

IANR

All Hands

Meeting



Oct. 4, 2022

N

CELEBRATION OF

INNOVATION

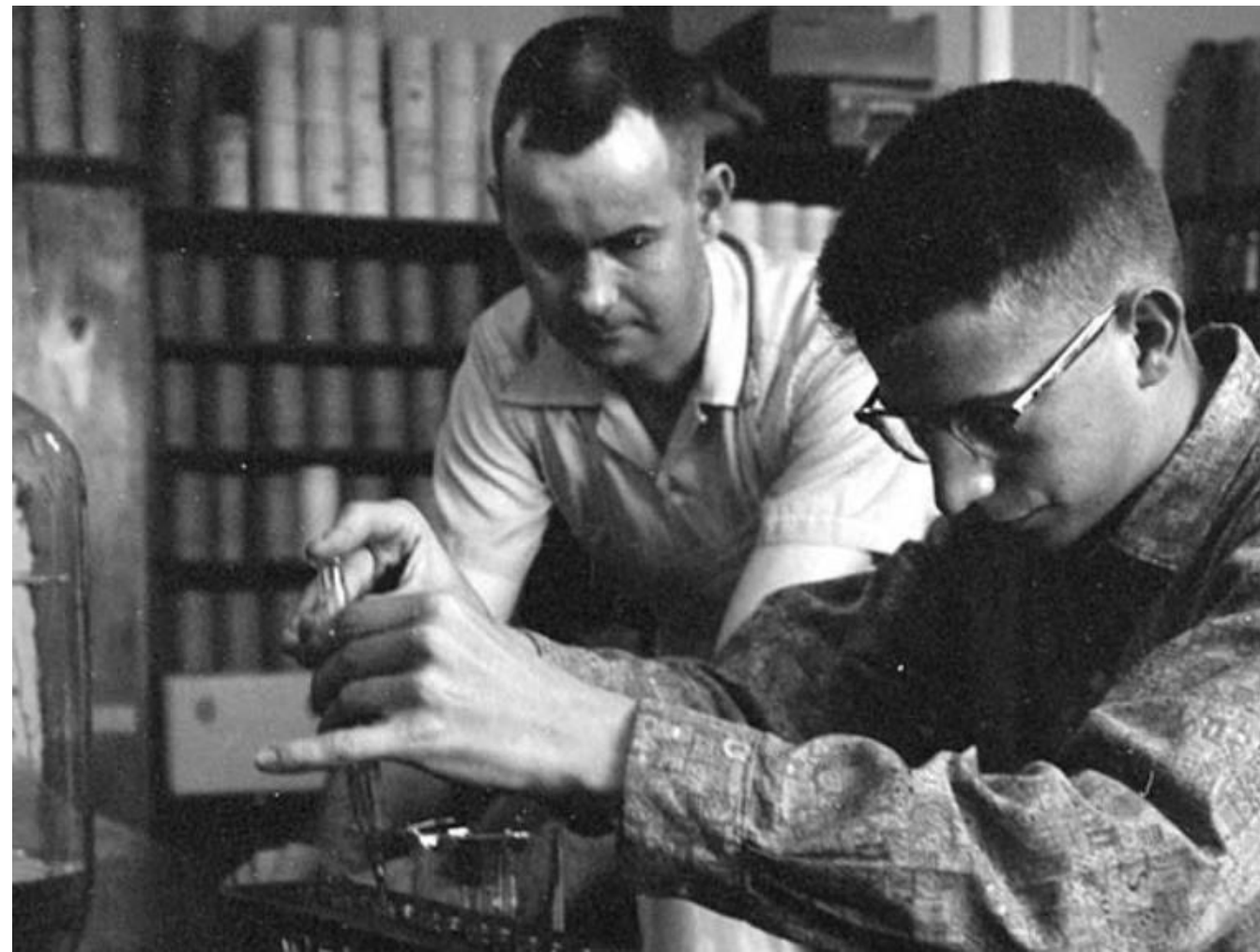
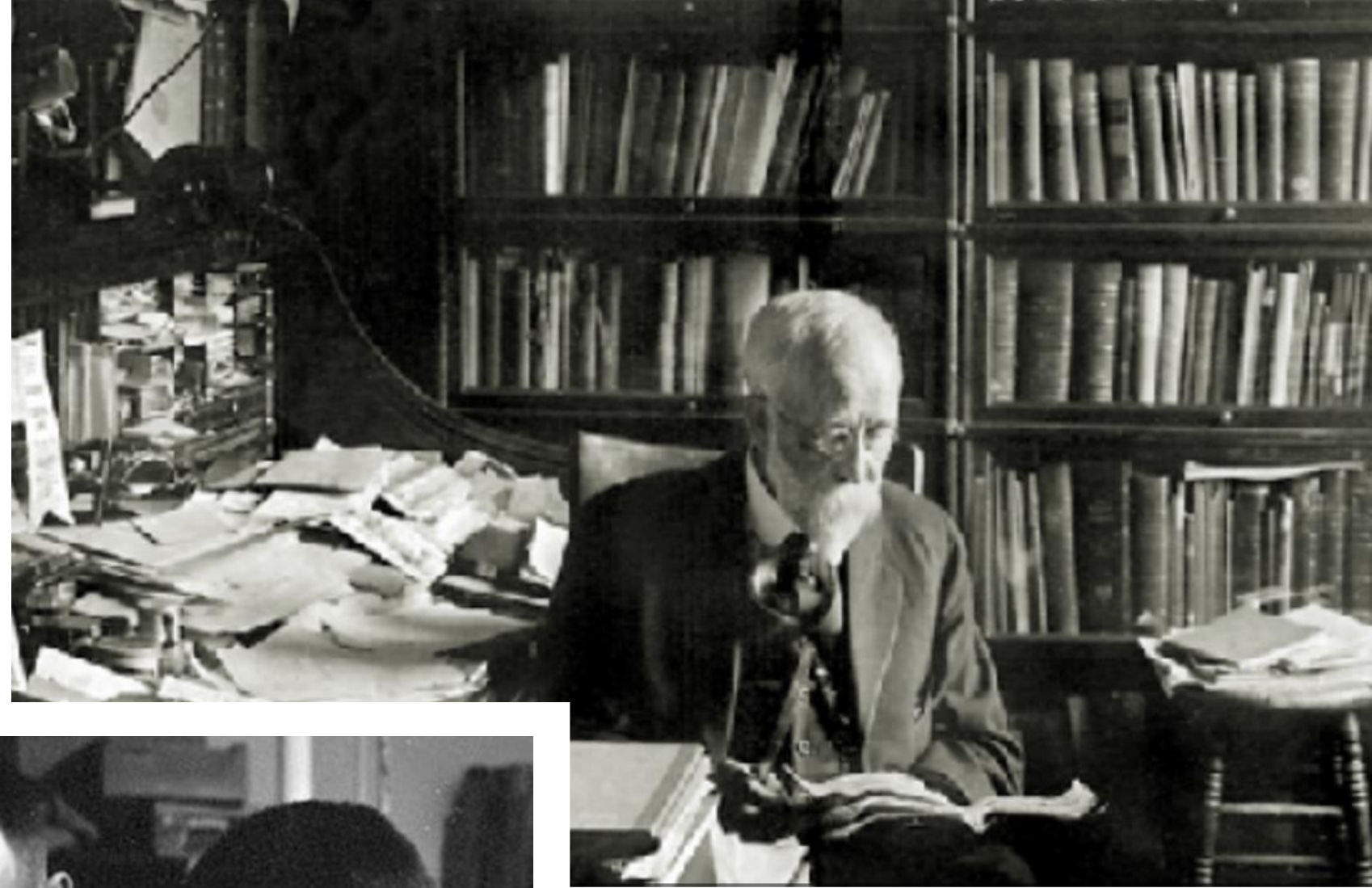
CASNR

150

IANR

50











The amazing people of IANR

Retirements -- Staff and Faculty

Timothy Arkebauer
Joel Barnett
Douglas Bauer
Diane Brown
Douglas Carlson
Glenda Fells
Michael Finley
Charles (Chuck) Francis
Judy Fredrick
Steven Garrison
Bethleen Hagemeyer
Ronald Herbek
Ronald Hoagland
Connie Imler

Leslie Howard
Karen Jackson
William Robert Jonas
Leslie Kampbell
Marjorie Kostelnik
Karma Larsen
Mary Loftis
Gerald Lokie
Bryan Ludemann
Betty McCutchan
Leo Thomas McFarland
Duane Mischnick
Jeffrey Noel
David Ostdiek
Cheryl Pflueger
Cindy Porter

Janaki Rajagopal
Sheri Ramirez
Charles Rezac
John Rieckman
Diane Schroeder
Linda Sue Scott
Constance Scott
Roddy Spangler
Robert Stetson
Susan Svoboda
Kathryn Wally
Patricia Wemhoff
RoNelle Woodward



