



From Hype to Ripe

Implementing AI in Health Systems

Yael Ophir, HealthIL



A DIFFERENT PERSPECTIVE



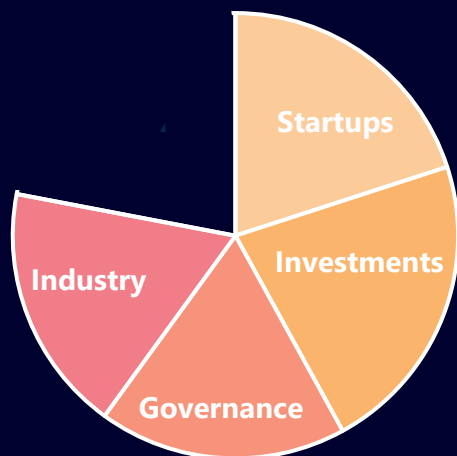
WE ARE HealthIL

**We Empower Health Systems by
Building Innovation Management
Infrastructure, and Connecting them to
the right Tech Solutions and Startups**

>> To benefit citizens and governments worldwide

ISRAEL USE CASE

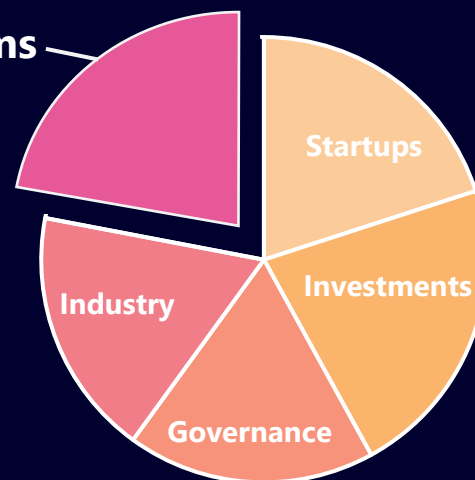
Innovation Management as the Missing Link



**BEFORE
2018**

Sector Stagnation

Innovation
Management
in Health Systems



**AFTER
2018**

Rapid Transformation

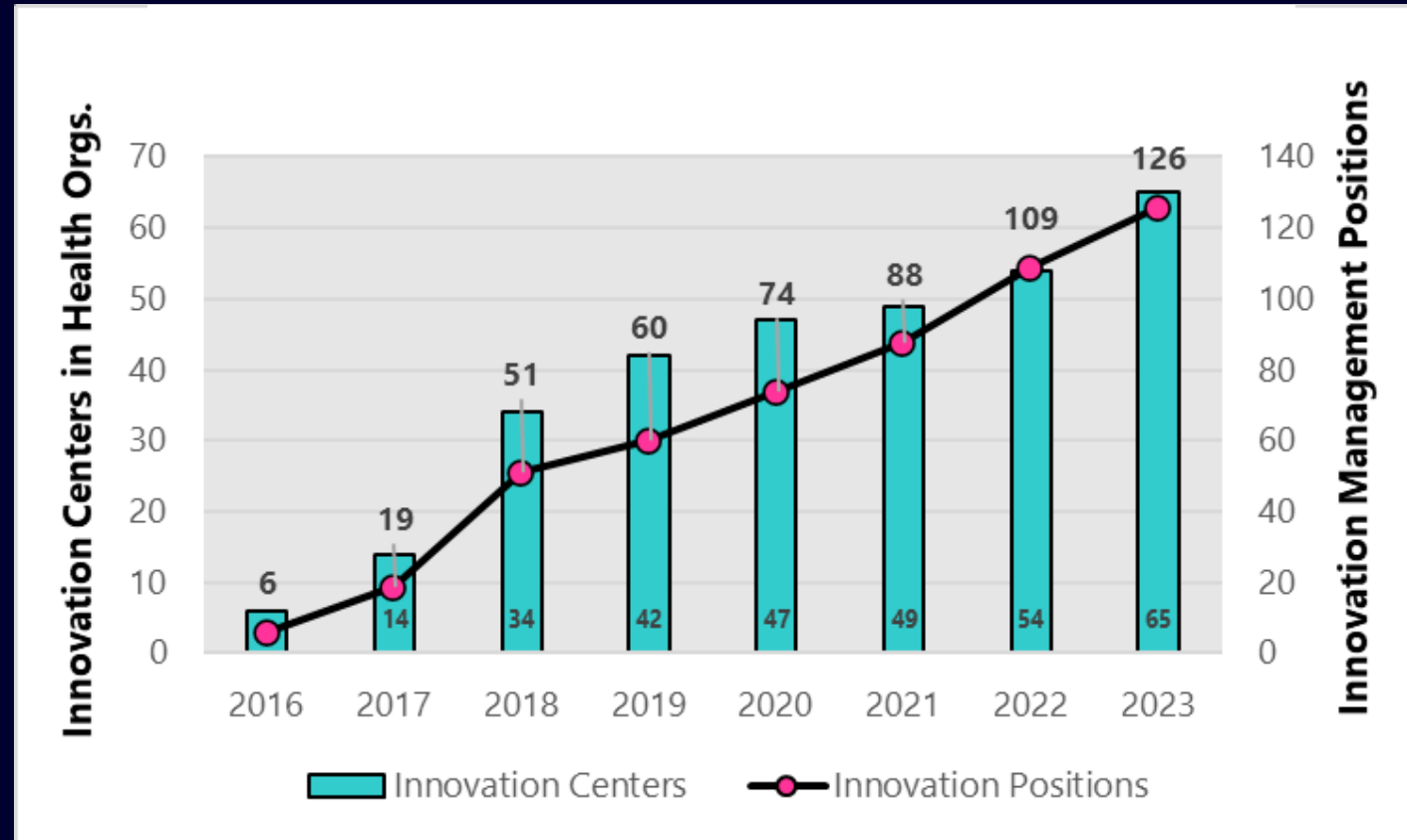
**10-FOLD INCREASE
IN PILOTS w/STARTUPS**

