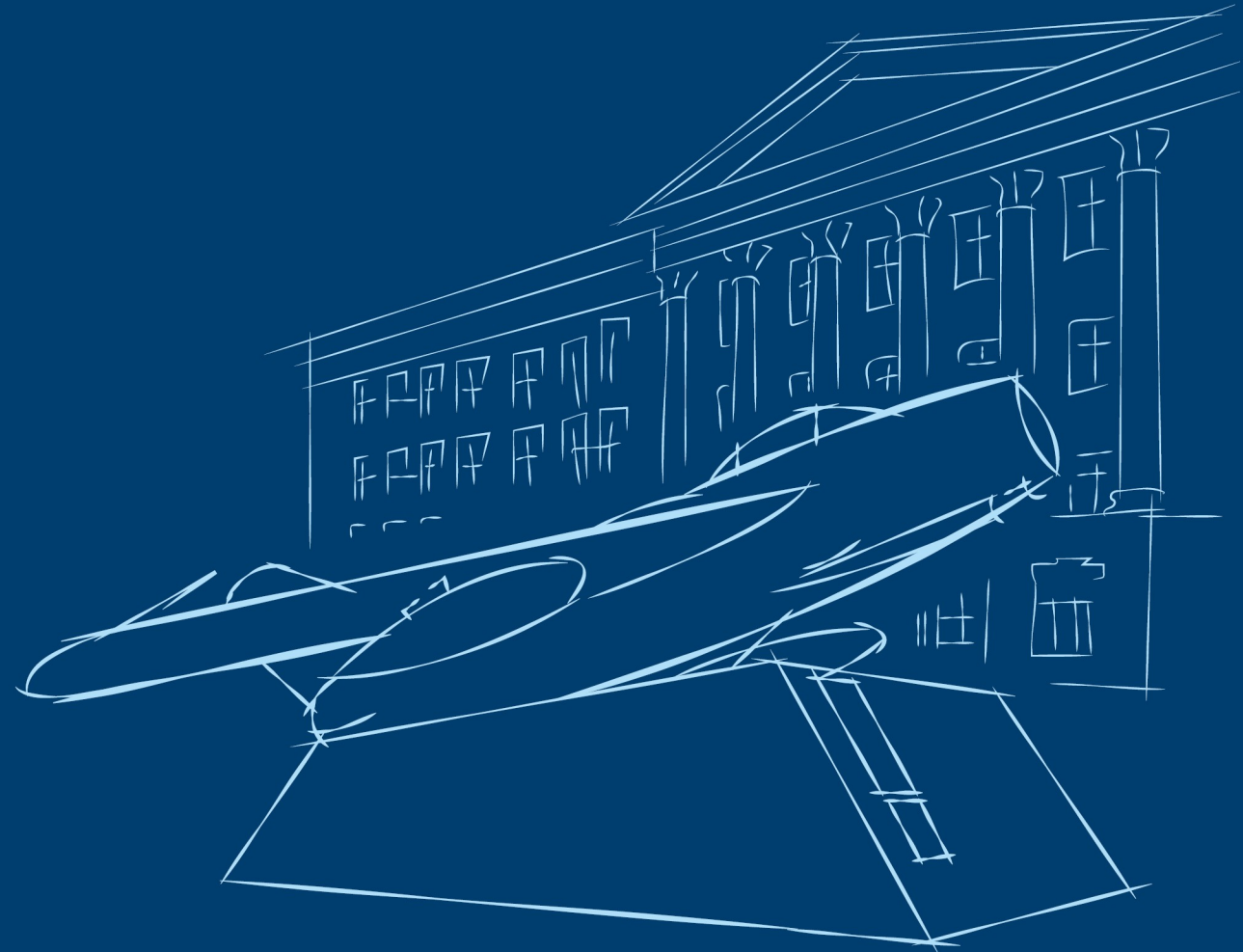НАЦІОНАЛЬНИЙ
АЕРОКОСМІЧНИЙ УНІВЕРСИТЕТ
«ХАРКІВСЬКИЙ АВІАЦІЙНИЙ ІНСТИТУТ»

NATIONAL AEROSPACE UNIVERSITY
«KHARKIV AVIATION INSTITUTE»

9 Industry, Innovation and Infrastructure

Restoration of Damaged Buildings and Laboratories within Safe Modernization Projects

The National Aerospace University "Kharkiv Aviation Institute" has carried out extensive restoration work on damaged buildings, laboratories, and classrooms affected by military actions.

