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All Hands Meeting January 17, 2013 Nebraska East Union



Roadmap for Today's Conversation



- Surveying the external landscape
- Potential changes on the federal scene
- Updates on financial status
 - Budget-setting Unicameral session
 - All pistons firing on goals
 - IANR building projects
 - NU Foundation progress/status/priorities



Roadmap for Today's Conversation



IANR as a leader for UNL and NU growth

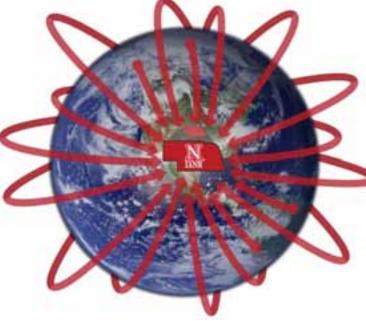
- Faculty Growth Plan Phase I and Lead to Phase II (R. Yoder)
- Nebraska Innovation Campus (D. Duncan)
- Vision for UNL Extension and NU Rural Futures Institute (C. Hibberd)



Roadmap for Today's Conversation

IANR as a leader for UNL and NU growth

Global Engagement Implementation (M. Doyle)







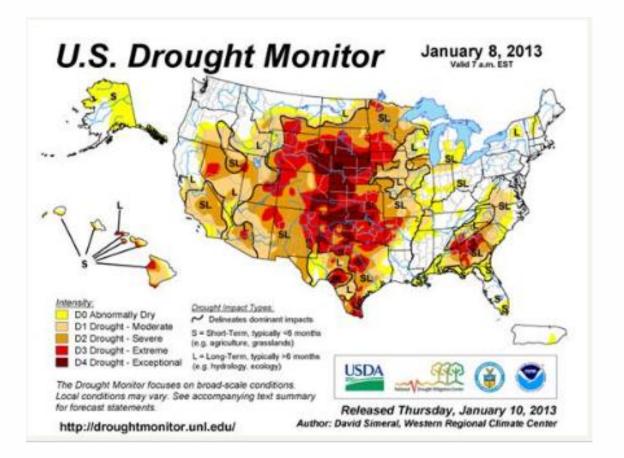




Paying Attention to the Outside World

- Economy still trying to find its feet globally signs of progress.
- State and local economy still going against the odds – <u>Agriculture-based</u>
- Election did not change the tenor of Washington – still grid-locked but must loosen – attention on Farm Bill, spending cuts to come
- 2012 year of the "flash drought"











NE Economy is in an Unprecedented Time

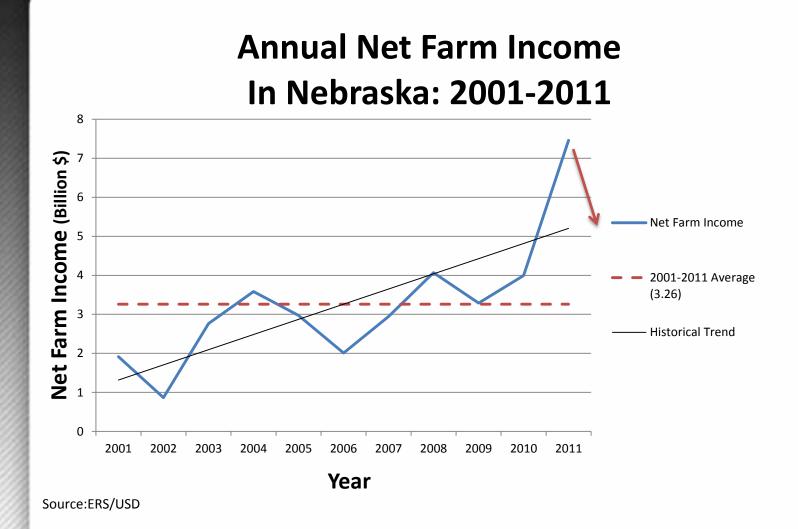
- Value of Ag Production in 2011 of \$23.7 billion with net farm income for NE of ~\$7.5 billion!
 - Beating the old record in 2008 of \$4.1 B and the 10-yr average of \$3.3 B
- Generational transfer of land in NE projected at \$8.25 billion over the next five years
 - Current asset value of agricultural land = \$110 billion
 - Current annual rates of turnover being about 1.5% per year (\$110 bi. X 1.5% per year X 5 years = \$8.25



Weekly Commodity Highlights

Nearby Futures	Weekly Change	Friday's Close	Year Ago
Corn	+.28 ½	7.08 ¾	6.51 ½
Soybeans	+.35 ¾	14.24 ¾	11.97 ½
Wheat	+.07 ½	7.54 ¾	6.41
Cattle	-2.35	130.60	121.33
Hogs	-2.03	84.20	82.90
Cotton	+.57	75.62	96.87
Milk	+.03	18.06	17.14
Crude Oil	+.47	93.56	103.22







