

Conquer Cancer through AI

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Company Overview

2023 INVESTOR RELATIONS

About Lunit

Since 2013 | 1st Generation Medical AI Company | Listed in KOSDAQ since 2022

Global Investors

Backed by leading global investors

- Raised \$122M while unlisted

Foreign investment
=\$73M 60%

- 25% of global shareholders after IPO

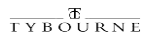
→ Top 3% of KOSDAQ listed 1,600 companies in Korea



FUJIFILM



HealthQuest
CAPITAL



Industry Leader

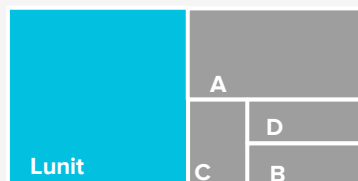
Best-in-class AI technology and products

- Unprecedented “AA-AA” highest level in technology assessment among healthcare companies

- Best performance proven by direct comparison with global competitors in various studies

- Highest market cap. among listed medical AI companies (2023.04)

Market Cap. of medical AI companies in Korea



3x higher than 2nd place company

Global Partners

Established partnerships with industry giants

Chosen by leading medical device companies

FUJIFILM PHILIPS IBM GE Healthcare



Chosen by leading bio companies



Multiple global pharmas

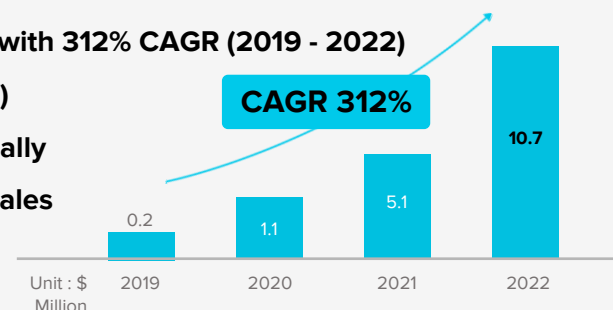
Commercial Success

Successfully scaling out revenue growth

- High revenue growth with 312% CAGR (2019 - 2022)

- Lunit INSIGHT (X-RAY)

→ First company globally to exceed \$8M in sales



Core Competence

#1 Technology



Strong Foundation

Tech-based startup

- Six cofounders from KAIST
- First deep learning startup in Korea
- Top-tier AI researchers

KAIST

AI Researchers

52 18%

Software Developers

70 24%

Cofounders



Anthony Paek
Former CEO &
Executive Chairman



Sunggyun Park
Cancer Screening
Chief Product Officer



Kyunghyun Paeng
Oncology
Chief Product Officer



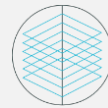
Donggeun Yoo
Chief AI Officer



Minhong Jang
Cancer Screening
Chief Business Officer



Jeongin Lee
VP of IT &
Infrastructure



Best-in-Class A.I.

Global leader in AI technology

- Top-tier proprietary AI technology
- 30+ papers presented in top AI conferences
- Large-scale medical data for R&D (N = +4 million cases)

Top Ranked in AI Competitions

2015

Main Task
(CLS-LOC)

IMAGENET

1 Microsoft



5 Lunit



7 Google



2016

MICCAI Grand
Challenge

Tumor Proliferation
Assessment

1 Lunit



2 IBM



3 Microsoft



2017

Camelyon



1 Lunit



2 Harvard
Univ.



Eindhoven
Univ. of Tech



Global Recognition

International spotlight

- The **only Korean company** spotlighted by World Economic Forum, CB Insights



2020 / 2022

TECHNOLOGY PIONEER
GLOBAL INNOVATOR



2017

CB Insights
AI 100



2019 / 2020 / 2021

CB Insights
DIGITAL HEALTH 150

Forbes

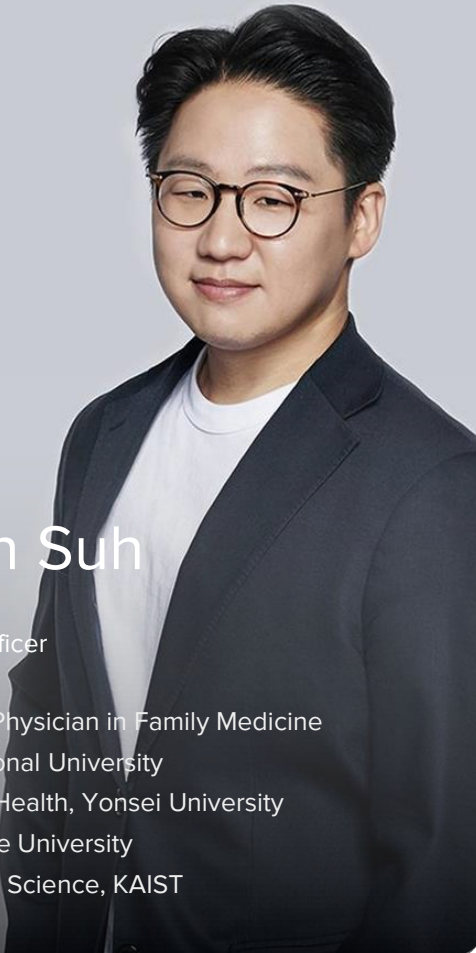
Newsweek



Core Competence

#2 Medical Expertise

CEO Profile



Brandon Suh

MD, MBA, MPH
Chief Executive Officer

- Board-Certified Physician in Family Medicine
- M.D., Seoul National University
- M.P.H. in Public Health, Yonsei University
- M.B.A., Kyunghee University
- B.A. in Biological Science, KAIST

13 Full-time Physicians at Lunit



Chanyoung Ock
Oncology



Kihwan Kim
Radiology



Taebum Lee
Pathology



Yoojoo Lim
Oncology



Sanghyup Lee
Radiology



Wonkyung Jung
Pathology



Changho Ahn
endocrinology



Eunkyoung Park
Radiology



Sooick Cho
Dermatology



Seunghwan Shin
Rheumatology

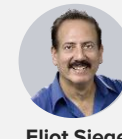


Ambika Seth
Radiology



John Jongseok Ahn
General Physician

Renowned Scholars as Advisors



Eliot Siegel
Radiologist
Radiology IT
KOL



Tony Mok
Oncologist
Board member
of AstraZeneca



Linda Moy
Breast Radiologist
KOL / RSNA
Vice-chair



YoungKwang Chae
Oncologist
KOL in
immunotherapy



Yung-jue Bang
Oncologist
KOL in Korea

+200 Publications in Major Peer-reviewed Journals

Journal of
Clinical
Oncology®

THE LANCET
Digital Health

JAMA Oncology

JAMA
Network | Open.

ASCO®
AMERICAN SOCIETY OF CLINICAL ONCOLOGY

EJC
EUROPEAN JOURNAL OF
RADIOLOGY

European
Radiology

SCIENTIFIC
REPORTS

ESMO

AAGR

Radiology

RSNA®

Clinical
Infectious
Diseases

sitc
Society for Immunotherapy of Cancer

USCAP

+100 Research Partnerships

MASSACHUSETTS
GENERAL HOSPITAL

Stanford
MEDICINE

Northwestern
Medicine

COLUMBIA

Karolinska
Institutet

NHS

UCSF
University of California
San Francisco

UNIVERSITY OF
OXFORD

BROWN

UNIVERSITY OF
CAMBRIDGE

Core Competence

#3 Global Business

Global Talents at Lunit



Ken Nesmith
CEO of Lexent Bio
(acquired by Roche/
Foundation Medicine)
MIT, Wharton School



Chris McKinney
Business Development
lead at GE and
TeraRecon



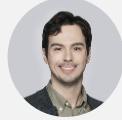
Michael Hreczuck
Business Development
lead at Tempus and
HTG Molecular



Antoine Khoury
Business Development
lead at Hologic and
Teleflex



Thijs Kooi
Published AI research
papers in top AI
journals



Sergio Pereira
Leading AI researcher
in medical imaging



Wei-cheng Wang
Software
Development lead at
Yahoo and Foxconn



Ambika Seth
Radiologist, Clinical
research for AI startups

International Colleagues
(non-Koreans)

