



# Department of Grain Science and Industry

*Our mission is to advance the global grain and plant-based food, animal food, and bioproduct industries through scholarship, research, and outreach*

# Goals and Priorities as the Interim DH



## K-State Economic Prosperity Plan

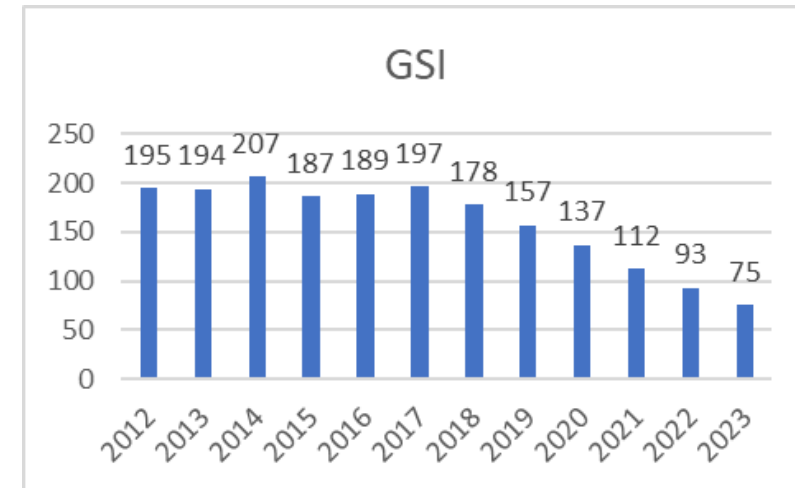
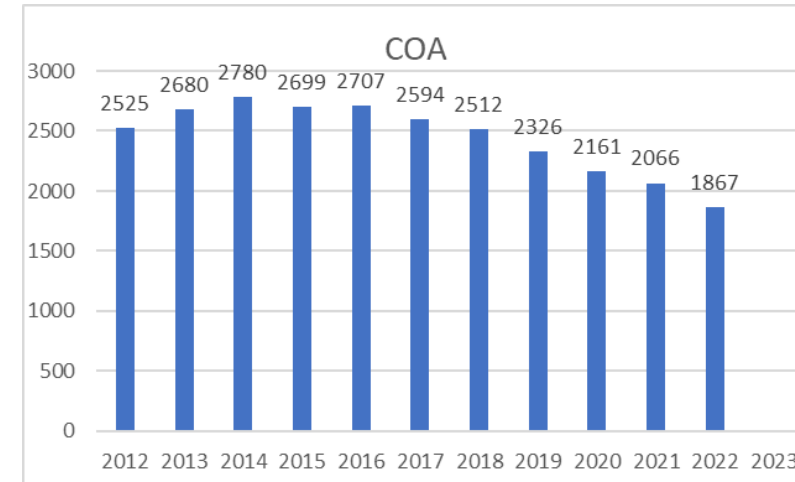
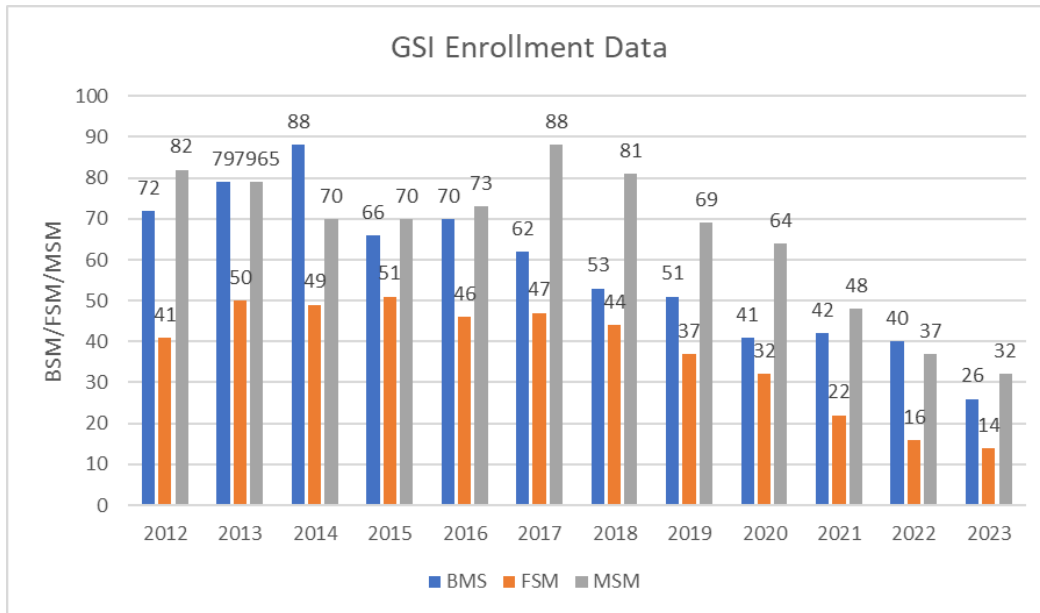


