



Eliminating pain, reducing harm, and saving lives  
through a **paradigm shift** in breast cancer diagnosis.

---

**PEYMON GHAZI, PHD**

Co-Founder & CEO

1-916-835-0130

[www.linkedin.com/in/peymon-ghazi](https://www.linkedin.com/in/peymon-ghazi)

[peymon.ghazi@malcova.com](mailto:peymon.ghazi@malcova.com)

---

**TARA GHAZI, PHD**

Co-Founder & CBO

1-410-900-6441

[www.linkedin.com/in/taraghazi/](https://www.linkedin.com/in/taraghazi/)

[tara.ghazi@malcova.com](mailto:tara.ghazi@malcova.com)



# THE PROBLEM

## The Breast Cancer Crisis in the U.S.



**1 in 3**

breast cancers are  
diagnosed after the cancer  
has already spread.



**100,000+**

mastectomies are  
performed each year to try  
to save lives.



**43,000+**

women die from breast  
cancer every year.  
(In the U.S. alone)

*American Cancer Society Breast Cancer Facts & Figures (2024)*





# WHY NOW?

## MAMMOGRAPHY MISSES TOO MUCH

- Ineffective for 40-50% of women – women with dense breast tissue – making early detection unreliable.

## PAIN DRIVES AVOIDANCE

- 70-80% of women experience pain during mammograms.
- 20% of women do not sign up for screening because of pain.

## UNNECESSARY BIOPSIES ARE COMMON

- Women with dense breasts are 5 times more likely to receive painful, stressful, and expensive biopsies.
- 80% of biopsies are negative.