Tenure and Promotion



Judy Wu-Smart



Melanie Downs



Philip Johnson



John Benson



Renee McFee



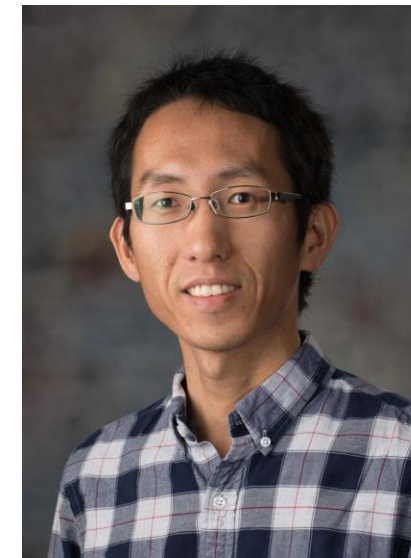
Brian Vander Ley



**Elizabeth
VanWormer**



Reka Howard



Yuzhen Zhou



Surin Kim



Tenure and Promotion



Nevin Lawrence



Bijesh Maharjan



Benny Mote



Hiep Vu



Toshihiro Obata



Xinghui Sun



Nicole Iverson



Forrest Kievit



Aaron Mittelstet



Holly Hatton-Bowers



Tenure and Promotion



Michelle Krehbiel



Matthew Stockton



Keenan Amundsen



James Schnable



Kim Todd



Karla Wilke



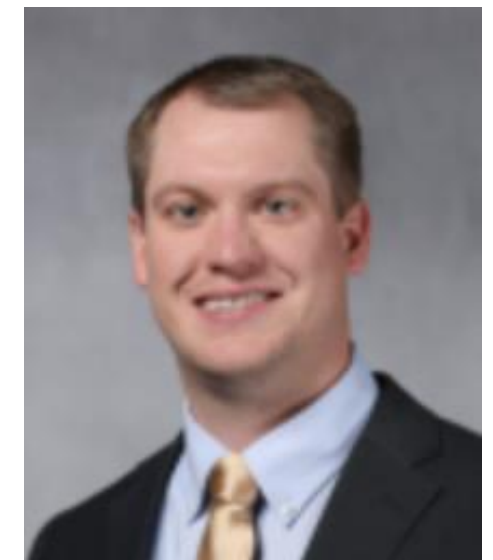
Jeffrey Bradshaw



Dustin Loy



Matthew Wiebe



Bradley Schick



Tenure and Promotion



Katherine Krause



Kathryn Pekarek



Leah Sandall



Meghan Sindelar



Matthew Douglass



**Manuel Roberto
Cortinas**



Brian Fuchs



New Faculty Colleagues



Lord Ameyaw



**Nicolas Cafaro
La Menza**



Maria Cantu Hines



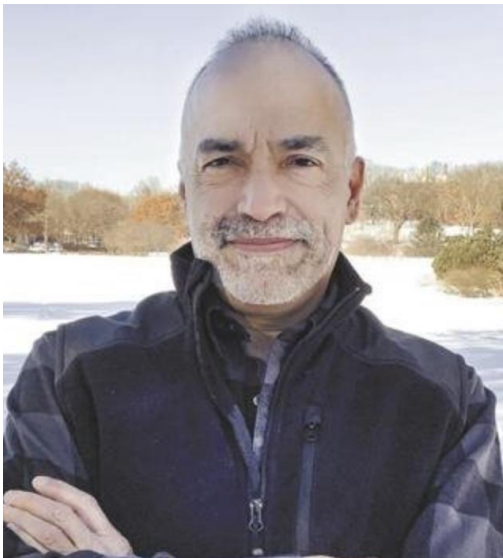
**Caro Cordova
Martinez**



Aaron Daigh



Samantha Daniel



Alfredo DiCostanzo



Nathaniel Dorsey



Michaella Fevold



Teddy Garcia-Aroca



New Faculty Colleagues



**Joao Carlos
Gomes Neto**



Becky Haddad



Christine Haney



Jingjie Hao



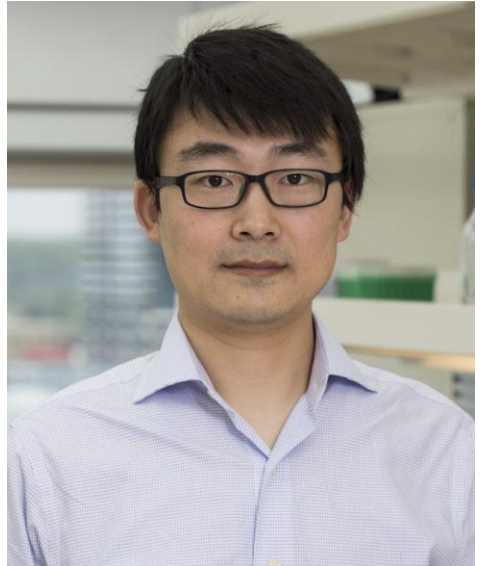
Melanie Hess



**Brandi Hilton-
Hagemann**



Sheila Hoppe



Yihi Huang



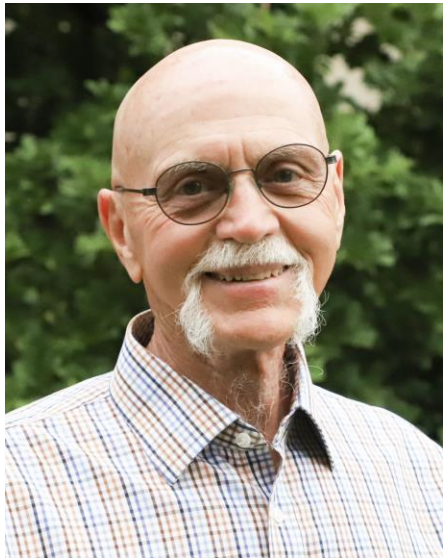
Hayley Jackson



Caitlyn Jacobson



New Faculty Colleagues



Blaine Johnson



Ingrid Lindal Chavarria



Marianne Lorensen



Dylan Mangel



Jessie Morrill



Jill Motschenbacher



Laura Nagengast



Bruno Patias Lena



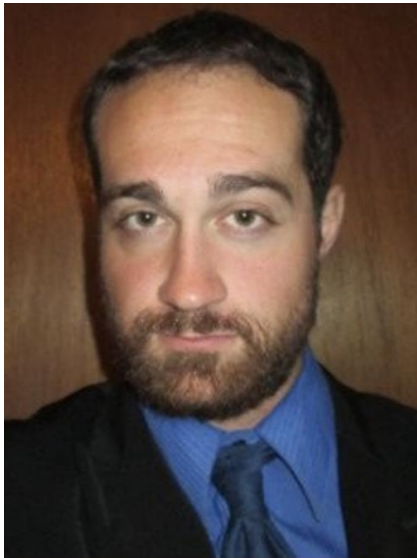
Wayde Pickinpaugh



Luis Gerardo Posadas Martinez



New Faculty Colleagues



Peter ReVelle



Randall Ritzema



Xueheng Shi



Kimberly Stanke



Emily Stine



Saleh Taghvaeian



Lindsay Waechter-Mead



Melissa Westbrook



New Leadership Appointments



Jentry Barrett



Lisa Karr



John Porter



Amy Topp



Jerry Volesky



John Westra



Mary Emery





ARD Dean



Derek McLean

Search Advisory Committee

Tiffany Heng-Moss

Ed Cahoon

Don Becker

Andrea Cupp

Stephen Wegulo

Nic Brozovic

Amanda Ramer-Tait

Yufeng Ge

Dipti Dev

Jessca Corman

Jayne Stratton

Gabi Carmona

Kelly Brunkhorst

Mark Boggess

Lisa Lunz

Jennifer Nelson

Department Head Updates



Larry Van Tassell
Agricultural Economics

Two on-campus visits this week and next



David Jones
Biological Systems Engineering

National search underway



Clint Krehbiel
Animal Science

National search in JAN 2023 – Internal interim will be named

Congratulations!

Kim Todd



All Hands Meeting, Oct. 4, 2022



IANR in the news

Feedlot Innovation Center could revolutionize UNL research



Like most extraordinary ideas, the Feedlot Innovation Center at Eastern Nebraska Research Extension and Education Center (ENREEC) near Mead, Nebraska, began with a vision. For Galen Erickson, PhD, that vision spurred from a desire to modernize the current feedlot research facilities.

Erickson has acute insight into the needs of the feedlot research facility because he supervises employees, facilitates faculty research and procures funds for research projects at the current feedlot. As University of Nebraska-Lincoln (UNL) feedyard extension specialist, he also teaches undergraduate and graduate classes about feedlot

April 6, 2022 · 3 min read

Governor signs budget with investment in ag innovation facility

by [University Communication and Marketing](#)



Gov. Pete Ricketts on April 4 signed a mid-biennium budget package for the state that makes investments in key priorities of the University of Nebraska System, including the University of Nebraska-Lincoln's agricultural innovation facility

The budget package includes \$25 million for the agricultural innovation facility, which will serve as a companion to the United States Department of Agriculture's proposed National Center for Precision, Resilient and Regenerative Agriculture. Both facilities are being planned for construction on Nebraska Innovation Campus.

NASA Satellite Tech to Help Farmers

NASA Continues to Expand Space Missions Designed to Study Earth, Help Farmers

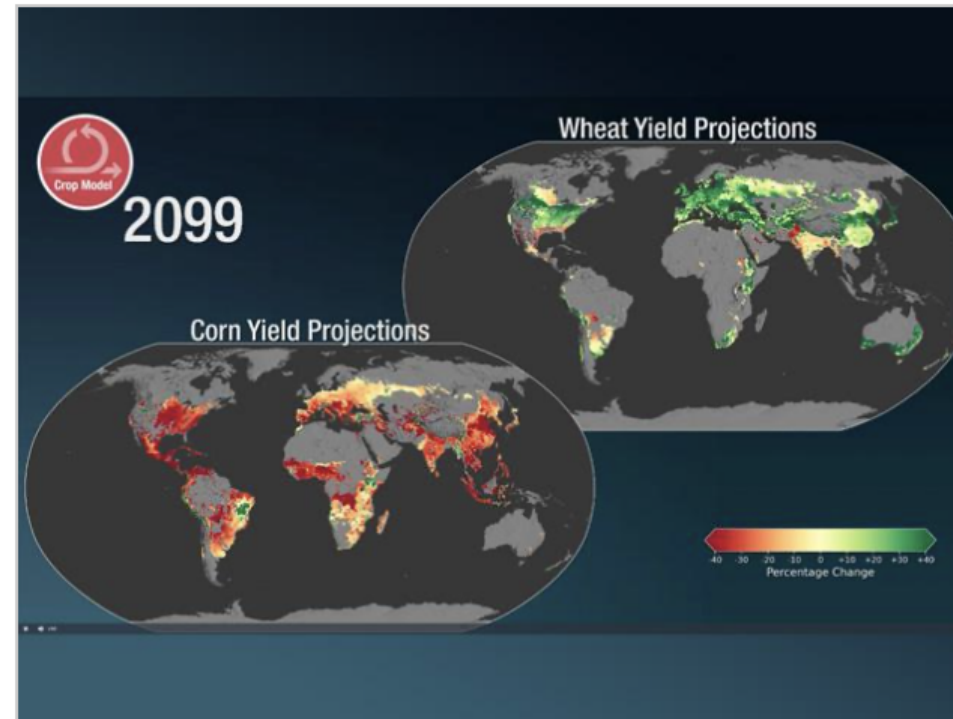
8/23/2022 | 2:10 PM CDT



By [Todd Neeley](#), DTN Staff Reporter

Connect with Todd:

[@toddneeleyDTN](#)



NASA officials are working to hone satellite technology to better help farmers make cropping decisions, including a crop model that could allow producers to consider several scenarios that could determine yield. (Screen capture from NASA presentation)

LINCOLN, Neb. (DTN) -- When you think of NASA, your mental images likely are of lunar landings, space shuttle launches and rovers on Mars. A little-known fact, however, is that NASA plays a significant role in studying Earth through satellite technology and helping develop technology to give farmers better tools.

Speaking during the Heuermann lecture, "Space for Ag: NASA Satellites and Science to Support Food and Water Security" at the University of Nebraska-Lincoln on Monday, Karen St. Germain, director of NASA's earth sciences division, said NASA currently has about 25 satellite and/or space missions taking pictures of Earth and measuring precipitation in the atmosphere and soil moisture.

NASA is in the process of developing about 10 more missions centered on various aspects of information collection on Earth, she said.

"So, one of the things we want to do is make sure that we're building the most impactful systems for the future so



Robots and artificial intelligence bring Nebraska \$25 million

Build Back Better initiative funds Heartland Robotics Cluster



Nebraska MEP to start up new automation demonstration and training facility

by [Jon Wilson](#)



Lincoln, Neb. — To further bolster the state’s manufacturing companies, the Nebraska Manufacturing Extension Partnership is creating a robotics demonstration facility and training curriculum for manufacturers across the state.

Matt Allmand



All Hands Meeting, Oct. 4, 2022

Ricketts signs state budget into law, UNL receives \$25 million for ag facility

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Congress appropriates \$20 million for National ARS Center, planning begins

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Regents approve \$7.5 million for IANR Feedlot Innovation Center Groundbreaking Set for November 4th

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USDA awards \$960K for UNL-led ag data cooperative

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Agricultural Research Service
U.S. DEPARTMENT OF AGRICULTURE

- **USDA scientists have conducted cooperative plant and soil science research with the University of Nebraska-Lincoln (UNL) for more than 120 years.**
- **ARS-Lincoln is co-located on UNL East Campus**
- **Two Research Units in Lincoln, ~65 employees:**
 - **Wheat, Sorghum and Forage Research Unit**
 - **Agroecosystems Management Research Unit**

Agroecosystem Management Research Unit

- Virginia Jin, Research Leader & Location Coordinator
- 3 Research Projects with 9 scientists (1 Vacancy)

Entomology – Jerry Zhu, Vacancy

Manure – Dan Miller, Lisa Durso, John Gilley

Soils – Marty Schmer, Virginia Jin, Girma Birru, Ariel Freidenreich



Wheat, Sorghum, & Forage Research Unit

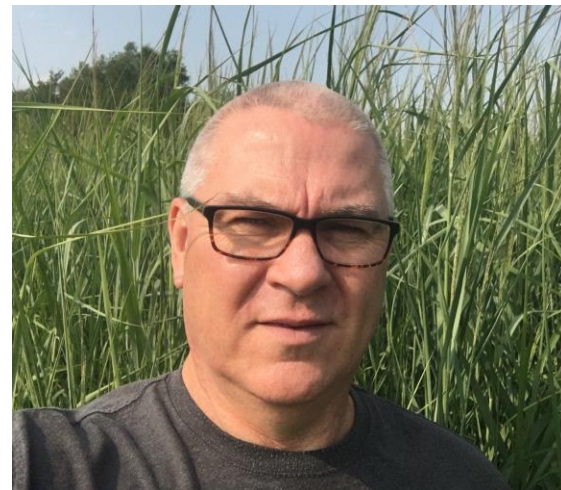
➤ Scott Sattler, Research Leader

➤ 3 Research Projects with 8 scientists

Wheat – Satyanarayana (TS) Tatineni, Jeff Boehm, Xiwen Cai

Sorghum – Scott Sattler, Deanna Funnell-Harris

Forage & Biomass – Rob Mitchell, Gautam Sarath, Serge Edme



Two Proposed New Research Units with 19 New Scientists (SYs)