- Improve department climate and functions
- Strengthen relationships with internal and external stakeholders
- Recruit and retain high quality students from diverse backgrounds
- Fundraising and plans for construction of our new building, address current facility related issues
- Integrate basic and applied research across disciplines in alignment with department's strategic plans
- Identify need and secure resources for new faculty/staff hires
- Academic program updates - modernize and revitalize
- Explore opportunities for new programs

Certificate programs  
Professional master  
Online programs  
Micro-credentials

# Top Priority!

Reversing the declining enrollment:



# Tactics

- Be proactive not reactive
  - Recruitment committee – Eliminate dysfunctions
  - Work hard – Work smart!
- Work with a professional consultant
  - Market survey / Branding / Advertising / Building awareness
  - Social media campaigns using unique, memorable hashtags
- Hire a full-time recruiter
  - Use personalized, responsive, student-driven messaging
  - Increase engagement through on- and off-campus events
  - Focus on audience – one-on-one connections
- Student mentors / ambassadors representing GSI
  - Engage with prospective students and their families, industry and university stakeholders
  - Help the department visits, unit tours, GSI events, and industry events

#engage #guide #share

#whygrainsci

## Why Grain Science?

"I chose Feed Science as my major because I felt like they cared about me as a student from the first time I walked on campus. The teachers are very invested in agriculture but most of all, they are invested in their students. I feel they are doing a very good job of broadening my knowledge in the feed industry. The major has tested my willingness to learn as some of the classes are challenging, but the teachers have always been very helpful to make sure I make it through. Also, the 100% job placement after college helped make my decision easy."

Bryce Kramer, Feed Science

"Grain Science has a broad variety of opportunities. Whether you want to be a scientist, manager, system designing engineer, salesperson, business enthusiast, there will be a job for you. Milling Science is a field where I can acknowledge and work alongside those in agriculture. Our progressive purpose never dies; we impact so many people day-to-day. In addition to all this, the classes are fun! Sometimes you even get to work with grain at our campus mill. Yes, classes can be challenging at times, but most of our professors are laid back and talk with you on a personal level. When you leave with your degree, they'll be there celebrating with you, not waiting for the next person in line."

Andrew Schubert, Milling Science



"I chose Bakery Science because I wanted to have an impact on the foods we eat every day. I knew that I would be able to combine my interest in science and love for baking, while making an impact on food safety and our supply chain."

Claire McClellan, Bakery Science



Brandon Meek and the CoA ambassadors

# New Recruiter for GSI: Casey Doyle

- graduate of Emporia State University with a degree in marketing.
- College Access Advisor at Box Elder High School in Brigham City, Utah
- Admissions Rep at Newman University in Wichita





# Recruiting Activities

- Kansas FFA
- Kansas 4-H Discovery Days
- Nicodemus Educational Camp
- TRIO
- Halfway, MO FFA Group
- State FFA Conventions in Colorado, Illinois and Missouri

