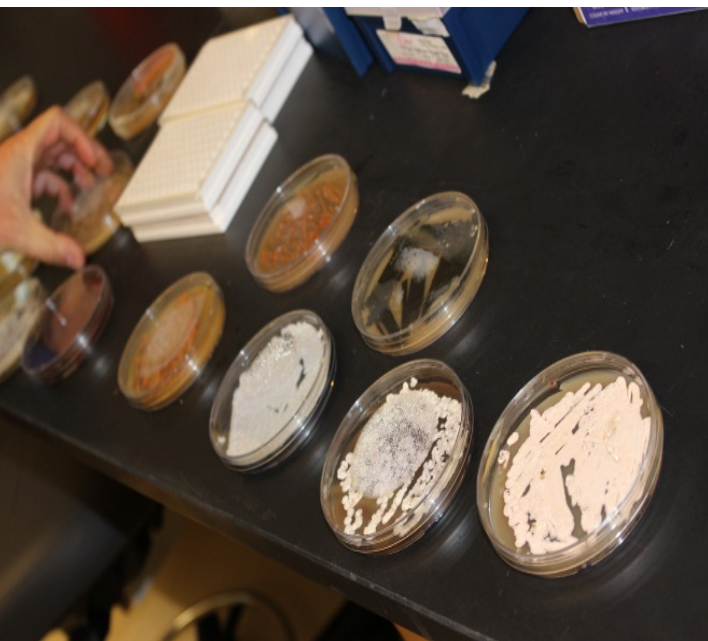
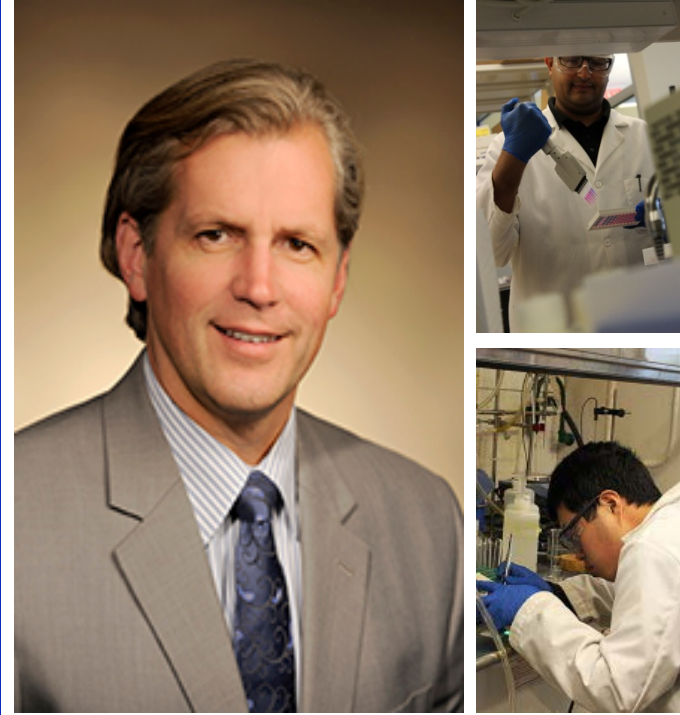
**Dr. Suzanna Smith** is PI on a multi-institution NASA grant to conduct colloid research aboard the International Space Station. The research requires a micro-gravity environment to explore the distribution of particles suspended within another. The research can have implications for energy, aerospace material and electronic displays.