**INCREASED
GOV FUNDING**

**SHIFT FROM PILOTS
TO IMPLEMENTATION**

Healthcare Innovation Growth in Israel

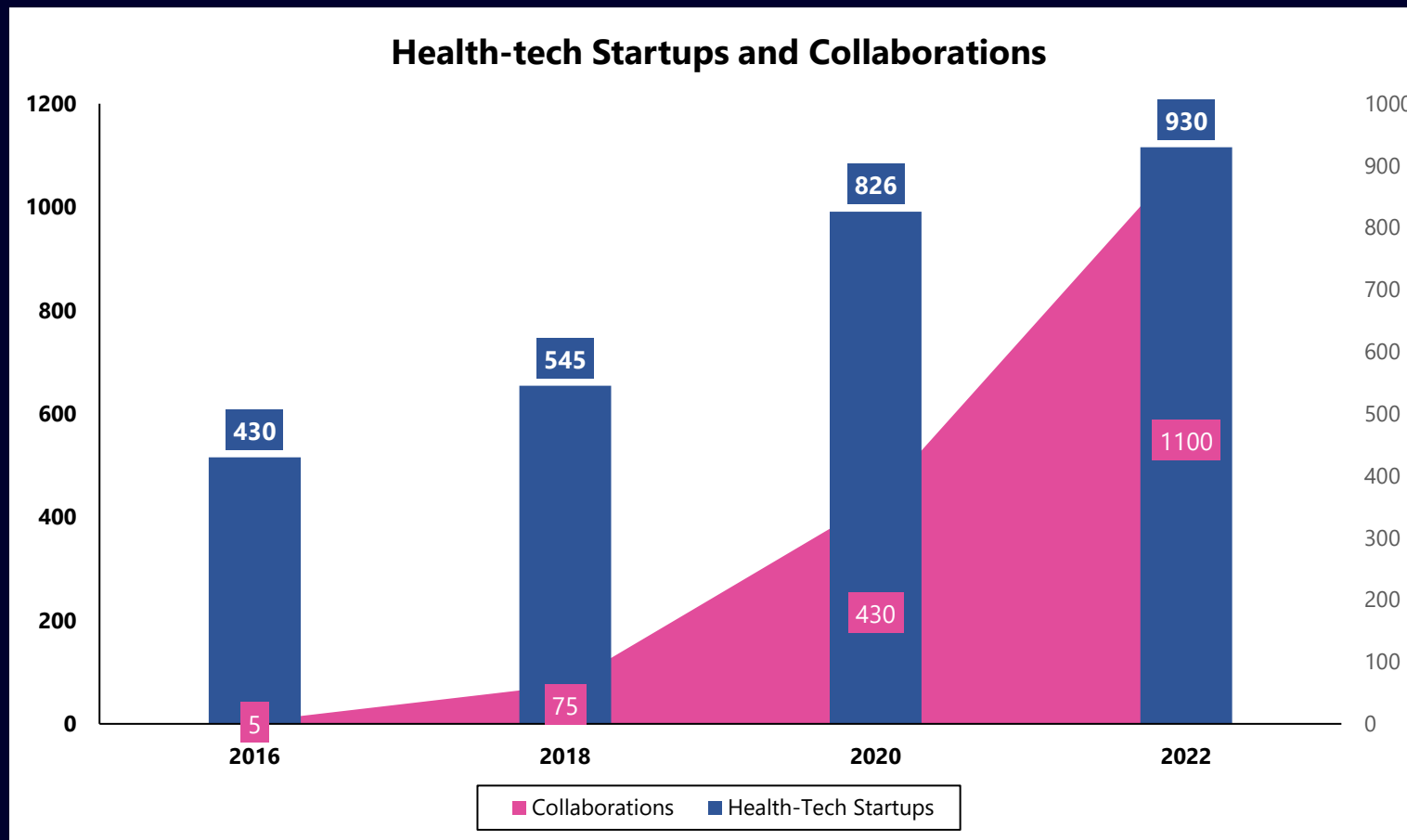
HealthIL: Developing Innovation Management in Israel



HealthIL database

HealthIL: Driving Collaborations with Startups

Innovation Management is the "missing link" needed to increase collaborations



HealthIL database & collaboration surveys



HealthIL

Transforming Healthcare

A **UNIQUE** PERSPECTIVE TO HEALTHCARE



Empowering
**Innovation
Management**
in Health
Organizations

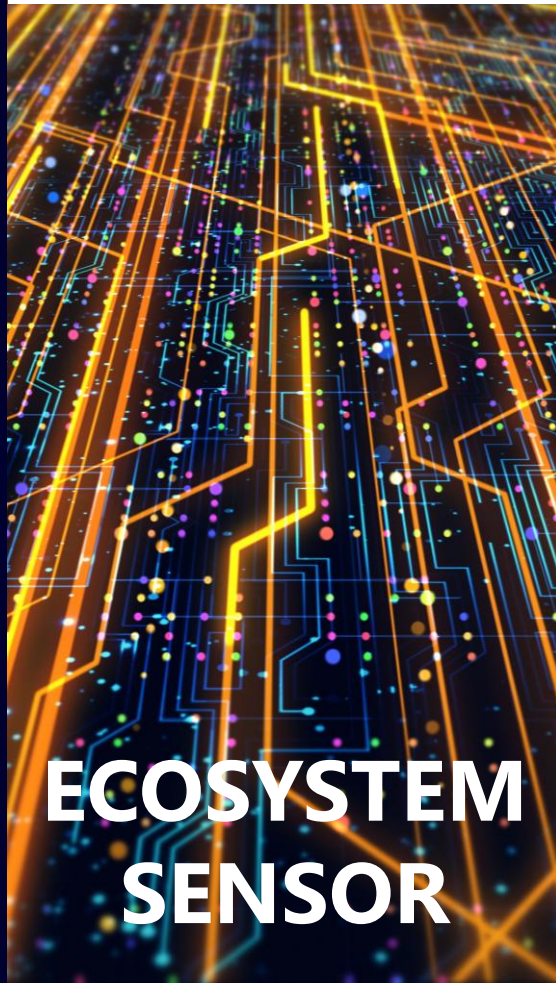
Fostering
**Effective
Collaborations**
with Startups and
Innovative
Technologies