48 17%

Global Investors Back Lunit

- **\$73M** funded by overseas investors (60% of total funding)
- First Korean medical device company invested by major US healthcare VCs (Pre-IPO funding round)
- Multiple strategic investments by industry leaders



International Shareholders by Company (2023.04.30)



+25%

- Top 3% of 1,600 KOSDAQ listed companies
- 2nd among Healthcare Technology sectors in Korean stock market



20%



10%

Listed
Medical AI
companies



< 2%

Global Sales Channel through Strong Business Partnerships

50%

Global market share
of device partners



GE Healthcare



80%

US Oncologists using
Guardant Health products

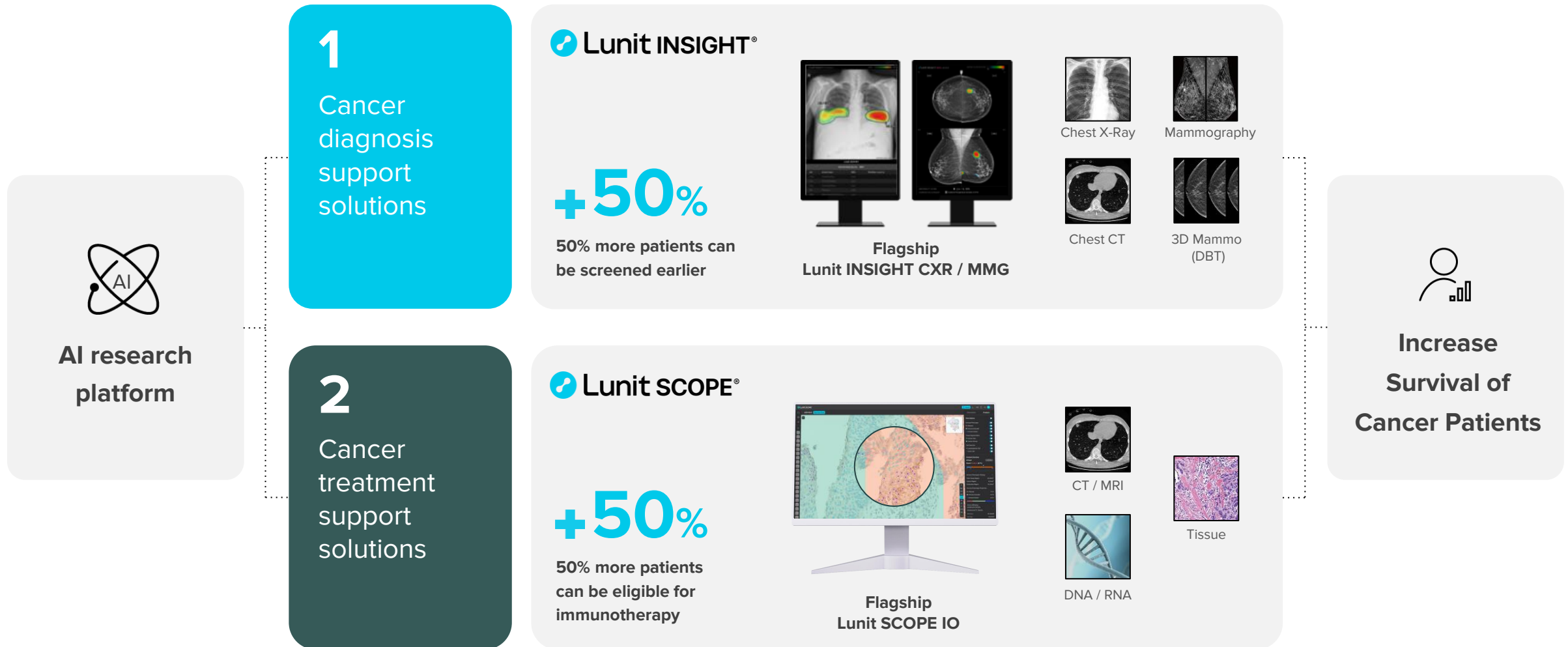


Global Big Pharma

Currently discussing
research/collaboration agreement
with multiple big pharma

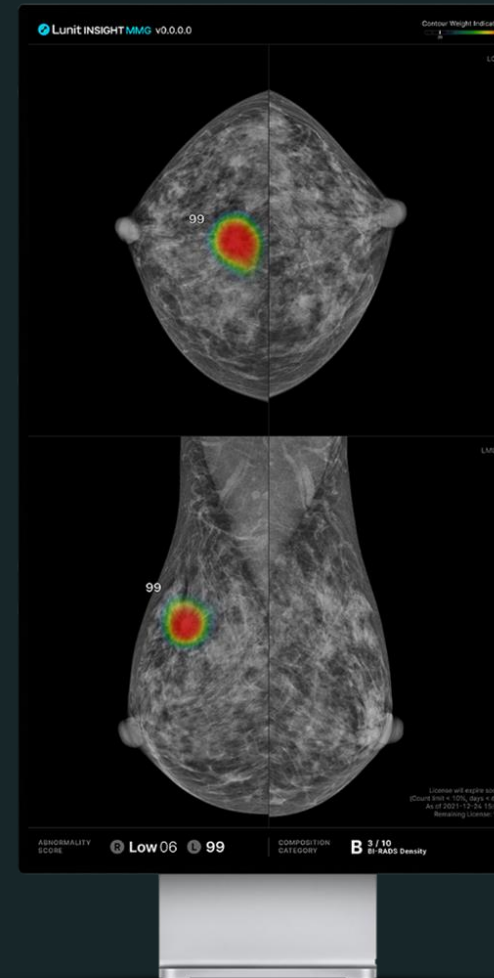
Conquer Cancer through AI

Increase cancer survival through AI-powered cancer diagnosis and treatment

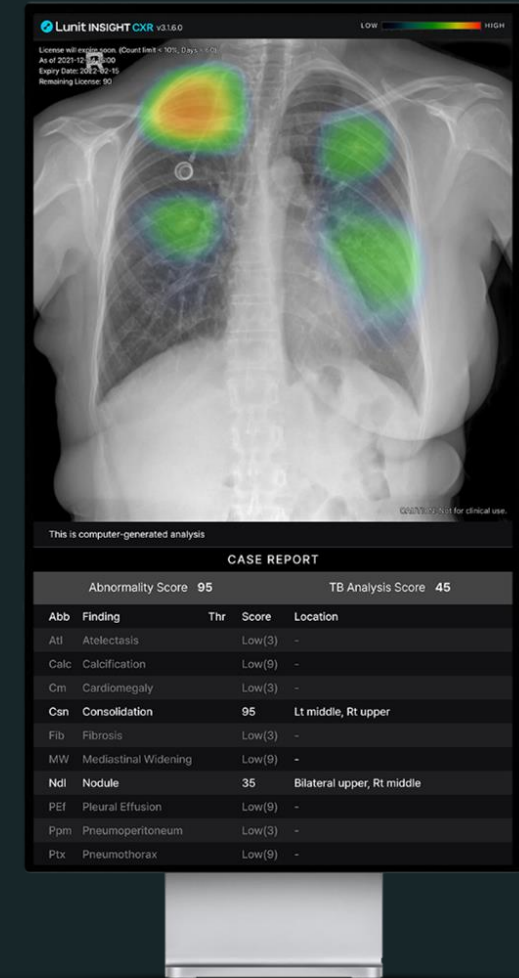




2023 INVESTOR RELATIONS



Lunit INSIGHT MMG®



Lunit INSIGHT CXR®

Accurate and Effective Detection of Cancer

Needs

Current limitations in cancer diagnosis/screening

Missed Cases

30%^{1) 2)}

Unnecessary Tests

95%²⁾

False Negative Rate³⁾

Chest X-Ray and Mammography

False Positive Rate⁴⁾

Mammography

Focusing on major cancers

Lung Cancer

1st⁵⁾

Global incidence and mortality rate

Breast Cancer

2nd⁵⁾

Global incidence rate

1) NLST trial, NEJM 2012

2) Breast Cancer Screening Consortium data

3) False Negative Rate : Falsely diagnosed as not cancerous

4) False Positive Rate : Falsely diagnosed as cancerous, but normal

5) SEER Cancer Statistics Review, 1975-2015

Product

Major Lung Diseases

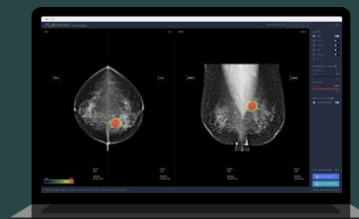
Lung Cancer, Tuberculosis, Pneumonia, etc.

