

# ANGEL Lab: NTU Singapore Partners to Drive Green Innovations

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Nanyang Technological University (NTU) Singapore and a multinational technology company have unveiled a new corporate lab. The Alibaba-NTU Global e-Sustainability CorpLab (ANGEL) is dedicated to [advancing green digital technologies](#) and fostering sustainable lifestyles. Launched with support from Singapore's National Research Foundation (NRF) under the Research, Innovation, and Enterprise (RIE) 2025 plan, ANGEL aims to accelerate the development of smart technologies to create a more sustainable future.



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The official launch, attended by Deputy Prime Minister Heng Swee Keat, highlights the lab's mission to bridge the gap between industry and public sector research. By leveraging industry-academia partnerships, ANGEL will facilitate access to a broader talent pool and technological expertise, enabling practical solutions to real-world challenges. This collaboration is expected to advance the integration of sustainable practices in technology, aligning with Singapore's Smart Nation initiative and Green Data Centre Masterplan.

A key component of ANGEL's work includes the release of the Green AI white paper, which identifies ten critical sustainability challenges in AI. This white paper aims to drive research and innovation in eco-friendly technologies and promote broader adoption of sustainability practices across various sectors. With AI's anticipated growth

leading to a significant increase in data centre energy demand, ANGEL will focus on developing energy-efficient technologies and reducing the environmental impact of AI.

The lab's initiatives will cover diverse areas such as energy-efficient AI algorithms, green cloud computing, and sustainable living technologies. ANGEL's research projects will address pressing environmental issues, including carbon emissions reduction in supply chains, promotion of eco-friendly behaviours, and advancements in healthcare models for personalised interventions.

Spanning over five years, the collaboration will involve up to 200 scientists and engineers from both NTU and the multinational technology company, working together to drive technological breakthroughs and commercialise innovative solutions. The partnership builds on the success of the Alibaba-NTU Singapore Joint Research Institute, established in 2018.

NTU President Professor Ho Teck Hua emphasised that this new lab combines NTU's expertise in AI and sustainability with multinational the company's digital platform capabilities. The collaboration aims to provide users with cost-effective AI-powered applications while promoting sustainable computing growth. This partnership underscores NTU's commitment to impactful industry collaborations and its role in shaping future technological advancements.

*Read more: <https://www.opengovasia.com/2024/09/13/angel-lab-ntu-singapore-partners-to-drive-green-innovations/>*