Supporting
Transformation in
Healthcare
Through
**Policy and
Infrastructure**

Connecting Ecosystems Worldwide
to Leverage Healthcare Assets

A CRITICAL ROLE IN ECOSYSTEM GROWTH

**45 Original Reports,
Tools and Articles**



**ECOSYSTEM
SENSOR**

**750M ILS Health Gov
Budget Support [65%]**



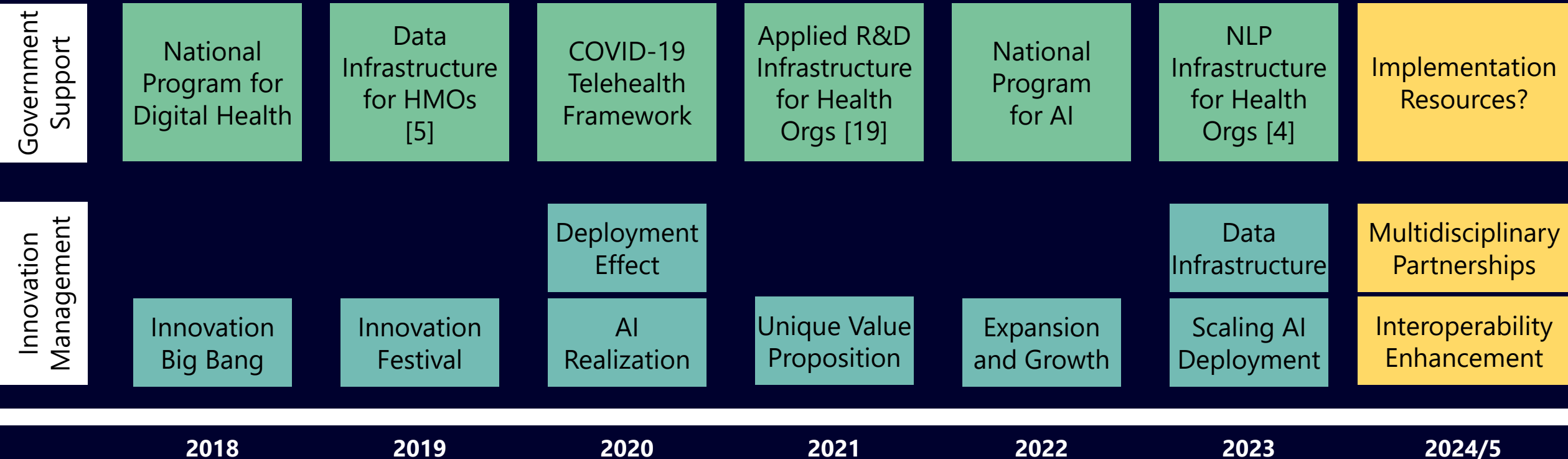
**GOV
ENHANCER**

**300+ International
Network Partners**



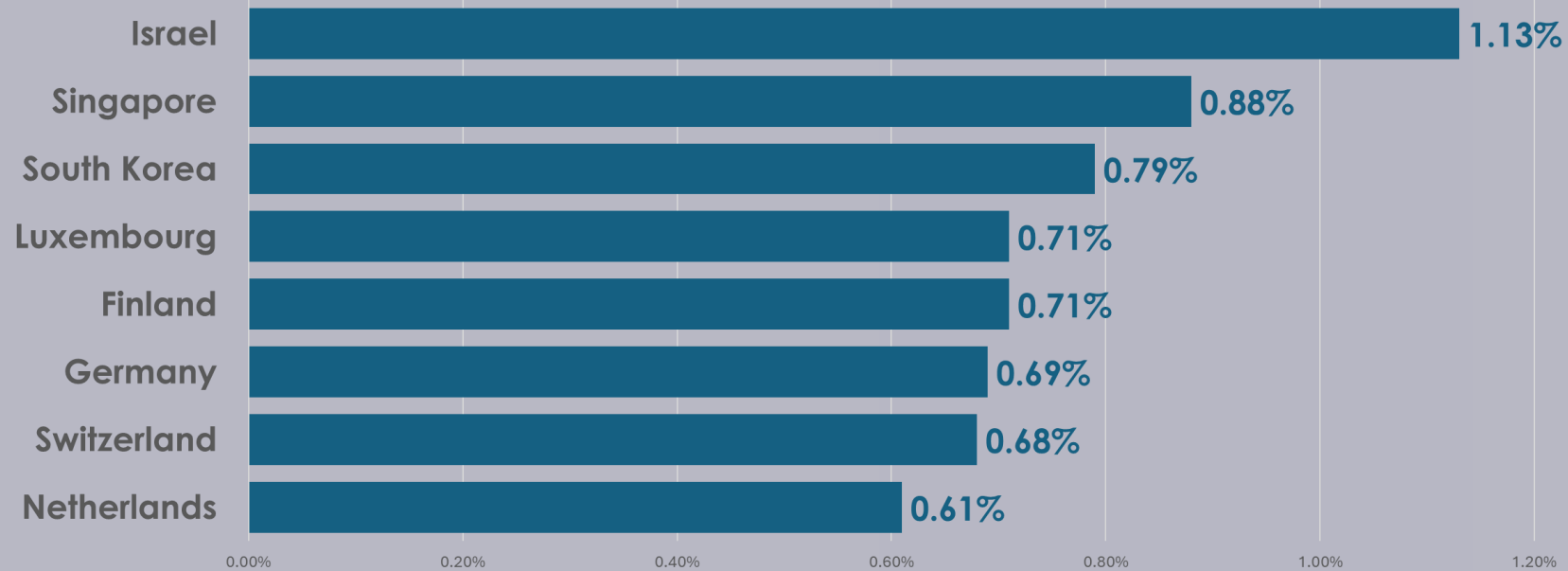
**GLOBAL
GATEWAY**

INNOVATION INFRASTRUCTURE & AI



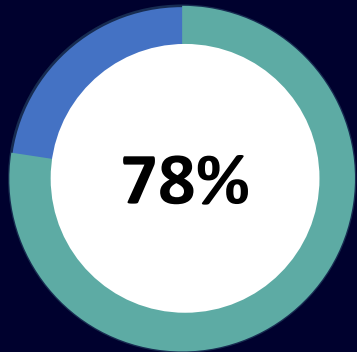
AI talent concentration by geographic area, 2023

