عيناي
EYENAI

EYENAI

A pioneering vision from the Kingdom of Saudi Arabia

July 2025

SDAIA
الهيئة السعودية للبيانات والذكاء الاصطناعي
Saudi Data & AI Authority

SDAIA الهيئة السعودية للبيانات والذكاء الاصطناعي Saudi Data & AI Authority
مستشفى الملك خالد التخصصي للعيون King Khaled Eye Specialist Hospital
Lean
SCAI

Agenda

- Introduction to SDAIA
- The Healthcare Challenge
- The Vision Behind EYENAI
- EYENAI Overview
- Impact
- What is next

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The Kingdom has an ambitious direction driven by Vision 2030, where data and AI play a critical role

To achieve the aspirations of Vision 2030 and become a leading digital economy, KSA has to maximize the value derived from data & AI.

SDAIA's key role is to drive and own the national Data and AI agenda

Set the nationwide strategic direction of data and AI

Define the nationwide strategic direction of data and AI

Guide the execution of the strategy with government entities

Support and guide different entities in strategy execution, without hindering their current data and AI plans

Facilitate the execution of strategy initiatives

Assist entities' EPMOs in the execution phase

Execute SDAIA+ led initiatives

Achieve and fulfil SDAIA+ initiatives such as data consolidation and regulation

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الهيئة السعودية للبيانات والذكاء الاصطناعي
Saudi Data & AI Authority

Saudi Data & AI Authority (SDAIA)

National Data Management Office (NDMO)

Setting policies and ensuring compliance

NDMO
مكتب إدارة البيانات الوطنية
National Data Management Office

National Information Center (NIC)

Data delivery & insights

NIC
مركز المعلومات الوطني
National Information Center

National Center for AI (NCAI)

