



“Vertical Polytechnic Kiosks” Inaugurated at UPIITA

An innovative project integrating technology, research, and student life into a multifunctional and sustainable environment

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Designed to function as open-air laboratories for monitoring air and water quality, harnessing energy, and fostering student interaction, the **“Vertical Polytechnic Kiosks”** at the Interdisciplinary Professional Unit in Engineering and Advanced Technologies (UPIITA) contribute to the educational, research, and social objectives of this academic unit.

The kiosks incorporate advanced technologies and features for monitoring, managing, and processing data, with ties to various research fields such as geospatial studies and climate change, as well as sustainability aspects, explained Miguel Félix Mata Rivera, head of the Geospatial Intelligence and Mobile Computing Laboratory and leader of the project.

During the inauguration of the first phase, UPIITA Director Israel Vázquez Cianca emphasized that this space will facilitate the exchange of ideas, experiences, and collaborative work within the campus community.

The kiosks include environmental monitoring capabilities with sensors that measure air quality in real time. They also feature sustainability initiatives such as rainwater harvesting and solar energy collection. Their multifunctional design, with benches and tables, fosters interaction among students, while built-in connectivity offers charging ports for electronic devices.

The initiative also aims to foster international collaboration, with plans to integrate joint efforts with universities in Switzerland, France, and the United States. These alliances are expected to extend the project's reach, generating new opportunities for academic exchanges, scientific collaboration, and the development of emerging technologies.

This project was supported by the IPN's Secretariat of Research and Graduate Studies and involved the participation of researchers and students from high school, undergraduate, and graduate levels under the Institutional Scholarship for Research Training (BEIFI).