- AMRU – 1 new scientist
 - Agronomist
- WSFRU – 3 new scientists
 - Forage Geneticist, Bioinformatics Biologist, Wheat & Barley Pests
- Water, Climate, & Resilience Research Unit – 5 new SYs
 - Hydrologist, Soil Ecologist, Micrometeorologist, Landscape Ecologist, & Research Social Scientist
- Precision Production Research Unit – 10 new SYs
 - Ag Engineer, Precision Animal Management, Plant Physiologist, Digital Rangeland Ecologist, Entomologist, Computational Biologists/Ag Engineer, Agronomist, Precision Irrigation Specialist, Soil Physicist, & Economist

Strategically Located to Optimize Agricultural Impact



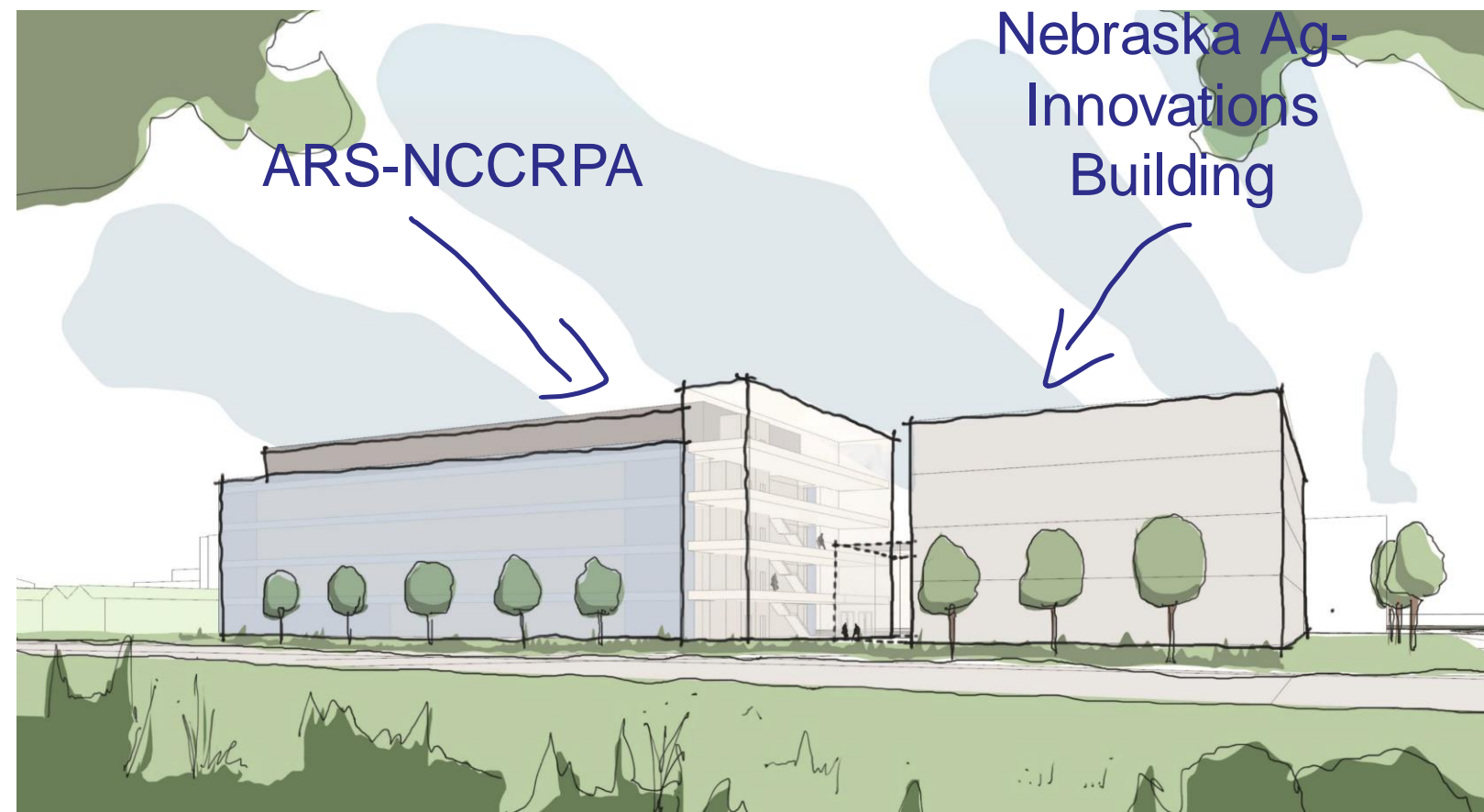
Proposed National Center for Resilient and Regenerative Precision Agriculture



- \$31.2 million appropriated to date
- Two facilities on Nebraska Innovation Campus
 - 120,000 square feet of Lab and Office Building – 4 story building
 - ~25,000 square feet of headhouse (10k) & greenhouse (15k)

Status of USDA-ARS NCCRPA

- Functional Statement: Completed
- Planning Phase: in process
- Designed to be certified as LEED Silver for sustainability
- Final design by September 2023
 - GH/HH—Planned construction in 2024



LB 384 Projects (first round of projects through 2025)

Greater Nebraska

- Great Plains Veterinary Education Center (GPVEC) in Clay Center
- Elliot Building at Panhandle Research and Extension Center (PHREC) in Scottsbluff
- West Central Research and Extension Center (WCREC) in North Platte

East Campus

- Ag Hall
- Human Sciences Building
- Chase Hall
- Food Industries Complex
- Vet Med and Biomedical Sciences Hall

*These projects include roof replacement, HVAC upgrades, fire sprinkler system upgrades and more. Total investment of more than **\$13.2 million** in Greater Nebraska and **\$9.7 million** on East Campus.*





Pedestrian Plaza



Pedestrian Mall



Demonstration Gardens



Open Space



Fire Access Corridor



Hammock Forest



Nebraska Flora and Fauna Campus Corridor



Seating Nodes



Permeable Paving for Dairy Store Parking



Terrace Steps

IANR deans' updates



All Hands Meeting, Oct. 4, 2022

All Hands Meeting, Oct. 4, 2022



College of Agricultural Sciences and Natural Resources

Strategic Priorities

Aligned with IANR's Strategic Plan, N2025, and NU 5-Year Strategy

- The Power of Every Person: <https://casnr.unl.edu/diversity-inclusion>
- Student Success:
 - Student Success Framework: <https://casnr.unl.edu/student-success-strategic-framework>
 - Focus on increasing degree completion and closing the equity gap
 - College-wide engagement and prioritizing retention and graduation outcomes
- Holistic Student Development:
 - Transformative Educational Experience
 - Health and Wellbeing
 - Inclusive Excellence
 - Mentoring and Coaching

Attributes of a CASNR Graduate

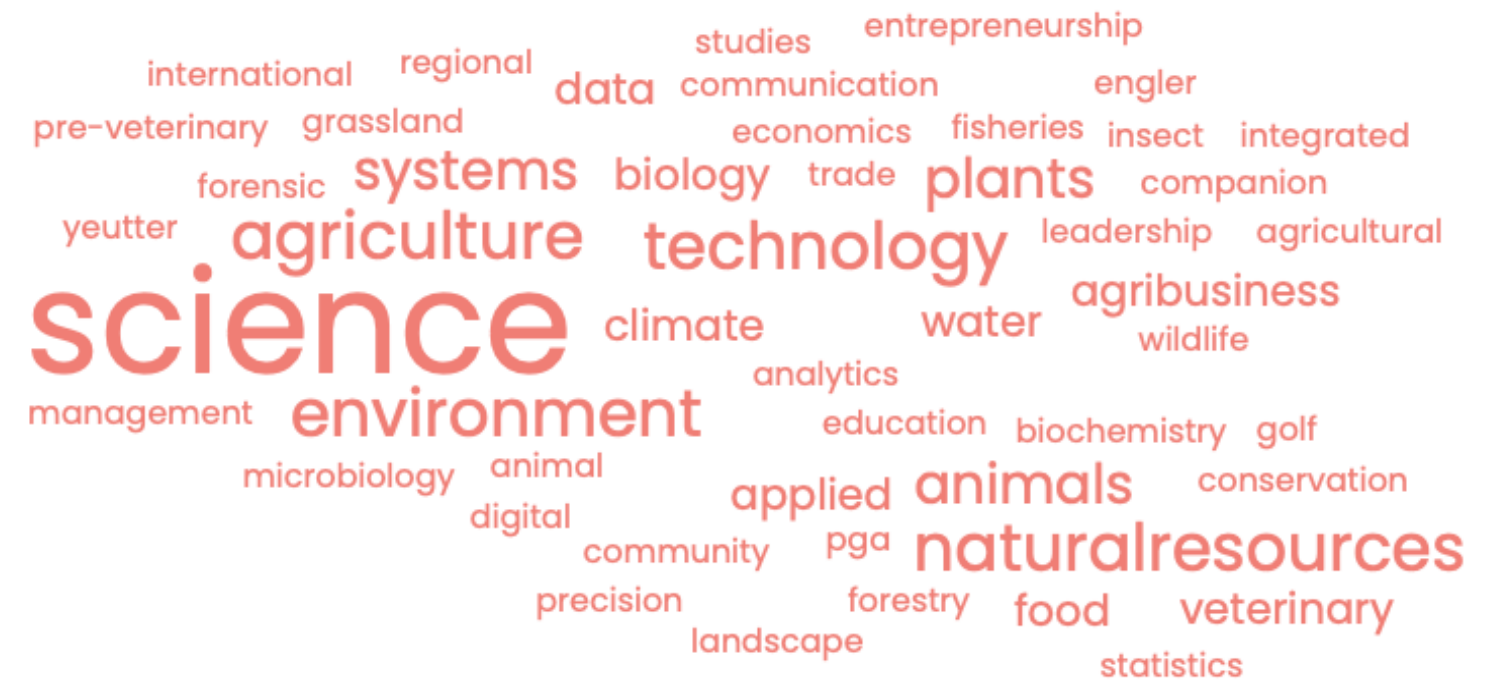


			
Evidence-based decision making for a complex world using a systems-thinking approach	A spirit of entrepreneurship, leadership, civic engagement, and service to positively impact communities.	A global mindset and appreciation of diversity across cultures, ethnicities, religions, gender, sexual orientation, and age.	A collaborative, inclusive approach to problem solving and innovation.