1

## The Current Standard of Care Imaging Is Failing Women

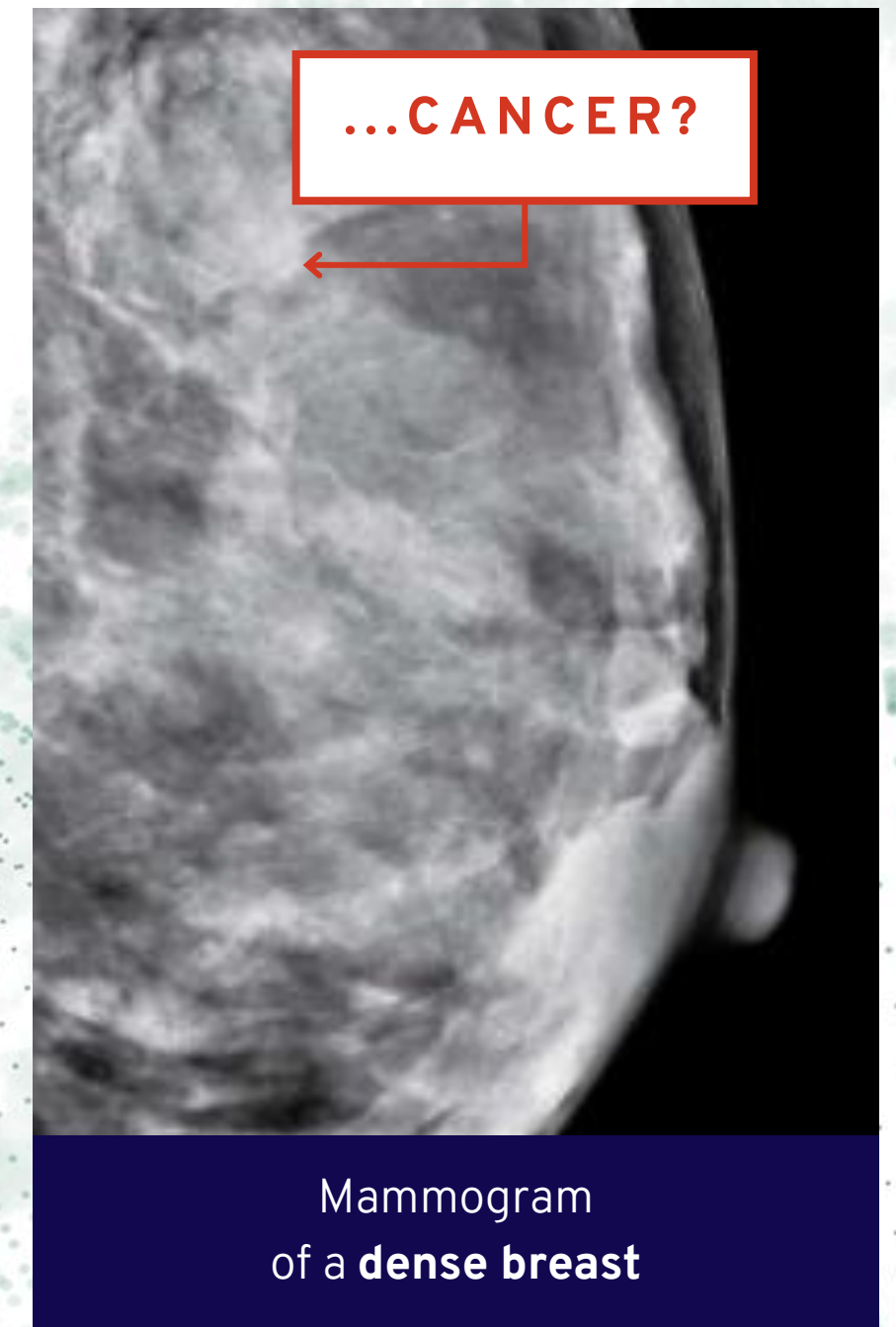
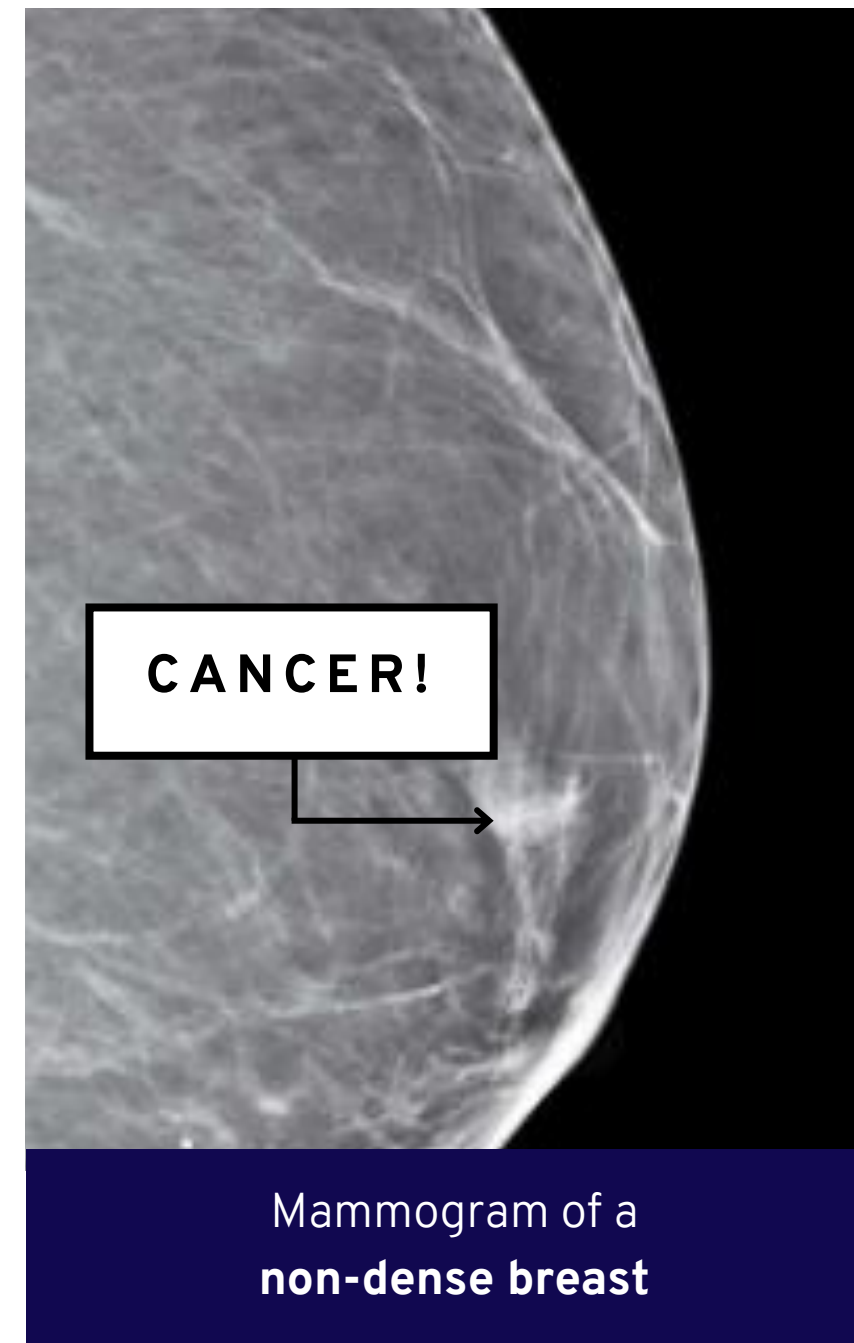