Competition for limited resources



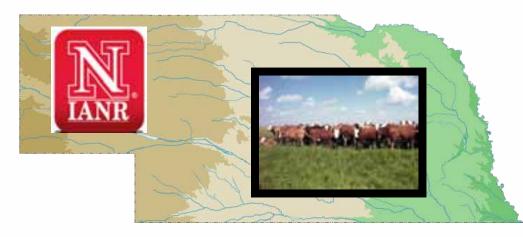
NE – 47%
SD – 24%
IA – 22%

Core corn belt capital gains last decade 275 to 300%

Doug Stark, President and CEO, FCSA



Nebraska = Ag and Natural Resources



- 46,800 farms and ranches + largest aquifer
- 45.5M acres of farmland, largest irrigated state and watershed network
- 1st nationally in commercial red meat production
- > 2nd nationally in ethanol production capacity
- 4th nationally in value of ag products sold
- 5th nationally in value of crops



State Funding

UNL is 20% state funded, one of highest in APLU (IANR is 46%)



- Unicameral now convened in a biennium budgetsetting session
- 11 new Senators, new Speaker and Chairs of Appropriations, Agriculture, Education, Natural Resources
- The unobligated ending balance in the Cash Reserve Fund to start the biennium is projected at \$442 million
- Receipts are \$111 million higher than projected but \$195M deficit projected in biennium



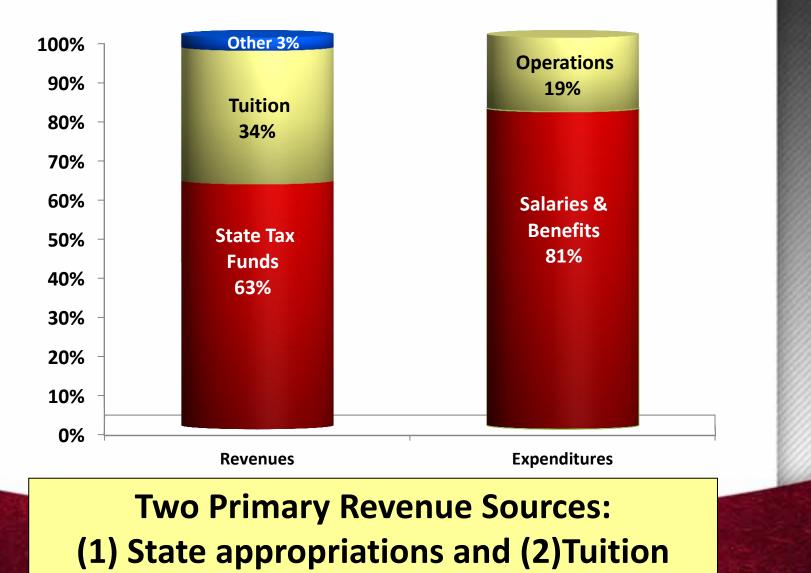
State Funding



- Governor proposing eliminating state income tax and potentially the state inheritance tax
- Significant issues with Medicaid expansion (\$44M), K-12 state aid, water funding (\$50M)
- Must factor in lowered income tax brackets and Build Nebraska Act ("Roads Bill")



NU 'State-Aided' Budget



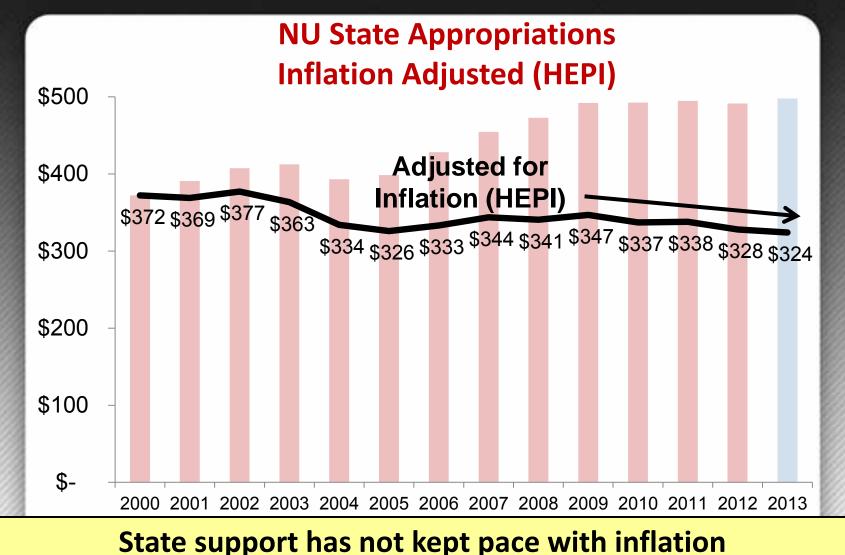
NU State Appropriations (in millions and including NCTA) \$454 \$473 \$492 \$492 \$495 \$491 \$498 \$500 \$372 \$391 \$407 \$412 \$393 \$399 \$428 \$400 \$300 \$200 \$100