Lunit INSIGHT CXR®



Breast Cancer Detection

Lunit INSIGHT MMG®



Effect

Increase interpretation accuracy and efficiency



Interpretation Accuracy

↑20%



Earlier Diagnosis

↑50%



Unnecessary Recalls
Mammography

↓30%



Exam Result
Turnaround Time

x10 faster

Higher Reading Accuracy | Better performance than specialists, proven in major studies

Evidence

Extensively
validated
through studies

+150

Studies/abstracts

THE LANCET
Digital Health

JAMA Oncology

Radiology

JAMA
Network | Open.

RSNA

SCIENTIFIC
REPORTS

Clinical
Infectious
Diseases

European
Radiology

BIR
The British
Institute of
Radiology

BMC
Pulmonary Medicine

AJR

ACTA RADIOLOGICA

JTD

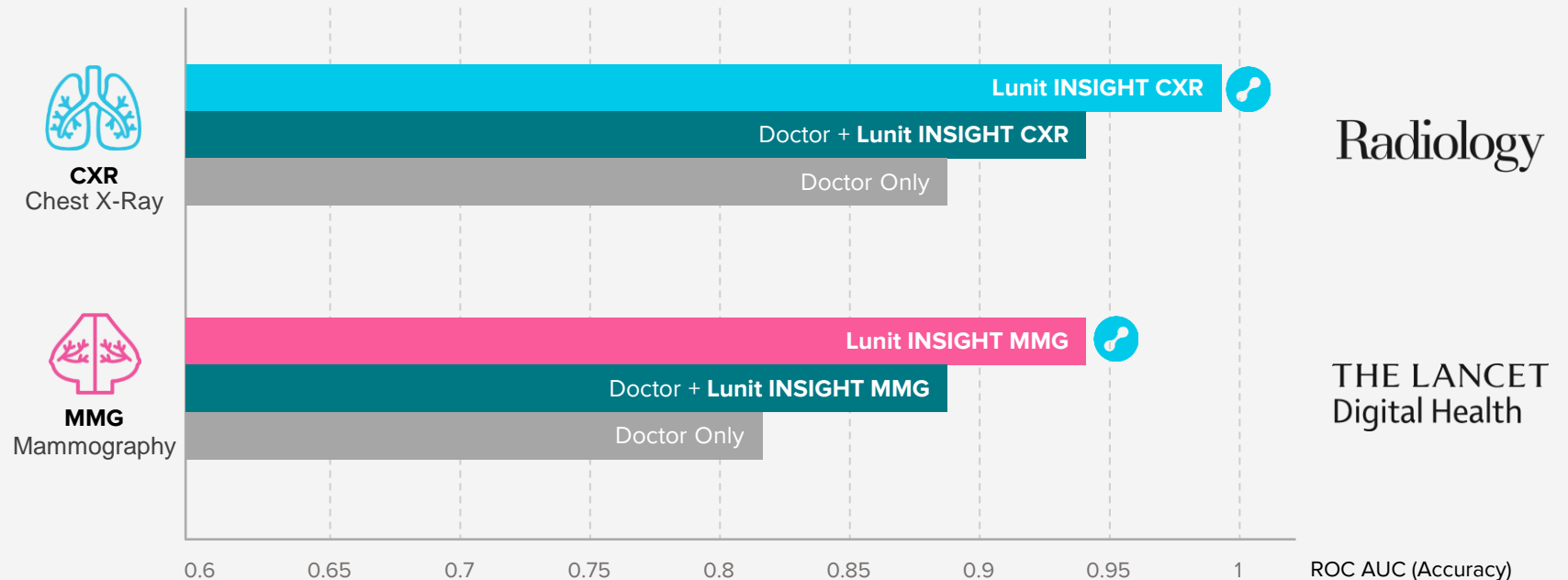
THE LANCET Regional Health
Americas



EUROPEAN RESPIRATORY journal
FLAGSHIP SCIENTIFIC JOURNAL OF ERS

Performance

Clinically proven to show excellence in medical image analysis

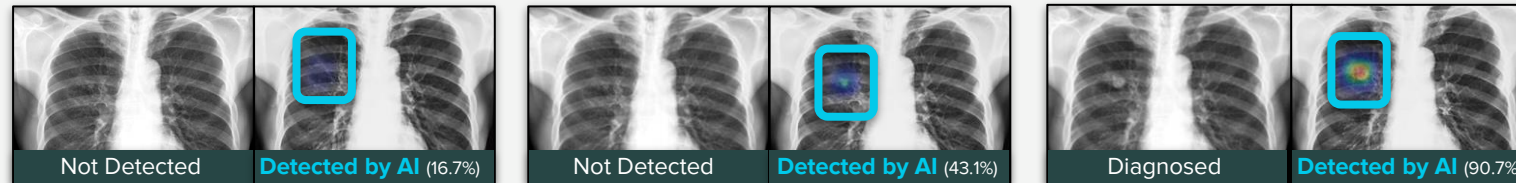


Earlier Diagnosis | Higher reading accuracy leads to earlier diagnosis of cancer

When Using Lunit INSIGHT

50% of lung cancer patients can be diagnosed earlier when analyzed by Lunit INSIGHT CXR

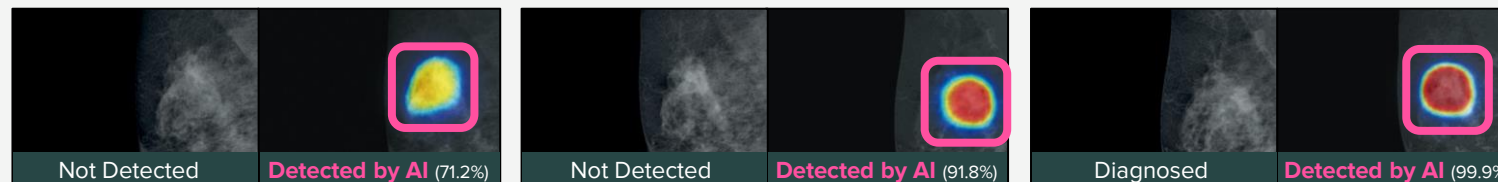
Case) 2013> 2014> 2016



54-year-old male: **AI found a lung cancer that was missed 3 years ago**

40% of breast cancer patients can be diagnosed earlier when analyzed by Lunit INSIGHT MMG

Case) 2008> 2009> 2010



59-year-old female: **AI found a breast cancer that was missed 2 years ago**

Impact of Earlier Diagnosis

Significance of Early Diagnosis
in Lung Cancer

4.3x Survival Increase

5-Year-Survival
Diagnosed Stage 1,2

73%

5-Year-Survival
Diagnosed Stage 3, 4

18%

Reference: AJCC 8th Edition

Significance of Early Diagnosis
in Breast Cancer

1.4x Survival Increase

5-Year-Survival
Diagnosed Stage 1,2

96%

5-Year-Survival
Diagnosed Stage 3, 4

65%

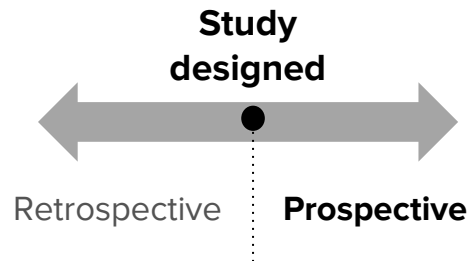
Reference: AJCC 8th Edition

Real World Evidence

Building solid evidence through prospective studies

Study Method

What is prospective study?



Outcome is measured after the baseline state of the subjects is determined and controlled intervention applied.

