



Industry, Innovation and Infrastructure



Sustainable Development Goals Report 2023

“Investments in infrastructure – transport, irrigation, energy and information and communication technology – are crucial to achieving sustainable development and empowering communities in many countries.”

THE Impact Rankings





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Sustainable Development Goals Report 2023



STATISTICS

103

Number of university
spin offs

3,440

Number of academic staff

85

Number of publications 2019
- 2023



ITS: Driving Healthcare Innovation and Sustainable Development in Indonesia

ITS stands at the forefront of Indonesia's drive towards innovative healthcare solutions and sustainable development, establishing itself through a strategic combination of infrastructure development, academic research, and industry innovation. The institute's flagship initiative, the People's Health Ship project, exemplifies this commitment by delivering healthcare to remote regions across Kalimantan and Sumatra's riverine communities. This mobile facility showcases sustainable engineering through its incorporation of recyclable materials and hybrid energy systems while maximizing the use of local resources.

In the realm of healthcare technology, Prof. Dr. Eng. Chastine Fatichah's groundbreaking research in Deep Learning methods highlights ITS excellence. Her team's implementation of a Generative Adversarial Network (GAN) and a Generative Pre-trained Transformer (GPT) has significantly enhanced medical data processing, improving both diagnostic accuracy and medical report generation efficiency. The institute's impact extends into the industry through successful startups like PT Nanoma Teknologi Indonesia, a recent winner of the Health Innovation Sprint Accelerator 2023 competition. Their development of CoFilm, an antivirus paint utilizing copper nanotechnology, showcases how academic research can be transformed into practical public health solutions.



ITS: A Hub of Innovation Driving Sustainable Development

Through its powerful motto, "Membumi untuk Mendunia" (Grounding Globally), ITS demonstrates its dual commitment to serving local communities while expanding its global influence. This vision materializes through educational transformation, broadening scientific horizons, and developing cutting-edge infrastructure that positions ITS as a comprehensive innovation hub. At the core of the ITS innovation ecosystem stands the Science Techno Park (STP), a technological complex operating through four strategic divisions: Maritime, Automotive, Creative Design, and Robotics.

Supporting these divisions are specialized facilities, including the ITS Automotive & Forensic Center and the ITS Robotic Center, which provide cutting-edge resources for advanced research and development initiatives. The crown jewel of ITS' research infrastructure is its eleven-story Research Center building, housing ten dedicated research centers, including the Center for Sustainable Energy and Technology Health Center. Additionally, five specialized study centers focus on critical areas such as Sustainable Development Goals and Community Empowerment, exemplifying ITS commitment to combining technological advancement with social impact.



Empowering Technology-Based Startups: ITS' ILBI Drives Innovation

ILBI (Innovators and Innovative Business Services) is ITS' dedicated technology business incubator. Its compelling vision is to become a leading university-based business incubator and a center for technology-driven entrepreneurship development in Indonesia and Southeast Asia. The incubator provides comprehensive support through structured entrepreneurship development programs, focusing on nurturing resilient entrepreneurs who develop research-backed innovative products. This is achieved through mentorship programs, access to research facilities, product development assistance, and market validation support. ILBI also facilitates crucial networking opportunities, connecting startups with potential investors, industry partners, and fellow entrepreneurs. Through this integrated approach, ILBI ensures that innovative ideas transform into sustainable businesses with strong competitive advantages, contributing to Indonesia's economic development and technological advancement.