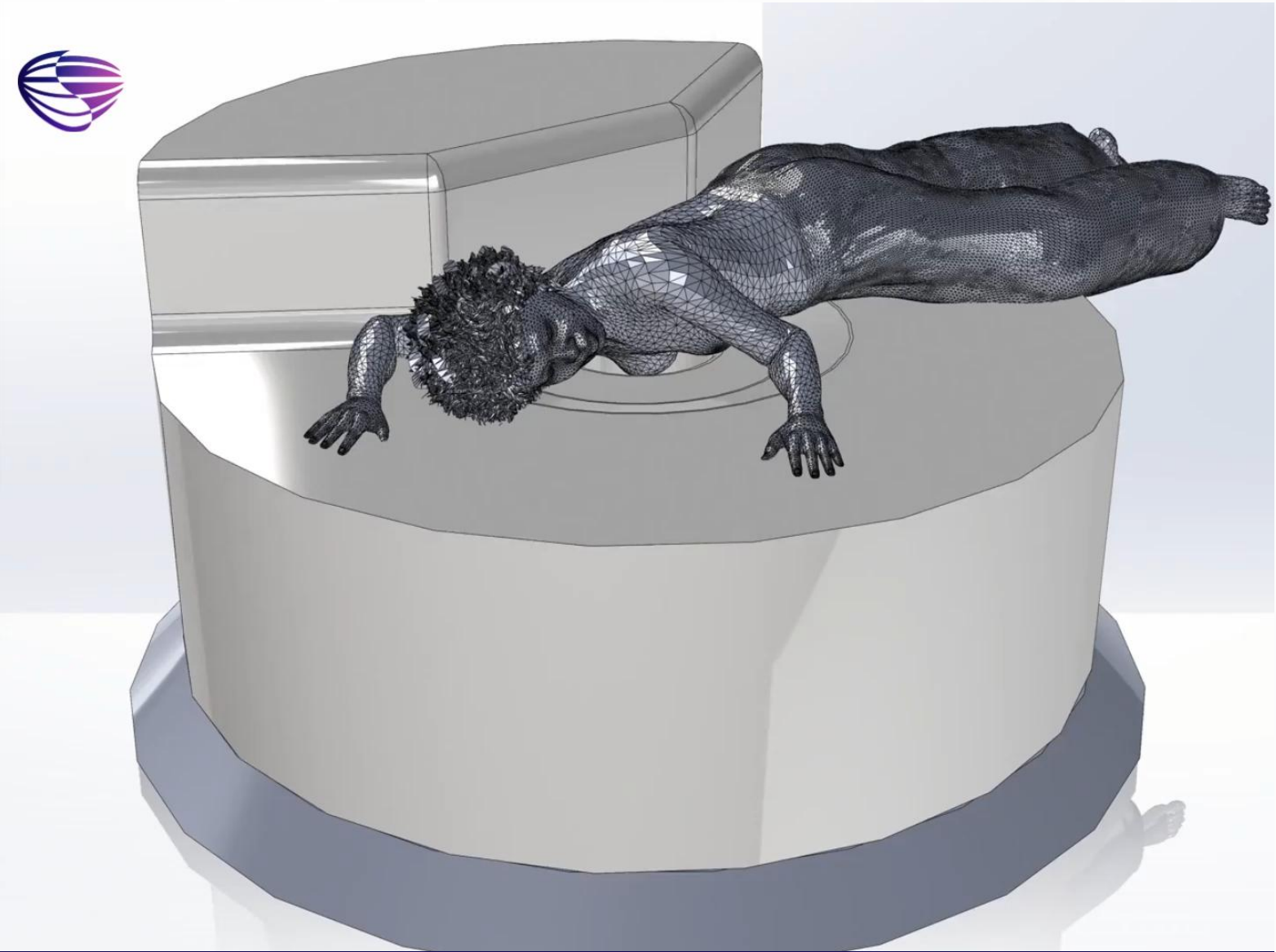