Source: LinkedIn, 2023 | Chart: 2024 AI Index report

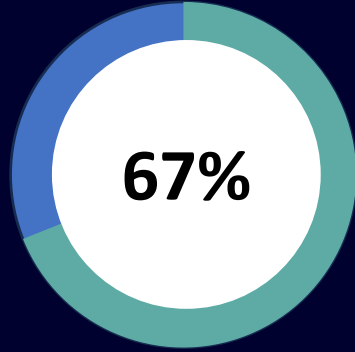


AI COMPONENTANTS OF STARTUP COMPANIES

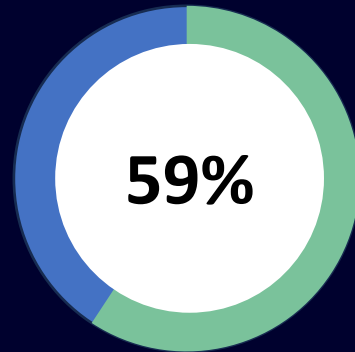
1,092 Startups



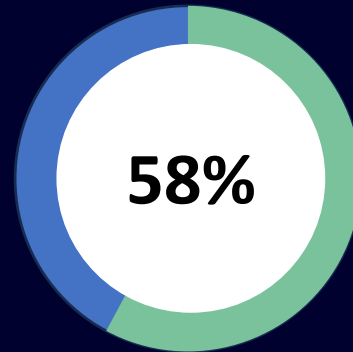
Predictive Analytics



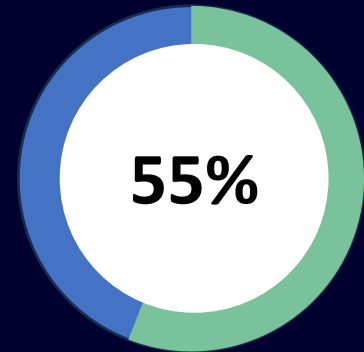
Imaging



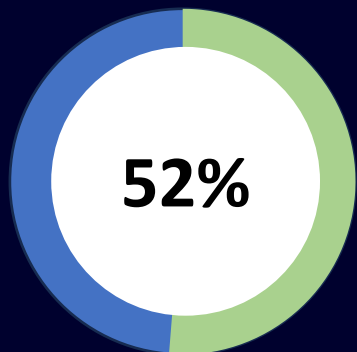
Population Health Management



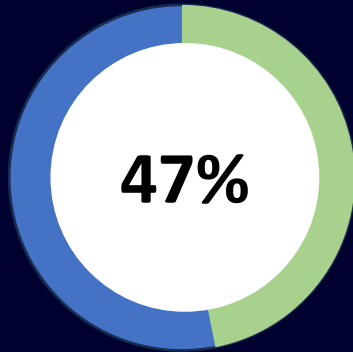
Diagnostics



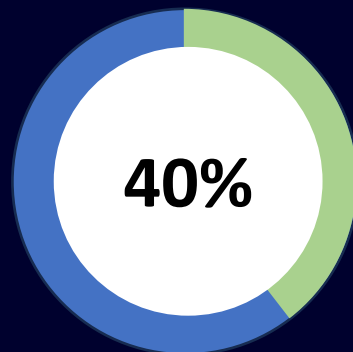
Data Integration



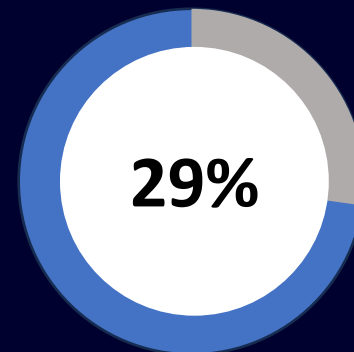
Telehealth



Patient Engagement



Cyber/Security/Privacy