Reliability ↑	Data quality ↑
Bias ↓	Recall errors ↓

Higher possibility to receive **reimbursement** if backed by prospective studies

Lunit INSIGHT CXR

Flagship prospective CXR study

10,476 Patients with chest X-Ray RCT study on 'lung nodule detection rate' at Seoul National University Hospital (Korea)

Outcome	Detection rate of actionable lung nodules	Detection rate of malignant lung nodules
A Group (n=5238) Radiologist + AI	31 (0.59%)	8 (0.15%)
B Group (n=5238) Radiologist only	13 (0.25%)	0 (0.0%)

Radiology
Large-scale Prospective RCT*

Lunit INSIGHT MMG

Flagship prospective MMG study

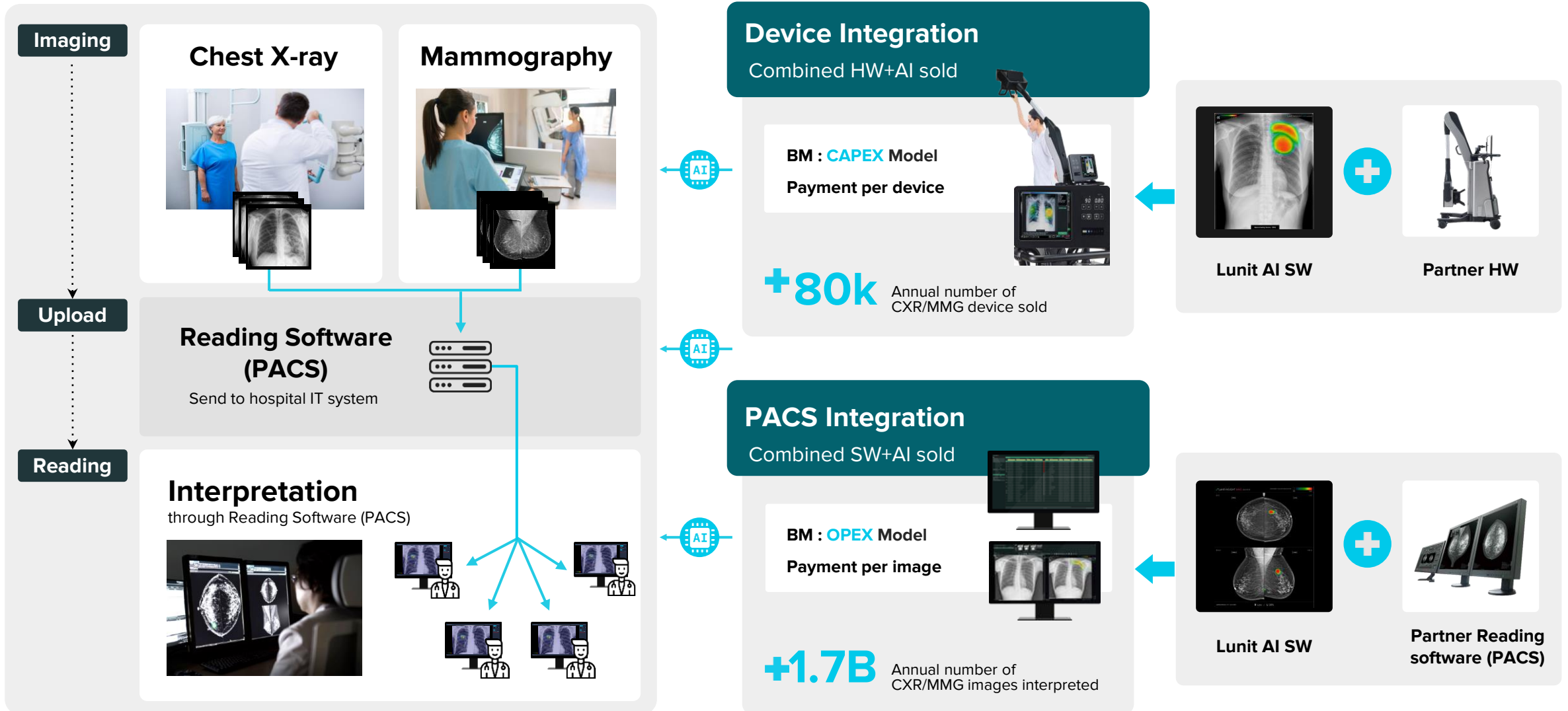
55,579 women screened for breast cancer Study on 'Double Reading' by Karolinska Institutet (Sweden)

***Randomized Controlled Trial**
: Research method in which subjects are randomly divided into control and experimental groups for comparison

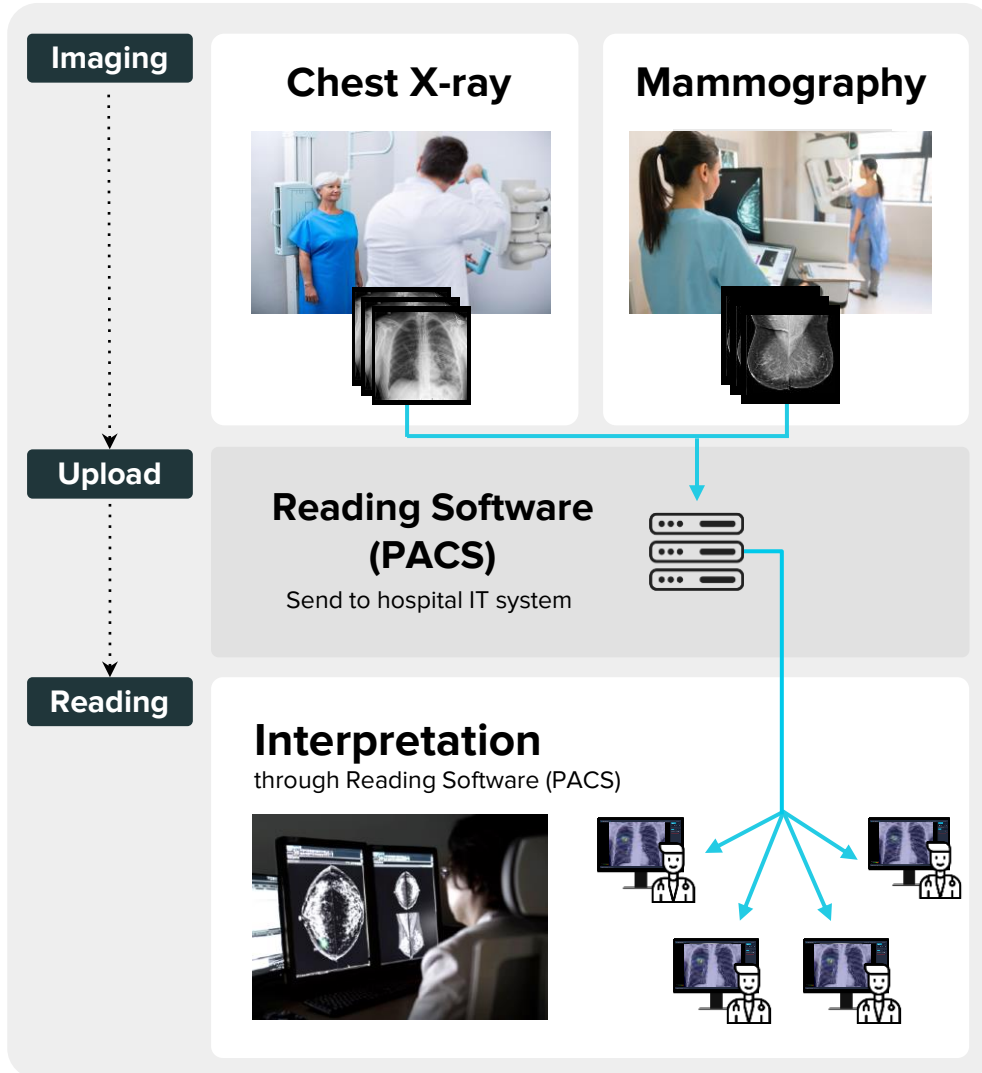
Outcome	Detection rate of cancer per 1,000 women	Recall rate per 1,000 women
1 Radiologist + Lunit INSIGHT MMG	4.3	28
2 Radiologists	4.1	29.3
Lunit INSIGHT MMG	4.1	15.5