Image credit: American College of Radiology



# THE SOLUTION



**INTRODUCING THE BREAST MONARC™**  
A breakthrough platform reinventing both imaging technology and diagnostic interpretation—with **AI at its core.**



**VALIDATED  
BY SCIENCE**

**+90%**  
raw signal  
quality

The earliest traces  
of cancer are no  
longer lost in noise



**PATENT  
PROTECTED**

**-40%**  
dose  
exposure

Safe & effective  
no tradeoff  
required



**DEMONSTRATED  
GAINS**

**5D**  
multimodal  
data capture

Targeting cancer  
with information  
beyond the visible



**[VIDEO LINK](#)**





# OUR FAST TRACK TO AI & MARKET

## DIGITAL / PHYSICAL TWINS

Biologically realistic and proprietary training data  
Built upon real patient data, limitless scale.

### Realistic

Derived from real patient data.

Real patient data used as starting point.

### Detailed

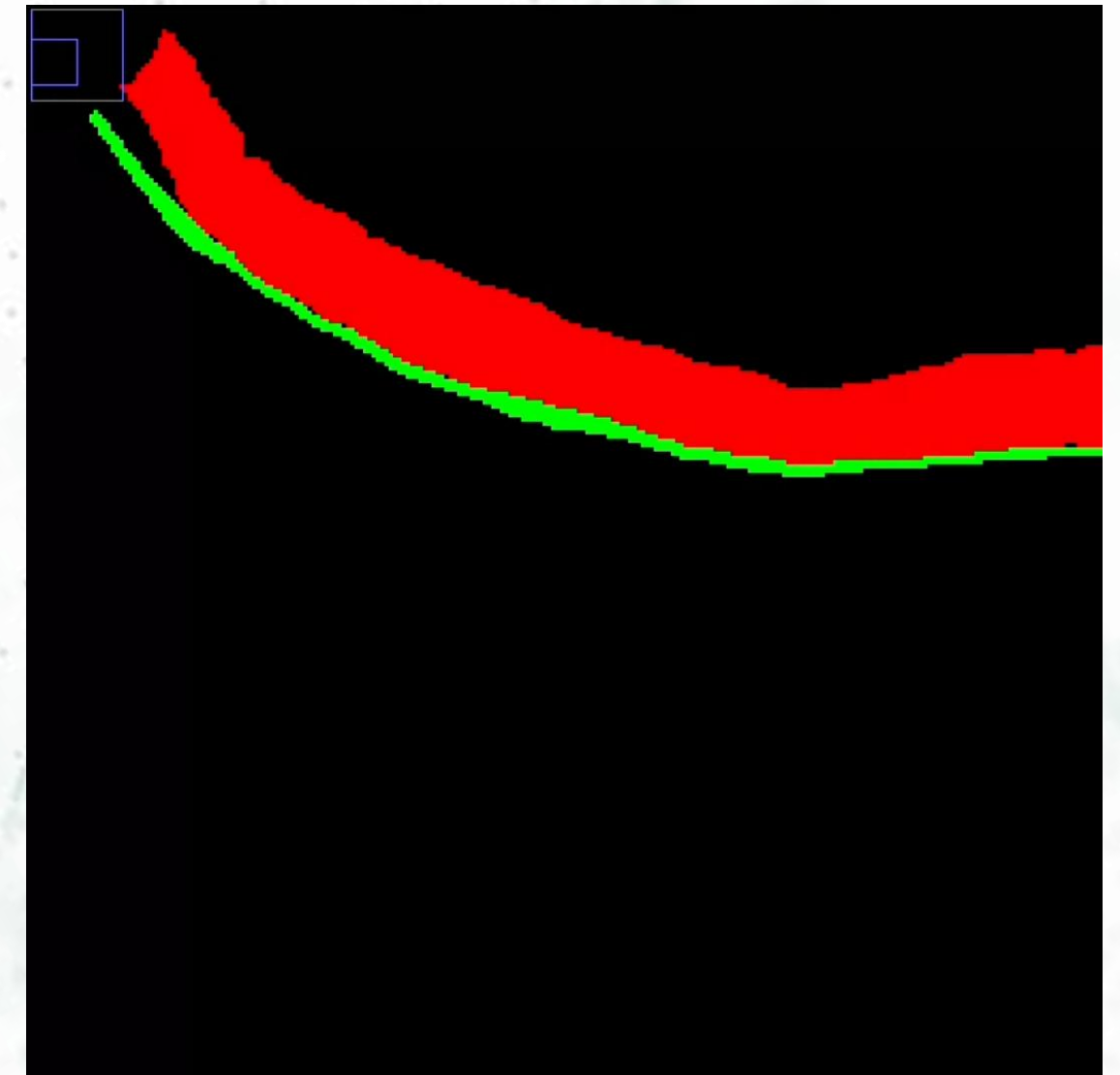
Dynamic 4D digital twins

Digital Twins synthesized for AI training & virtual clinical trial

### Ethical

custom-fabricated 3D physical twins

Physical Twins developed for real-world imaging in place of patients



[VIDEO LINK](#)



# MARKET

MALCOVA is positioned to capture a significant share of a rapidly growing, high-impact healthcare market

