MiCSi

Faster Scans and Better Imagine Quality for MRI and PET through Software

Medical Imaging is slow and inconsistent

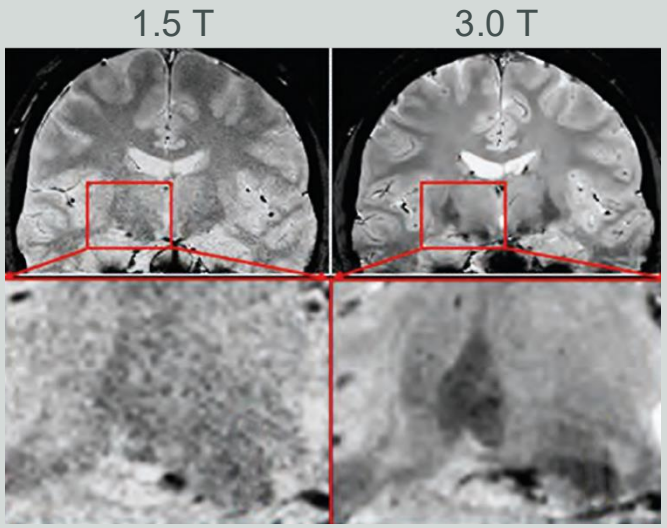
~80% MRI scanners are low field
→ **low image quality**

~17-year average PET scanner age, producing blurrier images
→ **requires larger radiation dose or longer scans**

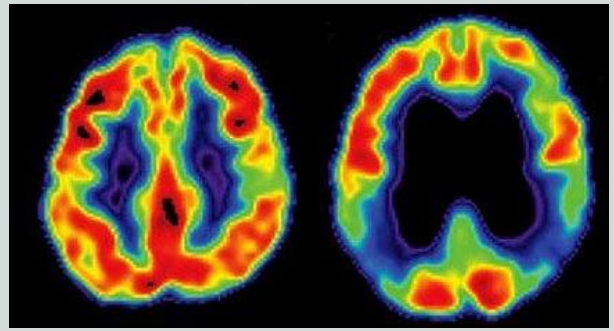
~45% disagreement amongst radiologists on routine reads
→ **clinical risk, excess cost**

~45 min per MRI exam as scans are repeated to improve image quality
→ **lower patient throughput**

4+ week backlogs are common as scanners run near capacity
→ **limited access to care and unrealized hospital revenue**



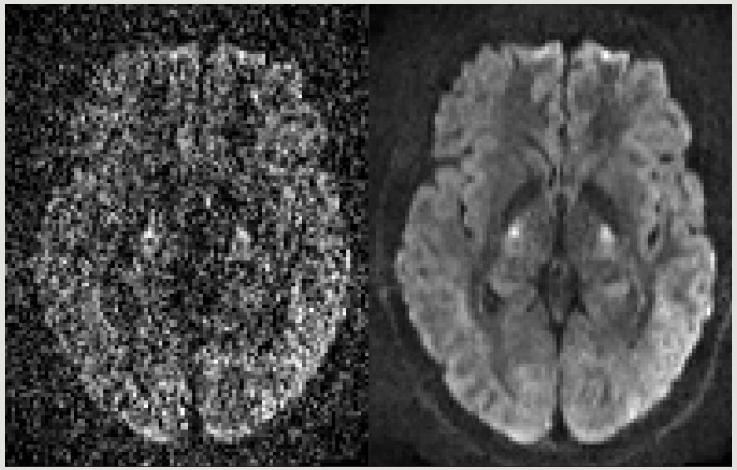
MRI field strength drives image quality and diagnostic precision but most scanners are 1.5T or less



Conventional PET images are significantly blurred

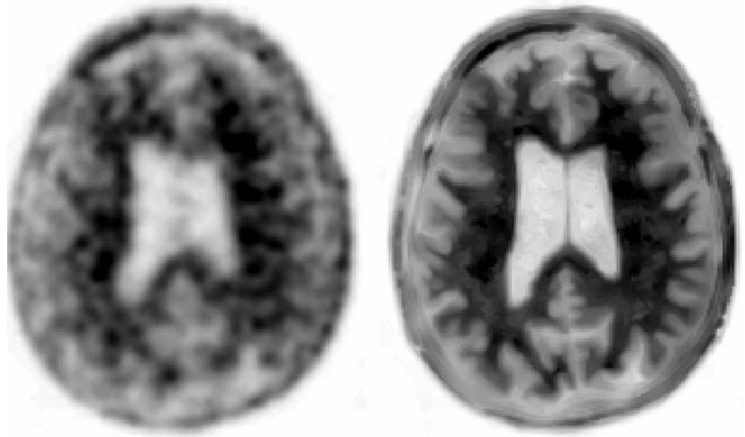
MICSI produces better images & faster scans on existing scanners

