

HKICT Awards 2025 Winners Stories
ICT Startup Grand Award - SLOPE device

If I have to describe the SLOPE device in one word, I guess that would be the word "hope".

Our device will be one of the solutions for bringing good and healthy vision for many people.

The SLOPE device stands for the Structured Light Observation Perception and Evaluation, it brings quantum technology to vision sciences.

So the core mission of the SLOPE system is to introduce a new functional test that can detect the eye diseases as early as possible, by detecting the functional biomarker before any structural damage is visible on other devices.

Current devices like optical coherence tomography (OCT), fundus camera or other devices, cannot detect in an early stage, because usually these devices are being used for structural damage.

Our device can detect earlier because it detects functional damage.

Because functional changes happen earlier than the structural damage in this disease.

I was always curious how we can manage this disease, especially treat people or prevent blindness.

And then I joined the Centre for Eye and Vision Research as a researcher, moving from the clinic to the science.

So it started from our study in Canada, then developed in Hong Kong, now we are going global again in order to provide a better solution.

We won two awards from the HKICT Awards, and we are very grateful for the recognition of our project for its social responsibility, for its impact.

The main key thing is raising the awareness that we have a disease called AMD (Age-related macular degeneration).

Another thing is that we already tested in several conditions and we think that we can expand the application of SLOPE for other diseases.

We are talking about not only age-related problems but also the problems that can affect people at an earlier age.