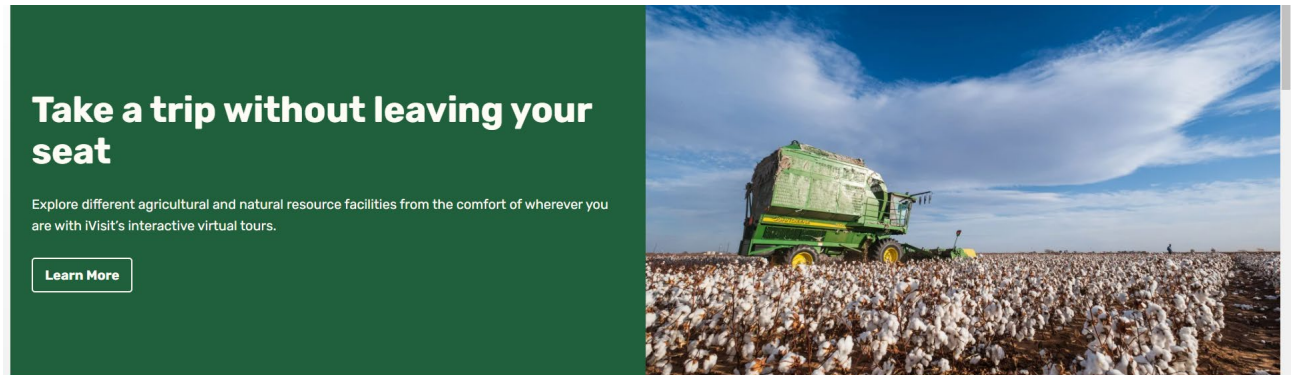


# The iVisit Project

- <https://theivisitproject.com/>

## Project Overview

The iVisit project is a collaborative effort between Texas Tech University, Kansas State University, and the University of Florida. We have worked together to develop a framework for effectively using interactive virtual tour (IVT) learning modules to increase food and agricultural sciences exposure, literacy, and workforce development.



# Online GRSC 150 Principles of Milling

## Not your father's POM!

Lectures	Homework
Cereal Grain Structure	
Wheat Classes & Their Utilization	Grain Sample Cards
Wheat Quality and Testing	bushels
review for Exam 1	exam 1 SG due/review worksheet
<b>Exam 1</b>	
Grain Blending	blending math due 9/10, moisture basis
Grain Cleaning	cleaning house flow graphic
	moisture addition 9/24
Conditioning & Tempering/Importance of Moisture	exam 2 SG due/review worksheet
Exam 2 review	
<b>Exam 2</b>	HRFM flow sheet graphic
Gradual Reduction	
Break Release & Extraction	Break Release & Extraction
Grinding	
Review for Exam 3	exam 3 SG due/review worksheet
<b>Exam 3</b>	
Sifting	sifter flow exercise
Purifiers and Dusters	





GRAIN SCIENCE  
AND INDUSTRY

# ***WAVES OF GRAIN*** 2023 SUMMIT

April 27, 2023



# K-State Agriculture Innovation Centers

For grain, food, animal and

For grain, food, animal and agronomy research

agronomy



# A big, bold vision

- Once-in-a-lifetime opportunity
- Largest-ever investment in K-State space
- Leverage work across disciplines to solve complex problems
- Essential to Kansas, impacts the nation and world





# 1/3 of space for interdisciplinary teams

- **Novel concept of facilities design**
- **Capitalizes on broader campus expertise**
- **Guides strategic resource management decisions**
- **Better addresses global challenges in agriculture**
- **Further builds K-State's reputation, network and footprint in global food systems**