Five years of flat funding but still relatively better position than many states

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

\$-

2000



Assumes 3% Higher Education Price Index (HEPI) inflation increases in 2012 and 2013

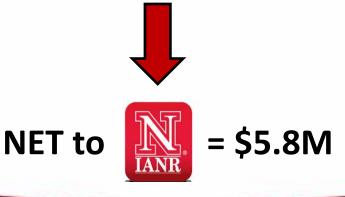


NU Budget Request... Commitment to Affordability

Proposed Affordability Compact

With 4.2% increase in base funding -resident tuition frozen for FY 14/15

Net result would be NU increases of \$20.9 and \$21.8 M in FY 14 and 15











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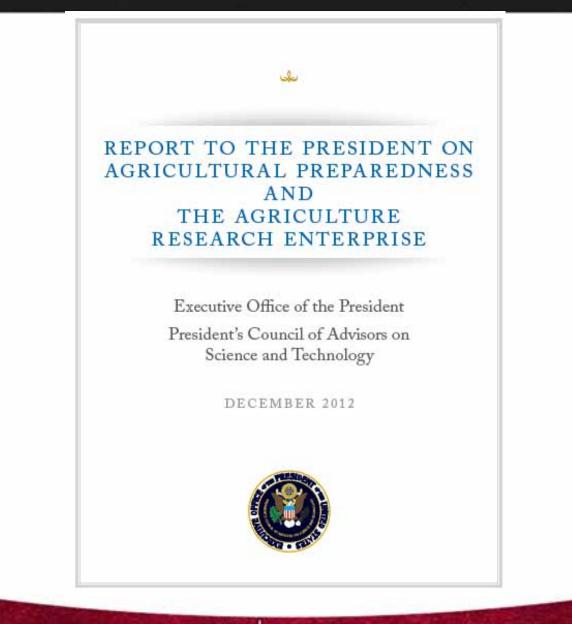
AGree

Chicago Council on Global Affairs

Council on Competitiveness

SOAR (Supporters of Ag Research)







PCAST recommends the creation of a new innovation ecosystem for agriculture that leverages the best from different parts of the broad U.S. science and technology enterprise, focusing public investment....PCAST calls for a strategic investment that will create the path toward an improved innovation ecosystem for the U.S. heartland, enhancing the economy and harnessing the power of U.S. innovation in science and technology.....



Increase investment by \$700 M per year



SCIENCE, TECHNOLOGY and INNOVATION

Whether it's improving our health or harnessing clean energy, protecting our security or succeeding in the global economy, our future depends on reaffirming America's role as the world's engine of scientific discovery and technological innovation.

– President Barack Obama



- Increase AFRI from \$265 to \$500 M
- Increase NSF basic funding for food and ag from \$120 to <u>\$250 M</u>
- \$180 M in USDA fellowship funding for graduate students and postdocs
- Create six innovation clusters at <u>\$150 M</u> per year focused on emerging challenges in ag and food
- Create a permanent scientific advisory committee to advise the USDA Chief Scientist



THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

BOARD ON AGRICULTURE AND NATURAL RESOURCES

<u>CHAIR</u>

Victor L. Lechtenberg Acting Executive Vice President for Academic Affairs and Provost Purdue University

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Keith L. Belli Professor and Head, Department of Forestry, Wildlife, and Fisheries University of Tennessee

Peter J. Bruns Vice President (Emeritus) Howard Hughes Medical Institute

Steven T. Buccola Professor of Agricultural and Resource Economics Oregon State University

James C. Carrington President Danforth Plant Science Center

Machi F. Dilworth Director of the Division of Biological Infrastructure (retired) National Science Foundation

Cutberto Garza Provost and Dean of Faculties Boston College Ronnie D. Green Vice President, Agriculture and Natural Resources University of Nebraska

Rosemary R. Haggett Vice Chancellor for Academic Affairs and Student Success University of North Texas System

Gene Hugoson Senior Fellow Global Initiative for Food Systems Leadership

Bennie I. Osburn Dean, School of Veterinary Medicine (retired) University of California, Davis

Philip G. Pardey Professor of Science and Technology Policy University of Minnesota

Sally J. Rockey Deputy Director for Extramural Research National Institutes of Health

Juliana M. Ruzante Senior Associate, Food Safety Campaign Pew Charitable Trusts

James C. Zuiches Vice Chancellor, Extension, Engagement, and Economic Development (retired) North Carolina State University