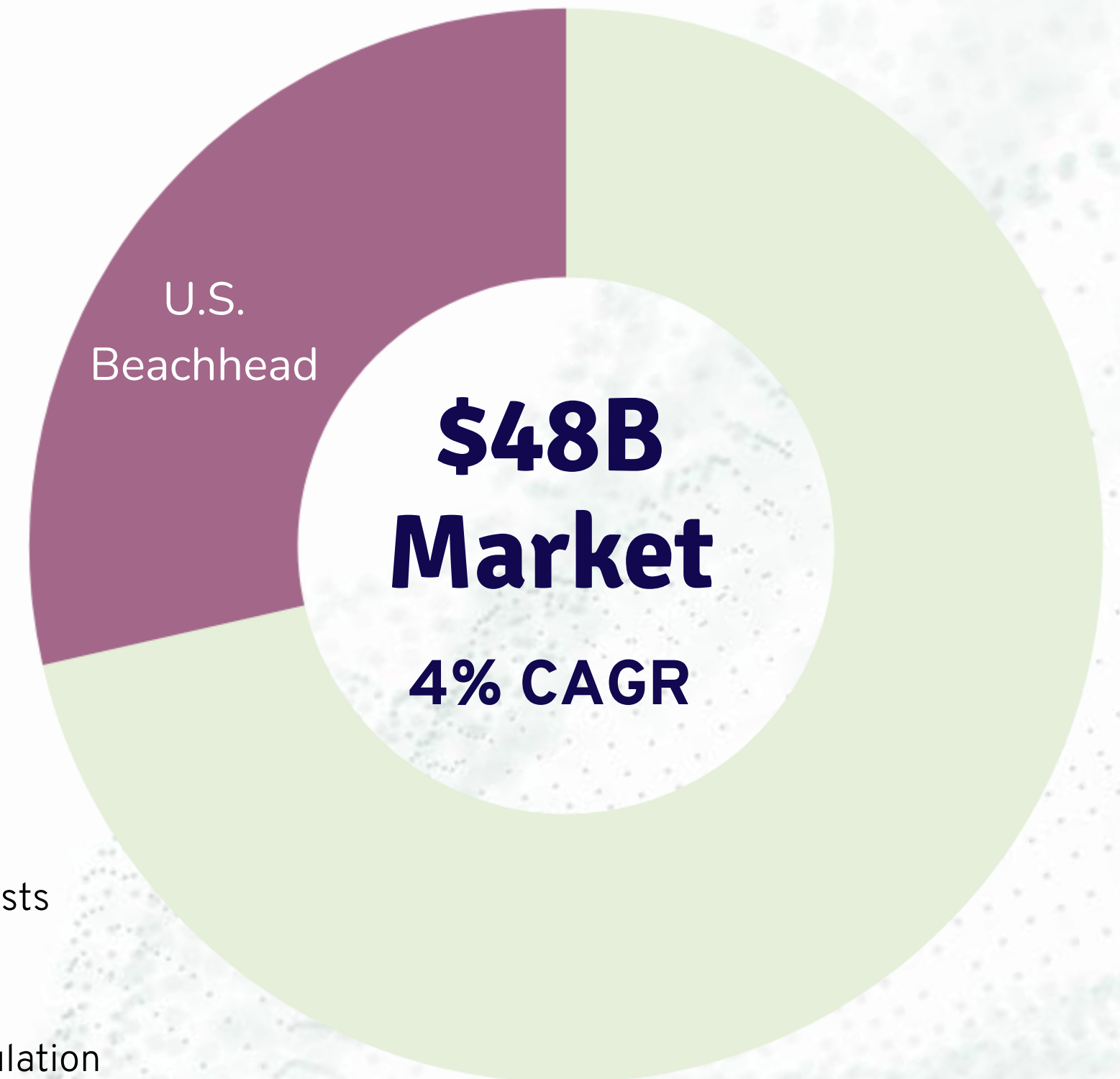
## MASSIVE ADDRESSABLE MARKET

- 1 in 8 women will face a breast cancer diagnosis in her lifetime
- 40+ million women undergo breast imaging annually in the U.S.
- Access to pain-free and effective imaging could increase this number by up to 20% (given that ~20% of women avoid mammography due to pain)

## KEY DRIVERS OF MARKET GROWTH

- Rising incidence of breast cancer, especially in younger women with dense breasts
- Aging population increasing demand for routine screening
- Greater awareness of the need for better dense breast imaging
- New guidelines recommend screening from age 40, expanding the eligible population

## DIAGNOSTIC IMAGING





# COMPETITIVE MATRIX

## Breast Imaging

FEATURE	BREAST MONARC™	MAMMOGRAPHY	Tomosynthesis (3D MAMMOGRAPHY)	Breast MRI	Conventional Breast CT	ultrasound
True 3D imaging	✓	✗	✗	✓	✓	✓
Full tissue coverage	✓	✓	✓	✓	✗	✓
Scatter-free imaging	✓	✗	✗	NA	✗	NA
Spectral imaging	✓	✗	✗	✗	✗	✗
High (0.1mm) Spatial resolution	✓	✓	✓	✗	✗	✗
High temporal resolution	✓	✗	✗	✗	✓	✗
Microcalcifications (tiny traces of cancer) visible	✓	✓	✓	✗	✗	✗
Uncompressed breast imaging	✓	✗	✗	✓	✓	✓
Optimal performance at screening dose level	✓	✓	✓	NA	✗	NA





# OUR TEAM

Deep Expertise, 45+ Years Industry Experience, Fantastic Advisors



**PEYMON GHAZI, PHD**  
**Co-Founder & CEO**  
10+ years in Radiology market,  
Deep expertise in physics &  
engineering



**TARA GHAZI, PHD**  
**Co-Founder & CBO**  
10+ years industry & ops,  
Expert in human cognition &  
perception of visual content



**MICHAEL KIM**  
**HEAD of Hardware**  
• Ex Lockheed Martin  
• Ex Outset Medical  
15+ yrs product dev,  
engineering leadership



**JASON LOMNITZ, PHD**  
**HEAD of Software**  
• Ex-VSP Global  
• Ex-Headspin  
10+ yrs Machine Learning and  
Software Development

## SUPPORT

### Legal:

- Patent: Wilson Sonsini
- Corporate: Graf Business Law

### Regulatory Pathway:

- MCRA Consulting

### Quality & Standards

### Compliance:

- Greenlight Guru

## ADVISORY BOARD



**DANIEL KOPANS, MD**  
**KOL In target market**  
Past Chief of Breast  
Radiology at MGH



**KAMBIZ NAEL, MD**  
**PRACTICING**  
**NEURORADIOLOGIST**  
Professor in Residence -  
Radiology & Biomedical  
Engineering



**FARDAD ZABETIAN**  
**SERIAL ENTREPRENEUR,**  
25+ yrs experience in  
hardware and enterprise  
software dev with prior exits



**MICHELLE SVATOS, PHD**  
**SERIAL ENTREPRENEUR,**  
3+ decades medical device  
development, experienced in  
breast-focused medDev