Under submission in major journal
Large-scale Prospective Study

Distribution through Integration into Imaging Platform

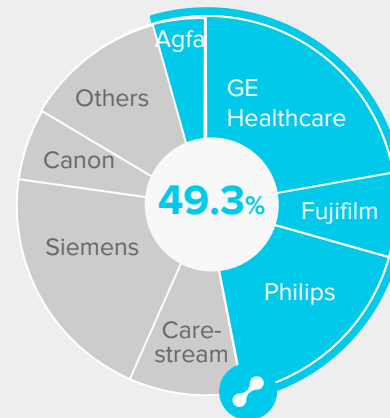


Scaling out through Global Partnerships

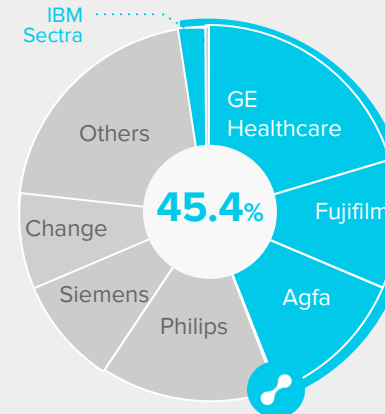


Lunit's Major Distribution Channel

Global X-Ray Device Market ¹⁾

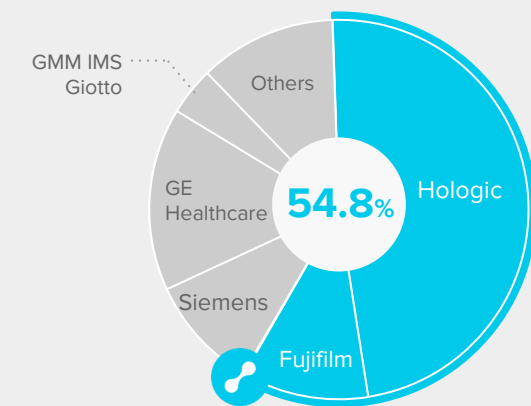


Global Reading Software (PACS) Market ³⁾



■ Contract Signed ■ Prospective Partners

Global Mammography Market ²⁾



1) Diagnostic Imaging Market 2021 by markets and markets

2) Breast Imaging report – 2021 Edition by Signify Research

3) Healthcare IT Value By Geography, Global, 2015-2025 by Global data

GE Healthcare

FUJIFILM

PHILIPS

HOLOGIC®
The Science of Time

AGFA
HealthCare

IBM

SECTRA

Key Success Factor: Proven to Be Best-in-Class

Accuracy

Superior Performance

JAMA Oncology

Salim, et al. JAMA Oncol. 2020 Aug 27.

IF 24.799¹⁾



Comparing 3 Commercial Mammography AI

Retrospective analysis of 8 years of mammography screening
Compared AI screening performance with data from 739 breast cancer-diagnosed women and 112,924 healthy women

	Lunit	Company A	Company B
AI	Lunit INSIGHT ^{MMG}	Algorithm A	Algorithm B
Sensitivity	81.9%	67.0%	67.4%
Accuracy (ROC AUC)	95.6%	92.2%	92.0%

1) Impact factor, Top 7 among Oncology Journals



Proven superior performance compared to competitors

Research

Robust Research (SCIE Journals²⁾)

Modality	Company (Country)	# of Journals
Chest X-Ray	Lunit	39
	Qure.ai	14
	Oxipit	1
	Zebra	0
	Others (>10)	None
Mammography	Lunit	19
	ScreenPoint	14
	DeepHealth	2
	Zebra	1
	Others (>10)	None

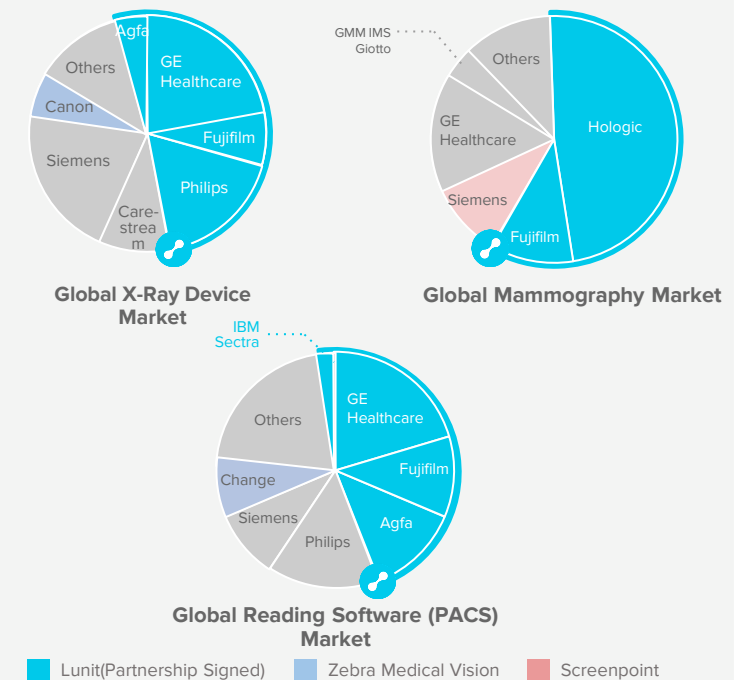
2) SCIE(Science Citation Index Expanded): Citation index originally produced by the Institute for Scientific Information and created by Eugene Garfield



Robust research with strong clinical evidence in peer-reviewed journals

Partnership

Larger Market Access



Access to 50% of market share through global partnership

Current Commercialization Status

Usage

Number of paying sites worldwide ¹

+2,000

Global Customers

84%

Retention Rate

+95%

Lunit Users among
Top 10 Hospitals in Korea ²

7

Chest X-Ray exams in Korea³
Analyzed by Lunit INSIGHT CXR 2021

10%

Lunit INSIGHT MMG Users among
45 Large Hospitals in Korea

42%

Partner Testimonials

“ **First AI company collaboration for our x-ray business** ”

— General Manager K***



“This is actually **out first AI company collaboration for our x-ray business. The offering will be available on all of GE digital, fixed, and mobile, and even fluoroscopy.** Leveraging the long-term established expertise, that GE has on x-ray equipment in combination with Lunit’s technology will help to keep up with the customer needs, care deeply about patients and diagnosing physicians or radiologists.”

“ **Felt very high customer satisfaction** ”

— Global Marketing Manager M***

FUJIFILM

“In Japan especially, many of the elder people cannot move from home to the clinic to take x-ray. Our x-ray with Lunit AI can visit to take x-ray immediately at home, so it is a significant difference. After we used Lunit AI in the market, I didn’t have any complaints. From Fujifilm’s standpoint, whatever AI lunit made has a very high quality, so **we would want to implement it in our x-ray system or PACS system.** Customers have already started to use AI and expect more support.”

“ **Lunit has both strong clinical record and national scalability** ”

— Global Software Product Manager P***



“**Lunit has a strong clinical validation track record and is registered in Europe and also more than 19 countries, making it an excellent partner for developing solutions that bring our customers intelligent and definitive answers to their daily needs.**

We believe that the integration of Lunit’s AI in Agfa’s advanced medical imaging workstation will help facilitate more effective clinical workflows in various hospital situations.”

¹) Excludes demo and research use; only commercial sales

²) Newsweek. World’s Best Hospitals – South Korea, 2020;