Strategic Priorities

- Continue to advance our framework for graduate education: <https://casnr.unl.edu/framework-graduate-education>
- Smart, sustainable pathways to grow enrollments - - be the destination for diverse educational pathways at the nexus of food, energy, water, and societal systems (FEWS²)
- Focus on the continuum of learners
- Teaching and learning innovation
- Amplify our impact through partnerships

EDUCATION PATHWAY

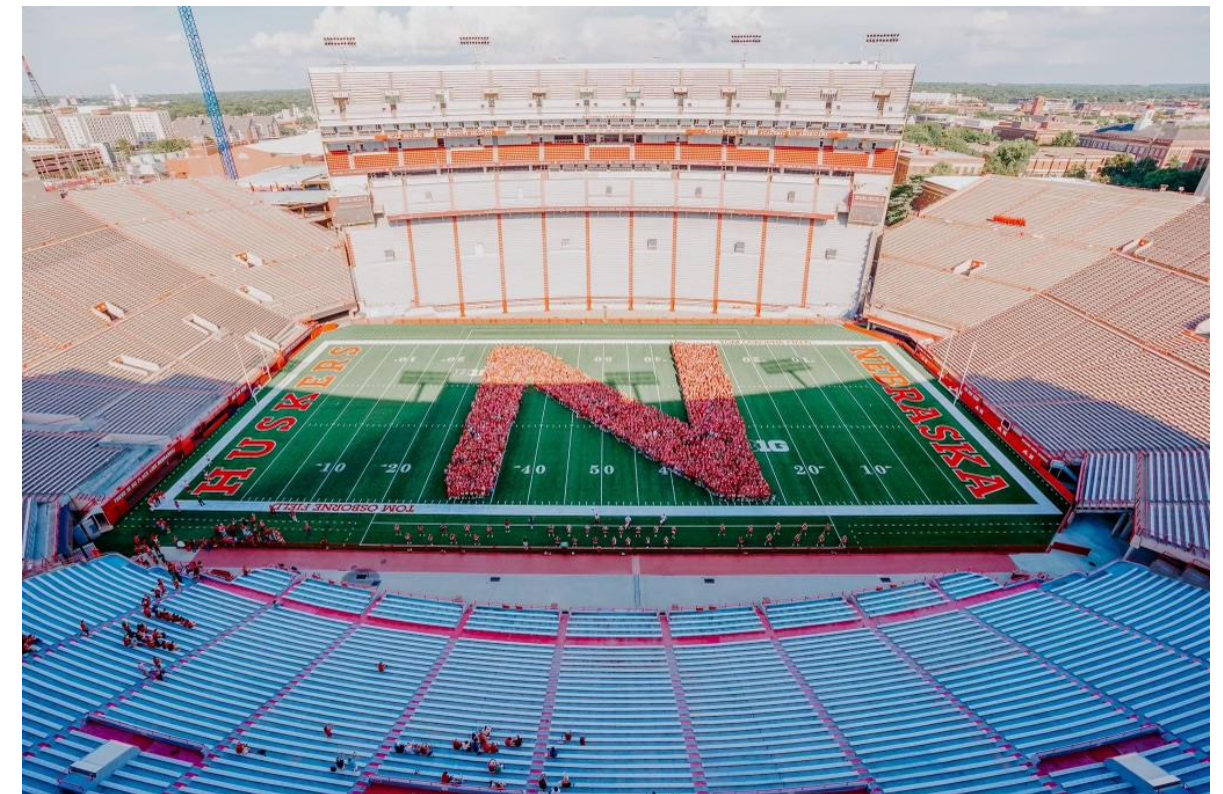


#ThisIsCASNR

Fall 2022 Enrollment

- Over 3,300 undergraduate, graduate and professional students
- Total undergraduate enrollment up from Fall 2021; graduate and professional enrollment level
- Increase in new students:
 - 635 new students; increase of 7.1%
 - Second largest enrollment of new students; FTF up 8.0%
 - 25% increase in new out-of-state students
- First-year retention: 85.2%; up 6.7 percentage points
- Matriculation success:
 - Second largest number of May graduates in the history of the College
 - 4-year graduation rate: increase of 20% over the last 5 years
 - 6-year graduation rate: highest 6-year graduation rate for UNL

Welcome Class of 2026



#ThisIsCASNR



Exciting Initiatives and Partnerships - East Campus Visitor's Center



N
IANR SCIENCE COMMUNICATION HUB

WHETHER YOU ARE JUST GETTING STARTED ON YOUR WRITING JOURNEY OR YOU'VE ALREADY TRAVELED FAR, THE HUB CAN SUPPORT YOUR ACADEMIC AND RESEARCH ENDEAVORS.

Visit go.unl.edu/SciCommHub to make an appointment or to find out more about the hub.



EXPLORE GLOBAL LEARNING OPPORTUNITIES



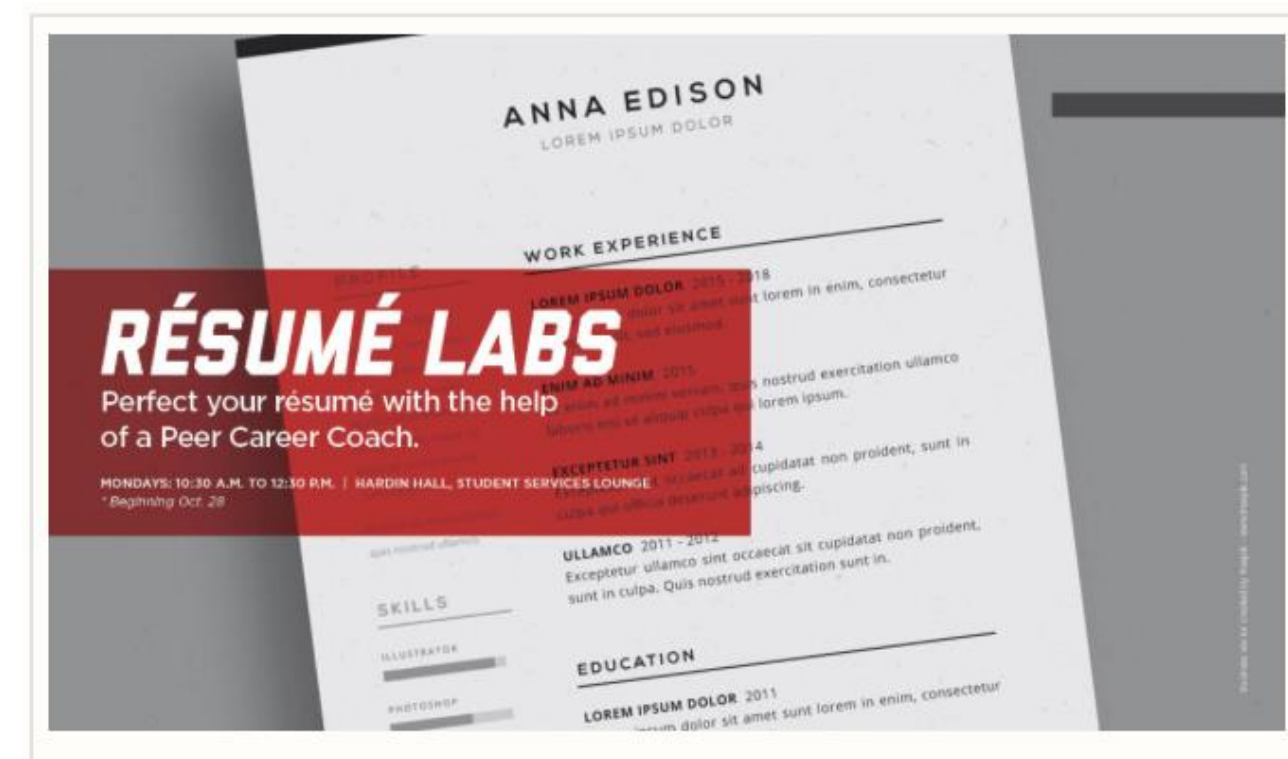
 **CASNR CARES.**
(Caring Attitudes and Respect for Every Student)



Stone Family Innovation and Collaboration Hub



HANDS ON EXPERIENCE



ANNA EDISON
LOREM IPSUM DOLOR

WORK EXPERIENCE

RÉSUMÉ LABS
Perfect your résumé with the help of a Peer Career Coach.

MONDAYS: 10:30 A.M. TO 12:30 P.M. | HARDIN HALL, STUDENT SERVICES LOUNGE
*Beginning Oct. 28

SKILLS

EDUCATION

LOREM IPSUM DOLOR 2011

All Hands Meeting, Oct. 4, 2022

Upcoming CASNR events

Salute to graduates

Fri., Dec. 16

Graduate Winter Fellowship Awards Luncheon

Wed., Dec. 7

Winter Interim Workshop

TBD



Thank You!



CASNR IS A COMMUNITY
WHERE everyone CHALLENGES
THEMSELVES, is inclusive,
ASKS BOLD QUESTIONS,
GO-CREATES AND IS OPTIMISTIC
ABOUT THE FUTURE. THROUGH OUR
COLLECTIVE WORK, WE POSITIVELY
TRANSFORM THE LIVES OF OUR
LEARNERS, NECHOWSKALUS
AND OUR GLOBAL SOCIETY.

Brianna Gable



All Hands Meeting, Oct. 4, 2022

All Hands Meeting, Oct. 4, 2022



Nebraska Extension



Strategic Direction

N EXTENSION

Focused on Nebraska's
Sustained Success

From the University of Nebraska-Lincoln

What Nebraskans are talking about:

Developing a skilled workforce



Enhancing health & wellbeing



Creating statewide economic vitality



Retaining & attracting young people

Leveraging our strengths for sustained success



Strategic Direction

- Drives and guides our work for the next 5 years
- Relevant and matched to the interests of our stakeholders, our state leaders and a promising future for all Nebraskans
- Aligns with our strengths and proven areas of expertise
- Allows for flexibility without straying from our strategic fundamentals



The Big 3



STRENGTHEN
NEBRASKA
AGRICULTURE
& FOOD SYSTEMS



INSPIRE NEBRASKANS &
THEIR COMMUNITIES



ENHANCE THE
HEALTH & WELLBEING
OF ALL NEBRASKANS



By connecting with Nebraska Extension, Nebraska amplifies its strengths in agriculture, food production and natural resources stewardship in ways that are environmentally and economically sustainable—ensuring that all Nebraskans have access to safe and healthy food, abundant water, and the benefits of Nebraska’s outdoor spaces.

Strengthen Nebraska Agriculture & Food Systems





Inspire Nebraskans & Their Communities

By connecting with Nebraska Extension, Nebraska has a robust, diverse population of well-prepared, innovative and productive people—beginning with Nebraska youth—living in thriving, vibrant communities that are contributing to the sustained success and growth of the entire state.

A photograph of a family of four in a modern kitchen. A woman in a red top is on the left, smiling. A man in a light blue shirt is in the center, leaning on the counter and talking. A young girl in a green shirt is sitting on a stool on the right, and a young boy in a dark blue shirt is sitting on a stool further right, also smiling. The kitchen has white cabinets, a stainless steel oven, and a dark countertop with a stove. There are pots on the stove and a plate of food on the counter.

Enhance the Health & Wellbeing of All Nebraskans

By connecting with Nebraska Extension, Nebraskans are healthier in every respect—physically, mentally and economically—leading to an even better quality of life, greater prosperity and a promising future for all.

ALIGNMENT WITH...



- University of Nebraska Strategic Priorities



- UNL Aims – N|2025



- IANR Initiatives



- Extension is the **LOCAL CONNECTION** with the University across the state
- Bringing **RELEVANT RESEARCH & RESOURCES** directly to Nebraskans
- **ENGAGING WITH NEBRASKANS** to create an even more prosperous future for all

This is an exciting, transformative time for Nebraska. Nebraska Extension stands ready to provide its unique, statewide presence and expertise to help our state create the prosperous future we all envision.

We look forward to our journey together!