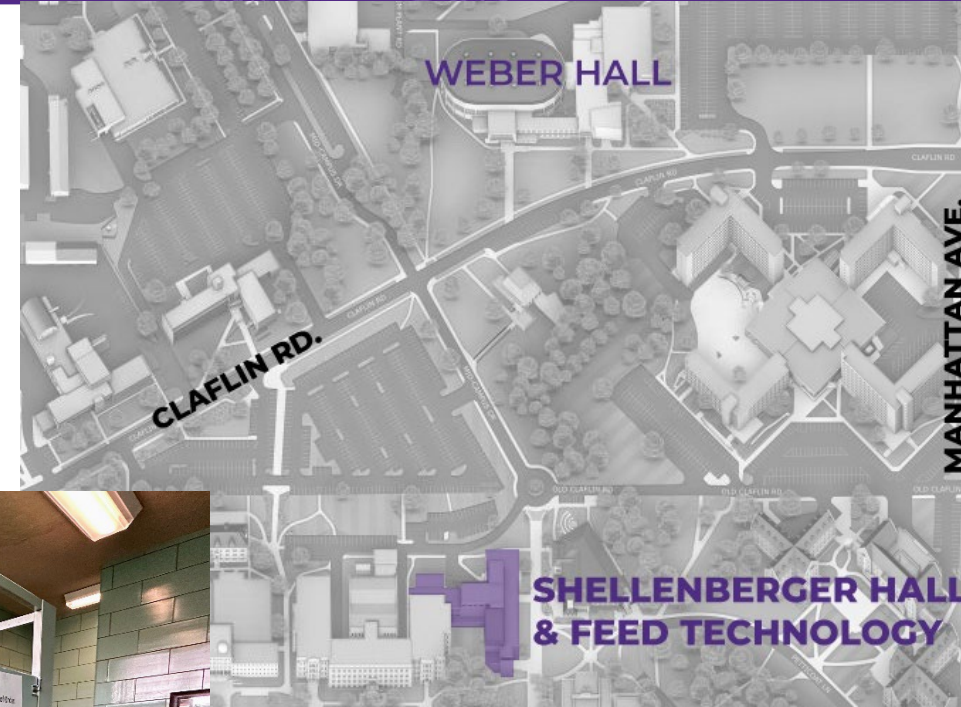


# Up to 10% of space for partnerships

- Co-locates **partners who enhance academics and research** on campus
- **Generates collaboration** between faculty and industry partners
- **Creates synergy** between public resources and private enterprises
- Leads to **innovative production and business solutions**
- Stimulates **economic development, job creation and industry resilience**