Progress on 2017 Goals

- 1) 8th consecutive year of enrollment growth in CASNR (3.7% increase in FY 12)
- 2) 20% increase in external grants in FY 12 with \$91.7 M in research expenditures
- 3) 6-year graduation rate of 77.6%
- 4) Increasing tenure-track faculty by 9.8% (36 FTE) with additional 19 planned in phase II.
- 5) Leading the population and development of phase I of Nebraska Innovation Campus



NU Foundation Update











Brian Hastings

Ann Bruntz

Josh Egley



<u>Ann Bruntz</u>

Department of Animal ScienceSDepartment of ALEC[]Department of Textiles, Merchandising, and[]Fashion Design (IANR portion)[]Department of Agricultural Economics[]Department of CYF Studies (IANR portion)[]NCTA[]Center for Grassland Studies[]Gudmundsen Sandhills Lab / Barta Brothers[]High Plains Ag Lab[]Rural Futures Institute[]Nebraska LEAD Program[]Engler Agribusiness Entrepreneurship[]Program[]

Josh Egley

School of Natural Resources Department of Biochemistry Department of Food Science & Technology Department of Nutrition & Health Sciences (IANR portion) Department of Biological Systems Engineering Department of Entomology Department of Plant Pathology Department of Statistics Daugherty Water for Food Institute (includes Nebraska Water Center) Center for Plant Science Innovation Center for Virology

Joint Responsibility

Department of Agronomy & Horticulture School of Veterinary Medicine and Biomedical Sciences Extension:

Ann - West Central & Panhandle Districts Josh – Northeast & Southeast Districts





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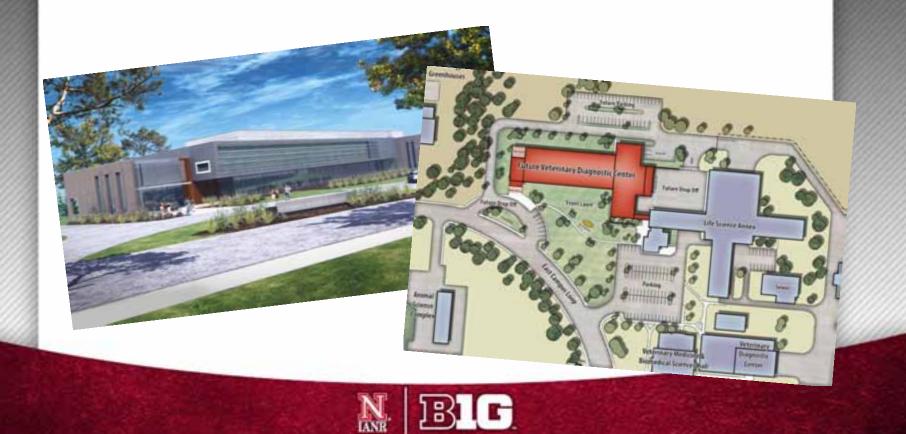
- 1) Funding for Veterinary Diagnostic Lab
- Funding for 25 Presidential Chairs in priority areas – currently 2 with 2 more under development
- 3) Funding for Nebraska Innovation Campus and Enhancements
- 4) Funding for growth in Nebraska-wide research and extension campus



Veterinary Diagnostic Center Fund Raising

Goal: \$5 million

Money raised as of today - \$200,000+







Campus Master Plan



planbig.unl.edu



East Campus Recreation Center





Holdrege Street





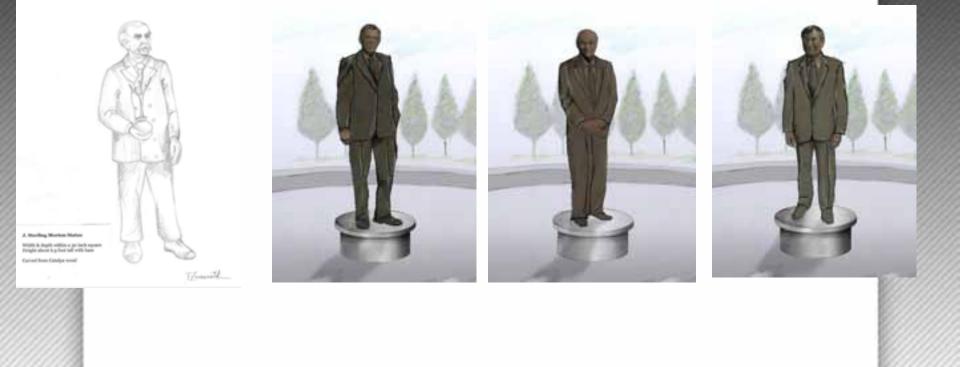
C.Y. Thompson



Get involved in the discussion! go.unl.edu/cytlibrary



Placement on Campus – May 2013





Research and Extension Sites Construction Project Report

Panhandle Research and Extension Center Elliot Building HVAC, Electrical and Life Safety Renovation

- Construction project to upgrade the 43 year old HVAC, electrical and life safety systems in the Elliot Building at Scottsbluff.
- Total Project Cost: \$ 3,750,000