Innovation and building capabilities in AI

NCAI
المركز الوطني للذكاء الاصطناعي
National Center for AI

Since its establishment, SDAIA has accomplished several national achievements

OPEN DATA PLATFORM
منصة البيانات المفتوحة

10.2K+ Open Datasets

272 Registered Entities

استشراف

120+ Government Entities Served

51B+ Savings & Revenues Identified

NDB
بنك البيانات الوطني
National Data Bank

420+ Data Sharing Services in Data Marketplace

335 Integrated Government Systems

DEEM ديم

260 Data Centers Integrated into the Government Cloud

5.3B Estimated Savings

منصة حوكمة البيانات الوطنية
National Data Governance Platform

283 Registered Government Entities

23 Electronic Services

إحسان

4.8M Total Beneficiaries

8.6B+ Donations

توكلنا
Tawakkalna

600+ Electronic Services

33M+ Users

نفاذ

23.1M Downloads

+530 Linked Public & Private Entities

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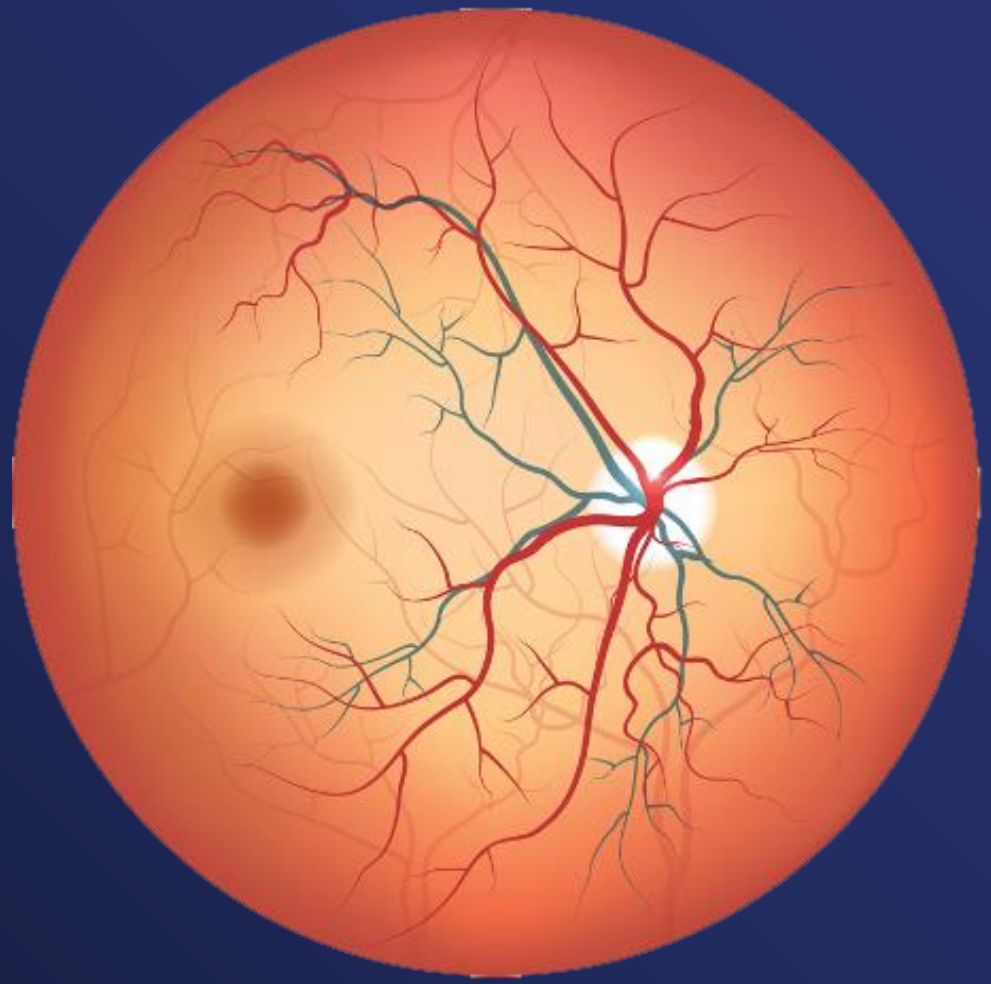
Diabetic Retinopathy is one of the leading causes of vision loss worldwide.



It often progresses silently until it's too late — making early detection essential.

Limitations of Traditional Screening

Slow – Screening often involves multiple appointments, manual data entry, and delayed lab analysis. And Results can take several days or weeks

Specialist Dependent – Relies heavily on limited ophthalmology expertise , Shortage of specialists results in screening bottlenecks and missed follow-ups.

Expensive – Requires costly equipment and infrastructure , Financial burden limits deployment to major hospitals and specialized centers only.

Middle East and North Africa (MENA)

Second most affected region

by blindness caused by diabetic retinopathy worldwide

A study published in **July 2024** in the journal **Nature** indicated that the **Middle East and North Africa (MENA)** region is the **second most affected region globally** by blindness caused by **diabetic retinopathy**.
The study recommended launching **awareness campaigns** to promote education on **diabetes management** and the importance of **regular and early eye screenings**.

4.2 Million

Diabetes patients in **Saudi Arabia** are at risk of developing diabetic retinopathy.

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SDAIA's response

in partnership with government entities:

Developed an AI-powered solution to enhance and democratize diabetic eye screening across Saudi Arabia.

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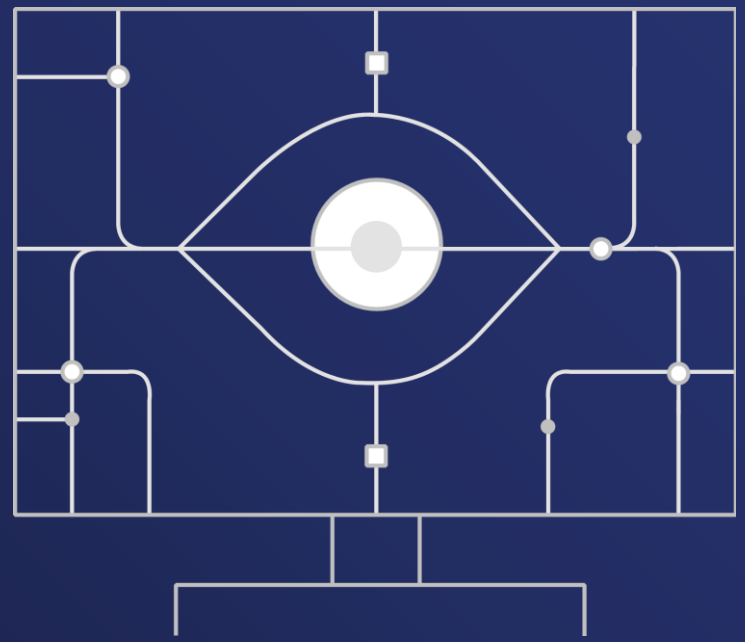
What is EYENAI ?