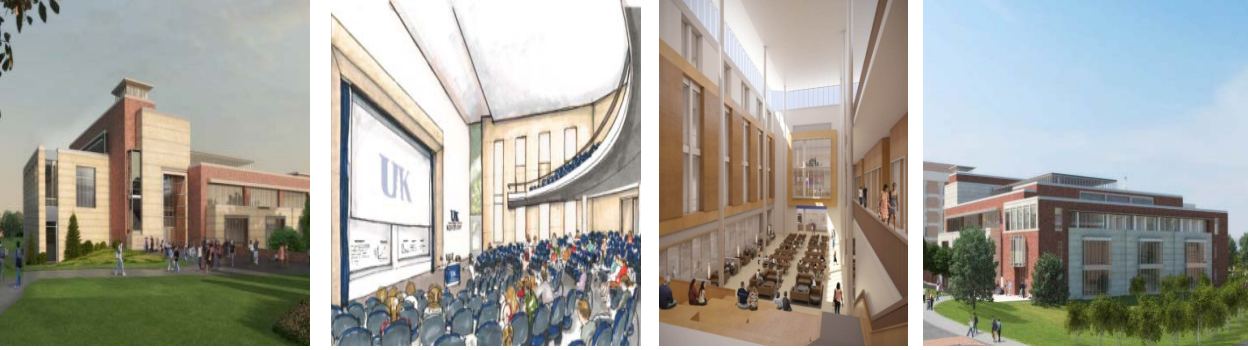
# College of Pharmacy



UNIVERSITY OF  
KENTUCKY®  
150  
YEARS  
1865 - 2015



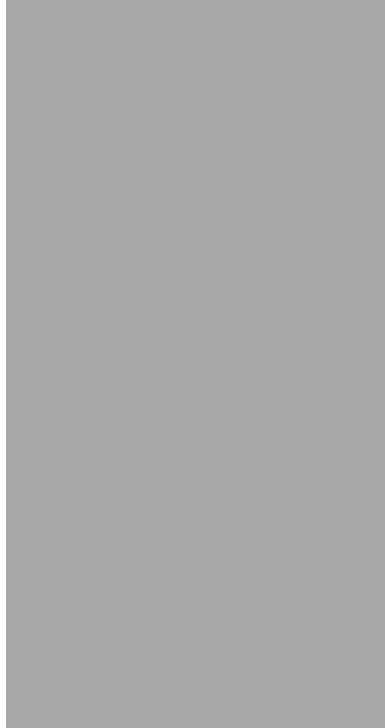
**Dr. Jon Thorson** is the Director of the Center for Pharmaceutical Research and Innovation. Currently, the Center is turning to Kentucky coal mines for unique organisms that produce natural products that could potentially be used to develop new drugs for treatment of cancer, infectious disease and inflammation.



**Dr. James Ziliak** recently published research explaining that while programs like the Supplemental Nutrition Assistance Program (SNAP) have proven successful in terms of reducing food insecurity, applying for and receiving SNAP benefits may be difficult for parents, especially those who are working or those with disabilities. Likewise, school feeding programs are sometimes incomplete, exposing children to a host of health and cognitive issues. His research outlines potential policies to address shortfalls.



Gatton College of Business  
and Administration



The UK School of Music offers the state's first and only graduate degree program in **Music Therapy**. Clinical training opportunities in physical and mental health care are available within the UK HealthCare system, and additional opportunities are available within the Lexington community.

## Music Therapy

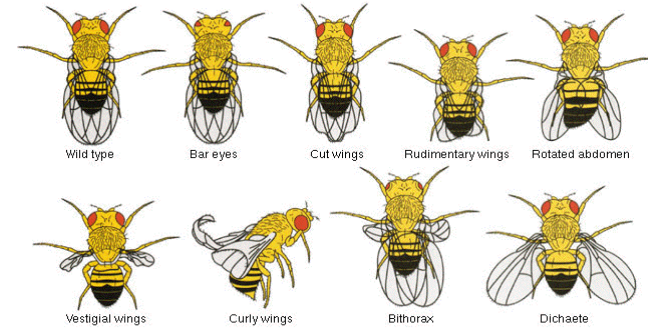


The Green Dot Program and the Center for Research on Violence Against Women are working to improve the quality of life of those affected by forms of power-based personal violence. Green Dot is an intervention-based prevention program that enables people to prevent violence in our community. UK's model has been replicated in K-12 schools across Kentucky.





**Dr. Thomas Hunt Morgan**, an 1886 graduate from the University of Kentucky, was the first Kentuckian to win a Nobel Prize. Having earned the prestigious honor in 1933, he is broadly considered the father of Genetics.