**KAI YANG, PHD**  
**PROFESSOR, BOARD Certified**  
**Medical Physicist**





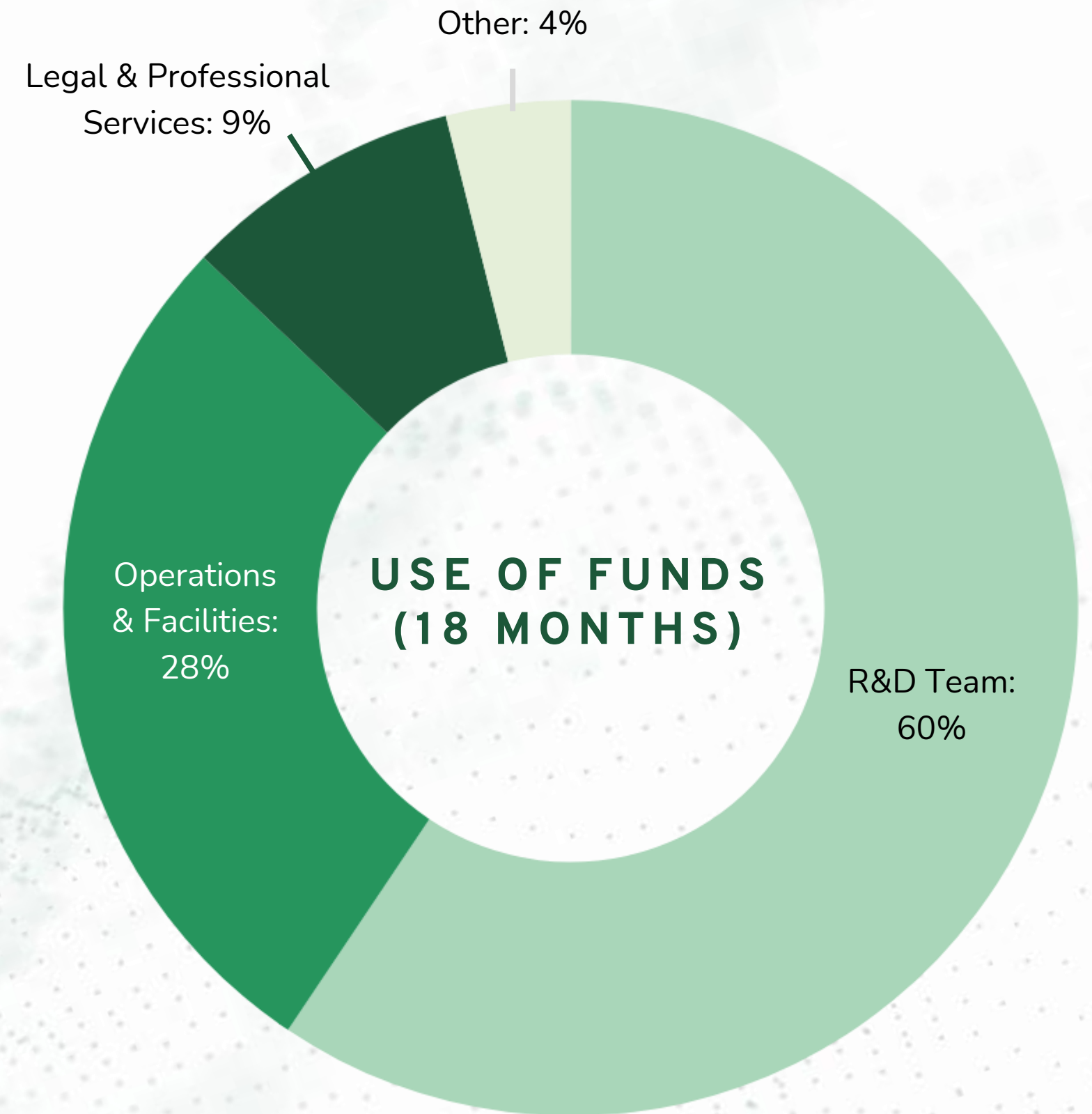


# INVESTMENT OPPORTUNITY

Current Raise: **\$4M Seed**

Eligible for 100% funding match

1:1 non-dilutive match funding opportunity  
up to \$4.5M through NIH  
Congressional approval pending