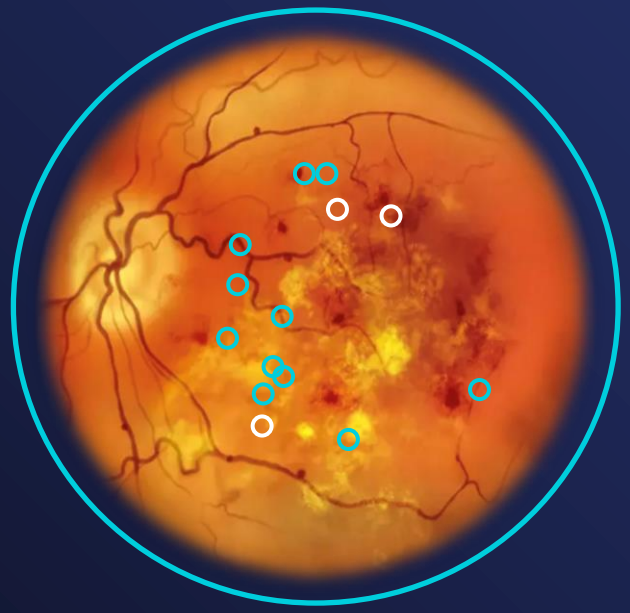
Software as a medical device.

Provides eye screening leveraging telemedicine and artificial intelligence.

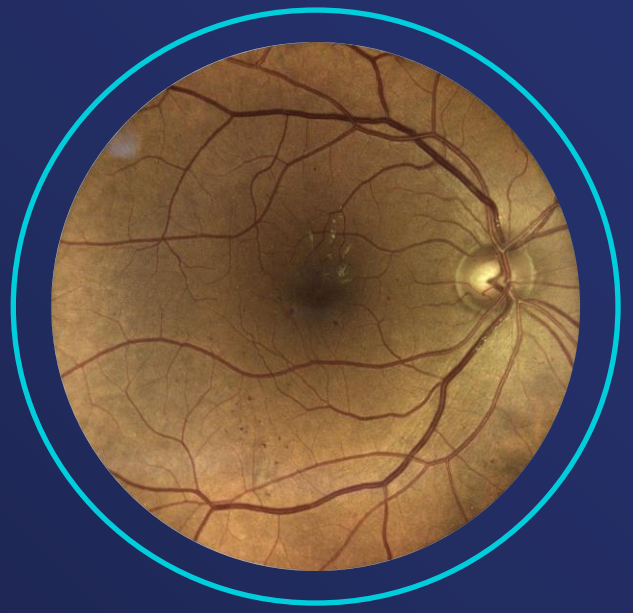
EYENAI increases the quality of eye care by improving **accuracy, reducing time, and lowering cost.**



EYENAI is the **FIRST** locally developed AI-based health solution in the Kingdom