³) Source: KOSTAT.go.kr Appx. 40M Chest X-ray exams performed annually in Korea

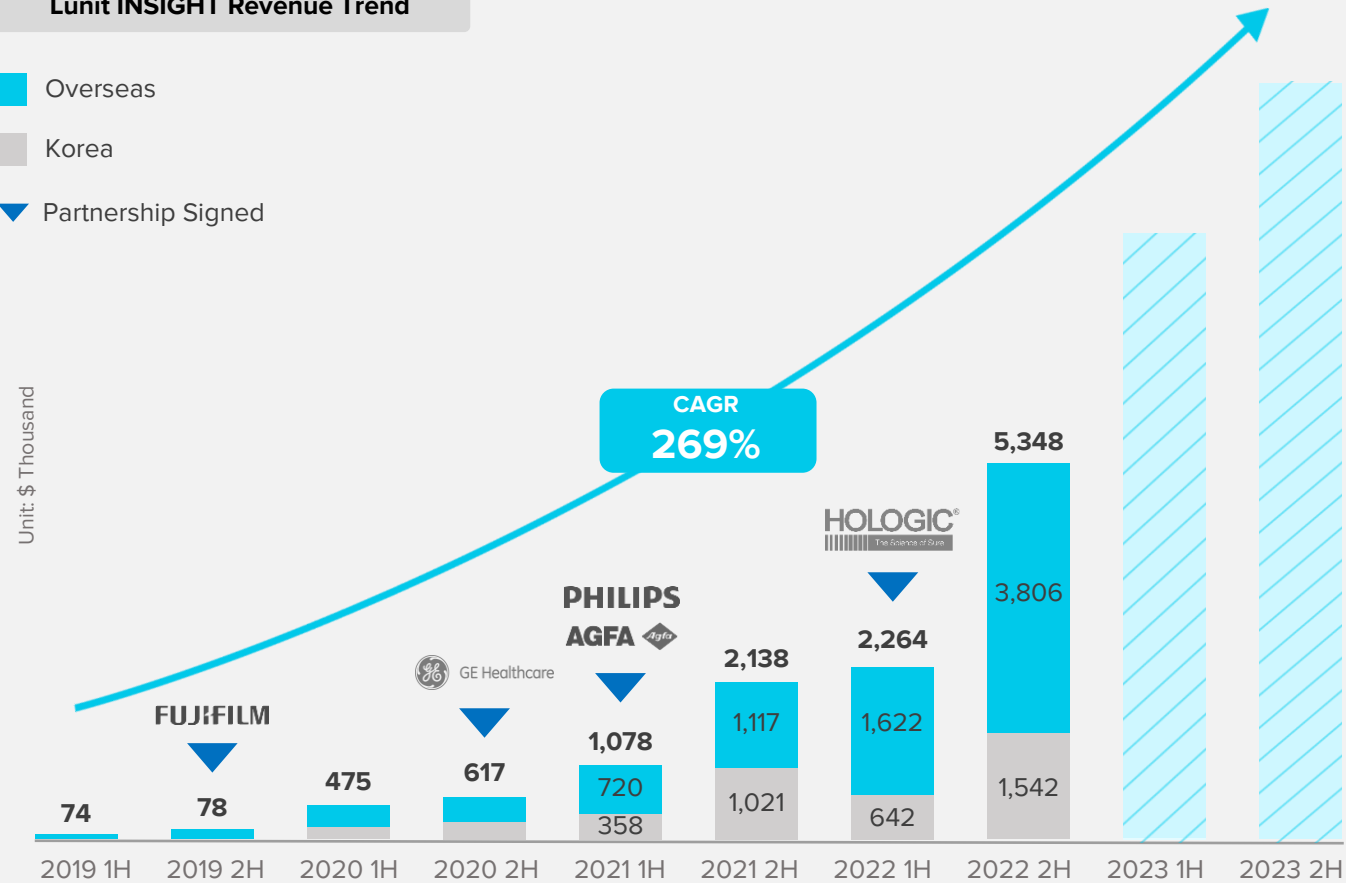
Exponential Revenue Growth Expected to Continue

Scaling out business and sales as partners and markets are activated sequentially

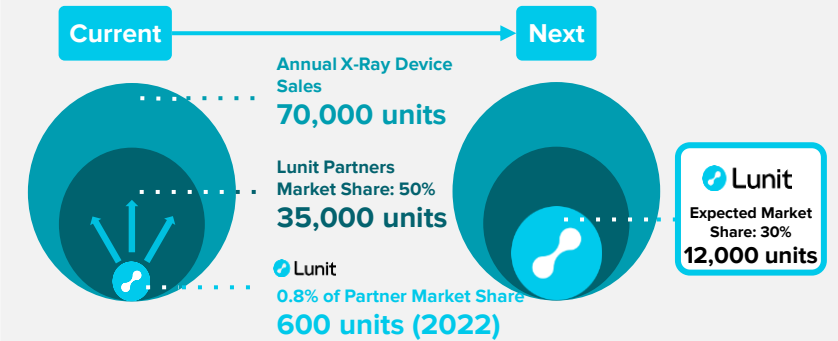
Lunit INSIGHT Revenue Trend

- Overseas
- Korea
- Partnership Signed

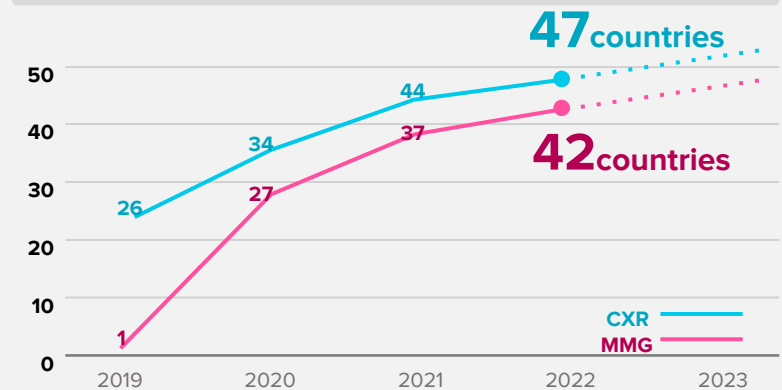
Unit: \$ Thousand



Much Room to Grow through Partnership Channel



Much Room to Grow through Market Expansions



Next Step

Becoming global standard of care by B2G expansion and successful reimbursement

B to G

National Cancer Screening Programs

First Case

Selected into Australia's National Breast Cancer Screening Program

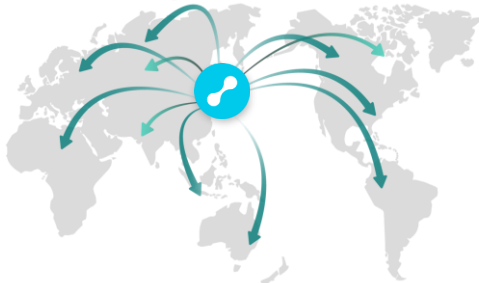
BSNSW (BreastScreen New South Wales):

A free national breast cancer screening program in NSW (MMG every 2 years to women over 40). The first case globally in which an AI-based solution is being applied in a national cancer screening program.



Expansion

+10 countries in discussion, B2G business expansion expected in near-future



Reimbursement

Europe

AI can reduce burden caused by Double Reading in Europe

Outcome	Detection rate of cancer per 1,000 women	Recall rate per 1,000 women
1 Radiologist + Lunit INSIGHT MMG	4.3	28
2 Radiologists	4.1	29.3
Lunit INSIGHT MMG	4.1	15.5

AI + one reader outperforms Double Reading

Detection Rate of Cancer ▲ / Recall Rate ▼

Clinical evidence to replace one reader of double reading system (unique in Europe)

Possibility of reimbursement in Europe

EU, 암 정복 위해 우선 '조기 진단'에 힘 쓴다

"2025년까지 대상 인구 90% 유방암·자궁경부암·결장 직장암 검진 받을 수 있도록 한다"

최문수 기자 | jlysc0229@yakup.com

인력 2022.08.29 06:00 수정 2022.08.29 06:01

Korea

Government Regulation ▽ / Support △

매일경제 2023.04.04. 네이버뉴스

혁신의료기기 시장에 선진입 후 평가받는다...혁신급여'도 도입

우선 시장에 진입하게 해달란 업계 목소리가 있었다. 복지부 관계자는 "이번 선진입, 후평가 안은 의료법·국민건강보험법 등 법률 개정과 사회적 논의가 필요한 사항으로, 단기적으로 혁신...

연말뉴스 2023.04.04. 네이버뉴스

혁신 의료기기 규제완화 확대...민간 정부 R&D 10조원까지 확대

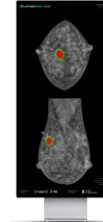
등 혁신 기술 의료기기가 신속히 시장에 진입할 수 있도록 전용 평가 및 유예 제도를 확대하는 등의 방식으로 규제가 완화된다. 아울러 국내 의료기기에 향후 5년간 민간과 정부가 연구개발(R...



