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Scaling Up

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Scaling up

University and city developing the North Campus Corridor for research, education, training

Kansas State University and Manhattan, Kansas, are quickly establishing themselves as a nexus for food and bio/agro-defense research and expertise.

The north section of the university's Manhattan campus houses the Biosecurity Research Institute, the colleges of Veterinary Medicine and Agriculture, the Grain Science Complex, the Kansas Department of Agriculture, and the upcoming National Bio and Agro-defense Facility, or NBAF — the U.S. Department of Homeland Security's foremost animal disease research facility — among several other world-class research facilities. Together, the region is a powerhouse for crop protection, animal health and food safety research.

Kansas State University and the city of Manhattan are working together to integrate the current and future development of facilities and infrastructure in this region of the campus through the North Campus Corridor Project. The corridor will serve as a hotspot of research, education and professional training. It networks the research facilities with the university's academic, intellectual property and athletic facilities as well as with future startup companies renting office and lab space in the corridor.

The North Campus Corridor is as much about research as it is about training students who will be the next generation workforce and helping grow the state's economy, said Ruth Dyer, senior vice provost for academic affairs and chair of the North Campus Corridor Task Force.

"We're looking at the future needs of the university and the region and how we can address those needs with the North Campus Corridor," Dyer said. "The collaboration between the university and the city has been instrumental in creating a plan that will maximize the opportunities in the North Campus Corridor."

In part, the traditional research park model is changing, said Dyer, who recently attended a national meeting for land-grant universities. At the meeting, representatives from several universities with research parks discussed the challenges of static infrastructure as well as the parks' distance from campus.

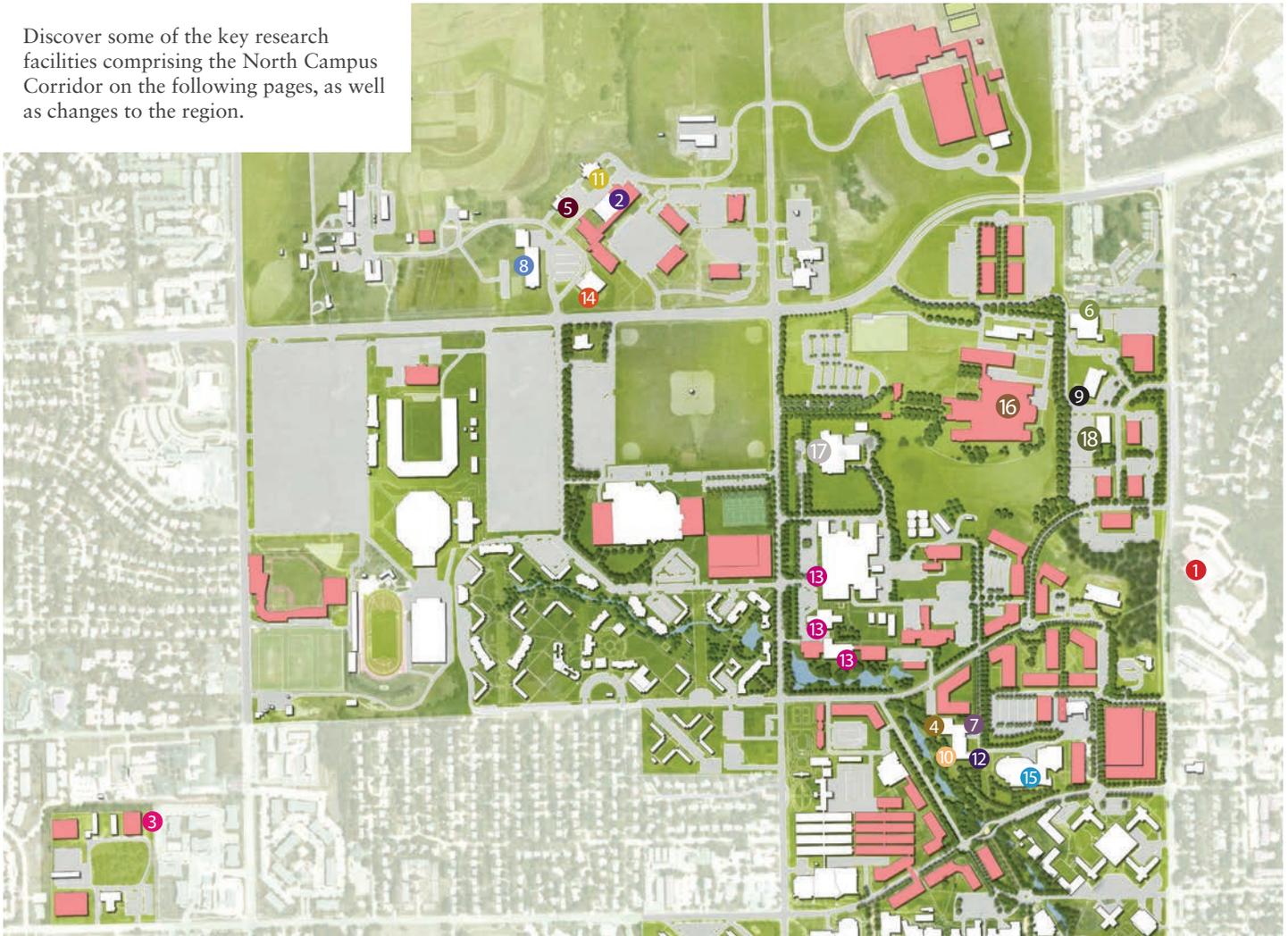
"We are pursuing a slightly different model than what has been used in the past at other universities," Dyer said. "What is being designed here is a concept that facilitates shared resources, space and knowledge across multiple colleges, disciplines, facilities and partners. It also provides rental space and labs for some of the startups and entrepreneurs that NBAF will attract and space for students to intern with companies."