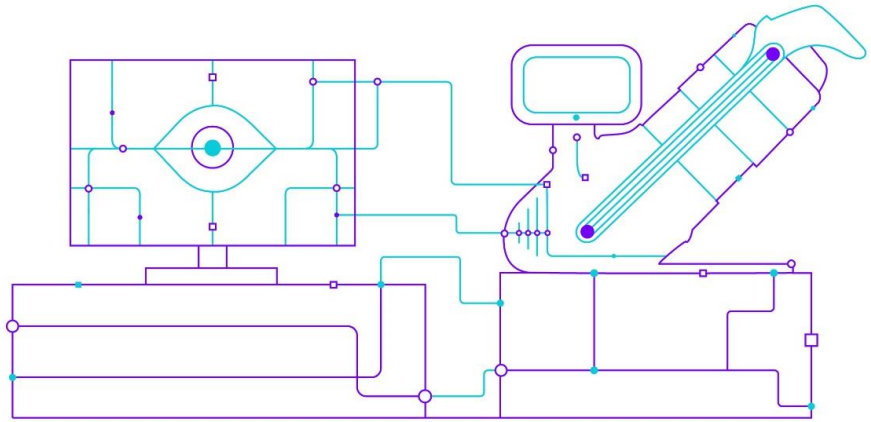
Diabetic Retinopathy

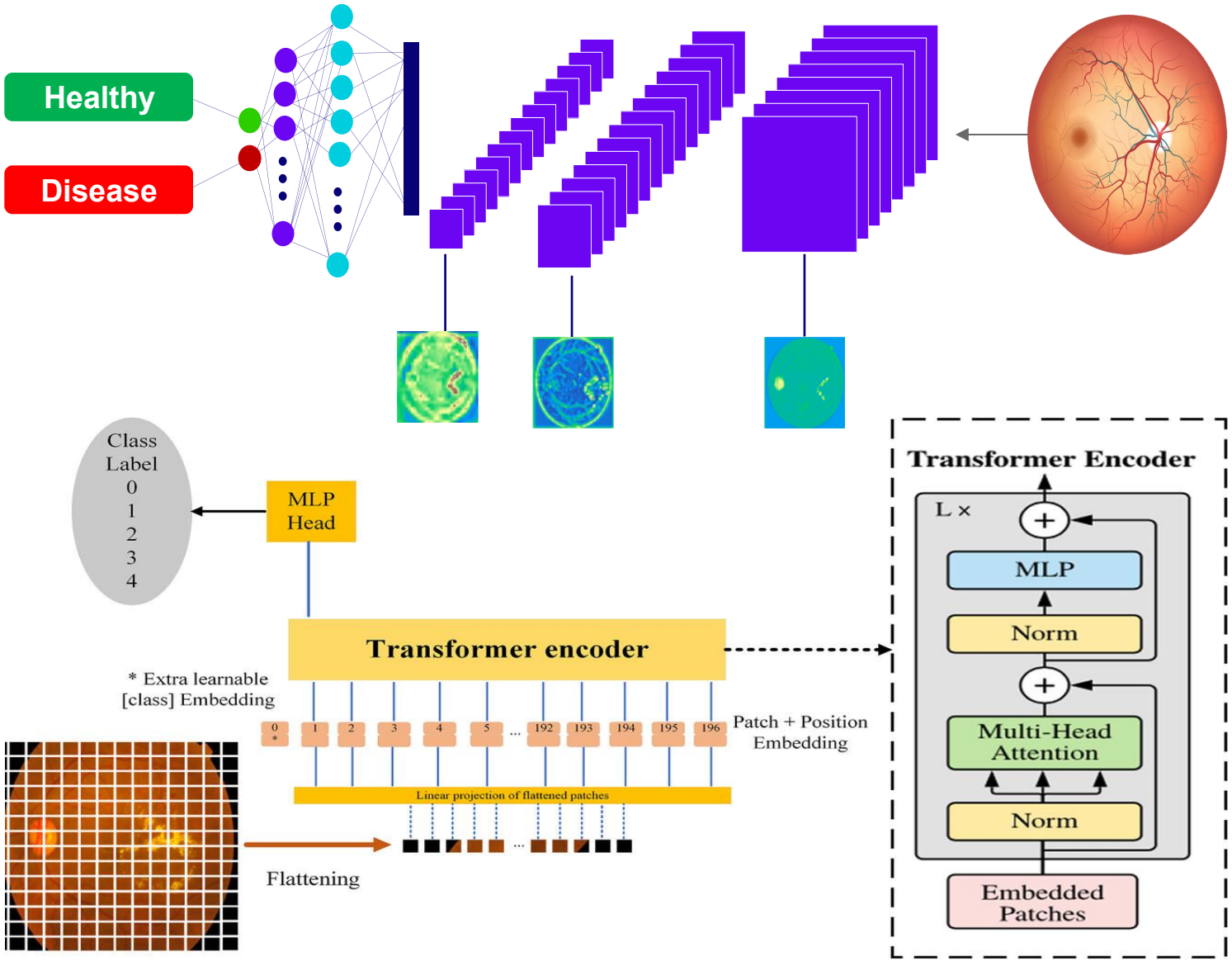


Healthy Retina

AI helps distinguish between a healthy retina and one affected by diabetic retinopathy by **identifying subtle lesions invisible to the naked eye.**

How EYENAI Analyzes Retinal Images to Detect Diabetic Retinopathy