Lunit INSIGHT CXR

2020.09

Selected as an Innovative Medical Device



Lunit INSIGHT MMG

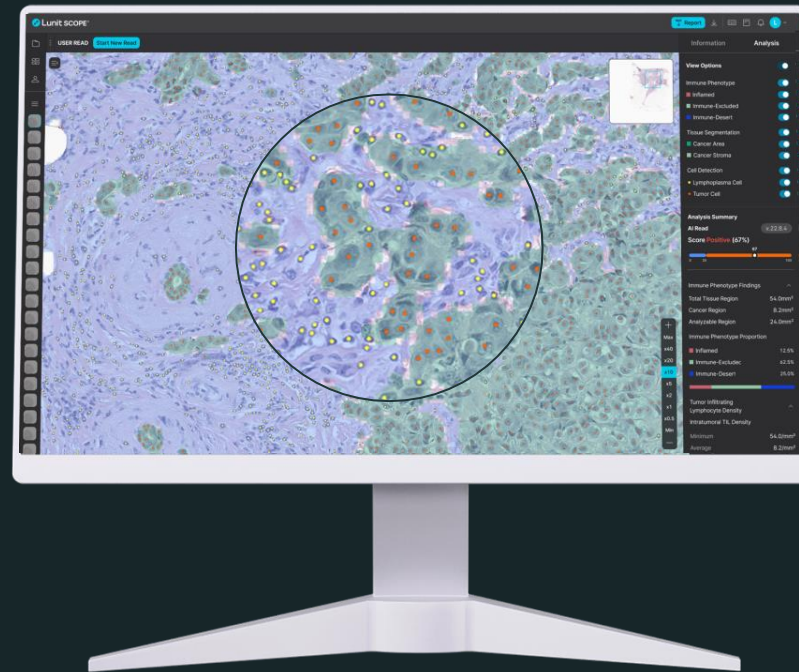
2021.09

Selected as an Innovative Medical Device

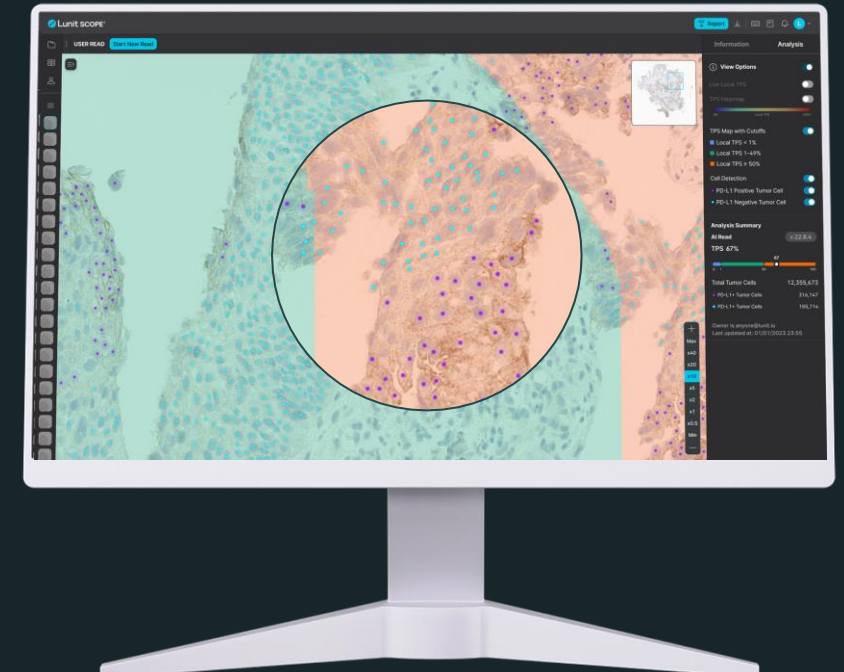
Possibility of reimbursement in Korea



2023 INVESTOR RELATIONS



Lunit SCOPE IO



Lunit SCOPE uIHC

Personalized Approach Is Key to Cancer Treatment

High Complexity in Cancer

Even cancers in the same organ have different biological characteristics and prognoses.

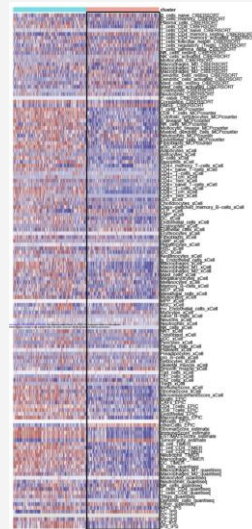
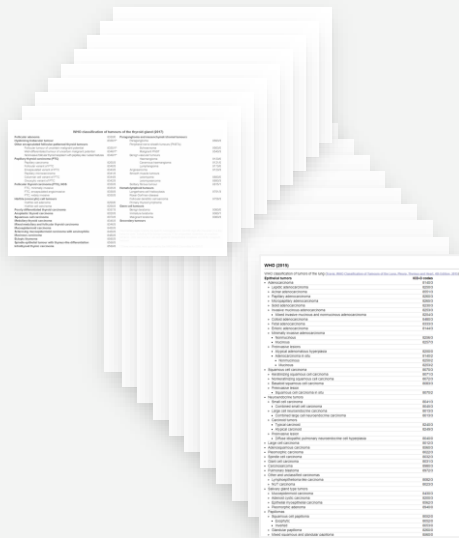
Morphological Type
1,000+

Mutation Type
1,000+

Tumor Heterogeneity
10+

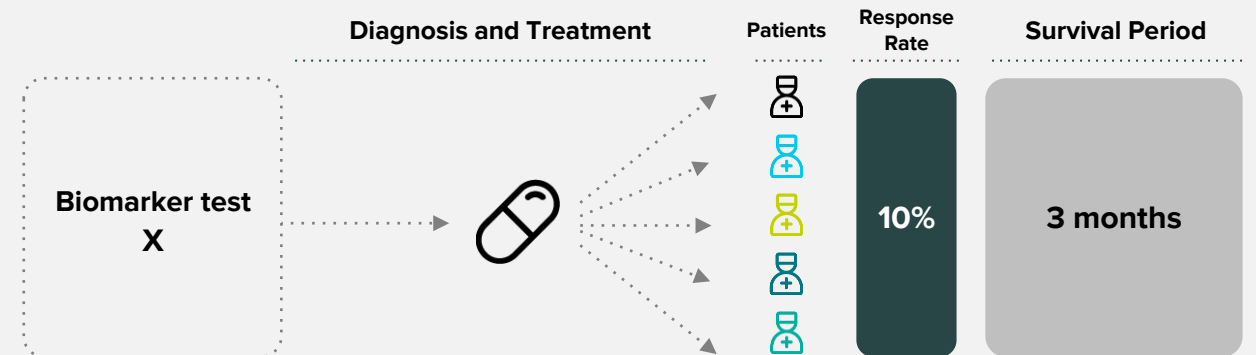
WHO's Morphological Classification

Gene Mutations Causing Cancer

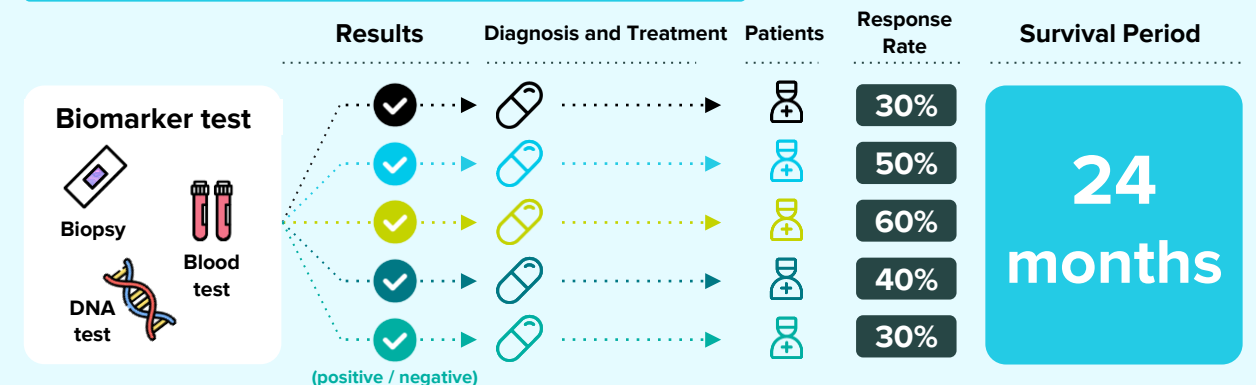


KEY: Personalized Treatment by Biomarkers

Traditional: One general treatment for all cancer patients



Now & Future: Biomarker-based personalized treatment



Lunit SCOPE: Novel Biomarker to Immunotherapy

1st generation (1940 -)