EXTENSION

From the University of Nebraska-Lincoln

All Hands Meeting, Oct. 4, 2022



Fall Conference

Nov. 15-17, 2022

More information: myextension.unl.edu/fall-conference





Agricultural Research Division

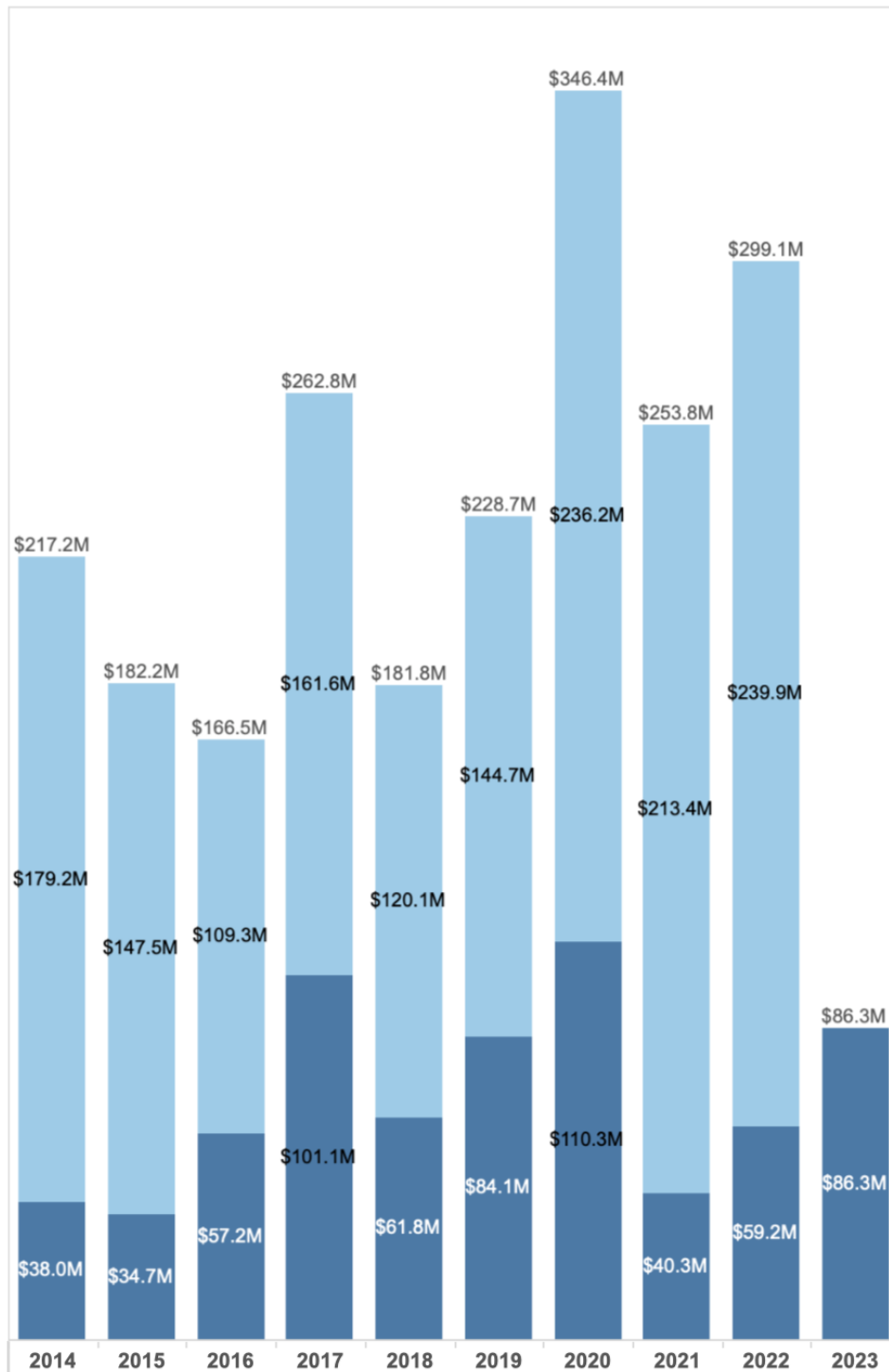
Records Continue to Fall!

FY22 Externally Sponsored Research Awards

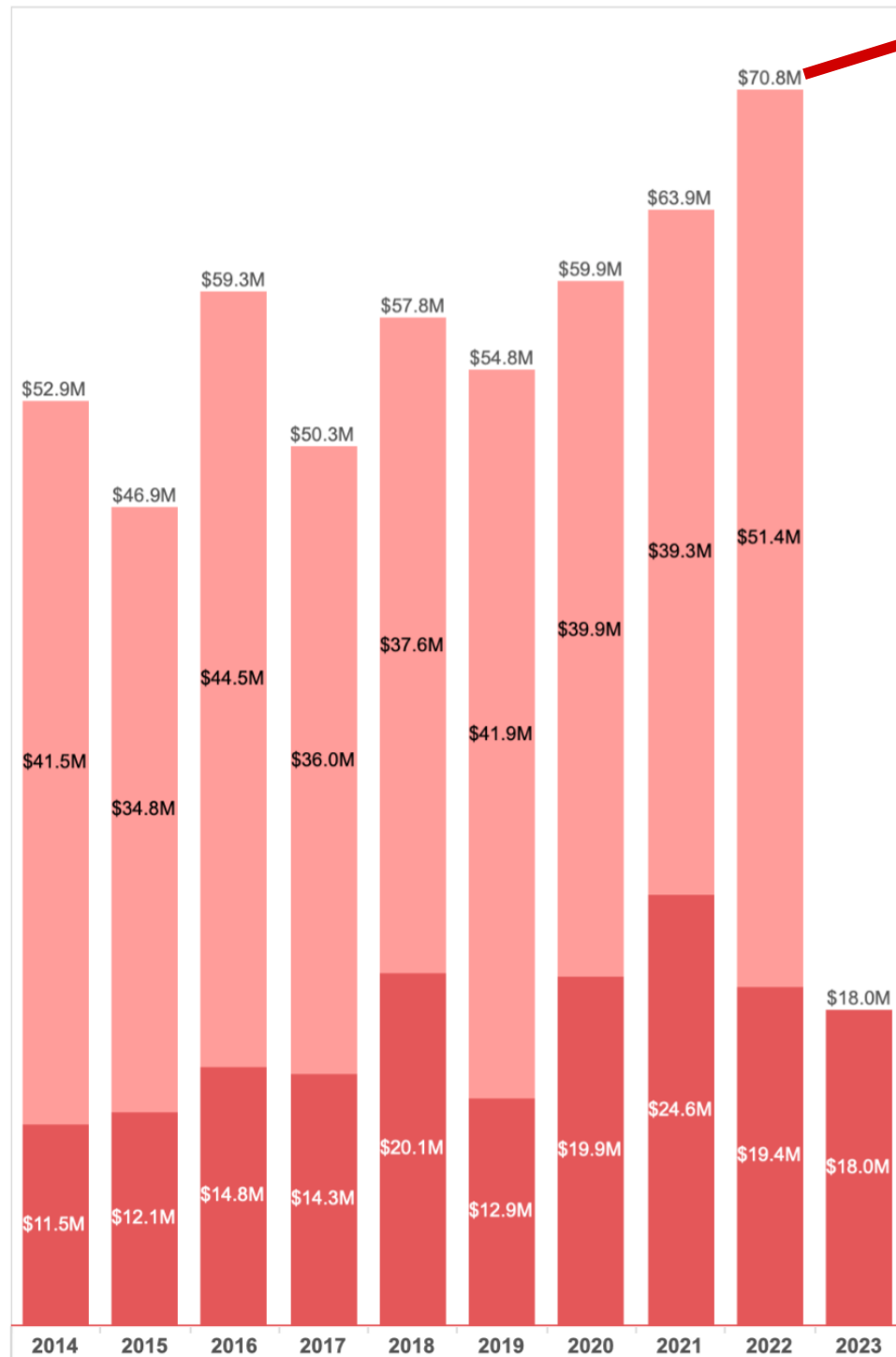


CASNR 150 IANR 50

Research Proposals

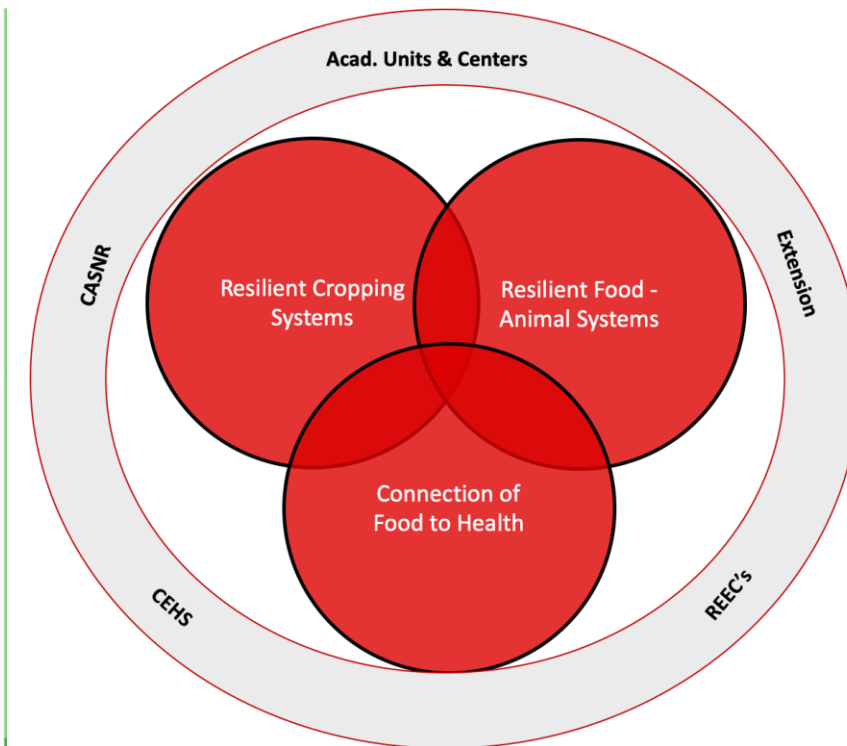


Research Awards



\$70.8M

ARD Mission Statement -
 'Supporting the Science to Ensure Resilient Food Systems and a Healthy Global Future'



Some VERY Recent Examples of...

External Awards -



Husker research hones in on sorghum's genetic makeup to improve nitrogen efficiency



Husker-led team exploiting oilseeds' potential in biofuels, bioproducts



\$25M federal award to expand robotics development, entrepreneurship, outreach

Institutional Awards for Leverage -



With Catalyst award, Helikar sets five-year goal for draft of digital immune system

Round 2 Coming Up....

 Anti-racism and racial equity	 Climate resilience	 Early childhood education and development	 Health equity
 Quantum science and engineering	 Science and technology literacy for society	 Sustainable food and water security	IANR



CASNR IANR
150 50

All Hands Meeting, Oct. 4, 2022

ARD Annual Meeting

East Campus Union Great Plains Room

Friday, Oct. 21, 2022

8:30 a.m.-3 p.m.