The Backbone of Diabetic Retinopathy Screening

Manpower

Medical and technical expertise to establish and operate eye screening

Software

Online web application to manage screening locations

Artificial Intelligence

AI powered image analysis within a controlled environment

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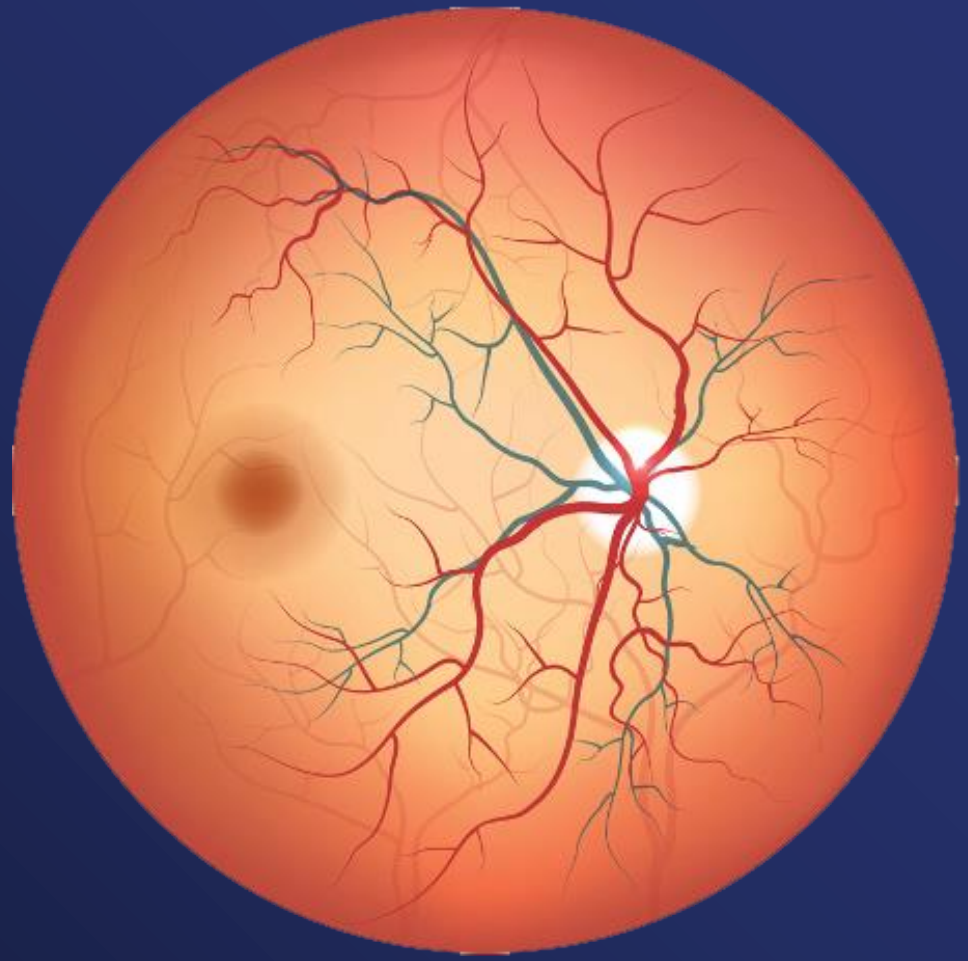
+1,900