# UK'S INVESTMENT IN CREATIVITY

## BUCKS FOR BRAINS

College	Endowed Positions	College	Endowed Positions
<b>Agriculture, Food and Environment</b>	11 positions	<b>Graduate School</b>	3 positions
<b>Arts and Sciences</b>	18 positions	<b>Health Sciences</b>	2 positions
<b>Business and Economics</b>	21 positions	<b>Law</b>	10 positions
<b>Communication and Information</b>	4 positions	<b>UK Libraries</b>	1 position
<b>Dentistry</b>	2 positions	<b>Medicine</b>	86 positions
<b>Design</b>	4 positions	<b>Nursing</b>	3 positions
<b>Education</b>	5 positions	<b>Pharmacy</b>	8 positions
<b>Engineering</b>	26 positions	<b>Public Health</b>	5 positions
<b>Fine Arts</b>	2 positions	<b>Social Work</b>	3 positions



# UK'S INVESTMENT IN CREATIVITY

## FACULTY DISTRIBUTION

	Total	Internal	External
Instruction	31%	30%	1%
Research	29%	20%	9%
Service	10%	9%	1%
Administration	8%	7.5%	0.5%
Professional Development	5%	5%	0%
Clinical	17%	17%	
<b>TOTAL</b>	100%	88.5%	11.5%





# NATIONAL ENVIRONMENT FOR RESEARCH EXTERNAL PRESSURES

- Competing demands for state resources
- Downward pressure on tuition and fees
- Flat or declining federal support for research
- Big investments made by other institutions