More information: ARD.unl.edu



Ed Cahoon

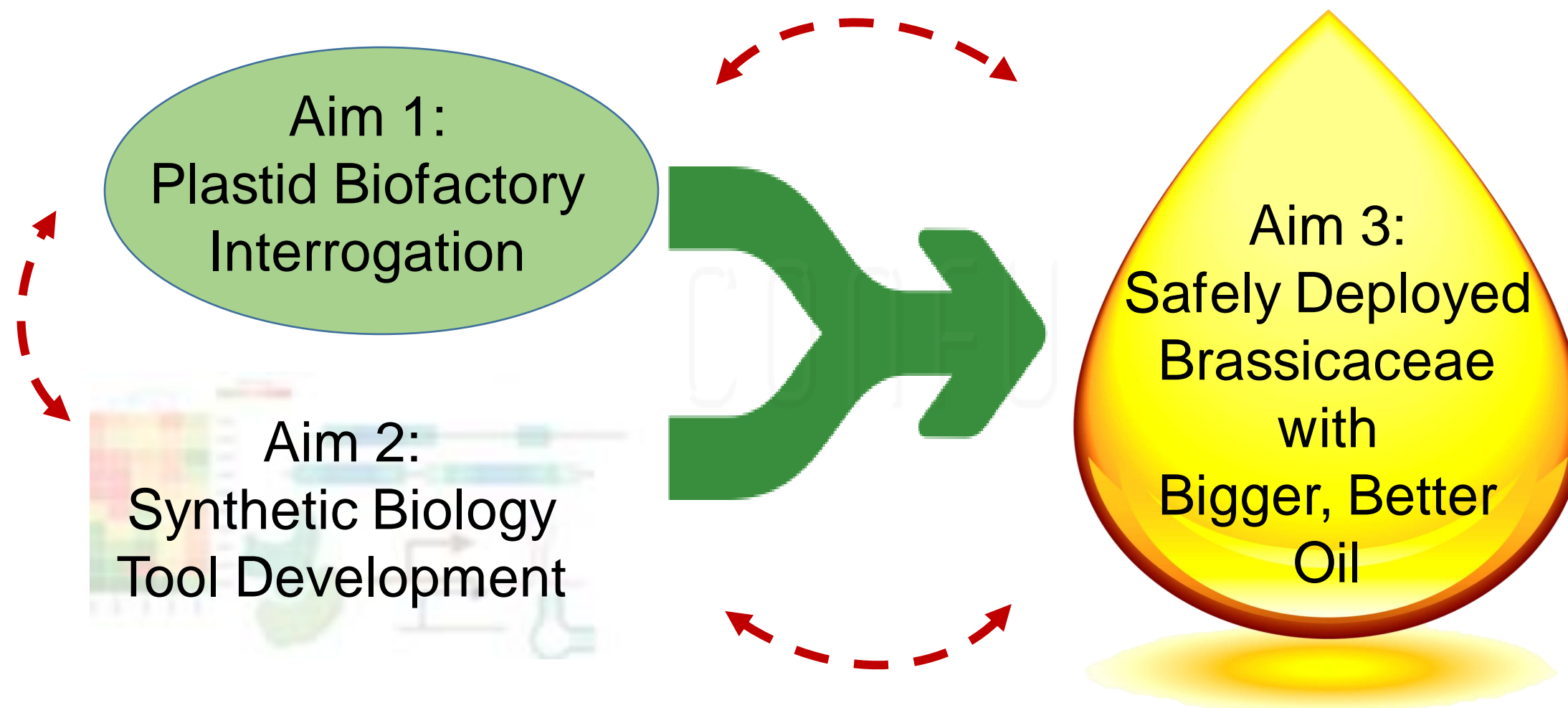


All Hands Meeting, Oct. 4, 2022

B5: Bigger, Better Brassicaceae Biofuels and Bioproducts

Team

UNL Ed Cahoon	Washington St Phil Bates
KSU Tim Durrett Ruth Welti	Montana St Chaofu Lu
Mizzou Jay Thelen Joshi Trupti Dong Xu	U. Minnesota Mike Smanski Danforth Center Doug Allen
U. Colorado Jerome Fox	Malia Gehan



B5 will address the imperative need for sustainable liquid fuels and oils of defined structures desired by the US bioenergy and oleochemical sectors. The project will integrate fundamental knowledge generation and synthetic biology tool development to predictably and more rapidly develop non-food Brassicaceae oilseeds that produce high quantities of oils and oils with tailored fatty acid compositions.



2022 Nebraska Camelina

All Hands Meeting, Oct. 4, 2022



College of Education and Human Sciences



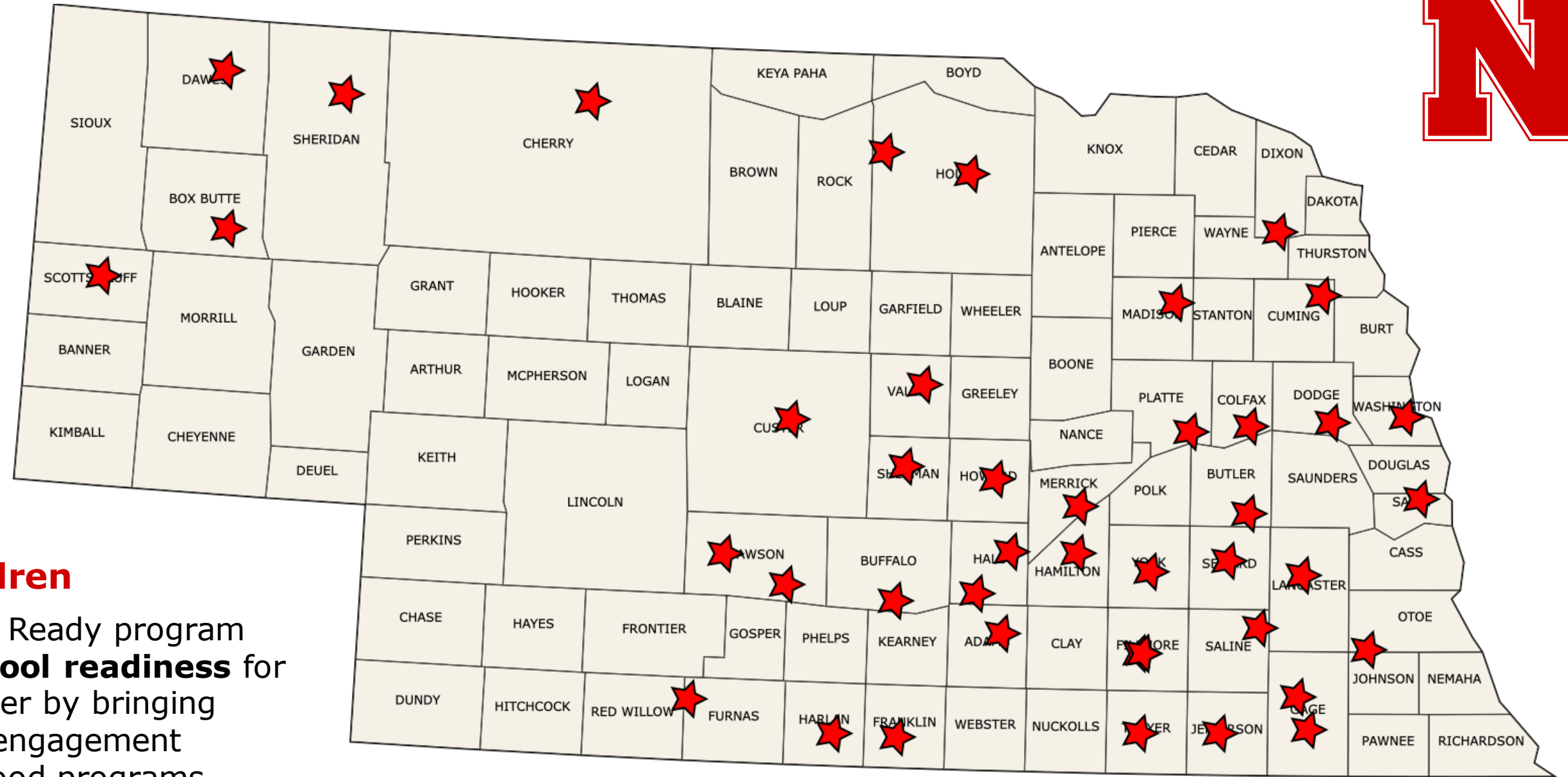
Barkley Memorial Center



Carolyn Pope Edwards Hall

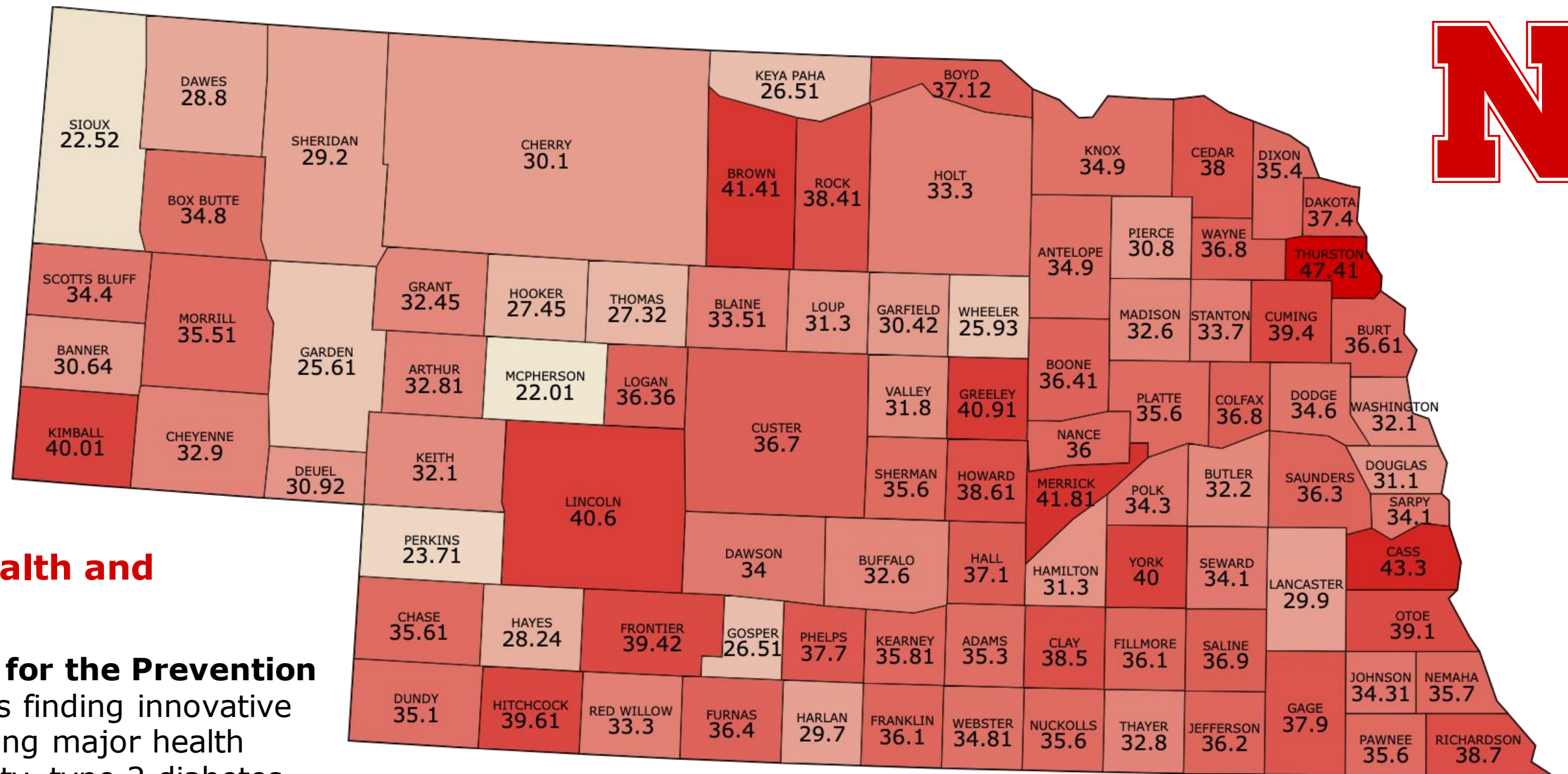


Gwendolyn A. Newkirk Human Sciences Building



Thriving Young Children

For 15 years, the Getting Ready program has helped **enhance school readiness** for children age 5 and younger by bringing evidenced-based parent engagement strategies to early childhood programs throughout Nebraska and across the U.S.



Comprehensive Health and Well-Being

The **Nebraska Center for the Prevention of Obesity Diseases** is finding innovative approaches to combatting major health threats, including obesity, type 2 diabetes, cardiovascular disease, and non-alcoholic fatty liver disease.



