校務大數據研究中心
Center for Institutional
Research and Data Analytics
NYCU CIRDA

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2024 Annual Smart Campus Achievements Exhibition
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2024 "Digital Transformation & Smart Campus Exhibition" was successfully concluded

National Yang Ming Chiao Tung University (NYCU) is actively advancing digital transformation with the vision of building a high-quality smart campus. During the exhibition, the Vice President presented the university's digital vision and goals, structured around four core pillars: Teaching & Learning, Research & Innovation, Administration & Digital Literacy, and Infrastructure & Cybersecurity

In the area of Teaching & Learning, AR/VR technologies were introduced to create immersive, real-time translation environments, enhancing both interactivity and personalized learning experiences. Advanced analytics were also employed to monitor student performance in real time and improve learning outcomes. In Research & Innovation, emphasis was placed on industry-academic collaboration and interdisciplinary research. The effective integration of R&D resources fosters innovative solutions and cultivates a dynamic and creative campus culture..

Opening Remarks by Vice President Dr. Ta-Sung Lee on NYCU's Smart Campus Achievements

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President's Remarks：Encouraging Smart Campus Advancement

NYCU is committed to building a smart campus through big data. The university has developed a personalized Learning Pathway Platform that spans three stages: talent selection (admission), learning assessment (during studies), and career development (post-graduation). This end-to-end system enables tailored support for each student, helping instructors adjust their teaching strategies accordingly.

Introducing the AI Course Intelligent Assistant

AI Course Assistant Demonstration

Through dynamic video demonstrations and expert explanations, visitors experienced how AI technologies support teaching. For example, smart interactive systems provided real-time translation in language courses, and AR/VR applications boosted student motivation—clearly showcasing the innovative impact of educational technology.

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Campus units continue to collaborate on the
Smart Campus Project through innovative initiatives:

● **Campus AI Assistant Platform**
Enhances administrative efficiency and communication via cross-functional collaboration.

● **Indoor Positioning Project**
Builds a Wi-Fi/5G-based digital twin system to provide real-time, accurate indoor navigation for students and visitors.

● **Smart Campus Co-Creation Workshops**
Promote bottom-up problem solving by engaging students and faculty in co-designing solutions—fostering a culture of innovation and participation.

This not only strengthens the school's problem-solving capability,
but also effectively shapes the campus culture of diversity and innovation.
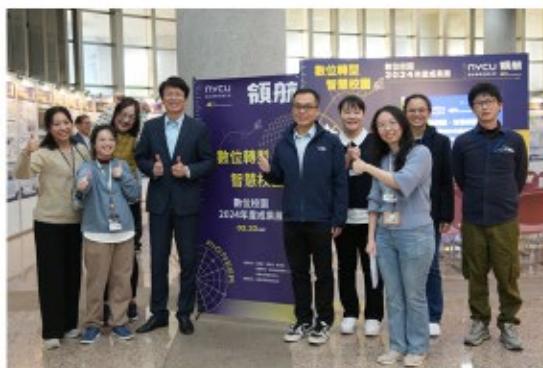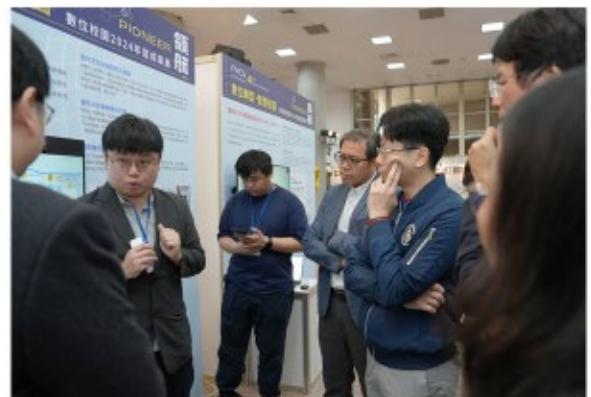
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CIRDA is developing digital tools to improve administration and user experience:

Visualized Institutional Data:

Simplifies access to data and enhances analysis through intuitive dashboards—boosting decision-making quality.
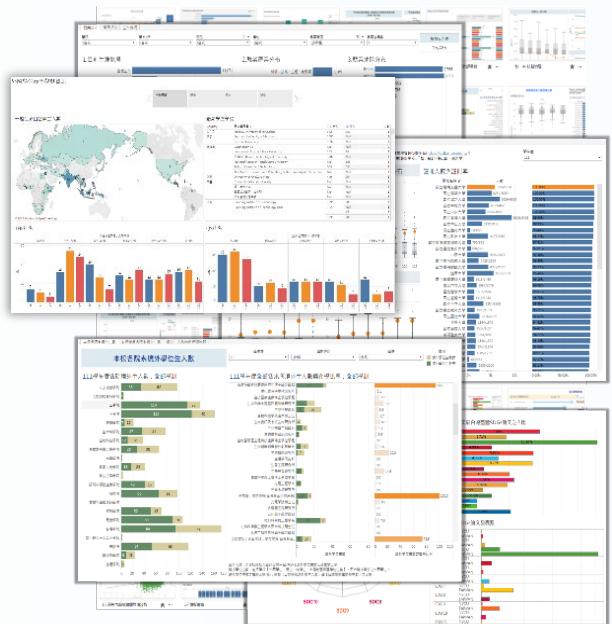
Campus Assistant Tool:

Actively delivers targeted information to faculty, staff, and students for real-time communication.

Augmented Reality Campus Tour:

Combines local and contextual AR applications to offer immersive campus tours, including 360° virtual visits for remote audiences—enhancing NYCU's image and visitor experience.