Within the framework of safe modernization projects, the University:

- restores the main academic buildings, including lecture halls, laboratories, computer classrooms, and administrative offices;

- reconstructs research laboratories of the Faculties of Aviation and Space Systems, Energy, and Mechanical Engineering;

- conducts major repairs of engineering networks, including heating, water supply, ventilation, and lighting systems;

- installed modern safety systems, including video surveillance, fire protection, and access control;

- implemented energy-efficient solutions, such as LED lighting systems, façade insulation, and digital energy management;

- restored student spaces and dormitories, creating a comfortable and safe environment for learning and recreation.

Thanks to the involvement of state, grant, and international resources, KhAI has not only restored its material and technical base but also modernized it in accordance with contemporary standards of aviation education and scientific research.

The implementation of these projects represents an important step toward creating a safe, sustainable, and innovative university campus that aligns with ESG development principles and promotes KhAI's integration into the global educational and research community.
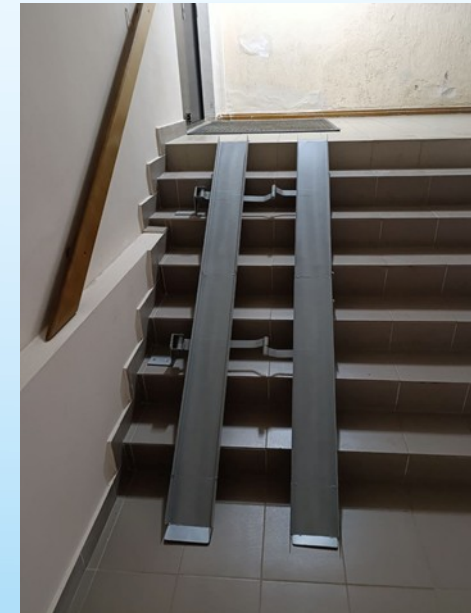
Development of Accessible, Inclusive, and Digital Infrastructure at KhAI

The National Aerospace University "Kharkiv Aviation Institute" systematically implements a policy aimed at creating a modern, inclusive, and technologically advanced educational environment that meets the needs of students, faculty, and researchers.

Within the framework of the University's development program, initiatives are being carried out to:

- modernization of educational spaces - creating new interactive classrooms, multimedia zones, and hybrid learning platforms equipped with modern digital technologies;

- development of STEM infrastructure - opening laboratories for robotics, 3D modeling, computer-aided design, artificial intelligence, and mechatronics;

- ensuring inclusivity in the learning process - equipping university buildings and dormitories with ramps, adapted restrooms, and tactile navigation systems;

- expanding digital access to education - developing e-learning courses, implementing distance learning systems, and advancing KhAI's digital campus;

- creating creative and collaborative spaces - establishing lounges, coworking areas, and student hubs for joint project work.