Source: [CDC Diabetes County Data Indicators, 2006-2017.](#)



*Updates, thoughts,
and reflections*



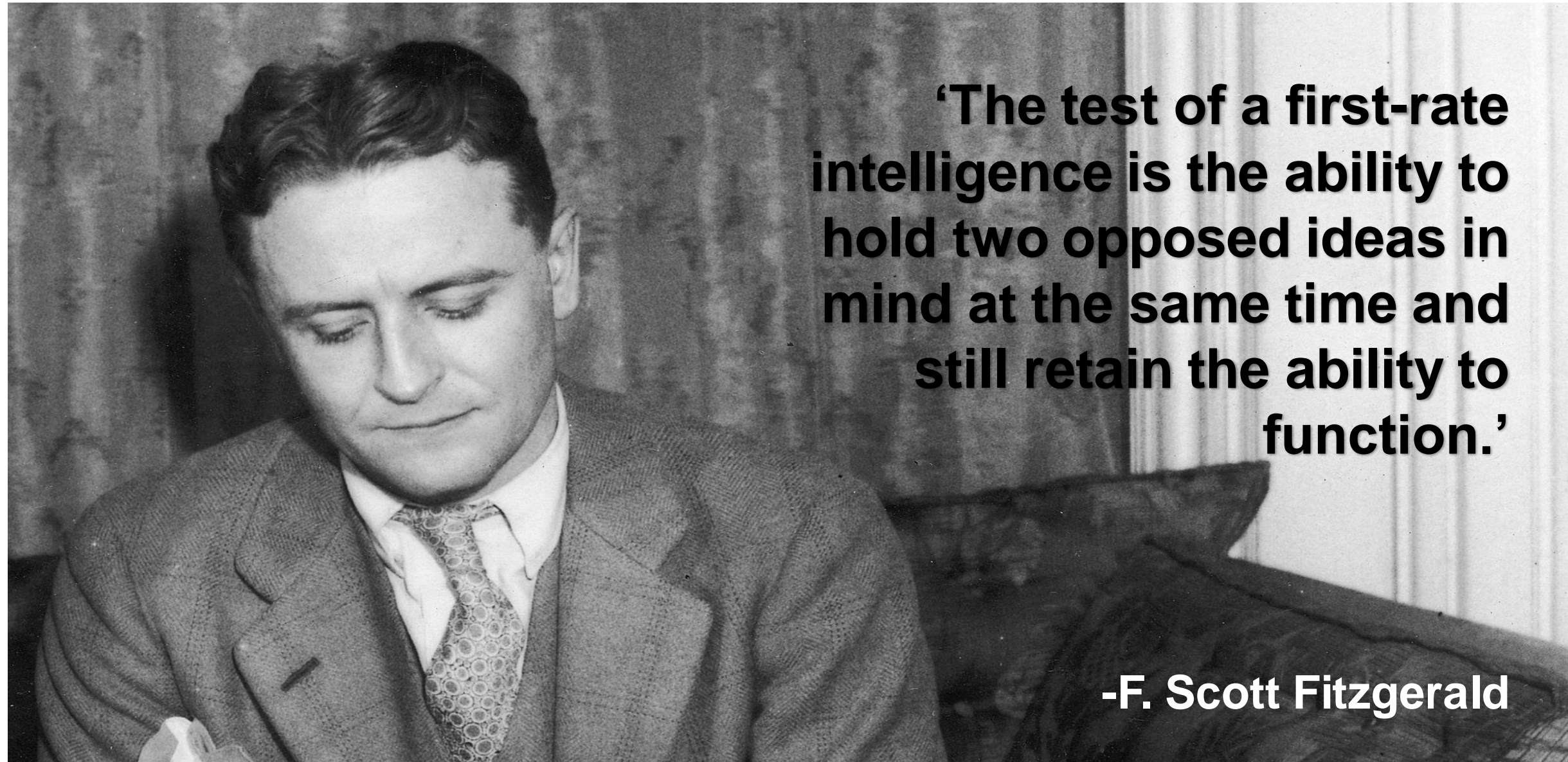
UNLOCKING THE WORLD

CDC suspends country-specific Covid-19 travel advisories

Marnie Hunter and Forrest Brown, CNN • Published 3rd October 2022







‘The test of a first-rate intelligence is the ability to hold two opposed ideas in mind at the same time and still retain the ability to function.’

-F. Scott Fitzgerald

University of Nebraska-Lincoln
State-Aided Operating Budget - Calculated Budget Reductions
FY 2021 thru FY 2022, FY2023

VC	FY21 Target Reduction	FY22 Target Reduction ²	FY23 Target Reduction ²	3-Year Cumulative Reduction	<i>Estimated</i> 3-Year %
<i>UNL Annual Deficit</i>	<i>\$ 15,708,995</i>	<i>\$ 8,797,661</i>	<i>\$ 13,747,528</i>	<i>\$ 38,254,184</i>	
<i>Percent Annual Reduction Required</i>	<i>3.4%</i>	<i>1.9%</i>	<i>3.0%</i>	<i>8.2%</i>	
Chancellor Base Budget ¹ <i>University Fixed Costs</i>					
Chancellor Allocable Budget/Reduction	\$290,060	\$162,445	\$253,842	\$706,346	8.2%
EVC CAO ³	\$9,960,010	\$4,720,512	\$7,376,434	\$22,056,955	9.1%
VCIANR	\$ 3,563,463	\$2,555,431	\$3,993,204	\$10,112,097	7.7%
VCORED	\$ 137,327	\$98,480	\$153,889	\$389,696	7.7%
VCBF	\$ 1,733,010	\$1,242,776	\$1,942,005	\$4,917,791	7.7%
VCSA	\$ 25,125	\$18,018	\$28,155	\$71,297	7.7%
Total	\$15,708,995	\$8,797,661	\$13,747,528	\$38,254,184	8.2%

CALCULATED BUDGET REDUCTIONS



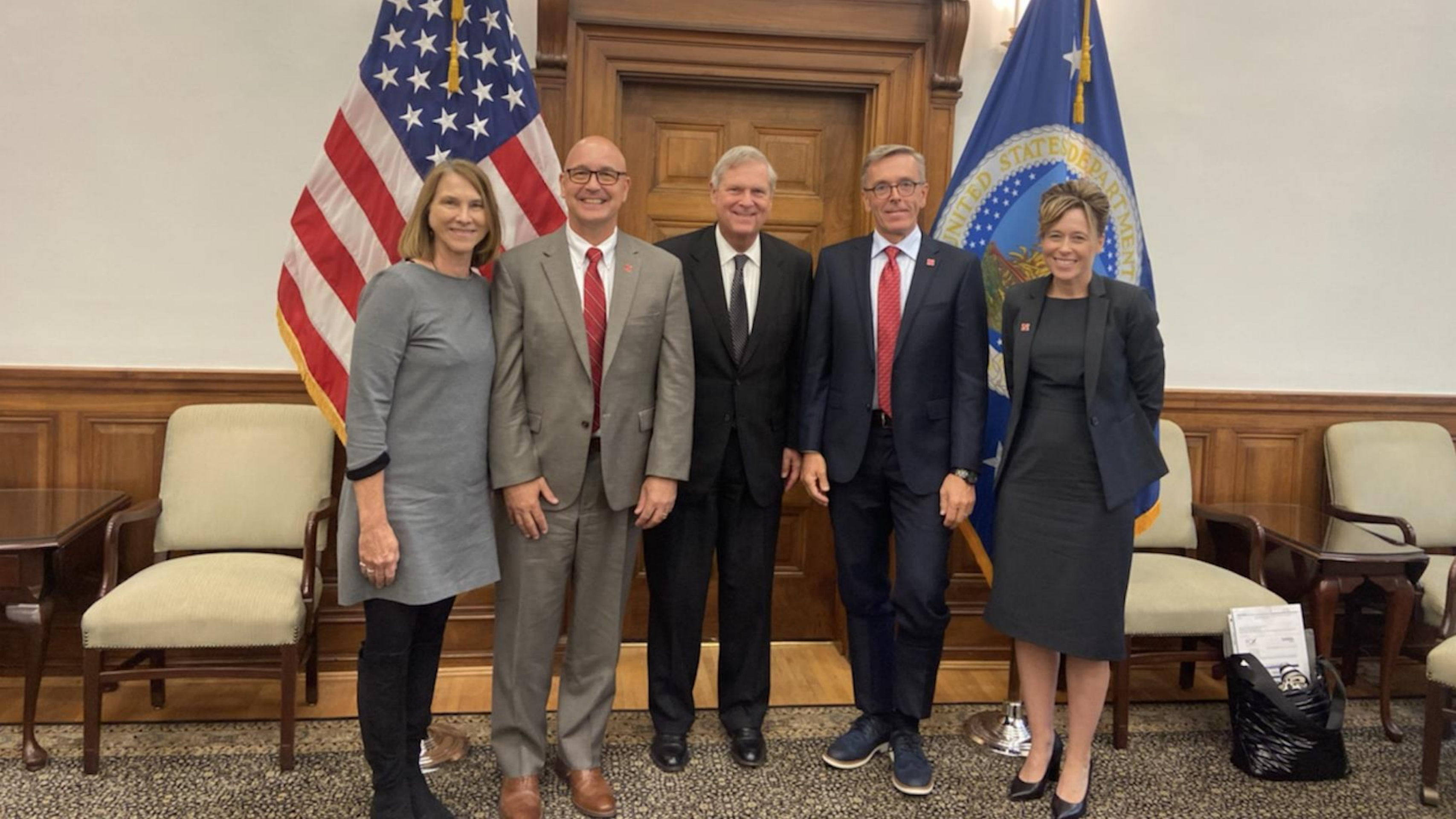
High-level Summary - Proposed Reduction Plan to Chancellor

IANR Reduction Target = \$10,112,097

FY21 (\$3,563,463) / **FY22** (\$2,555,430) / **FY23** (\$3,993,204)

- IANR VSIP positions - ~\$1.9M
- 10% Administrative Reduction – VC IANR, CASNR, ARD, Extension - ~\$1.9M
- T/TT Faculty Attrition - ~\$0.3M
- Vacant TBA staff positions [proposed by units](#) - ~\$1.1M
- Research support staff [proposed by units](#) – combination of eliminating open lines and transitioning others to non-state sources (FY22-FY25) - ~\$1.7M
- Program Reduction/Realignments - ~\$1.9M
- Reduce student remission liability by 10% - ~\$1.3M





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CELEBRATION OF

INNOVATION

CASNR

150

IANR

50

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IANR 2030

Our Shared Future Vision

Trends with the potential to transform the human experience and reshape markets, societies and the global order