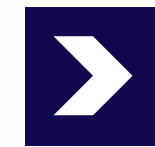
Clinical partner:  
**UCSF**

# BREAST IMAGING IS JUST THE BEGINNING

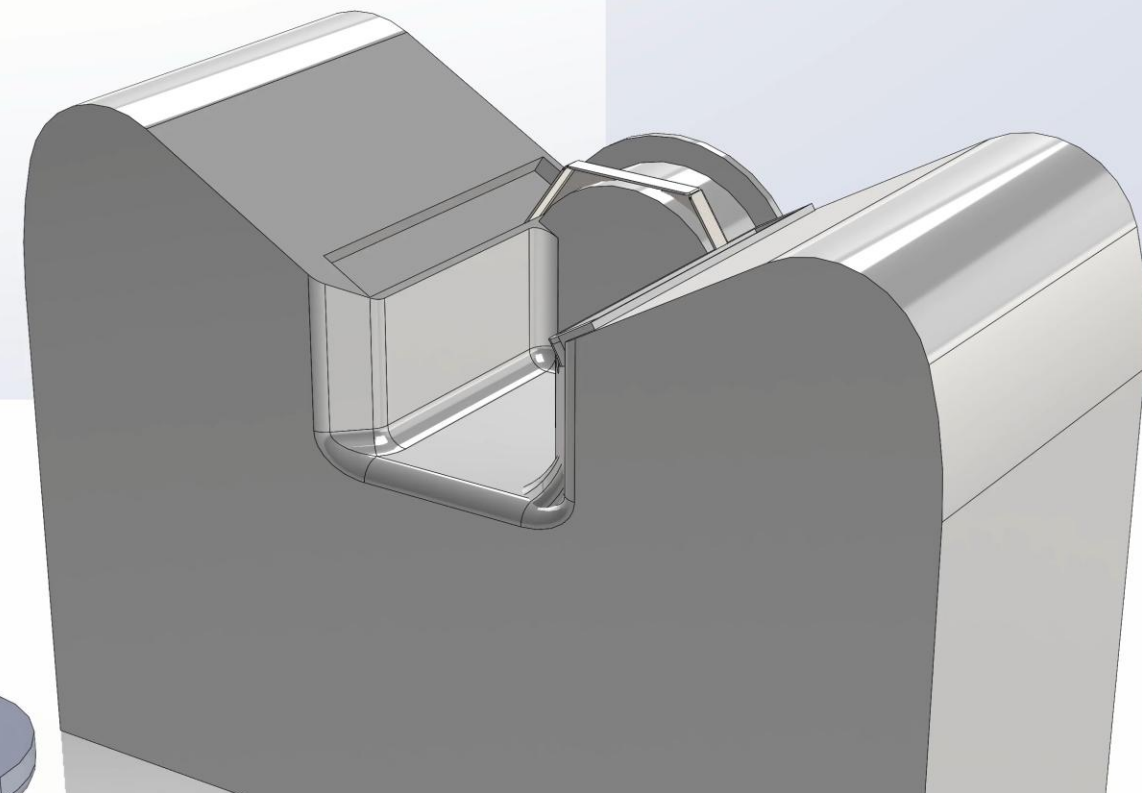
## CLEAR TECHNOLOGY-NEED FIT IN NEUROIMAGING

- Stroke diagnosis, Traumatic Brain Injury diagnosis

*Image credit: Erald Mecani, Wikipedia*



[VIDEO LINK](#)



**A DEDICATED BRAIN  
IMAGING SOLUTION**





[www.malcova.com](http://www.malcova.com)

---

**PEYMON GHAZI, PHD**

Co-Founder & CEO

1-916-835-0130

[www.linkedin.com/in/peymon-ghazi](http://www.linkedin.com/in/peymon-ghazi)

[peymon.ghazi@malcova.com](mailto:peymon.ghazi@malcova.com)

---

**TARA GHAZI, PHD**

Co-Founder & CBO

1-410-900-6441

[www.linkedin.com/in/taraghazi/](http://www.linkedin.com/in/taraghazi/)

[tara.ghazi@malcova.com](mailto:tara.ghazi@malcova.com)