MICSI-RMT



STANDARD MICSI-RMT

MICSI-PET



STANDARD MICSI-PET

FDA 510(k) Cleared

- **MRI Noise Reduction:** 4.35x better image quality
- **Scan times:** up to 9× faster
- **IP:** Based on widely adopted research by MICSI founders (2,300+ citations)
- **NIH-Funded:** $1.1M in NIH Grants

FDA 510(k) Clearance Anticipated Q2 2026

- **High Res PET:** ~125x resolution improvement
- **Image Quality:** Upgraded from **2.7 → 4.3 (out of 5)**
- **Fully automated quantification & reporting:** Significant reduction in workload for radiologist

MICSI integrates via DICOM routing into any existing scanner/PACS workflows (on-prem or cloud) — no workflow disruption, vendor neutral.

Software-driven throughput & quality improvements unlock multi-million-dollar value per scanner

MICSI-RMT

$600
reimbursement/scan

~10
incremental scans/day
through scan time reduction

$2.2M
incremental revenue/
scanner/year

~13,000
MRI scanners in the US

$28.6B
potential annual
value unlocked

MICSI-PET

$5000
reimbursement/scan
(Procedure + Radiotracer)

~5
incremental scans/day
through scan time reduction

$6.25M
incremental revenue/
scanner/year

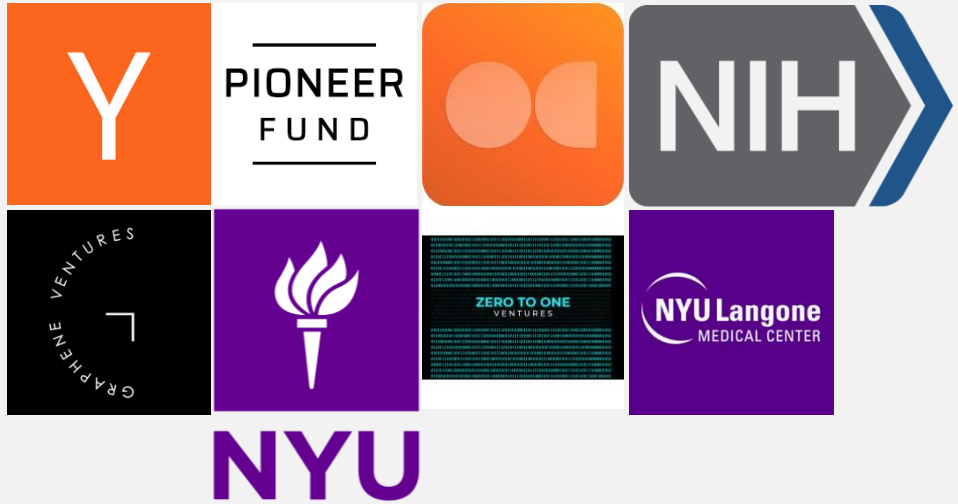
~2,500
PET scanners in the US

$15.6B
potential annual
value unlocked

Over $4m in signed LOIs/Agreements

Commercial Pipeline

Capital & Backing



Built by imaging experts with proven regulatory and clinical execution

Gregory Lemberskiy-CEO

PhD, Biomedical Imaging (NYU School of Medicine)

RMT reconstruction inventor & patent holder; achieved FDA clearance at seed stage

Benjamin Aron-CTO

PhD, Electrical Engineering (NYU School of Engineering)

Created DESIGNER diffusion MRI platform (250+ citations); processed 1m+ medical images;

Scientific Co-founders & Medical Advisors

Lawrence Tanenbaum, MD
Radnet CTO
Deployment/Sales/Integration
Medical Advisor

Timothy M. Shepherd, MD, PhD
Chief Neuroradiology, NYU
Clinical Adoption
Medical Advisor

Dmitry S. Novikov, PhD
Associate Professor, NYU
Algorithm Development
Scientific Advisor

Els Fieremans, PhD
Associate Professor, NYU
Algorithm Validation
Scientific Advisor

For Fundraising Inquiries

Gregory Lemberskiy, CEO
gregory.lemberskiy@micsi.com
718-801-2324

MICSI

Microstructure Imaging, INC
370 Jay St FL7
Brooklyn, NY 11201