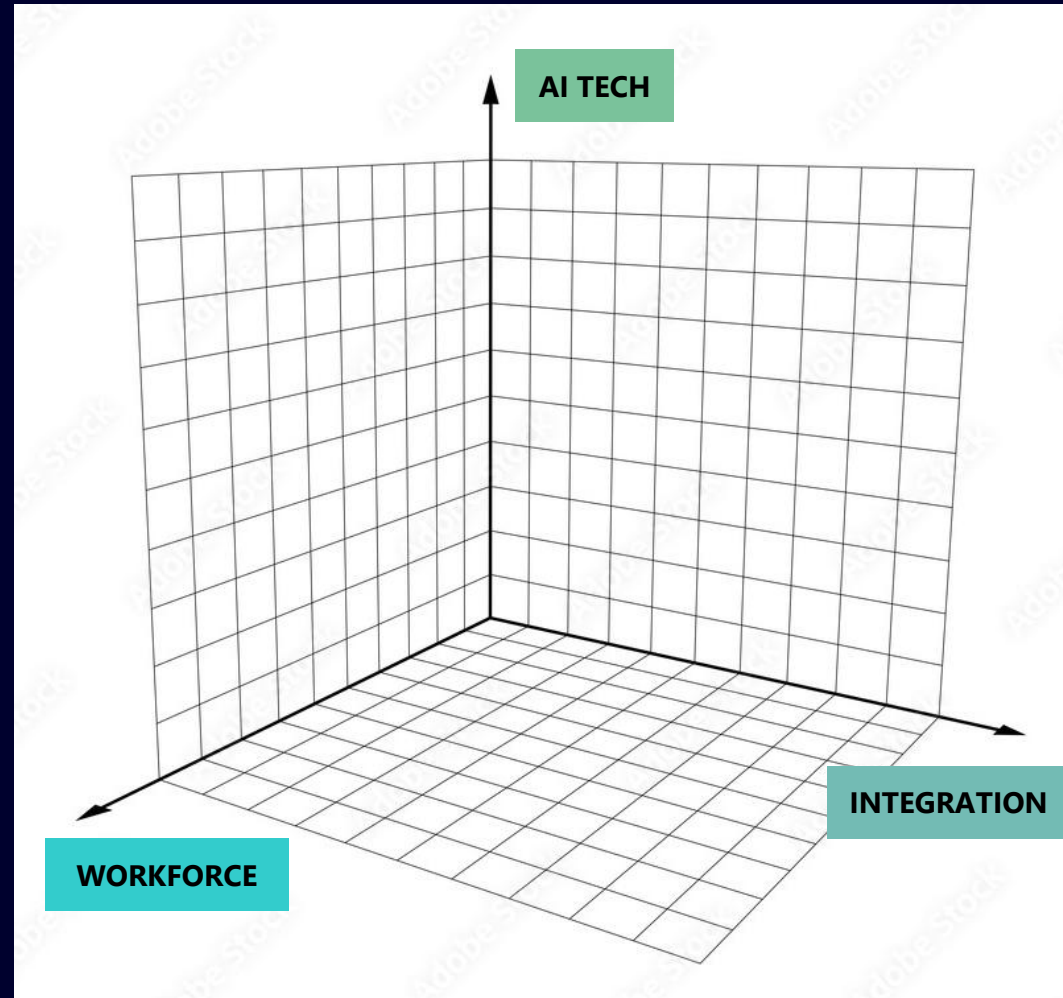


Treatment

3 DIMENSIONS AFFECTING AI IMPLEMENTATION

AI TECH	INTEGRATION	WORKFORCE
ML SUPERVISED	IT & EHR	CHANGE & RESISTANCE
ML UNSUPERVISED	DATA STANDATIZATION	TRAINING, EDUCATION
DEEP LEARNING	SYSTEM CONNECTIVITY	SEAMLESS OPERATION
DEEP NEURAL NETWORK	CLOUD POLICY	INNOVATION ENAVBLERS
GENERATIVE AI	LEGAL & REGULATION	INCENTIVES
...

3 DIMENSIONS AFFECTING AI IMPLEMENTATION



EXAMPLES OF AI IMPLEMENTATION



**NEARLY
REAL-TIME
INTERVENTION**
GALILEE MC



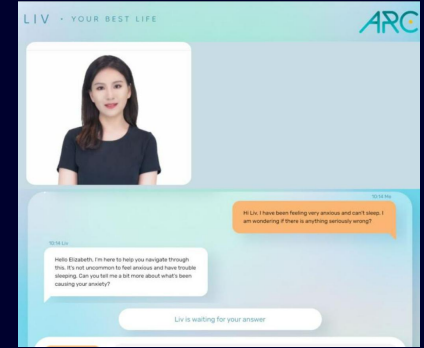
**EARLY DETECTION
OF CANCER
(OSCC)**
TZAFON MC