Through these initiatives, KhAI is shaping a modern educational environment focused on innovation, comfort, and equal opportunities for all participants in the learning process.
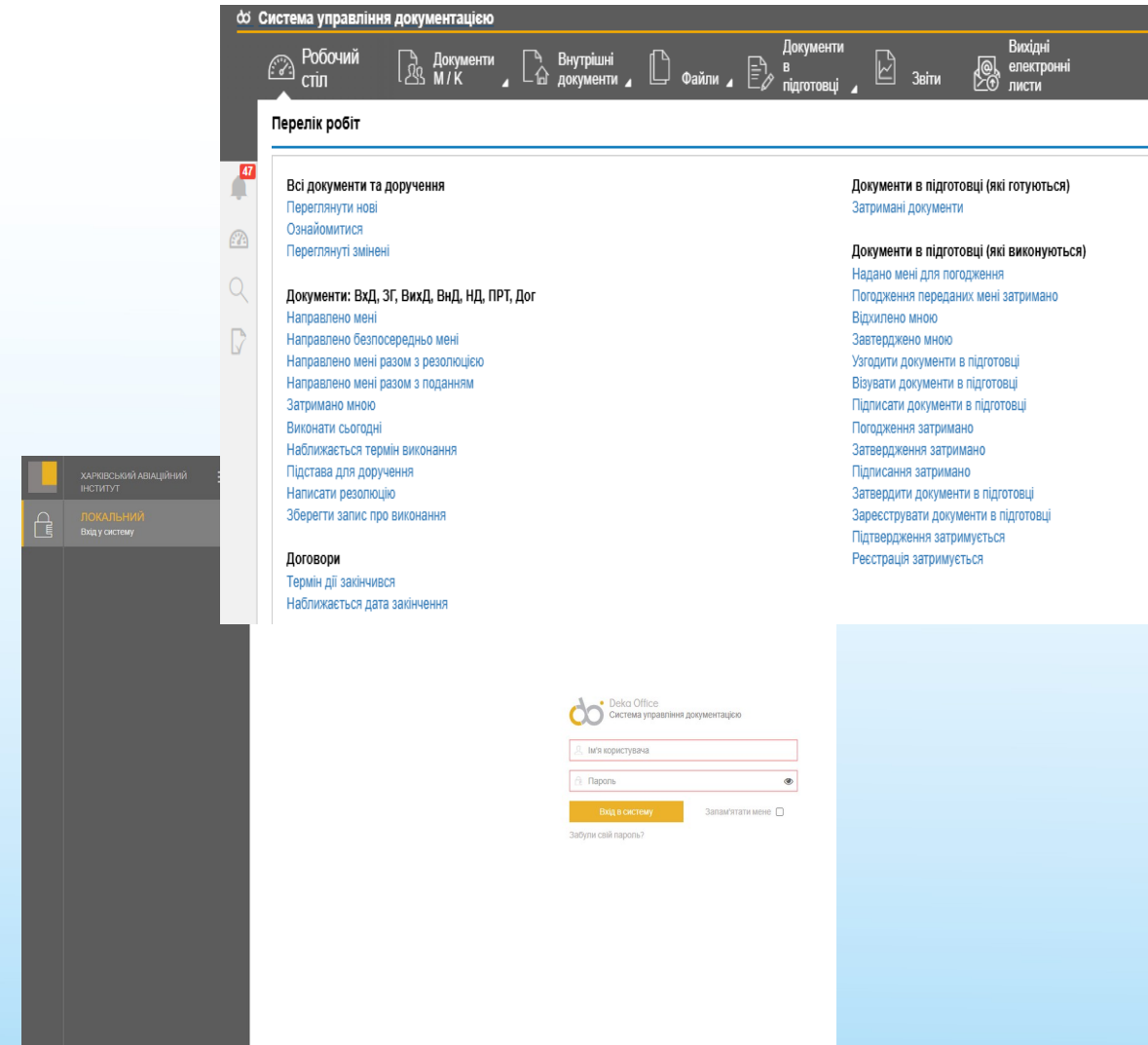
Digital Document Management and Data Governance at KhAI

KhAI has implemented an electronic document management system and centralized data governance, which ensures:

- fast and transparent exchange of documents between departments;
- automation of personnel, financial, educational, and research processes;
- secure storage and real-time access to data;
- improved efficiency in management decision-making;
- compliance with cybersecurity and personal data protection standards.

The implementation of the digital system allows the university to optimize its operations, increase transparency, and reduce document processing time, thereby creating a modern digital management infrastructure.

Collaboration with Industry and IT Companies

The university actively fosters close cooperation with aerospace, mechanical engineering, and IT companies, aimed at:
- joint execution of research and development projects;
- organization of internships and practical training for students and young researchers;
- development of innovative technologies and high-tech solutions;
- integration of research results into industrial production.

This collaboration enables KhAI to enhance the quality of education, strengthen the university's innovation potential, and contribute to the development of the national aviation and space industry.

Industrial Exhibitions, Conferences, and Forums at KhAI

The university actively organizes and participates in industrial exhibitions, scientific conferences, and technology forums, which promote:

- technology transfer - implementing the university's innovative developments into production and industrial processes;

- commercialization of scientific results - creating startups, licensing developments, and attracting investments;

- partnerships with industry and IT companies for joint research and development projects;

- dissemination of KhAI's scientific potential and enhancement of its prestige at national and international levels;

- practical interaction of students and researchers with the labor market and modern technologies.

Such activities create a platform for integrating science, education, and business, stimulate innovative development, and enhance the competitiveness of the university and its partners.