# What happens to Shellenberger?

## Facility Demolition



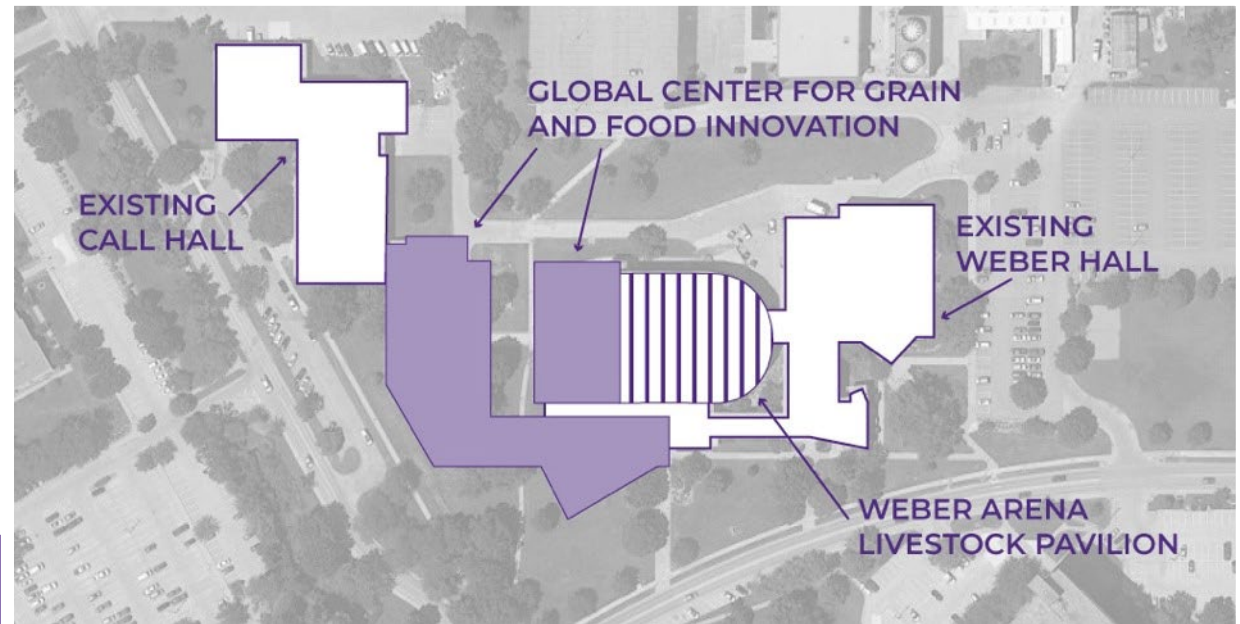


# Construction Timeline

Demolition

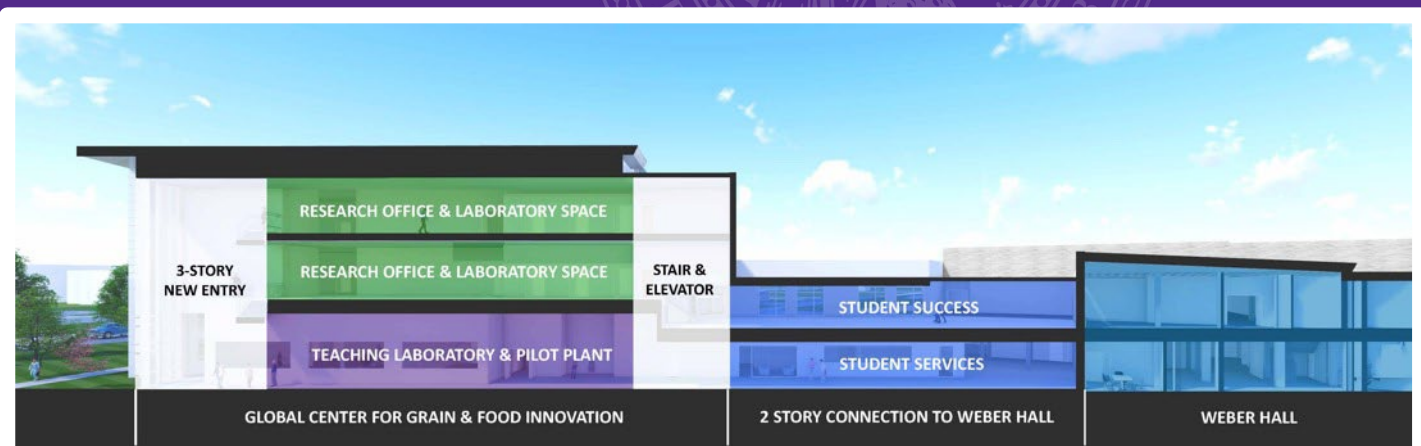
Renovation

New Construction



Call Hall

Global Center for  
Grain and Food Innovation



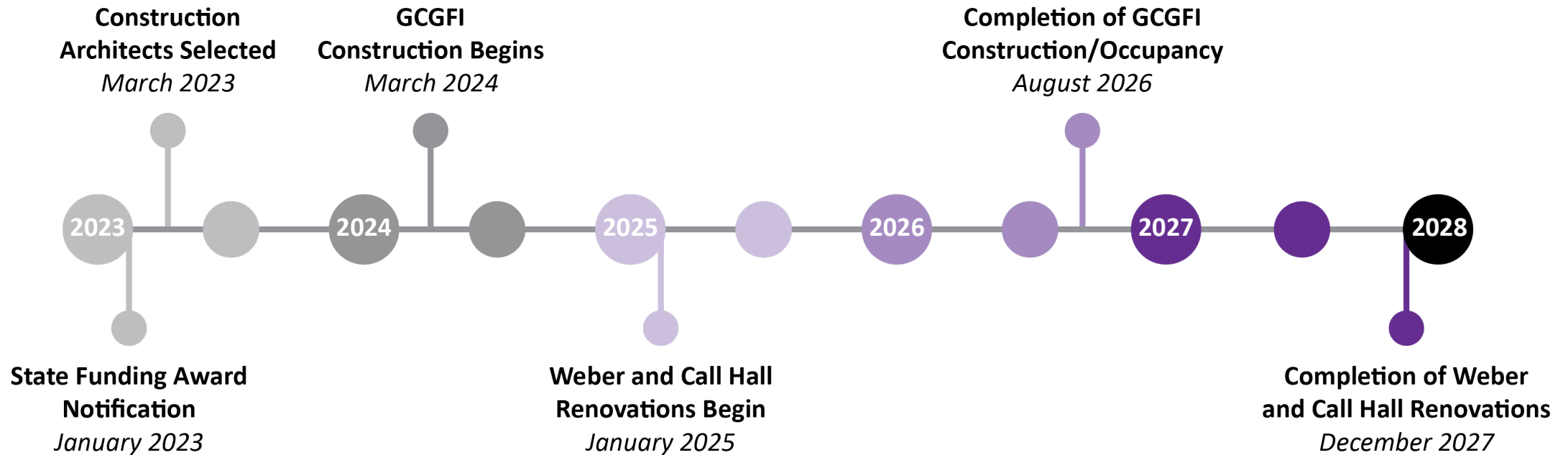
#### Department Legend

- BUILDING SUPPORT
- CLASSROOM
- GRAD OFFICE / COLLAB
- INTERDISCIPLINARY LAB
- INTERDISCIPLINARY LAB(CROSS-COLLEGE)
- RESEARCH LAB
- LAB SUPPORT
- LAB SUPPORT (TEACHING LABS)
- OFFICE
- OPEN OFFICE
- TEACHING LAB