Panhandle Research and Extension Center High Plains Ag. Lab proposed new Lab/Office building

- A proposed new laboratory and office building at the High Plains Ag. Lab site near Sidney, NE
- Total Project Cost: \$ 500,000



Research and Extension Sites Construction Project Report

West Central Research and Extension Center Feeding Study Building

- A new 60'x180' open sided pole structure for feeding studies using Growsafe brand feeders.
- Total Project Cost: \$ 116,100

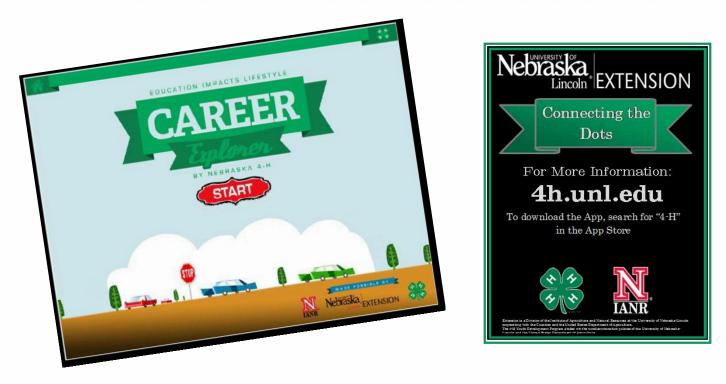
West Central Research and Extension Center Proposed Addition to Snyder Administration Building

- An addition to the northwest wing of the original Snyder Administration Building for faculty and graduate offices)
- Total Project Cost: \$411,500









2012 NAE4-HA MEMBER RECOGNITION SPECIALITY AWARD -Interactive 4-H Educational Web Site Award (Team)

Shane Potter, Jeff Abele, Kim Bearnes, Tracy Behnken Heather Borck, Brian Bosshamer, Kathleen Lodl, Tracy Pracheil, Dustin Renken, Barbara Scharf, Lila Tooker, Dave Varner, & Amy Topp



Omtvedt Innovation Award Bob Klein





Omtvedt Innovation Award Barry Shull





Omtvedt Innovation Award Jim Alfano





Omtvedt Innovation Award Andy Benson, Bob Hutkins, Jens Walter









Omtvedt Innovation Award

National Drought Mitigation Center







Ron Yoder





- Prioritization process
 - Discussion began at 2011 IANR Leadership retreat at WCREC
 - Identified four key areas for growth in IANR
 - Crops for the Future
 - Animal Systems
 - Food, Nutrition, and Health
 - Resource Stewardship





- Discussion continued throughout the Fall of 2011
- Proposed planning process shared at IANR All Hands Meeting – February 10, 2012
- Process finalized and planning initiated Feb. 21
 - Need the collective insight and input of faculty and units in IANR
- Draft of unit priority plans submitted March 30
- Review and discussion of unit plans among individual unit administrators and deans – May 17



Prioritizing faculty hires

- Unit plan revisions completed June 1
- Unit plans shared and discussions about team formation between June 1 and July retreat
- Retreat in Nebraska City July 24-25
 - Five areas identified for working groups
- -Working groups submitted prioritized lists Sept. 14
- Deans Council developed priority list Sept. 26
- -Announced positions at All Hands Meeting Oct. 1



Priority Positions Overview

- More than 30 Faculty Positions
- 5 Focus Areas + core positions





Core Positions

- Community Leadership Development
- Advanced Machinery Systems Engineer
 - for Food, Fuel, Water
- Rangeland Ecologist
- Micrometeorologist
- Behavioral / Experimental Economics





Science Literacy

Dean's Council Liaison: Steve Waller Unit Head Leads: Kathleen Lodl; Mark Balschweid

- Life Science Education
- Science Literacy Director
- Science Literacy Specialist





Stress Biology

Dean's Council Liaison: Archie Clutter Unit Head Leads: Don Adams; Gary Brewer

<u>Plants</u>

- Plant-Arthropod Interactions
- Plant Molecular Physiologist
- Advanced Sensing Systems
 Scientist/Engineer
- Plant Biotic Stress Biologist
- Plant Virologist



Stress Biology

Dean's Council Liaison: Archie Clutter Unit Head Leads: Don Adams; Gary Brewer

<u>Animals</u>

- Animal Stress Physiologist
- Functional Genomics of Stress/ Disease
- Animal Breeding & Genomicist
- Theoretical Quantitative Geneticist

Agroecosystems

- Agrosystems Ecologist (WCREC)
- Quantitative Ecologist



Healthy Humans

Dean's Council Liaison: Marjorie Kostelnik Unit Head Leads: Tim Carr; Rolando Flores

Behavioral Studies

- Behavioral Based Epidemiology
- Behavioral Economics and Health Disparities
- Childhood Health Behaviors

