



Community based Eye Health Solution,
Appropriate Technology through Upcycled Smartphones.

LabSD, Inc.

Company Profile



LabSD, Inc (Laboratory for Sustainable Development) is a social enterprise established to provide solutions for global health programs/projects, improving their effectiveness and efficiency in resource limited conditions.

Its first item, the EYELIKE™ Platform enables community level health workers to conduct a proper retinal exam while saving environment by using upcycled smartphones instead of producing new medical devices.





Vision & Mission.



Vision

A world without barriers to quality healthcare services



Mission

To contribute to the Availability, Accessibility, Affordability, Attainability, and Accountability as well as Awareness of quality healthcare services everywhere, specifically in resource limited conditions.



Core Value (ISEE)

INCLUSIVE

Create a thriving eco-system for a healthier world through proposing mutually beneficial values to the partner organizations.

SUSTAINABLE

Align and interact with all United Nations Sustainability Development Goals (UNSDGs).

EVIDENCE-BASED

Generate evidence for the impact of solutions provided and establish an archive of all data collected for the future generation to step further.

EMPOWERED

Provide proper health services through task-shifting the role of highly-trained medical personnel to already-existing health human resources in the community with appropriate technology.

01

Improved eye health reduces poverty

Blindness and poverty usually creates a vicious cycle that cannot be easily tackled.

The EYELIKE Platform can support organizations dedicated to global eye health providing up-to-date eye health information of a given area such as current prevalence of each blindness causing eye disease while making the whole process of monitoring and evaluation precise and handy by visualizing the changes before and after the implementation. With such data, the online donation module can provide financial support for the patients diagnosed by the EYELIKE Teleophthalmology system or AI-CDSS to receive proper treatment from the partner organizations. If the partner organizations can achieve their goals more efficiently and effectively, the beneficiaries in the marginalized areas can avoid the risk of being blind, which means they will have more opportunity to opt out from poverty.

03

Improved eye health advances general health and well-being

There are about 253 million people who are blind or visually impaired in the world, and 90% of them dwell in low-and- middle income countries. Because most blindness-causing eye diseases (90%) are chronic and easily preventable with a simple intervention, there have been continuous global efforts to prevent them. However, current approaches often are challenged to achieve the continuum of care in resource limited conditions without appropriate diagnostic technology and health information systems.

LabSD, Inc. provides comprehensive community eye health services with appropriate technology in resource limited conditions, specifically for retinal diseases, which are responsible for about 21% of the global blindness.

12·13

Reduces waste while promoting the health of the community

If the global health sector was a country, it would be the 5th largest contributor for carbon emission. On the other hand, in a world where mobile devices are excessively proliferating, seventy percent of mobile devices are unused after three years of their launch. Moreover, the number of such products is estimated to be 0.2 billion units every year waiting to be discarded causing environmental concerns.

The collaboration with Galaxy Upcycling Program and Mintit provides innovative ways to repurpose older flagship smartphones that would otherwise be discarded causing environmental issues saving resources to manufacture medical devices.

17

Essential to scaling-up success for vision for everyone by 2030

LabSD, Inc. is adopting global guidelines of International Agency for the Prevention of Blindness (IAPB)'s 2030 In Sight Strategy and, Integrated People- Centered Eye Care (IPEC), and the EYELIKE Platform is being developed and expanded through global collaboration and cooperation amongst the various partner organizations in different sectors.

Global Outreach- LabSD, Inc. is currently piloting EYELIKE™ platform in Vietnam, Bangladesh, Morocco, Papua New Guinea, and India in collaboration with IAPB, Samsung Electronics, and Project BOM of the Yonsei Health System along with other prestigious organizations that are concerned with community eye health. LabSD, Inc. is aiming to distribute at least 1 platform in every 50,000 population, which is a recommendation for the number for Vision Centers by experts at IAPB and World Health Organization (WHO) until 2030.



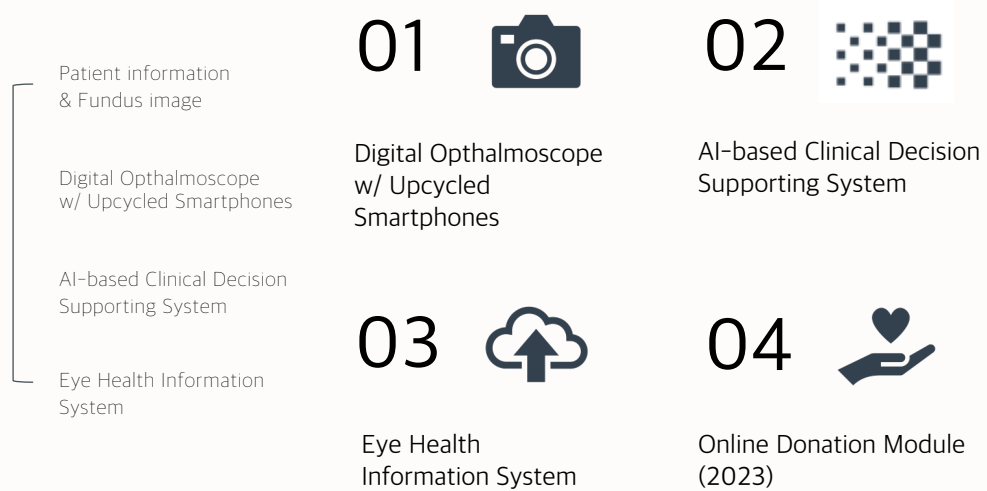
UN SDGs Targeted.