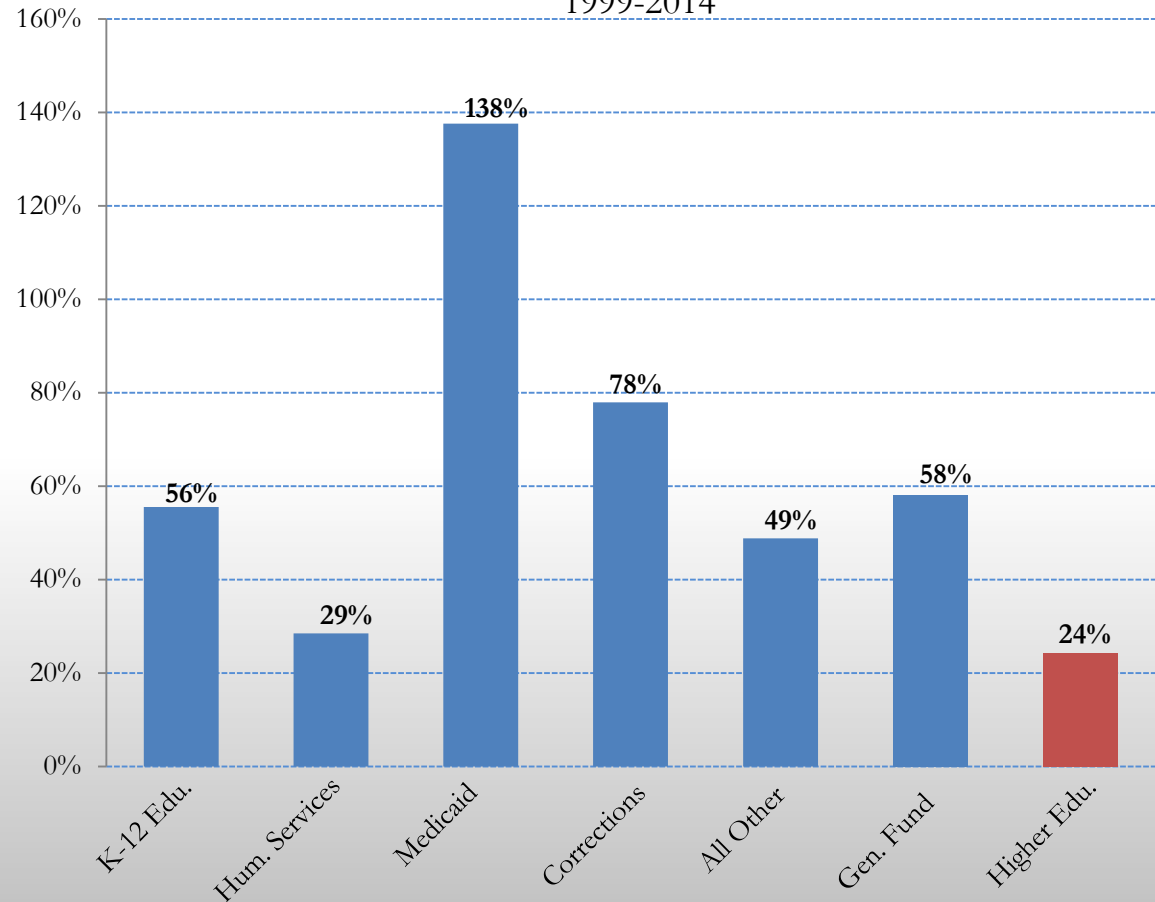
# STATE ENVIRONMENT FOR RESEARCH

## EXTERNAL PRESSURES

No whining!

Kentucky Spending Trends,

1999-2014





# THE FUTURE OF RESEARCH AT UK

What should we do?