**NATION-WIDE
DECISION
SUPPORT TOOL**
CLALIT HC

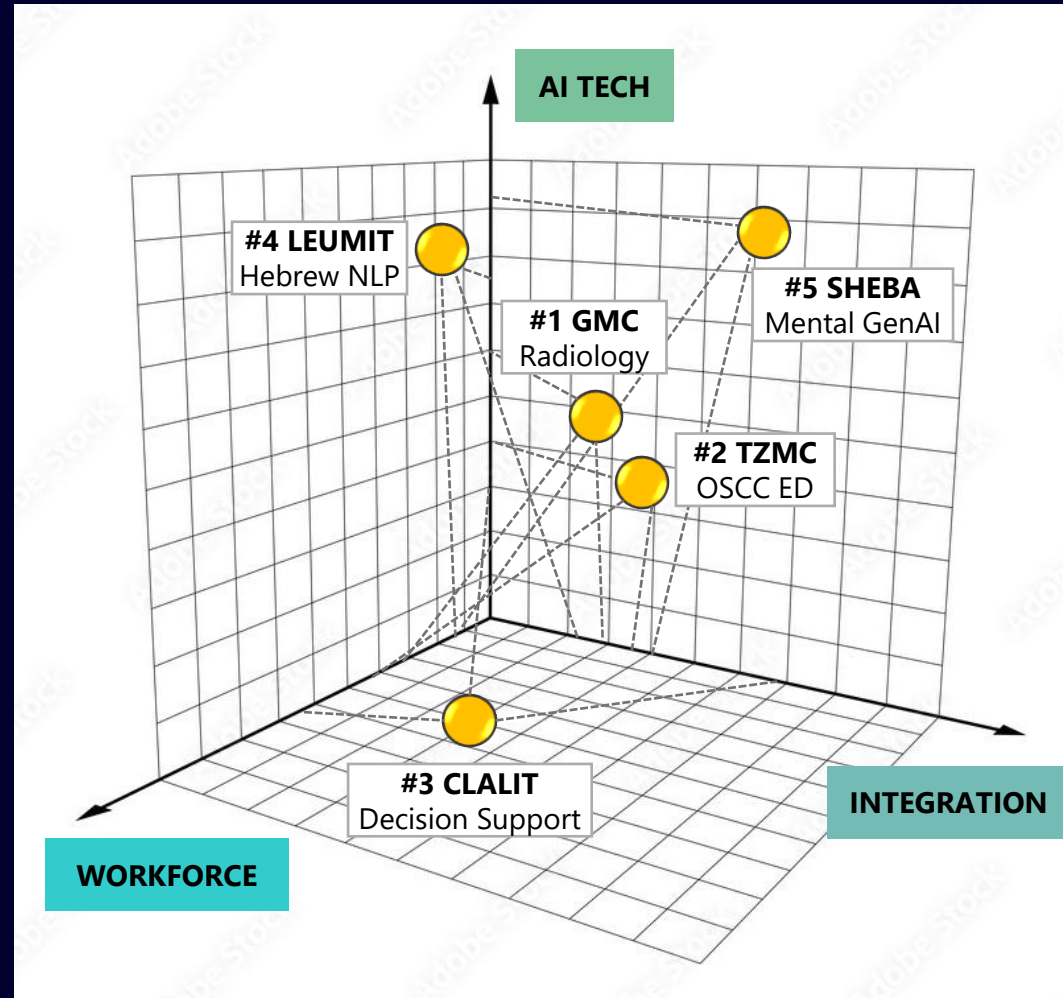


**NLP
IN HEALTHCARE
IN HEBREW (!)**
LEUMIT HC



**GENERATIVE AI
FOR MENTAL
HEALTH**
SHEBA MC

3 DIMENSIONS AFFECTING AI IMPLEMENTATION



NEARLY **REAL-TIME** INTERVENTION



health

exposure

For the first time in Israel: artificial intelligence saved the life of a patient in Nahariya hospital

The patient was directed to undergo a non-urgent brain CT scan • Immediately after the test, a unique application that is only installed at the Galilee Medical Center in Nahariya recognized that he was suffering from a cerebral hemorrhage • He was rushed to surgery and his life was saved • The "hospital: "We will be the first in Europe to use it to manage trauma cases

An AI-enhanced platform detecting Life-Threatening Diagnoses through imaging

Promptly alerts and distributes critical data to physicians for immediate intervention, Designed for the management of complex emergency scenarios

This cloud-based system is accessible on mobile devices for a broad spectrum of medical professionals