Our core business area is directly aligned with the UN Sustainable Development Goal 3 'Good Health and Well-being'. Our goal for healthcare access directly contributes to attaining the SDGs Target 1, 3, and our goal for reducing waste while promoting health of the community also contributes to reaching the SDGs target 12, 13 and 17.

EYELIKE™ Platform.

EYELIKE™ Platform is the first comprehensive solution with combination of an ophthalmoscope, AI-CDSS, and Information System. Moreover, the device is 1/50 price of the conventional fundus camera and 1/20 to 1/5 price of other competing handheld devices thanks to its borrowed essential functions of ocular imaging devices from upcycled smartphones.

LabSD's EYELIKE™ Platform is composed with following 4 parts.



EYELIKE™, the most efficient way to collect quality fundus images in resource limited conditions.

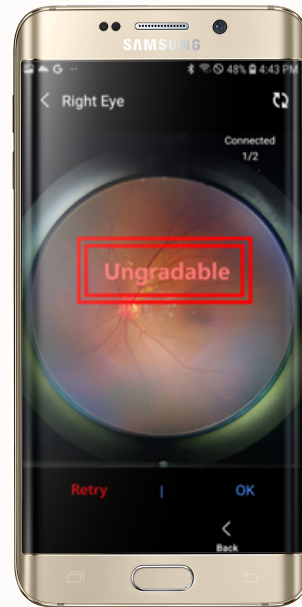
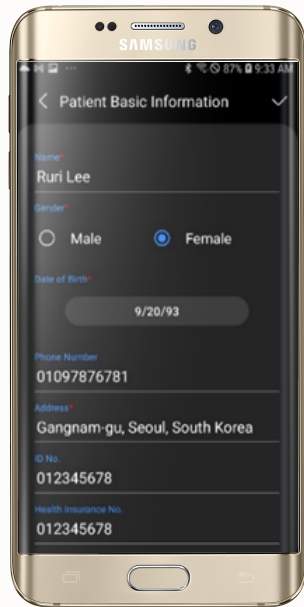
A unique and affordable diagnosis camera, EYELIKE™ can screen patients for conditions that may lead to blindness, including diabetic retinopathy, glaucoma, and age-related macular degeneration.



Obtaining high-resolution fundus images via EYELIKE™ Platform and analyzing the images for ophthalmic diseases in under-resourced areas.

Support Field Diagnosis

The host device uses an artificial intelligence (AI) system to process the images it receives and then sends them to an app that captures patient data.



Data Exchange

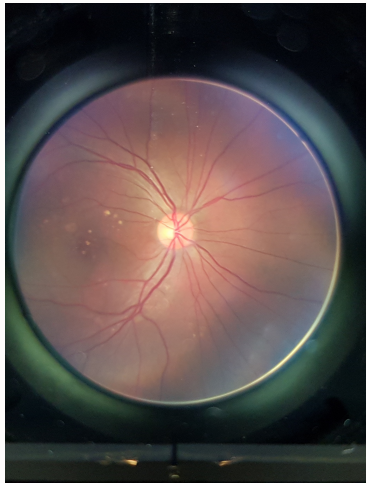
Hospital/NGOs

Connects to an app that accurately captures patient data and suggests a treatment regimen at a fraction of the cost of commercial instruments.



Global Outreach.

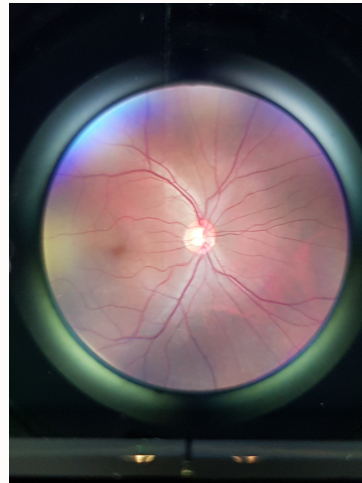
LabSD, Inc. is currently piloting EYELIKE™ platform in 5 countries including India and Vietnam, in collaboration with IAPB, Samsung Electronics, and Project BOM of the Yonsei Health System along with other prestigious organizations that are concerned with community eye health.



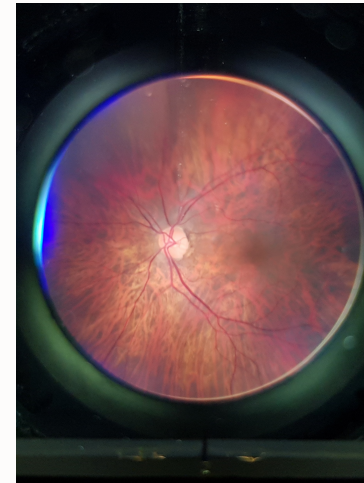
Age-related Macular Degeneration



Diabetic Retinopathy



Glaucoma



Myopic Fundus

**Fundus images
collected from
Sitapur Eye Hospital
in India.**

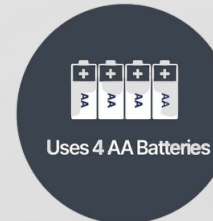
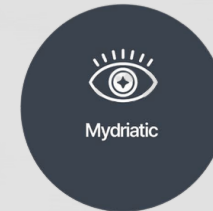


Device Specification.

EL-OPH001 Digital Ophthalmoscope (NM)



A unique and affordable digital ophthalmoscope.



Our Partners.

Upcycling



Product · Service · Technology



Global Strategy · Implementers



Accelerators · Investors





www.labsd.net

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