Where should we focus?

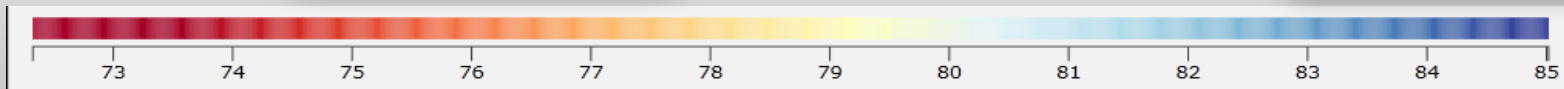
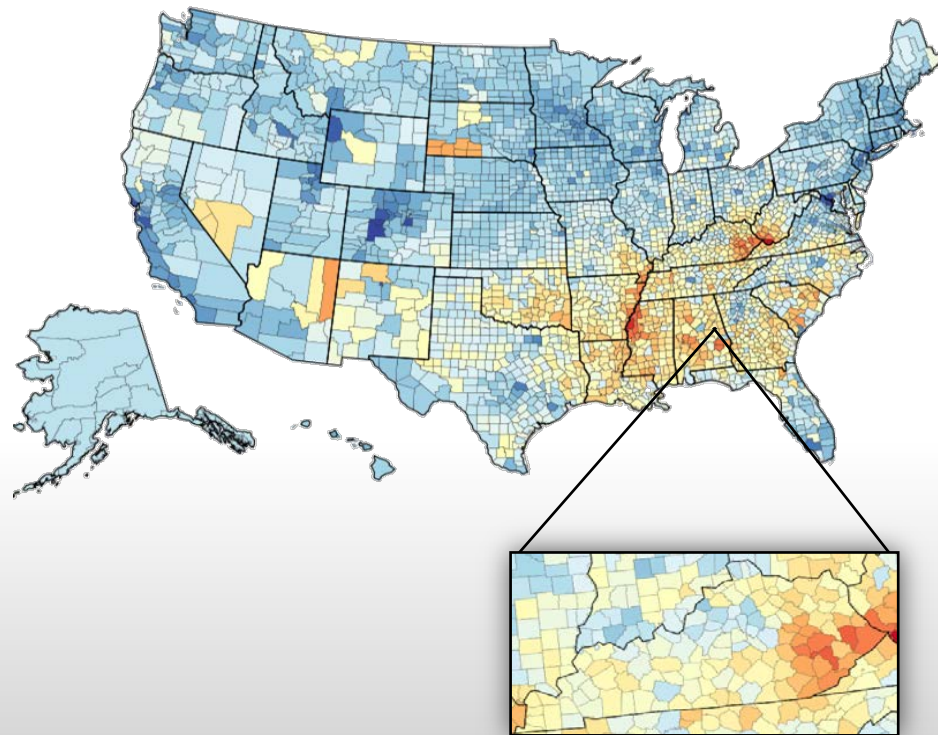
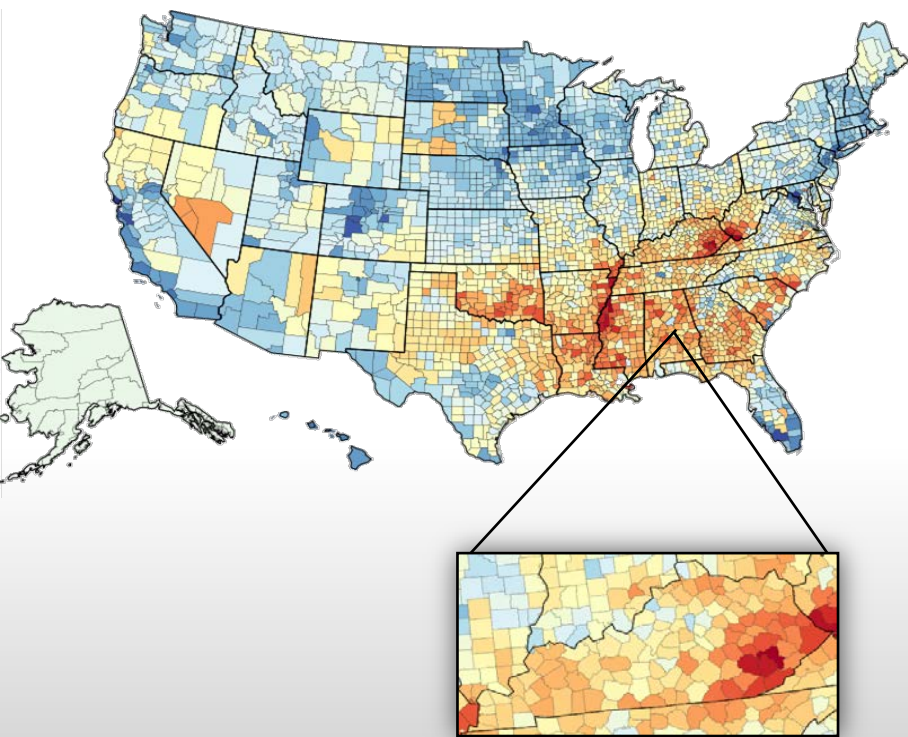
How do we achieve our goals?

