PKI RESPONSE PLAN

Chancellor Harvey Perlman
Chancellor John Christensen

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CLARITY OF PKI MISSION

• Original PKI mission is clear and still relevant

• IS&T and COE relationship to PKI mission:
  – create effective graduates
  – produce relevant research
  – connect to industry partners
  – grow reputation, effectiveness, innovation, economic impact, and size of PKI

• PKI Director relationship to PKI mission:
  – PKI Director will collaborate with campuses and colleges to integrate college strategic plans into PKI Strategic Plan
  – PKI Director will facilitate implementation of college goals and objectives with the deans as outlined in the PKI Integrated Strategic Plan
  – PKI Director will help to communicate and build the advantages of PKI and its academic and research opportunities
PKI ORGANIZATIONAL STRUCTURE

• Academic Advisory Council will provide leadership supporting the integration of colleges into PKI and development of a PKI Integrated Strategic Plan

• UNO and UNL Chancellors will charge the Senior Vice Chancellors to oversee and support collaborative activities, resources, metrics via the AAC

• Vice Chancellors for research will advise the AAC on the PKI research agenda

• The PKI Director and Deans will operate as collaborative peers to carry out the integrated mission of PKI under the leadership of the Senior Vice Chancellors

• The AAC will meet regularly to address progress and provide updates to the Chancellors

• The Chancellors will provide periodic updates to the President and BOR
INTEGRATED PKI STRATEGIC PLAN

• The AAC will lead the development and implementation of the PKI Integrated Strategic Plan which will incorporate the newly revised COE and IS&T Strategic Plans

• The Chancellors will have final approval of the integrated plan following input from BOPA and Omaha Industrial Advisory Boards

• Plans will be adjusted as new information and change emerges, such as:
  – Data from Omaha Chamber/UNL/UNO workforce study
  – Constituent feedback
  – New opportunities and/or resources are made available
GENERAL METRICS FOR SUCCESS

• The PKI integrated plan will include timelines and metrics for growth and enhanced effectiveness in five key areas
  – Enrollment
  – Number of graduates
  – Graduation/retention rates
  – Research expenditures
  – Omaha industry engagement
ANNUAL OPERATIONAL PLAN

• The AAC will create an integrated annual operation plan by June 1 of each year
  – Detailing specific action plans and responsibilities for the PKI Director and the Deans for upcoming year
  – Reviewing adjustments of PKI Integrated Strategic Plan

• Annual AAC report to Chancellors including actions, adjustments, and metric based progress

• Annual Chancellor reports to the President and Board of Regents
UNL College of Engineering

Summary of Strategic Plan
Omaha Specific Themes

• Enhance Peter Kiewit Institute’s reputation for enrollment and research growth.

• Connect with unique set of enterprises in Omaha, including engineering and construction firms, Stratcom, UNMC, etc.

• Capture potential of Durham School to reflect changing construction profession.
College-wide Themes

• Focus on manufacturing related to three major industries in Nebraska
  – Manufacturing of food
  – Manufacturing of civil infrastructure
  – Manufacturing of equipment, devices, and components
Undergraduate Programs

• 33% increase in undergraduate enrollment from 2700 to 3600 over five years
  – Omaha: +400 students (50% increase)
  – Lincoln: +500 students (26% increase)
• Merge EE and CEEN to add Electrical Engineering BS degree in Omaha
• Develop curriculum and capstone courses in programs that interact with major Omaha industries
Graduate Programs

• Omaha based Master of Engineering Degree for working professionals
  – Omaha: +200 students
  – Lincoln: +100 students

• Increase graduate students as research increases
Research

• Significant expansion of funded research in Omaha and Lincoln
• Collaborations with
  – UNMC (expand on existing)
  – Stratcom (within NSRI initiative)
  – Omaha industries (i.e., food factory of future)
Research

• Collaboration with I S & T
  – Intersection of big data/high performance computing and civil infrastructure (concept being developed)
  – Intersection of big data/high performance computing and construction safety/efficiency
Investments

• Additional faculty lines in next five years
  – Omaha: 30 additional (70% increase)
  – Lincoln: 20 additional (20% increase)

• Requires 35,000-40,000 sq. feet of classroom and faculty space in Omaha
Omaha Objectives

• Better integration of PKI activities with College strategic plans.
• Growth in faculty and students in Omaha-based programs.
• Additional academic Omaha-based programs. Existing programs will continue.
• Increased research collaborations with Omaha-based institutions—private sector; STRATCOM; UNMC
College Objectives

• Enhance educational opportunities for students by making all College activities and assets accessible to students regardless of location.
• Contribute to economic development through research.
• Build a strong, competitive Big Ten College of Engineering for Nebraska.
College of Information Science & Technology

Summary of Strategic Plan
Vision

To be one of the leading IT colleges in the country

– Recognized as a model for next generation IT colleges with a particular focus on IT innovation and interdisciplinary informatics

– Develop an academic unit with excellence in education, research and community engagement; integrating IT disciplines to meet the needs of our students and the communities we serve.
Key Themes

• Strengthen college research activities and graduate/doctoral programs
  – Increase external funds
  – Recruit strong doctoral students

• Expand college recruiting, retention and advising efforts
  – Innovative delivery approaches for state-of-the-art IT programs
Specific Themes

• Expand college efforts to connect with local high schools and business partners
  – Training workshops and short courses for IT professionals and High School teachers
  – Summer workshops for high school students
  – IT internships opportunities for talented high school students at PKI
Specific Themes

• Global Outreach Activities
  – Joint Courses
  – Modular-based Courses
  – Certificates: undergraduate and graduate
  – Dual/Double Degrees with International Partners
  – Joint supervision of doctoral students
  – Joint grant activities
Focused Academic Priorities

- Information Assurance
- Biomedical Informatics
- iSTEM
- Big Data Analytics
- Next Generation Artificial Intelligence
Undergraduate Programs

• Grow Undergraduate 10% in three years
• Grow Enrollment of Women 20% in three years
• Increase graduates 10% in three years
• Increase dual enrollment 20% in three years
• Increase six year graduation rate by 30% in 2015
• Grow undergraduate retention by 8% by 2015
Graduate Programs

• Grow graduate enrollment 10% by 2015
• Graduate over 85% of all masters students in three years by 2015
• Graduate 80% of all doctoral students within five years by 2015
External Funding

• Double annual research funding in five years and reach $10M by 2020

• Increase externally funded research expenditures by 15% over the next three years
Investments - Research

- Added 2 FTE to support grant development and management since 2008
- Added three post doctoral fellows in 2013
- Hired two new research based faculty in advance of retirements
- Committed to hiring three new research faculty in 2014
- Hired new iSTEM faculty position with dollars committed by UNO administration
Investments – Enrollment & Outreach

• Added new communications coordinator to grow pipeline of new students
• Increased programs directed specifically at growing women in IT fields
• Added a new diversity coordinator to increase recruiting and retaining underrepresented students
• Increase remissions in support of enrollment goals by 50 percent between 2013 and 2015