One of the more unique components of the North Campus Corridor is there is more than 1,700 acres of agricultural land adjacent to the northern edge of the corridor. While this land is not what may be considered as traditional lab space, the land serves as the research space for plant sciences and livestock.

"These acres of agricultural land are the research space for many faculty members in the colleges of Agriculture and Veterinary Medicine," Dyer said. "The university sees this land as a treasure and a piece of who we are as a land-grant institution."

A bird's-eye view of the North Campus Corridor with descriptions of the facilities is on page 10.

Discover some of the key research facilities comprising the North Campus Corridor on the following pages, as well as changes to the region.



The North Campus Corridor is a nexus of research, innovation and education for Kansas State University and the city of Manhattan. Upcoming facilities are colored in coral while existing facilities are colored in white.

1 AIB International

AIB International is a nonprofit founded by the North American wholesale and retail baking industries as a technology transfer center for bakers and food processors.

2 Bioprocessing and Industrial Value Added Program

The lab specializes in the development of biomaterials processing technology and using agricultural-based materials to produce higher-value products for economic development. It is part of the 16-acre Grain Science and Industry Complex.

3 Center for Grain and Animal Health Research

The U.S. Department of Agriculture's Agricultural Research Service Center for Grain and Animal Health Research is the only USDA research laboratory in Kansas. Located near the Kansas State University Manhattan campus, the center conducts research and develops innovative technologies to solve soil erosion, the production and storage of grain, and arthropod-vector animal diseases. The center is comprised of five research units.

4 Dairy Processing Plant

This plant is part of the Food Science Institute and is equipped to produce a variety of dairy products as well as for pasteurization, homogenization, churning, condensing and ultrafiltration of dairy foods. The dairy facility can be used for the manufacture of new products and study new ingredient functionality.

5 Hal Ross Flour Mill

The mill is a leading pilot scale flour mill used for teaching, research and industry training. It contains the same full-scale equipment and control systems used in the commercial flour milling industry. It is part of the 16-acre Grain Science and Industry Complex.

6 Manhattan/K-State Innovation Center

The Kansas State University Institute for Commercialization, or KSU-IC, and the Kansas State University Research Foundation, or KSURF, work together to help university researchers take their ideas and inventions and make them profitable. The foundation handles researcher disclosures and the patent process, and the institute works with companies to license the new technology.

7 Kansas Valued Added Foods Lab at Call Hall

This lab offers food-related businesses, processors and entrepreneurs numerous services, including assisting in new food production; conducting shelf life tests; reviewing product labels; and generating nutritional information. The lab is part of the Food Science Institute.

8 Kansas Wheat Innovation Center

The center was built by the Kansas Wheat Commission on land owned by the university. The center houses Heartland Plant Innovations and the university's Wheat Genetics Resource Center — initiatives focused on developing new technologies for wheat farmers.

9 Mary and Carl Ice Hall

The hall is laboratory space for several of the College of Human Ecology's larger-scale research projects. These projects include the Programs for Workplace Solutions, the Personal Financial Planning Clinic and the Sensory Analysis Center — an internationally recognized research institute skilled in consulting, project management, method development, educational sensory and consumer research — among others.

10 Meat Science Facility at Call Hall

With a mission of meat science research and teaching, the facility provides educational and technical support for meat processors and entrepreneurs in areas such as product safety, meat processing regulations and quality control techniques. The lab is part of the Food Science Institute.

11 O.H. Kruse Feed Technology Innovation Center

The newly constructed feed technology innovation center is a world-class facility focused on addressing the needs of the livestock feed industry. Areas of focus include the science of feed processing, pet food development and grain handling. It is part of the 16-acre Grain Science and Industry Complex.

12 Thermal Processing Lab at Call Hall

The lab's focus is educating food processors, evaluating larger-scale food formulations, and providing training experience with processing equipment. The lab also works with processors to develop new products, test thermal processes and scale up operations to market test-size batches.

13 Veterinary Medicine Complex

The complex includes the Kansas State Veterinary Diagnostic Laboratory, the Veterinary Health Center and the Center of Excellence for Emerging and Zoonotic Animal Diseases, or CEEZAD, a U.S. Department of Homeland Security laboratory headquartered at Kansas State University, develops innovative countermeasures against high-priority foreign, emerging and zoonotic diseases that threaten human and animal health.

14 Grain Science Center/IGP Institute

The IGP Institute serves and supports Kansas and U.S. farmers in promoting the export and use of their wheat, corn, soybeans and grain sorghum with customers around the world through outreach, research and education. The building also houses several leading grain science research laboratories.

15 Weber Hall

The university's animal sciences and industry department is one of the largest in the U.S. It focuses on food and animal product safety, quality, security, production and management.



16 National Bio and Agro-defense Facility

The National Bio and Agro-defense Facility, or NBAF, is the U.S. Department of Homeland Security's foremost animal disease research facility. The \$1.25 billion facility is a biosafety level-4 laboratory that will research emerging, high-consequence livestock diseases. NBAF is expected to be fully operational by 2022 or 2023.



17 Biosecurity Research Institute

The Biosecurity Research Institute, or BRI, at Pat Roberts Hall is a biosafety level-3 and biosafety level-3 agriculture facility that focuses on high-consequence animal, plant and foodborne pathogens that threaten agriculture and human health. The BRI also offers BSL-3 laboratory training and is equipped with large animal holding pens.



18 Kansas Department of Agriculture

The Kansas Department of Agriculture, or KDA, is the nation's first state department of agriculture and is dedicated to providing support for agriculture in Kansas, including farmers, ranchers, food establishments and agribusiness.