# CLOSING KENTUCKY HEALTH GAPS

## LIFE EXPECTANCY

Life Expectancy, Females, 2010

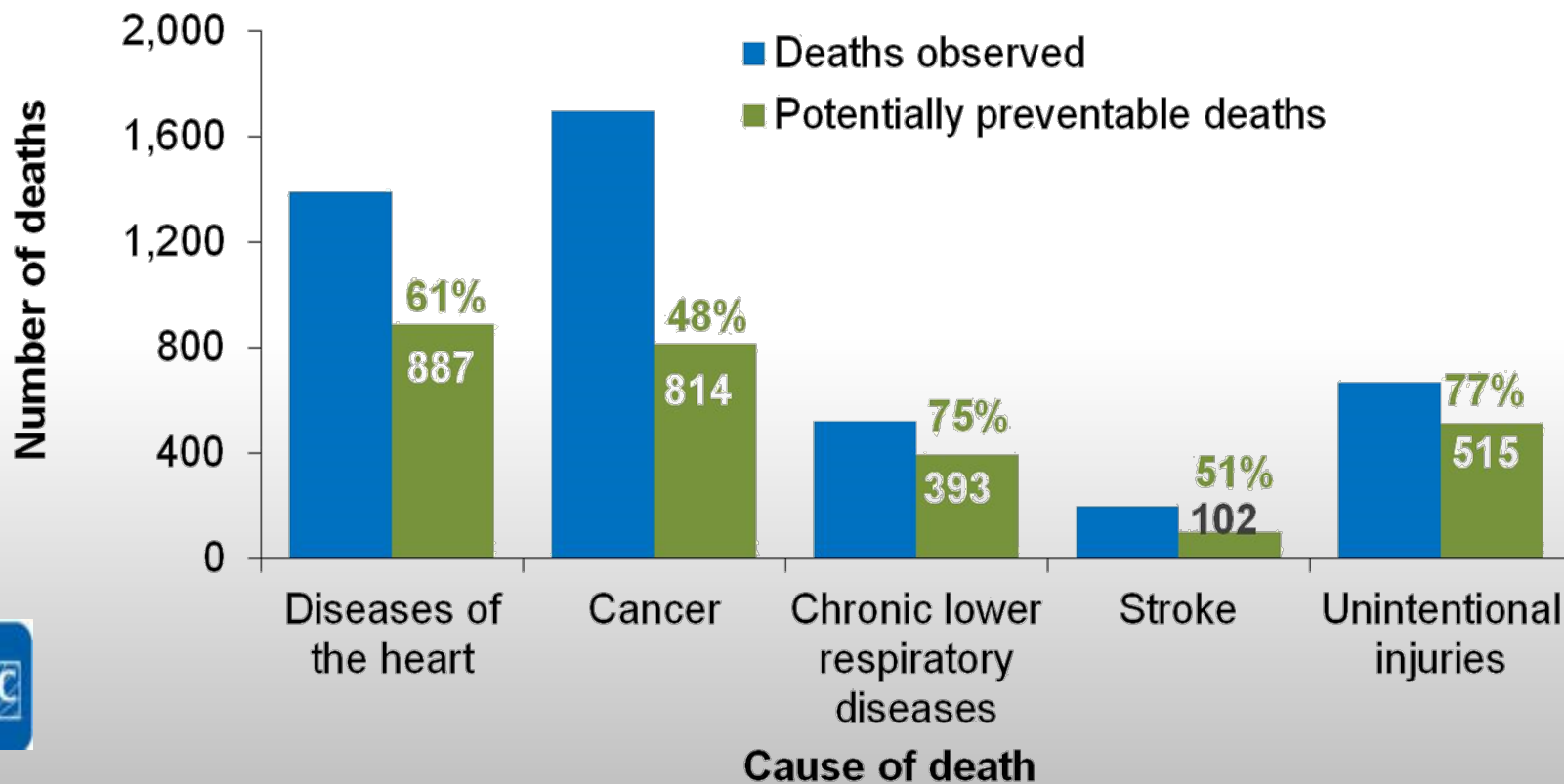
Life Expectancy, Males, 2010



# CLOSING KENTUCKY HEALTH GAPS

## COMBATING CHRONIC, PREVENTABLE DISEASE

Annual number of deaths observed and potentially preventable for the 5 leading causes of death for persons aged <80 years, KY-05, 2009-2011





