11
SUSTAINABLE CITIES AND COMMUNITIES

40
Number of Building with Smart Systems

68%
Total Area of Smart Systems' Buildings

42,3%
Total Green Areas

Stewardship

ITS Expands Campus Infrastructure Stewardship

Demonstrating a strong commitment to academic productivity and community service, eight new buildings were inaugurated to enhance learning, research, and public engagement. These include Tower 1, the Tower Research Center, the Visual Communication Design Department Building, the Robotics Workshop, Student Dormitory Block M, and three redesigned campus gates. Each facility reflects thoughtful stewardship in planning and execution, prioritizing safety, accessibility, and innovation. The development supports a more inclusive and future-ready campus environment, aligning with broader goals in education, sustainability, and institutional excellence."
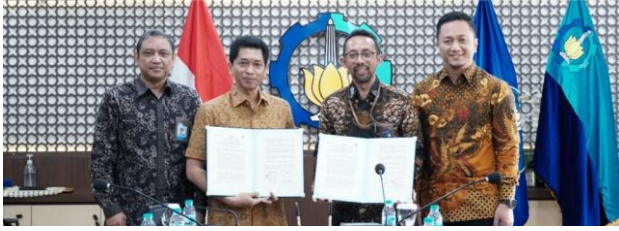

Fostering Public Transport Awareness

As part of the Czech–Indo Friendship Exhibition 2024, a strategic public discussion was held to promote greater interest in public transportation, particularly in Surabaya. The event brought together experts, policymakers, and international representatives to exchange innovative ideas and practical solutions for improving urban mobility. Emphasizing comfort, efficiency, and accessibility, the dialogue aimed to reshape public perception and encourage behavioral shifts toward sustainable transport. This initiative reflects a broader outreach effort to engage communities, raise awareness, and foster collaborative action in support of inclusive and environmentally responsible urban development"

Research

Modular Method for Green High-Rises

A collaboration between ITS and PT Wika Gedung marks a pioneering step in sustainable construction by adopting a modular methodology for high-rise buildings. This innovation enables detailed, offsite component construction, significantly reducing material waste, energy consumption, and on-site emissions.

604 Scholarly Output

0.86 Field-Weighted Citation Impact

2,976 Citation Count

The upcoming 20-story ITS Student Dormitory will be Indonesia's first modular high-rise, exemplifying how precision engineering supports net-zero emissions targets. This approach enhances structural efficiency and reinforces ITS' leadership in green construction and academic-industry synergy.

Smart Modular Design for Sustainability

Through the Visionaries 2024 competition, ITS students introduced an innovative modular construction concept for high-rises that integrates smart city features for green development. Their proposal emphasizes prefabrication techniques to reduce waste, energy use, and carbon emissions, while enhancing structural precision. By combining modular methodology with digital services—such as smart lighting and real-time building management—the design promotes both environmental sustainability and urban livability, reflecting a commitment to smart, eco-friendly construction practices.

Teaching

Empowering Learning for Business Growth

ITS facilitated a targeted branding workshop for local MSME owners to enhance their market competitiveness and profitability. The training emphasized strategic brand development, digital marketing, and customer engagement, equipping participants with actionable tools. By integrating academic expertise with real-world application, this initiative reflects ITS' commitment to inclusive education, community empowerment, and sustainable economic impact.

Research

Celebrating Diversity Through Artistic Unity

ITS celebrated national values by organizing a Pancasila Day art appreciation event on June 10, 2024. Hosted by the UKTK (Student Arts and Culture Unit), the event provided a platform for students to showcase artistic expressions reflecting national unity and cultural pride, celebrating Indonesia's founding principles.

Designing Greener Public Offices

Through its KKN Abmas program, ITS initiated an outreach project by designing environmentally friendly government office prototypes for the Kalanganyar village administration in Sidoarjo. The design integrates passive cooling, natural lighting, and sustainable materials to reduce energy consumption and enhance comfort. This initiative supports local governance and promotes awareness of green, climate-responsive architecture, bridging academic expertise with community needs to advance grassroots sustainable development.

Celebrating Heritage Through Shadow Puppetry

Marking its 64th anniversary, a traditional wayang kulit performance featuring the story of "Antasena Kridha" was held, bringing together students, faculty, and the public. Performed in collaboration with artists from ISI Surakarta, the event highlighted values of resilience, unity, and creativity. By using digital guides and live streaming, the performance was made accessible to diverse audiences, reinforcing ITS' role in preserving tradition while embracing innovation and inclusivity.