Weber Hall



# Construction Timeline



# Agricultural and Commodity Partners

- Kansas Farm Bureau
- Kansas Livestock Association
- Kansas Pork Association
- Kansas Soybean Commission
- Kansas Corn
- Kansas Wheat Alliance
- Kansas Wheat
- Kansas Grain Sorghum



WHEAT  
ALLIANCE

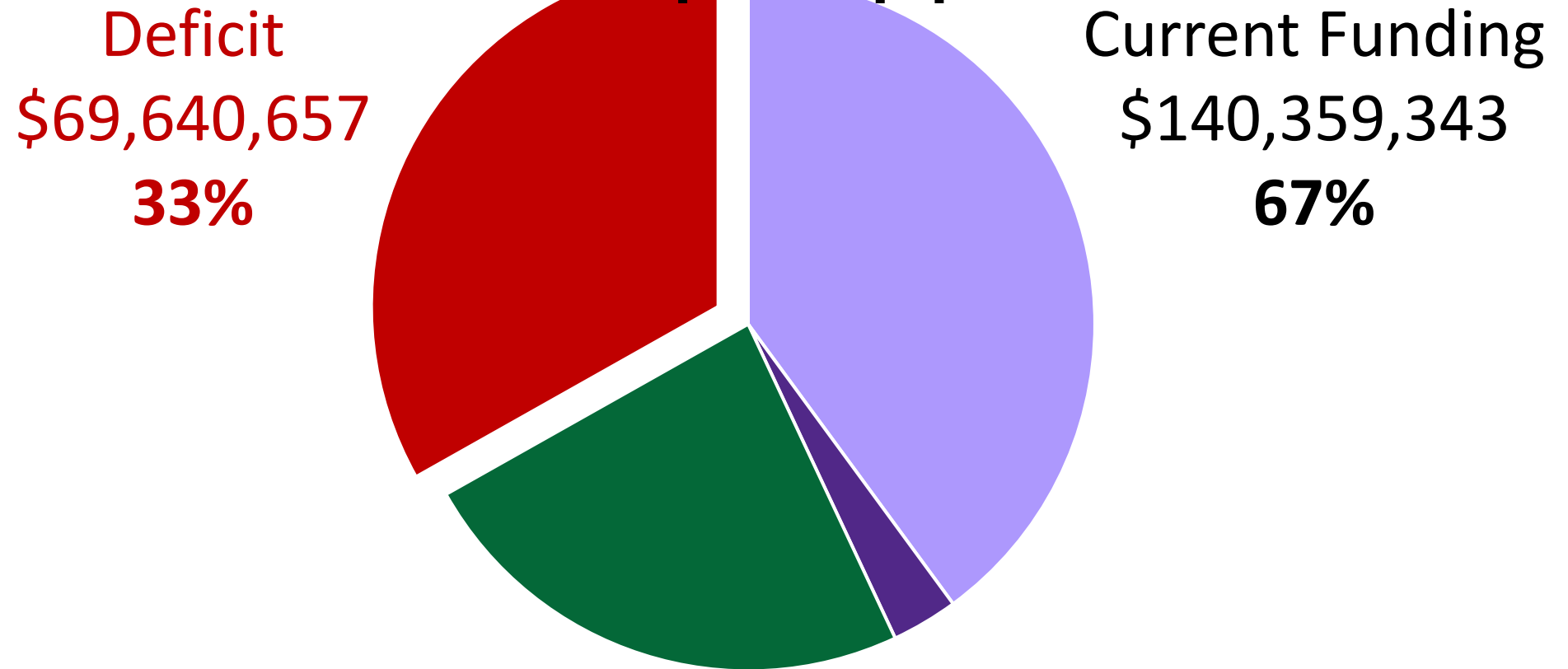


KANSAS  
WHEAT



# How?

## Continued Partnership Support



# New Alapala Roller Mills for Milling Laboratory









# Hal Ross Maintenance Shop & Classroom

**CONCEPT DESIGN**



**PRELIMINARY MASSING**



The background is a purple-tinted photograph of a large, detailed sculpture of a cat, likely the 'Big Cat' statue at Kansas State University. The sculpture is shown from the side, with its head turned slightly towards the viewer. The texture of the sculpture is clearly visible.

# *Go 'Cats*



**KANSAS STATE**  
**UNIVERSITY**