NATION-WIDE DECISION SUPPORT TOOL

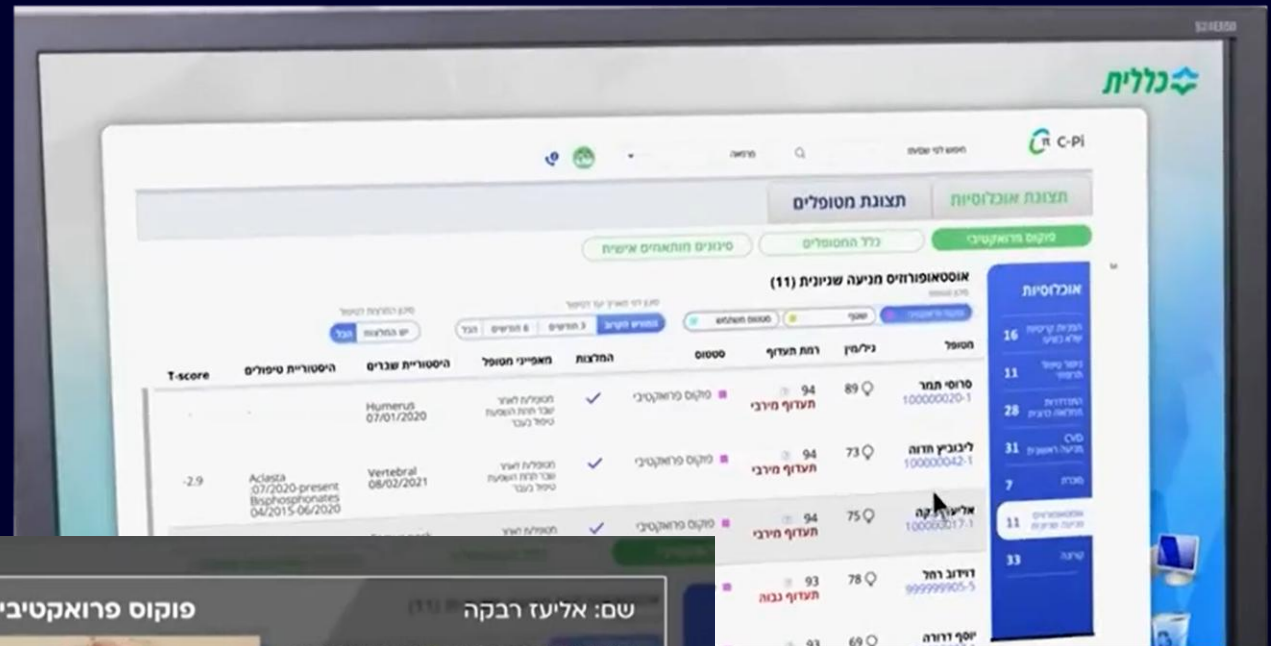


AI platform for general practice in primary care

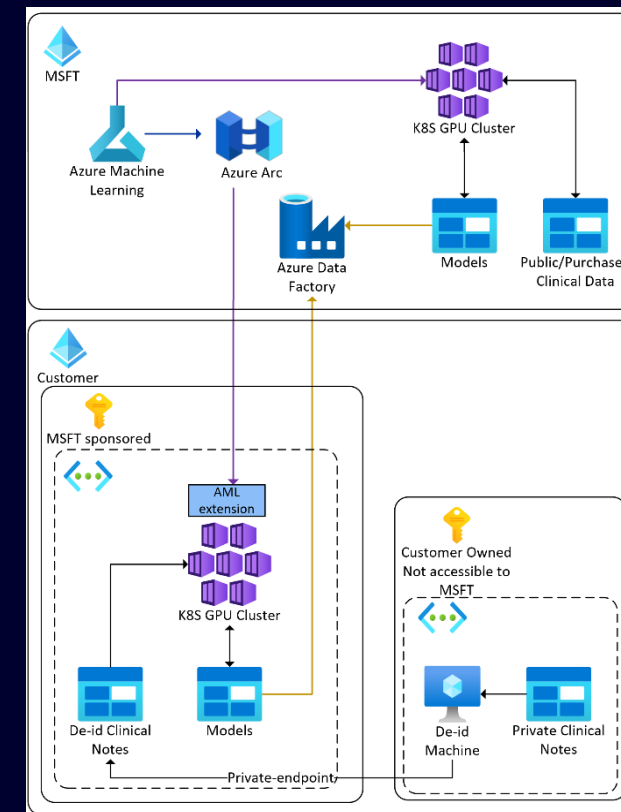
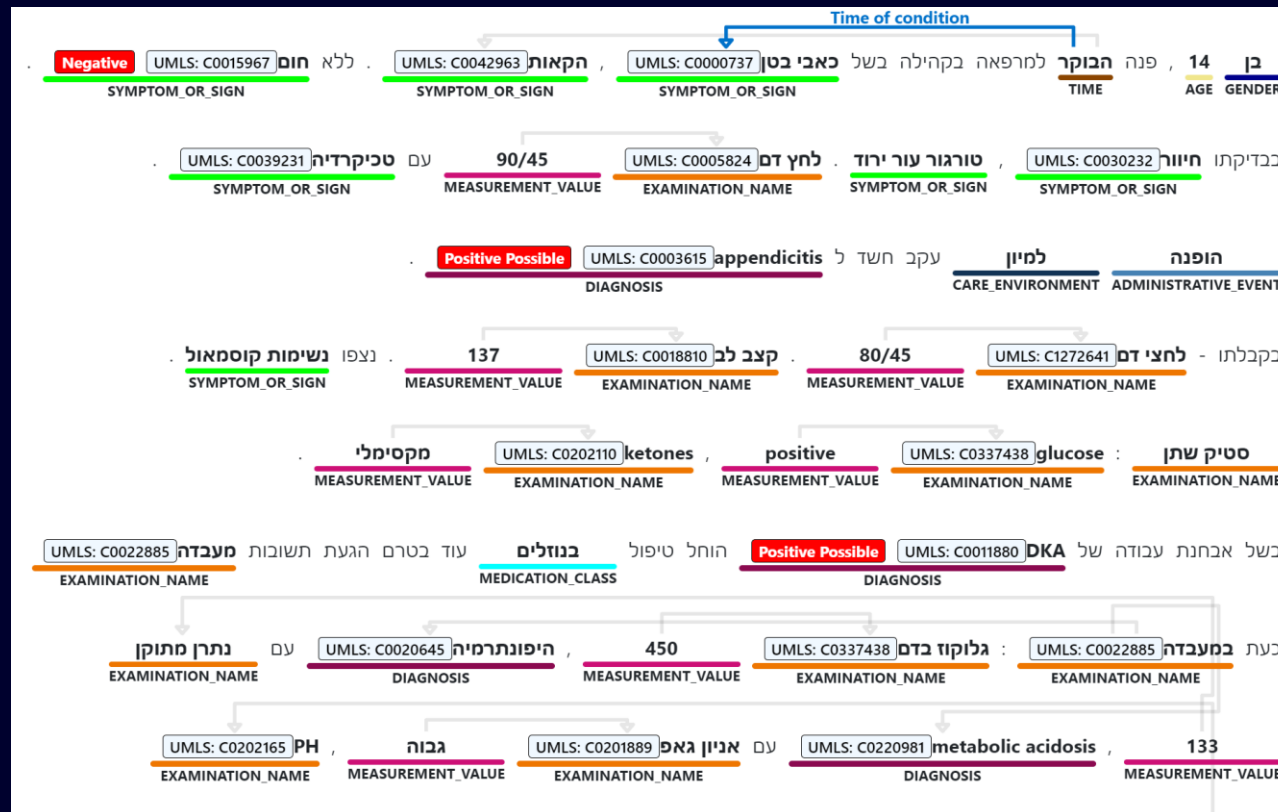
This system provides every physician with an easily accessible, one-screen interface that offers fully explainable AI insights

Nothing is a black box. Every recommendation is broken down to the medical logic behind it, allowing physicians to trust it gradually

