University of Illinois
Board of Trustees Retreat

University of Illinois
Urbana-Champaign • Chicago • Springfield

July 20, 2016
President Timothy Killeen
Opening Remarks
Strategic Framework

July 2016

Timothy L. Killeen
President
Pillar I – An Institution of and for Students

Michael Amiridis
Chancellor UIC
University of Illinois Strategic Framework
Strategic Pillar I: An Institution of and for Our Students

UNIVERSITY OF ILLINOIS BOARD OF TRUSTEES RETREAT
JULY 20, 2016
UIC CHANCELLOR MICHAEL D. AMIRIDIS, PRESENTER
Pillar II – Research and Scholarship with Impact

Princess Imoukuede
Assistant Professor, Bioengineering UIUC
II. Research and Scholarship with Global Impact

Princess Imoukhuede, Ph.D.
Assistant Professor of Bioengineering

University of Illinois at Urbana-Champaign
Overcoming health disparities via RELATIONSHIP EMPOWERMENT

Components
- AA patients 60+ years
- Emphasis on doctor-patient relationship, not just patient
- Web-based intervention

Results
- Patients increased health literacy
- Improved disease management
How does one move these researched practices to common practice?

- Mobile app?
- \textit{...did not have Illinois resources}
- Work with sociologists to expand \textit{“RELATIONSHIP EMPOWERMENT?”}
- \textit{...did not have Illinois resources}
Illinois is a powerhouse of discovery, problem solving, innovation, & creative production...

...what’s possible?

II. Research and Scholarship with Global Impact
II. Research and Scholarship with Global Impact: Illinois Has Resources for Innovation

1. Build a System-wide culture of innovation, collaboration, entrepreneurship, and thoughtful risk-taking
2. Identify a set of significant sociotechnical problems that the System is particularly well suited to solve
3. Highlight the centrality of the humanities and arts in the human experience
4. Forge new research development partnerships around the world

Angiogenesis: blood vessel formation

~30,000 equations

National Center for Supercomputing Applications (NCSA)
II. Research and Scholarship with Global Impact: System-wide Collaborations Become the Standard

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Angiogenesis: blood vessel formation

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Tumor growth
II. Research and Scholarship with Global Impact: Curing Sickle Cell Disease

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Transplanted stem cells to cure sickle cell disease

Cell transplantation
Donor: P.J. Hearns & Recipient: Kamia Quinones

Damiano Rondelli, MD
Victor Gordeuk, MD
II. Research and Scholarship with Global Impact: Understanding Tumor Heterogeneity

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Grand Challenge
Tumor heterogeneity:

Some patients respond
Some patients do not

New imaging tools for personalized medicine

Beckman Institute
Carl Woese Institute for Genomic Biology

Oslo University Hospital
II. Research and Scholarship with Global Impact:
System-wide Collaboration can Enable Clinical Advancement

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Grand Challenge
Tumor heterogeneity:

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Some patients do not

New imaging tools for personalized medicine

Oslo University Hospital

Sundet & Sauvage (2013) Nature

Chicago
Rockford
Peoria

Engineering-based Medicine: Urbana
II. Research and Scholarship with Global Impact: Enabling Public-Private Partnership & Commercialization

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EnterpriseWorks Incubator

New imaging tools for personalized medicine

Ensuring patients get the right drugs the first time

Bench  Bedside

Oslo University Hospital
II. Research and Scholarship with Global Impact: Sustaining Scholarship

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Christy Lleras, PhD

Ruby Mendenhall, PhD

Kathryn Clancy, PhD

Sociology, Urban Planning & African American Studies
- Race and residential housing patterns
- Social networks
  - Racial microaggressions
  - Genomics

Human & Community Development
- Diverse families
- Poverty/inequality
  - Social justice
  - Child & adolescent development

Women’s Studies & Anthropology
- Endometrial function
- Stress, immunity & fertility
- Female reproductive physiology
II. Research and Scholarship with Global Impact: Collaboration sheds light on enduring problems

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- Reproductive consequences of psychosocial stress
- Relationship between social ties, community cohesion, and health for African-American women and girls in high-poverty neighborhoods
II. Research and Scholarship with Global Impact

...what’s possible?

Research collaborations stretching across the System

Tackling Tough Problems:
- Tumor heterogeneity + Personalized medicine
- Curing Sickle Cell

Sustaining scholarship & shedding new light on enduring questions

Bench to Bedside: Public-Private Partnerships
Pillar III – A Healthy Future for Illinois

Sara Rusch
Regional Director
College of Medicine at Peoria
Pillar Three
A Healthy Future for Illinois and the Midwest
Setting the Stage
Defining Health

• A state of complete mental, physical and social well-being and not merely the absence of disease or infirmity  World Health Organization
The single strongest predictor of health is socio-economic status

• Those with higher socioeconomic status have the most power and resources, and on average live longer and healthier lives.