Food and Nutrition

- Food Safety Risk Assessment
- Food Lipid Chemistry & Functionality
- Lipid Metabolism & Health



Large Data Sets

Dean's Council Liaison: Archie Clutter Unit Head Leads: Paul Black; Steve Kachman

Three positions, each with emphasis at both methodological and field specific levels

- 'Omics
- Organismal
- System





Healthy Systems for Agricultural Production and Natural Resources

Dean's Council Liaison: Ron Yoder Unit Head Leads: Tala Awada; Roch Gaussoin

Beef Systems

- Beef Systems Specialist
- Biosystems Economist
- Forage/Crop Residue Systems Specialist
- Range/Forage Management Ecologist (PHREC)

High Plains Cropping Systems

- Dryland Cropping Systems Agronomist (PHREC)
- Water Resource Management Engineer (PHREC)



Filling Priority Positions

Many Searches

- Search committees
- Applicants



Candidates and interviews

Search Planning Meeting – January 18, 2013

 Meeting with unit head and one or two support staff from each department

Flexibility – Hire the Best



Conducting Searches

We will provide support for the various phases of the hiring process

- Initiating the search
 - Position description
 - Advertising; recruiting; getting the best pool
- Creating the short list
 - Evaluating the pool; checking references; selecting the best applicants
- Hiring the best candidate
 - Conducting interviews; rating candidates; offers/negotiating/hiring



Additional Support

<u>Coordination</u>: across functional areas to allow for the sharing of best practices and solutions to challenges

<u>Frequent Communication:</u> updates regarding the progress of the hiring process will be sent to this group.

<u>Weekly review:</u> of process / progress.



Feedback

- Communication will be very important
 - Between Ag Hall and units
 - Among working groups
 - Among units
- Feedback will be welcome, expected, and helpful.





Great Opportunity

- Strengthen areas within IANR that have potential for further growth
- Make excellent hires
- Prepare for future growth and hires
 - This is the first round
 - Success in this round prepares us for future hires





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Momentum building...





Innovation Campus

Dan Duncan Executive Director



25 Year Vision

- Output of NIC: A continuous transformation of ideas into innovation that positively impacts the world.
 - Physical
 - Two million square feet at full build-out with up to 7,000 people on campus working, living, and playing in uniquely designed buildings of quality construction with amenities.
 - That is 80,000 sq. ft. of building per year.
 - We are attempting to build the processes necessary to make this happen.



Food









Fuel











Water











Nebraska Innovation Campus Master Plan





Phase I Building Complex

280,000 Square Feet



NIC Funding for Phase I

- \$25M from State of NE
 - \$10M for the conference center located in the former 4-H Building
 - \$15M for the Life Sciences building (new building)
- \$15M from Philanthropy (in process)
- Nebraska NOVA
 - \$40M match of state and philanthropic funds
 - \$10.7M for Phase I infrastructure
 - \$15.6M for Effluent System



NIC Development

- Current stages of development:
 - Construction on Phase I buildings starting
 - Construction fence is up
 - Hausmann Construction
 - Contractor for SDL1
 - Kiewitt
 - Contractor at Risk for SDL 2
 - Expected occupancy in late 2013/early 2014
 - Currently working with Archrival to create and roll out the NIC brand



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First Corporate Partner

onAdro Food you love



Offices at NIC

- Entities currently slated to move to NIC:
 - NIC Administrative Offices
 - NUtech Ventures
 - Industry Relations
 - Global Water for Food Institute
 - Business Accelerator



UNL Research on NIC

- Entities currently slated to move to NIC:
 - High Throughput Phenotyping System
 - ConAgra Tomato Program?
 - Other? Discussions in early stages, Vice
 Chancellors will start meeting with Faculty soon.



Ways Faculty Can Be Involved at NIC

- Work through your department head and dean to develop proposals for UNL sponsored activity at NIC. (activity requiring UNL funding)
- Explore expanding current relationships with industry partners – funding provided by the partner
 - Contact Dan Duncan
- Want a relationship with a company but don't know how to start?
 - Contact Dan Duncan, Ryan Anderson and/or David Conrad
- Other contact Dan Duncan



NIC Keys to Success

- Robust faculty research engine at UNL
- Faculty that want to engage private sector
- Continued recruitment and retention of highly productive faculty
- Student Recruitment
- Continued Legislative and Constituent Support
- Philanthropy
- Keep the Faith



© Nebraska Innovation Campus 230 Whittier Research Center Lincoln, NE 68583-0859 Phone 402.472.5535 • Fax 402.472.9277

INNOVATE.UNL.EDU

Not Just a Place...A State of Mind







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UNL Extension's Role in the RFI Chuck Hibberd January 17, 2013





RFI Mission Statement

- Building upon strengths,
- a culture of innovation and entrepreneurship,
- mobilize the resources and talents,
- action to achieve unique paths to desired futures.





