KANSAS AVATION RESEARCH & TECHNOLOGY GROWTH (KART) INITIATIVE
OF THE 100 LARGEST U.S. METRO AREAS

WICHITA RANKS #1
IN MANUFACTURING JOBS
AS PERCENT OF ALL JOBS

OF THE 100 LARGEST U.S. METRO AREAS

WICHITA RANKS #1
IN PERCENTAGE OF JOBS INVOLVING
Science, technology, engineering, and math (STEM Occupations)

Brookings calls South Central Kansas the
MOST MANUFACTURING-SPECIALIZED REGION IN THE UNITED STATES
with 17.7% of regional jobs in manufacturing, more than half of which are engaged in making some of the world’s most sophisticated aircraft.

ADVANCED INDUSTRY HOTSPOT
RANKED
#3 NATIONALLY

HIGHEST CONCENTRATION
of aerospace manufacturing employment
IN THE NATION
America's Engineering Hubs: The Cities With The Greatest Capacity For Innovation

“Where engineers concentrate, we can expect the greatest capacity for innovation.”

WICHITA RANKS #3 AMONG METROS FOR HIGHEST CONCENTRATION OF ENGINEERS PER 1,000 EMPLOYEES (22.4 / 1,000)

Aerospace Engineering – Industry Funded

WICHITA STATE UNIVERSITY #1

Engineering – Industry Funded

WICHITA STATE UNIVERSITY #3

- National Science Foundation
In the past, every 10 to 12 years, there was a major up and down cycle in aerospace. Currently, we are in the 18th consecutive year of an up cycle.

Air traffic is growing at about 7% per year. Post-COVID recovery is stronger than expected.

Today, if you look at every airplane flying in the commercial fleets around the world, there are 26,000 aircraft. In the next 20 years, we are going to build 40,000 more.
KANSAS AVIATION INDUSTRY
WHY THIS IS SO IMPORTANT TO US

• KANSAS CONTRIBUTIONS

• 30,700 direct aerospace jobs and 113,590 indirect jobs as a result of the aerospace industry with an average wage of $70,381
• Direct payroll of $2.3 billion and indirect payroll of $5.2 billion
• Each aviation job generates an additional 3.7 jobs
• Kansas Aerospace Products & Parts accounted for 21.5% of all exports for Kansas

Sources: Mfg Report CEDBR, Foreign Trade Division, U.S. Census Bureau, KS Dept of Labor, Bureau of Labor Statistics
KART RESEARCH PROGRAM OVERVIEW

- Program been in place since 2003
- The protocol used by the program is for the industry to supply high priority research programs to increase KS competitiveness in the global market.
- These programs are then downselected by the industry to fit within the available budget.
- Programs are continually reviewed every two weeks by industry points of contact to ensure deliverables are being achieved.
RESEARCH FUNDING DISTRIBUTION
2021

MATERIAL/STRUCTURES CHARACTERIZATION

COMPOSITE/ADVANCED MATERIALS

ADDITIVE MANUFACTURING

INFRASTRUCTURE
KANSAS AVIATION INDUSTRY
AWARDS 2021

$11 MILLION

$78.7 MILLION

$46.7 MILLION

12:1
RETURN ON INVESTMENT

FEDERAL

INDUSTRY

STATE
DIGITAL TWIN

PUSHING THE BOUNDARIES OF DIGITAL ENGINEERING TO ADVANCE LEGACY AIRCRAFT INTO THE DIGITAL AGE
National Defense Prototype Center (NDPC)

- Joint collaboration between Wichita State University’s National Institute for Aviation Research and Spirit AeroSystems.
- Provides a secure space for high temperature materials testing, development, prototyping and industrialization.
- More than 125,000 square feet of manufacturing and lab space with processing and characterization capabilities, including high temperature testing, furnaces for fabricating and processing materials, multi-method non-destructive inspection, robotic automated fiber placement technology and a large autoclave.
NEW FUNDING TO KANSAS

- **Department of the Navy**
  - $7.0 M

- **Federal Aviation Administration**
  - $10 M

- **Department of Defense**
  - $16 M

- **United States Army**
  - $19 M

- **NASA**
  - $2.0 M

- **U.S. Department of Homeland Security**
  - $500k

- **United States Air Force**
  - $32 M