# THE UNIVERSITY FOR KENTUCKY

## WHY HEALTH OUTCOMES?

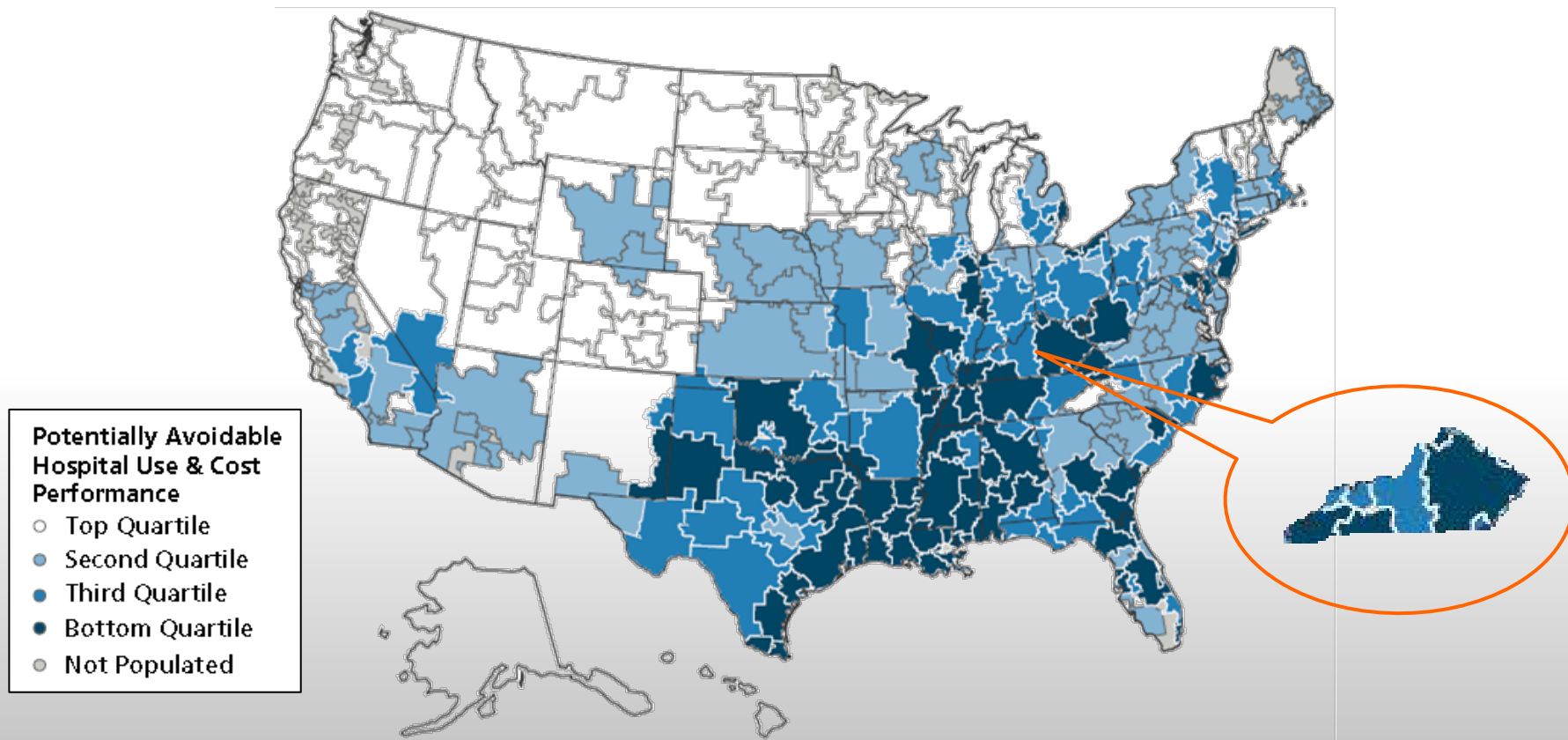


HEADSTONE INSCRIPTION AND INTERMENT RECORD											
INSCRIPTION (Front) (Name, Rank, Organization, State, Date of Death, Grave No.)											
HOWARD M. HENRY TEC 4 1 RANGER BN KENTUCKY AUG 19 1942 5											
INSCRIPTION (Rear) (Service Number)											
35125112											
PERMANENT CEMETERY		BLOCK	ROW	GRAVE	S OF D						
ST. LAURENT 3505		B	18	5	<input checked="" type="checkbox"/> CROSS						
CREED	RACE	SEX	DECORATIONS								
6	1		PH								
TEMPORARY CEMETERY			BLOCK	ROW	GRAVE	D-D NUMBER	ARM				
3572			L	3	54		1				
NAME AND ADDRESS OF NEXT OF KIN										ROSTER REFERENCE	

