

Building the Bridge to a Bold Tomorrow

Smart Health: Real-World Impacts of AI and Technology
on Physical Well-Being

Siddika Demir

Engineer • Board Director • Advocate • Entrepreneur



| The Scale of the Challenge

Every year, many lives are lost to or impacted by conditions that are detectable through modern AI and mobile technology.

342k

Annual Cervical
Cancer Deaths

3.0M

Global Neonatal
Deaths

55M*

Living with Dementia
(2/3 Women)

190M

Women with
Endometriosis/PCOS

* Underestimated






The Proactive Shift

Moving from Reactive Crisis to Predictive Wellness

Early Cervical Detection

MobileODT EVA System

A handheld smart colposcope that brings diagnostic power to any community health worker.

-  **10-15 Year Warning:** Detects pre-cancerous lesions long before symptoms.
-  **90%+ Accuracy:** Outperforms traditional pap smears at the point of care.
-  **Accessible:** Deployed in 40+ countries with no lab required.



Preventing Newborn Brain Injury

Ubenwa AI Cry Analysis

Developed in Nigeria to solve the 3 million annual neonatal death crisis.

- ⌚ **6-Hour Window:** Preserves the critical window for life-saving cooling therapy.
- 🎤 **92.5% Accuracy:** Detects birth asphyxia from a 10-second cry recording.
- 📱 **Smartphone Only:** Zero hardware cost for rural clinics.



Dementia: Voices for Early Warning

Winterlight Labs

Co-founded by women, this Voice AI analyzes speech patterns to detect neurodegeneration 15–20 years early.

The Proactive Power

40% of dementia cases are preventable through modifiable risk factors if detected during the asymptomatic phase.

A 1-minute voice sample is the key.

Reproductive Health Equality

Clue - Closing the Diagnosis Gap

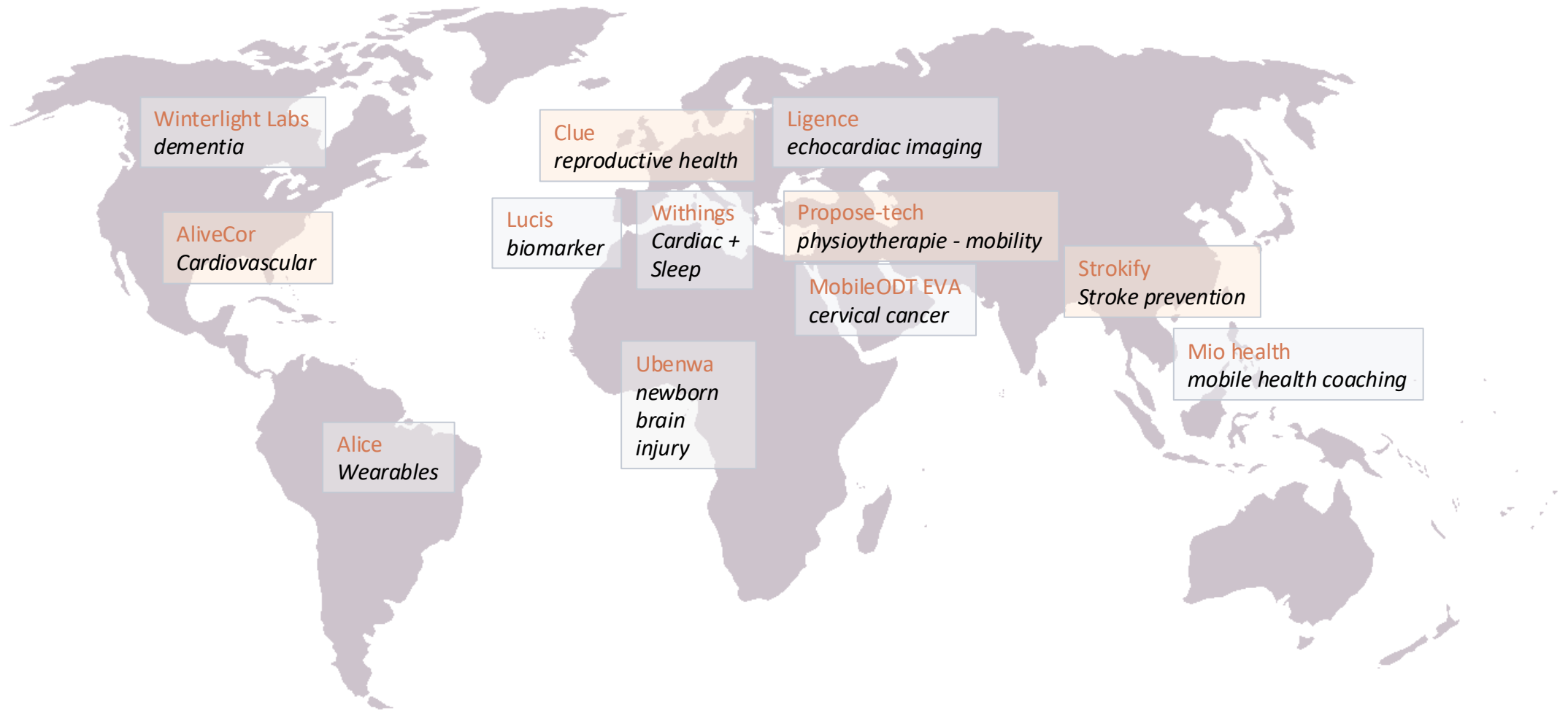
Conditions like Endometriosis and PCOS often face a 7–10 year diagnosis delay.

Technology collapses this timeline.

- ✔ **Global Reach:** Free and available in 190+ countries.
- 📈 **Data-Driven:** Identifies perimenopause and hormonal patterns proactively.

Innovation without Boundaries

independent of geography, borders, races, cultures, gender



 = Woman (co)founded

Measurable Impact

Individual health is priceless. Collective health has economic and social value.

6.8 billion hours of unpaid dementia care annually — mostly by daughters and wives. Worth \$233 billion.

\$1.8 billion in US lost workdays from untreated menopause symptoms

190 million women lose €9,579/yr to endometriosis — 66% in lost work

Our Action Plan for a Bold Tomorrow

INDIVIDUALS

- Download a health tracking app. Knowledge is power!
- Experiment with wearables and smartphone metrics
- Ask your doctor for a preventive screening

ORGANIZATIONS

- Audit your wellness program
- Embed preventive wellness tools
- Add mental health and menopause care to benefits

GOVERNMENTS

- Prevention as national priority
- Leverage technology to scale your healthcare services
- Invest in national electronic health records infrastructure

| Insights from an Entrepreneur

- Champion innovation and women-founded companies
- Fund startups scaling medical tech, *ensuring that modern algorithm updates are representative of women across every background*
- Data and AI will enable (predictive preemptive preventive and) personalized medicine for women faster
- Let us embrace technology and use it to our benefit. Let us be proactive!

Thank you