Globalization

Demographic shifts

Technological advances

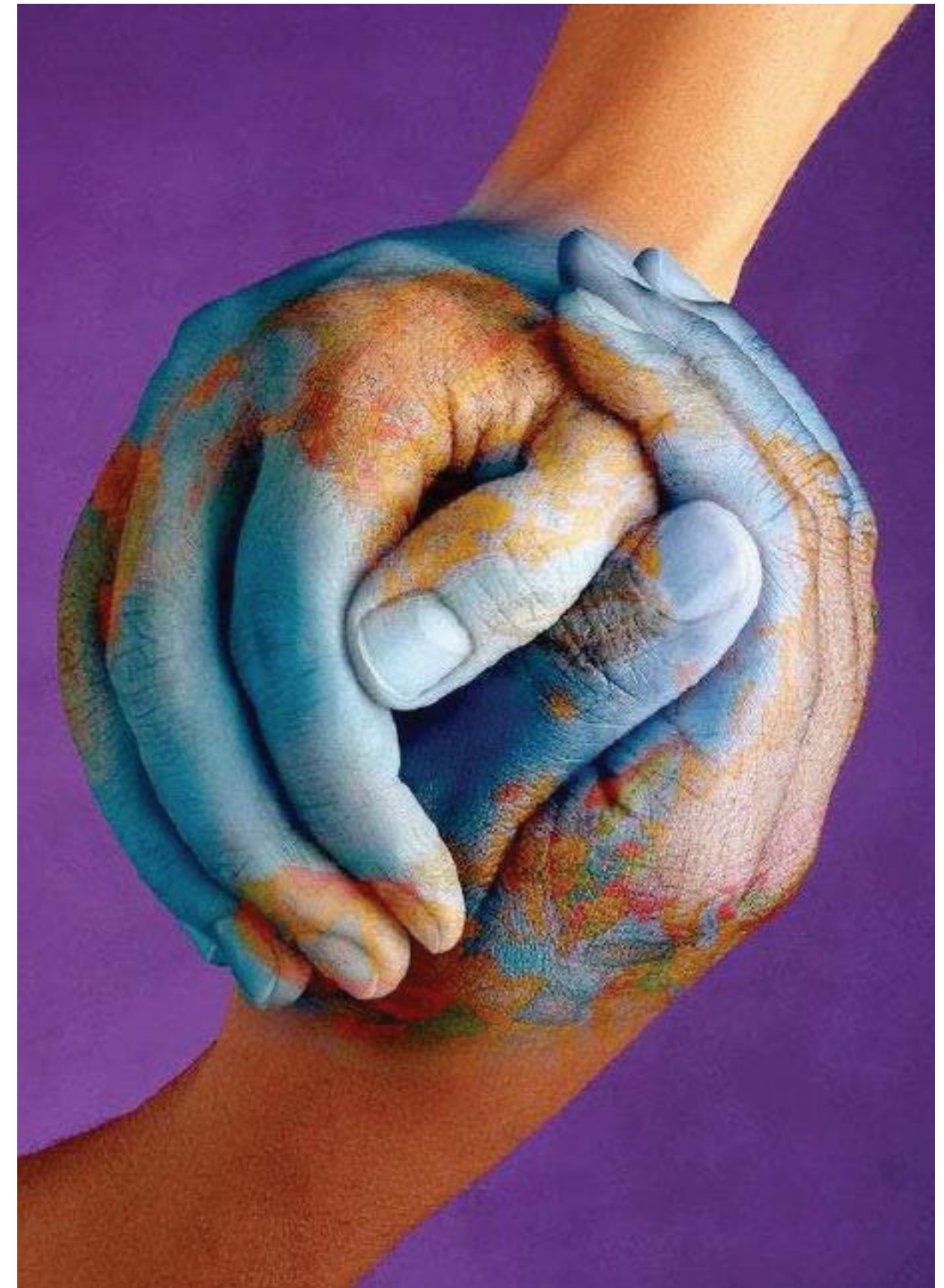
Individual empowerment

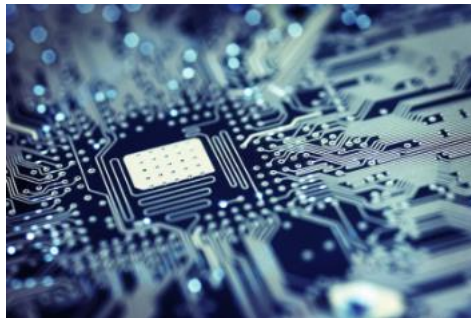
Accelerating urbanization

Shift in global economic power

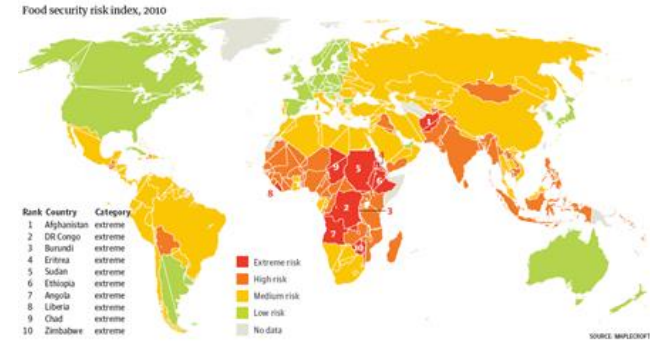
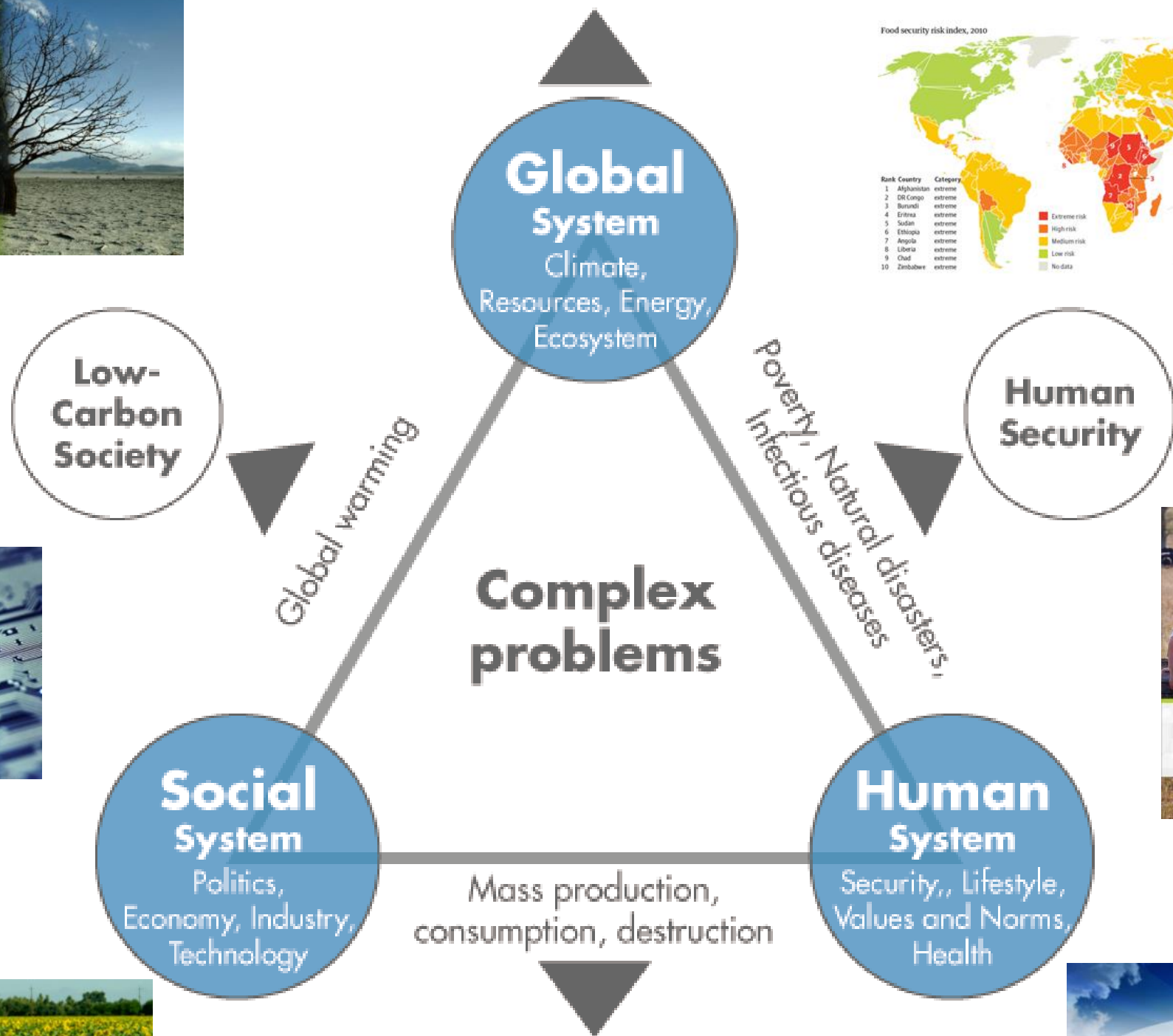
Climate change and resource scarcity

Growing demand for food, water, and energy

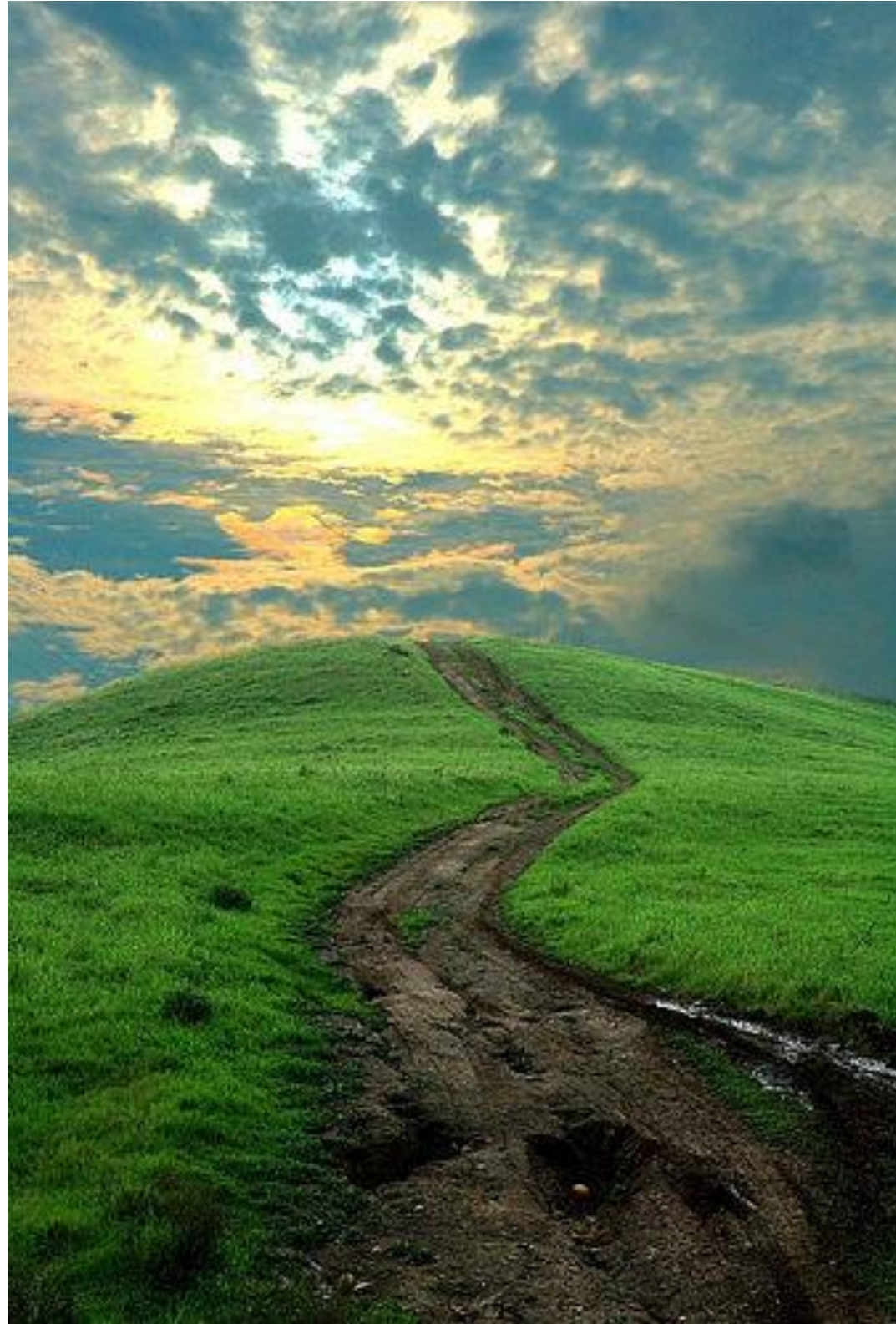




Global Sustainability



Sustainable Production and Consumption





“Culture eats strategy for breakfast.”

-Peter Drucker

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*“If I had asked
people what they
wanted, they would
have said faster
horses.”*

-Henry Ford







“...we cannot conduct business and program activities of the Association following the same procedures of those who came before us. The unmet needs of the members bring us discomfort. We feel the pressures of the challenges of the future, but we can view that future with optimism. We must find out what we have to do in order to become what we want to be...and then set attainable goals and priorities for action.”

Gwendolyn A. Newkirk, acceptance speech for the presidency of the American Home Economics Association, Sept. 1975



ALL IANR FACULTY AND STAFF ARE INVITED

WELCOME BACK

PICNIC

**HOSTED BY THE INSTITUTE OF AGRICULTURE
& NATURAL RESOURCES**