



LPIXEL Inc.



- ❑ Address: Chiyoda-ku, Tokyo
- ❑ Employees: Approx. 60
- ❑ Established: 2014
- ❑ Business: Development and sales of image analysis technology in the life science field.

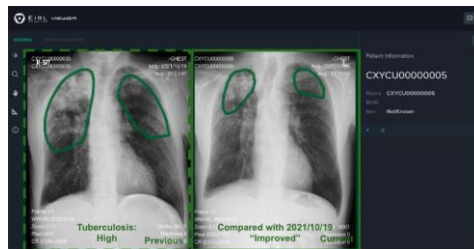
<https://lpixel.net/en>

Outline of the demonstration project

- Demonstration of the use of diagnostic imaging AI to enhance mobile tuberculosis screening programs in Thailand.

Cooperation with local companies/governments

- Local Partners: Mahidol University (Faculty of Public Health), Bangkok Metropolitan Administration (Public Health Center, AIDS control division)
- Details of Partnership/Cooperation: Introduction of diagnostic imaging AI to mobile tuberculosis screening services (busses equipped with X-ray machines) and evaluation of its effectiveness.



*This is only an illustration and the detection results/patient data are fictitious.

Targeted economic/social issues

- Thailand has been designated as a "high tuberculosis (TB) burden country" by the World Health Organization (WHO), and is making a concerted effort to eliminate the disease.
- Early diagnosis, treatment, and prevention of TB are important for eliminating the disease, but it is said that about 30% of new TB cases per year remain undetected.
- To eliminate TB, it is important to screen as many patients as possible. Mobile X-rays are an effective tool for this purpose, but they have not been fully utilized due to limited resources and other issues.

Details of demonstration

- In this project, we will incorporate our diagnostic imaging AI, which has functions for detecting TB and comparing with past images, into the local mobile X-ray TB screening workflow.
- Compared to the conventional workflow, we aim to improve screening accuracy, reduce the burden on medical personnel, and enable screening of more patients with limited resources.

Expected outcome of beneficiary effects

- Contribute to the expansion of TB screening and the eradication of TB.
- Promote the use of diagnostic imaging AI in clinical medicine, and in doing so contribute to the improvement of the quality of medical care in Thailand.