# CLOSING KENTUCKY HEALTH GAPS

## HIGH UTILIZATION

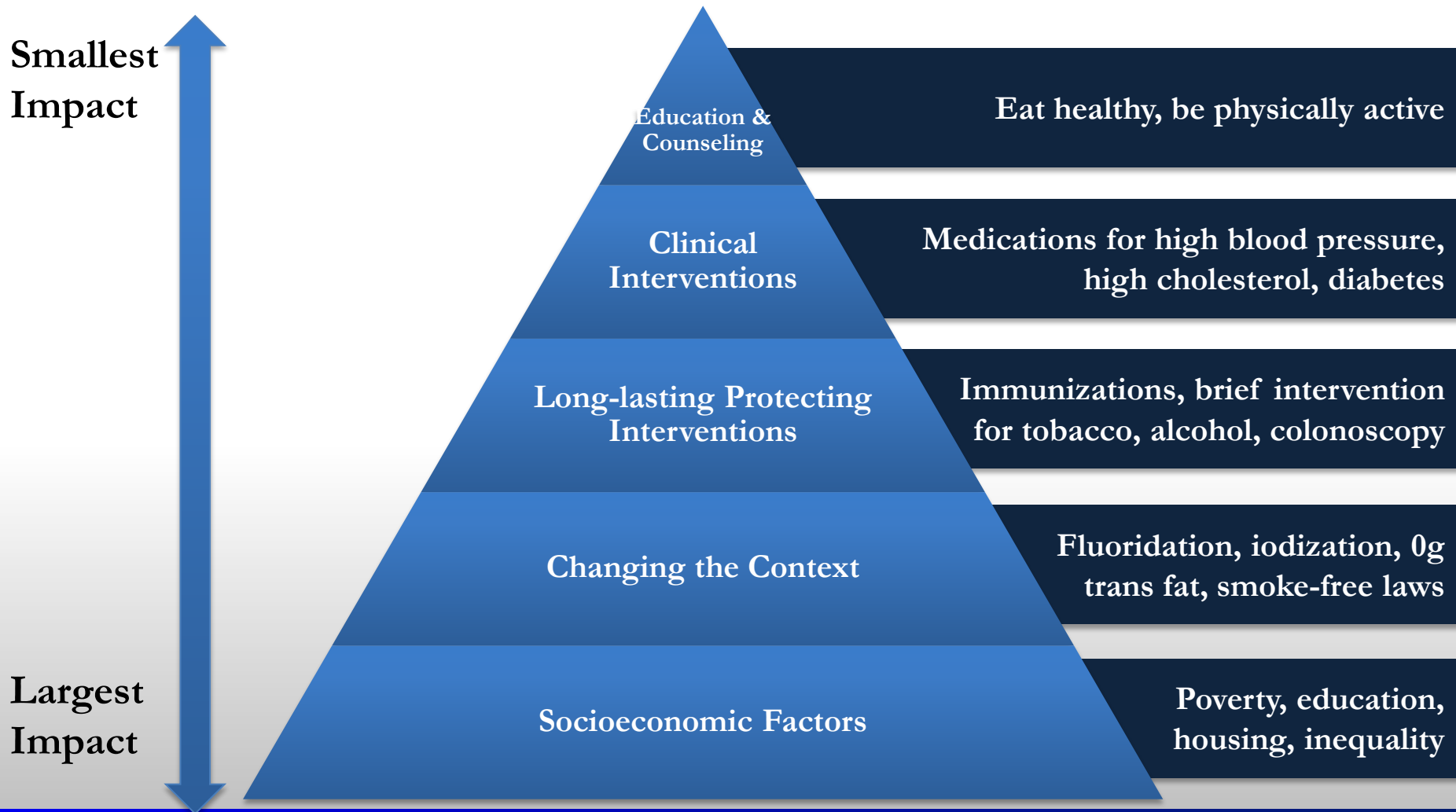
### Overall Performance on Potentially Avoidable Hospital Use and Cost Dimension





# CLOSING KENTUCKY HEALTH GAPS

## FACTORS AFFECTING HEALTH







# ACTIVE PROJECTS

<u>TOPIC</u>	<u>#</u>	<u>MULTIPLE YEAR AWARDS</u>
Substance Abuse	80	\$117,949,707
Poverty	21	\$31,829,995
Cardiovascular	99	\$131,067,807
Diabetes	50	\$51,600,776
Obesity	57	\$86,431,999
Appalachia	125	\$138,072,518
<b>TOTAL</b>	<b>331</b>	<b>\$349,075,542</b>



# THE UNIVERSITY *FOR* KENTUCKY

## UNIQUELY POSITIONED TO SERVE THE STATE

Physical presence in all 120 Kentucky counties through our extension network and clinical outreach programs.

170 clinical outreach practices and linkages to some 4,300 beds.

Seventeen colleges and professional schools supported by a comprehensive research library system



One of eight institutions with programs in Agriculture, Pharmacy, Engineering and Medicine on a contiguous campus.

One of 22 institutions with: NCI-designation, Clinical Translational Science Award and Alzheimer's Disease Center.



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