RFI Core Values

- Inclusive
- Opportunistic & resilient
- Transdisciplinary
- Capacity building
- Creative
- All serving
- Reflective & collaborative

- Sustainable
- Bold





Background data

- North Central region economic and community development programs/projects
- Survey of UNL
 Extension faculty
- Focus groups





Faculty Survey (306 responses)

	Now	Next 3-5 years
Extension Educators	28%	51%
Extension Specialists	27%	47%



Important Questions

1. How can UNL Extension seamlessly engage with the RFI?

 What educational programs will UNL Extension deliver that are aligned with the RFI mission?



Extension is *uniquely positioned* to be a key player

- Network of professionals
- Embedded in rural communities and connected with NU system
- A 4-H program that engages youth
- Facilitate and lead research and education projects that impact communities
- Part of a national Cooperative Extension system



A Seamless and strategic Partnership

- Extension Director in a RFI leadership role
- RFI on Extension's Action Teams
- Extension faculty as grass roots "eyes and ears"
- Connect with RFI grantees
- Extension as a conduit to all four NU campuses
- Extension faculty contribute to RFI scholarship
- Extension as a testing ground for new ideas
- Meaningful communications at multiple levels
- Linkages to other land-grant universities



New Extension Action Team

Community Vitality Action Team

- Gather expertise
- Facilitate conversation
- Planning and implementation
- Three signature programs



GOAL

UNL Extension will increase the <u>intersections of ideas</u> and resources resulting in innovation that improves the vitality of rural communities.





Grow Rural Nebraska businesses

- 1. Support entrepreneurs to develop and/or grow businesses
- 2. Produce, process, and market local foods and agricultural products
- 3. Develop agri-tourism and business ventures that bring people to Nebraska
- 4. Facilitate the transfer of businesses, land and natural resources



Engage Youth & Young Adults In Rural Communities

- 1. Youth engaged with adults in meaningful leadership experiences
- 2. Youth-serving partners create learning experiences that increase community connectedness
- 3. Youth discover viable career choices and gain measurable career/job skills
- 4. Young adults will own and/or manage more businesses



Create 21st Century Communities Attract and Retain Young People

- 1. Engaged leadership that generates more diverse ideas/projects/goals.
- 2. A larger and better-educated workforce
- Community infrastructure that supports entrepreneurship & business development.
- 4. Rural communities that attract and retain young people.



Key Organizational Conversations

- Strong reciprocal connection to the RFI leadership
- Extension's role with other NU campus programs
- Extension's organizational culture around Community Vitality work
- New Community Vitality Action Team
- Who is responsible for delivering Extension RFI programming
- Strengthen UNL research capacity



Next steps

- Review the concept paper with IANR and current RFI leadership
- Adobe Connect conversations:
 - 2:30 pm CST, Friday, January 25
 - 3:00 pm CST, Tuesday, January 29
- Comments through February 1
- Revise and resubmit to UNL Extension professionals by February 8



Our look forward

• Mission and core values aligned.



- Contribute new knowledge.
- Catalyze important work in rural Nebraska.
- Innovative engagement of rural people and communities.
- Ready connection with Nebraska's youth.
- Increase the intersections of ideas and resources resulting in innovation that improves the vitality of rural communities.



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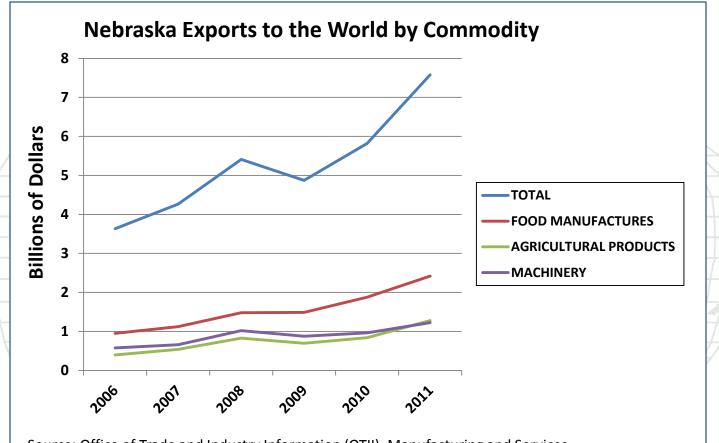
Office of Global Engagement Institute of Agriculture and Natural Resources

Mark Doyle Director of Global Engagement, IANR mdoyle3@unl.edu



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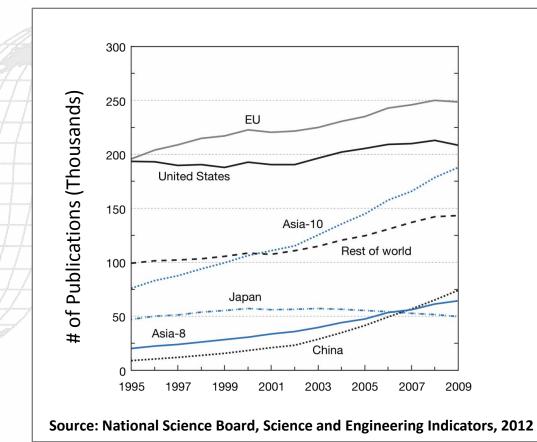
Office of Global Engagement



Source: Office of Trade and Industry Information (OTII), Manufacturing and Services, International Trade Administration, U.S. Department of Commerce.