EYES SAVED

Since inception, more than 17k patients diagnosed in 15 clinics. And 1,900 patients with referable eye disease were detected using **EYENAI** and referred to an ophthalmologist



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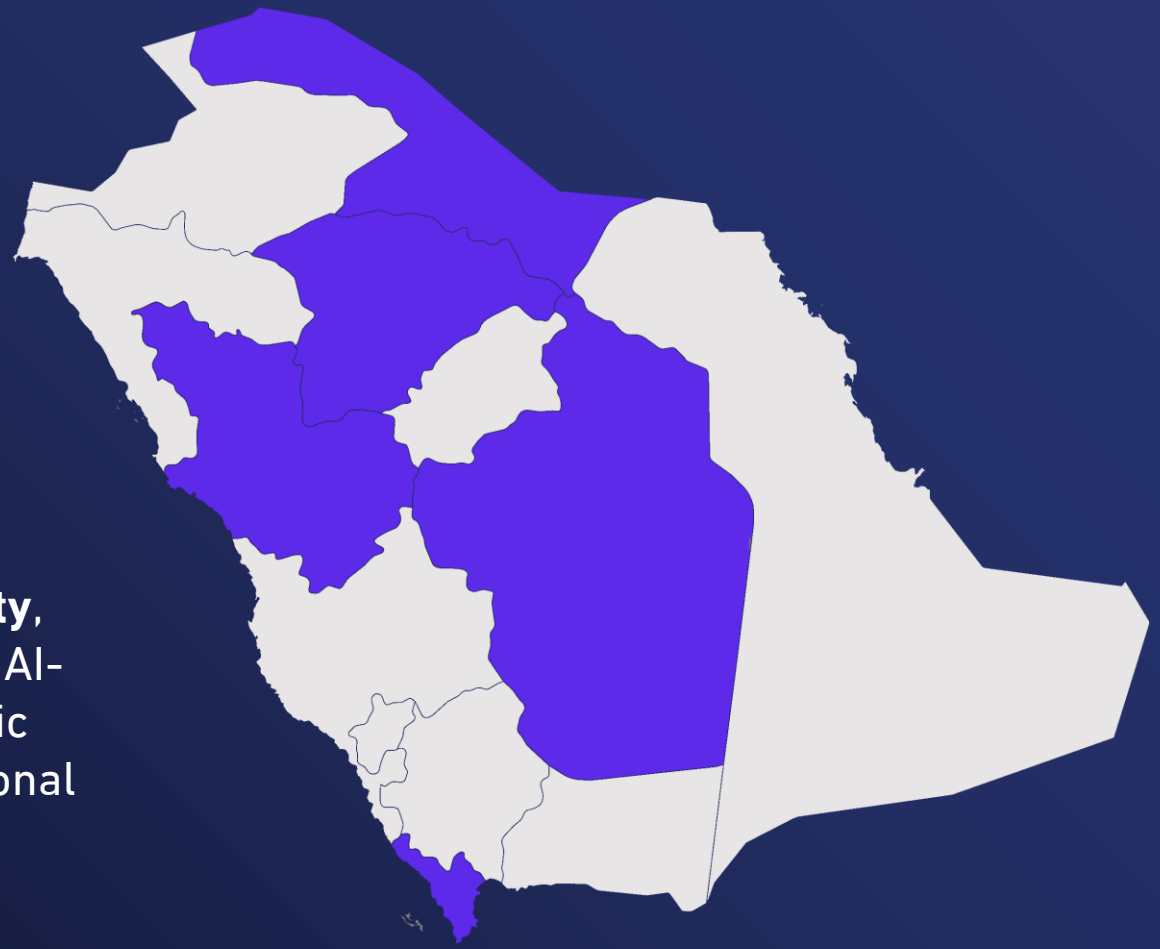
What is next

+400

AI-integrated screening cameras across Saudi Arabia

In partnership with the **Saudi Food and Drug Authority**, we are expanding clinics and building more than 400 AI-enabled imaging cameras to reach **4.2 million** diabetic patients annually—making vision preservation a national reality.



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Thank you

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