- > Proactive appointments
- > Treatment adjustment



NLP IN HEALTHCARE IN HEBREW



GENERATIVE AI FOR MENTAL HEALTH



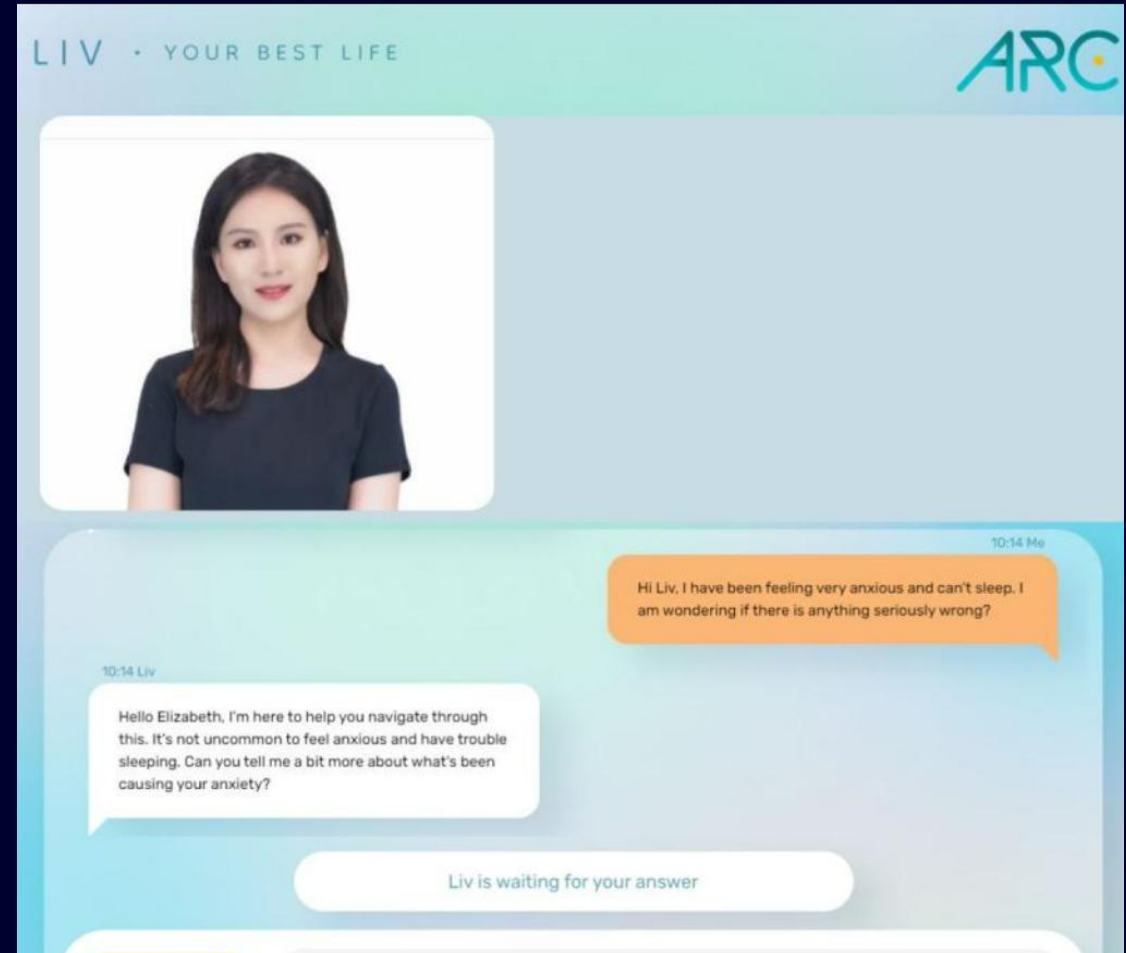
tech12 / economy

The conversation with the chatbot will check if you have developed post-trauma from the war

Microsoft Israel Research and Development employees, who wanted to help the rehabilitation effort from the events of October 7, developed a chatbot that performs an initial diagnosis of post-trauma victims • The development replaces the closed questionnaires with a free language conversation in the ChatGPT style, which according to the researchers was found to be more effective • The chairman of the National Council for Post-Trauma Prof. Eil Fruchter: "A quick diagnostic tool could help in targeting the "target populations and adjusting the therapeutic response

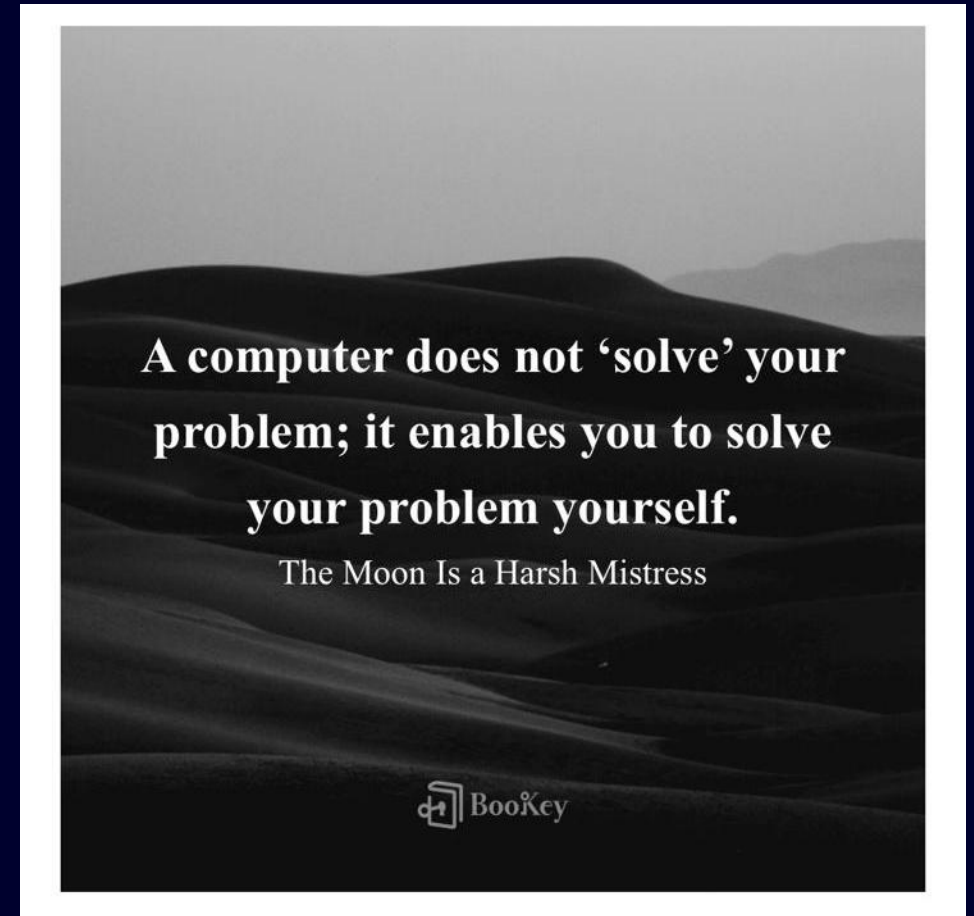
16:32 Updated 01/23/24 | 15:18 Published 01/23/24 | N12 | Shay Ringel 

4  printing  6,514 



MY TAKE HOME MESSAGE

- ✓ Taking into consideration the **3 dimensions** while planning a deployable AI solution
- ✓ Nation-wide **capacity-building** programs could serve as a key catalyzer and innovation sensor





HealthIL
Digital Health Community

Contact Us Boost your Transformation

yaelo@healthil.org | HealthIL.org