• Those with lower socioeconomic status are exposed to many health threats over which they have little or no control – less education leading to insecure and low paying jobs, mounting debt, poor child care, poor quality housing, less access to healthy food, unreliable transportation, and noisy and violent living conditions.
Average Family Wealth by Race/Ethnicity, 1963–2013


Notes: 2013 dollars. No comparable data are available between 1963 and 1983. African American/Hispanic distinction within nonwhite population available only in 1983 and later.
Change in Life Expectancy

Change in average additional life expectancy (in years) at age 55, by income, between cohorts born in 1920 and 1940

<table>
<thead>
<tr>
<th>Income Level</th>
<th>Change for Men</th>
<th>Change for Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richest 10%</td>
<td></td>
<td>3.1</td>
</tr>
<tr>
<td>81-90%</td>
<td></td>
<td>2.4</td>
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<tr>
<td>71-80%</td>
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<td>1.8</td>
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<tr>
<td>61-70%</td>
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<td>1.4</td>
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<tr>
<td>51-60%</td>
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<td>1.0</td>
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<tr>
<td>41-50%</td>
<td>-0.2</td>
<td>0.5</td>
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<tr>
<td>31-40%</td>
<td>-1.0</td>
<td>0.5</td>
</tr>
<tr>
<td>21-30%</td>
<td>-1.6</td>
<td>2.7</td>
</tr>
<tr>
<td>11-20%</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>Poorest 10%</td>
<td>-2.1</td>
<td></td>
</tr>
</tbody>
</table>

Source: Barry Bosworth, Brookings Institution | WSJ.com
Healthy Future

- Education that prepares students for fiscally and emotionally rewarding jobs
- Create and sustain well paying job opportunities
- Excellence in healthcare – training, delivery, research and outcomes
- Commitment to the communities we serve
Strategic Framework Pillar Three
A Healthy Future for Illinois and the Midwest
A Healthy Future
A Transformative Goal

1. Develop and invest in our human capital
2. Be a powerful engine for statewide and regional economic development
3. Be a national model for professional training, affordability, access and positive outcomes in healthcare
4. Improve college readiness and outcomes
5. Promote strong civic engagement among students, faculty, staff and residents of Illinois
Develop and Invest in Human Capital
Develop and Invest in Human Capital

• Educate students who are entrepreneurial, next generation leaders.
• Expose students to the rigor of cutting edge research and scholarship
• Create a culture that values personal health and well being
• Collaborate with other universities to encourage degree completion
Be a Powerful Engine for Economic Development throughout the State
Be a Powerful Engine for economic development through out the state

• Leverage University excellence in education, research and innovation to improve the health of the communities near our universities and the communities we serve throughout the State
  – Public Private partnerships
  – Innovation Network with innovation cities
  – Reengineered Extension
  – Agriculture and Agribusiness
  – Identify partners who will work with faculty to accelerate translation and commercialization of ideas
Create National Models for Professional Training, Affordability, Access and Positive Outcomes in Healthcare
Create National Models for professional training, affordability, access and positive outcomes in healthcare

• Forge new connections within our remarkable health sciences and healthcare ecosystem
• Partner to improve quality of life and equity of care
• Test and implement care delivery models focused on population health and high quality/cost effective care
• Increase patient access to primary, specialty and acute care services at our Chicago hospital
• Work for health equity
Improve college readiness through connections with K-12 and community colleges
Improve college readiness through connections with K-12 and community colleges

• Enhance access and success for all students in the state
  – Foster predictable, streamlined transfer protocols
  – Lead an initiative to strengthen the college pipeline
Civic Engagement among students, faculty, staff and residents of Illinois

• “Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has.”
—Margaret Mead
Civic Engagement among students, faculty, staff and residents of Illinois

• Encourage critical discussion of civic values and responsibilities
• Explore the establishment of a Lincoln Institute of Government to draw together those with a focus on public policy research and civic leadership
• Explore how to better connect System activities to civic engagement – coursework, service learning
• Make the University the go to source for policy and application on key issues affecting community health.
Pillar IV – Tomorrow’s University Today

Megan Styles
Assistant Professor
Environmental Studies UIS
Pillar IV
Tomorrow’s University Today
“We can’t wait for better times to get started – there will always be obstacles and challenges.”
RESILIENCE

ABILTY

CHANGE

CAPACITY

RECOVER
It is always easier to talk about change than to make it.

Alvin Toffler
Individual Declaration Statements
Afternoon Schedule

12:30pm - Board Meeting Recess
12:40pm - Begin Breakout Discussions
2:00pm - Return thumb drives
2:10pm - Regular Meeting Resumes
4:00pm - Wrap-up Discussion