S&E journal articles produced, by selected region/country: 1995–2009





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China

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	rsity of Nebraska-Lincoln office in Beging wi and student exchanges between the United	l open up new possibilities for joint research I States and China.					
		http://newsroom.u	nl.edu/announce	/ianrr	news/	1367	/788

Other Activities:

- Xi'an Jiaotong University (Xi'an)
- Northwest Agricultural and Forestry University (Yangling)



Brazil

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ThisWee	ekgiAtiR Submit A News Item					

The University of Nebraeka-Lincoln and the University of Sao Paulo in Brazil are partners in a new program that will give faculty, staff and undergraduate and graduate students from the schools' respective agriculture and natural resources campuses opportunities to study and do research together.

ThisWeek@IANR

UNL, Brazilian university sign new agreed

Other Activities:

http://newsroom.unl.edu/announce/ianrnews/1367/7894

- Brazil Scientific Mobility Program
 - Began in January 2012
 - 61 Brazilian undergraduate students have studied in various programs at UNL.



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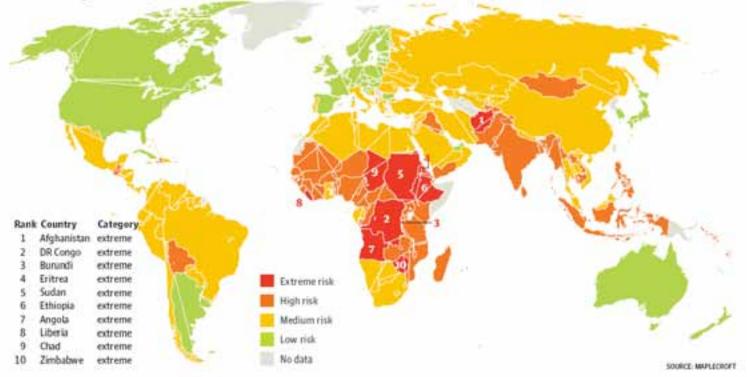


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Areas of Food Security Risk

Food security risk index, 2010





Other Countries and Regions?

Research can be very site dependent

 Enable faculty, staff, and students to access needed resources



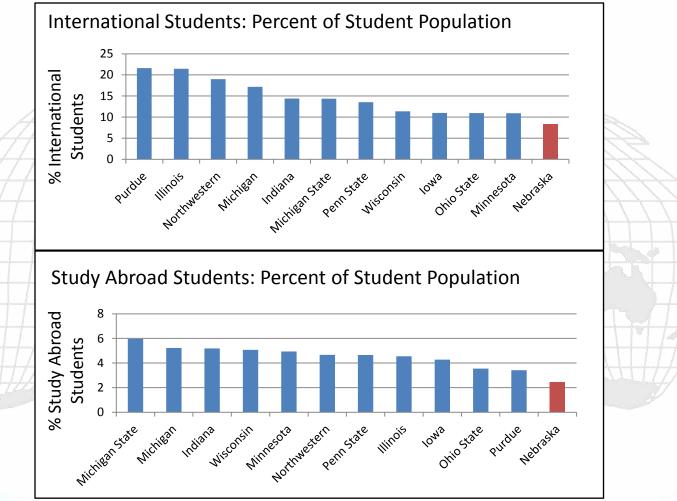
IANR / CASNR International Agreements

- 55 Active Agreements
- 25 Different Countries
- Move towards agreements with substance
- Agreements that leverage unique capabilities



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Institute of International Education. (2012). http://www.iie.org/opendoors



Short-term Plan (Next 3-6 months)

- Develop an Office Website
 - An information source for all constituencies
 - Study abroad opportunities
 - Funding opportunities
 - Highlight on-going international activities



Short-term Plan (Next 3-6 months)

- Data: Develop an IANR database for international activities
 - **Identify regional expertise**
 - Identify needs and opportunities
- Create an IANR International Advisory
 Committee
 - Strategic Plan
 - Programs and Services





Office:

Agricultural Hall Room 313 Phone: (402) 472-5960

<u>Global Engagement Staff:</u> Dr. Mark Doyle mdoyle3@unl.edu

Dr. Liana Calegare Icalegare2@unl.edu

Ms. Miranda Ducey mducey3@unl.edu

Thank You





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