Chemotherapy

Biomarker test X



Detects and attacks fast-growing cells recognized as cancer cells

2nd generation (2000 -)

Targeted Therapy

Biomarker test O = Genetic test

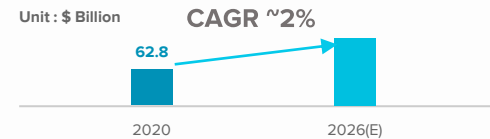


Directly targets certain DNA mutations

Biomarker CDx

EGFR KRAS BRAF BRCA MET ... Total **+20**
ALK ROS1 ER/PR KI67 HER2

Targeted Therapy Market



Source: Targeted Therapeutics Market by Transparency Market Research

Saturated Market

3rd generation (2015 -)

Immunotherapy

Biomarker test O = Analyzing tissue cells



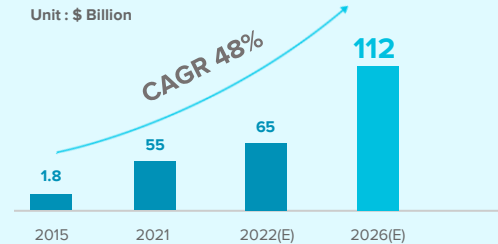
Activates immune cells to kill cancer cells

Not related to DNA mutations

Biomarker CDx

PD-L1 (2015~) MSI (2017~) TMB (2020~) Total **3**

Immunotherapy



Source: Disclosures from pharmas, The Business Research Company

Emerging Market

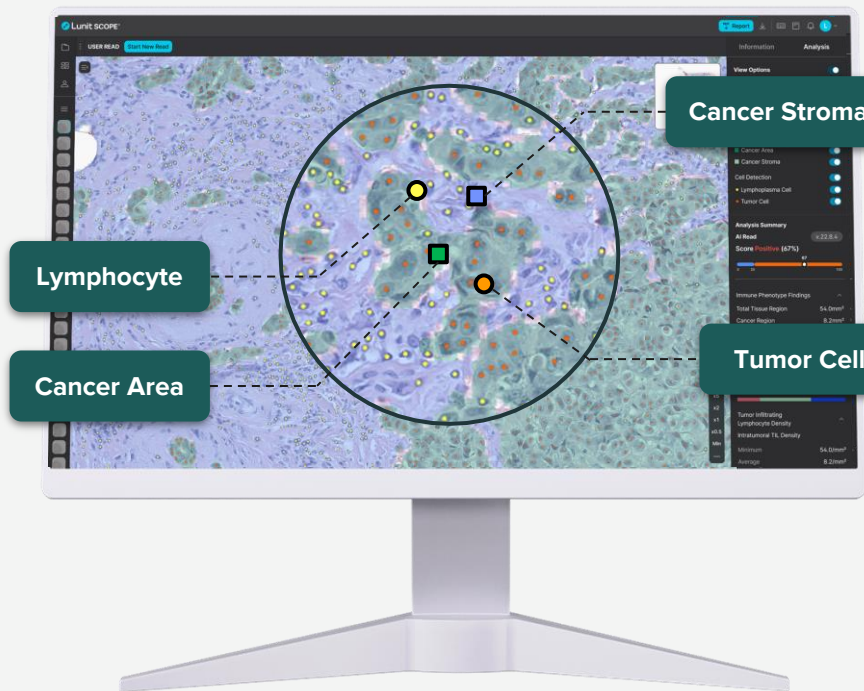
Optimized target for Lunit with large-scale AI image processing technology

Lunit SCOPE Description

Next Generation AI-powered Biomarker

Flagship : Lunit SCOPE IO**Lunit SCOPE IO°**

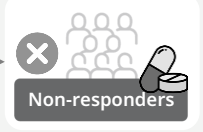
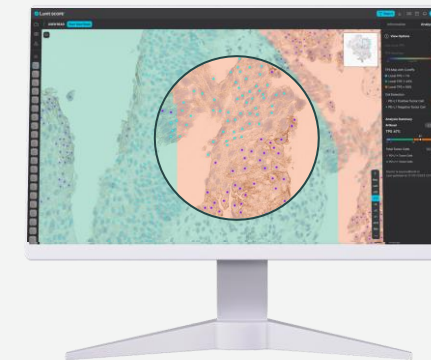
Category : Biomarker based on tumor microenvironment analysis
AI Biomarker classifying patients who can be treated with immunotherapy

**Analysis Result**

Analyzing the immune cell patterns in patient's tissue slide images through AI ; Classifying them into Positive or Negative

Others : Lunit SCOPE Next**Lunit SCOPE Universal IHC**

Category : Biomarker to quantify protein expression and predict response
AI Biomarker classifying patients who can be treated with ADC



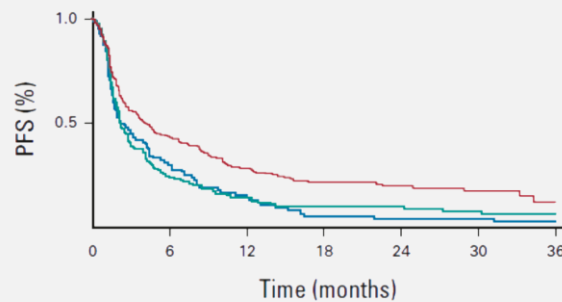
- Lunit SCOPE PD-L1
- Lunit SCOPE HER2
- Lunit SCOPE ERPR
- ⋮
- Lunit SCOPE XXX (Later)

Accurately Identifies Patients Responsive to Immunotherapy

High Prediction of Response to Immunotherapy

SCOPE Classification	Immune Phenotype	mPFS (months)	HR (95% CI)
Positive	Inflamed	4.1	Ref
Negative	Excluded	2.2	1.52
	Desert	2.4	1.58

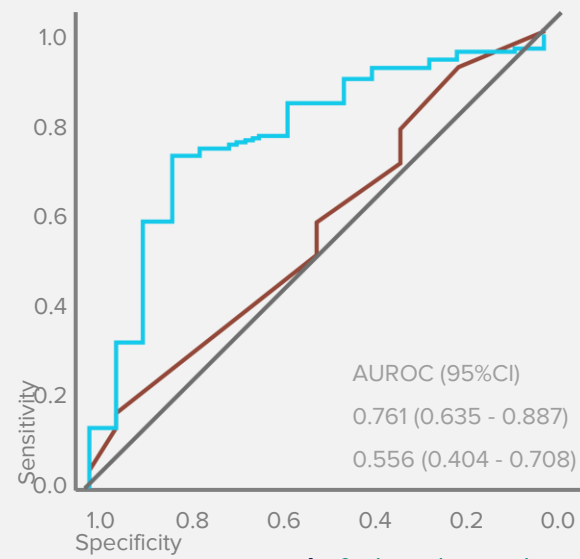
PFS	No.	ORR (%)	mPFS (95% CI)	HR (95% CI)	p
Inflamed	288	26.8	4.1 (2.8 to 6.2)	NA	NA
Immune-excluded	192	11.5	2.2 (2.0 to 2.8)	1.52 (1.23 to 1.88)	9.6×10^{-5}
Immune-desert	98	11.2	2.4 (1.7 to 4.2)	1.58 (1.23 to 2.03)	4.1×10^{-4}



Journal of Clinical Oncology®

Accuracy Comparison Versus PD-L1 (already used biomarker)

PD-L1	Lunit SCOPE IO®
55%	76%



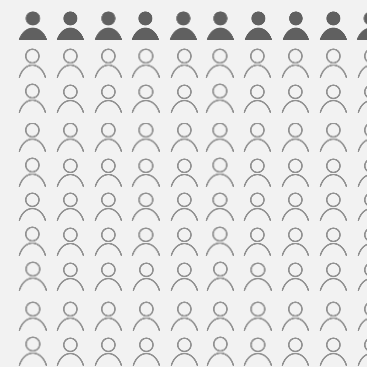
Journal of Clinical Oncology®

Patient Selection Comparison Versus TMB/MSI (already used biomarker)

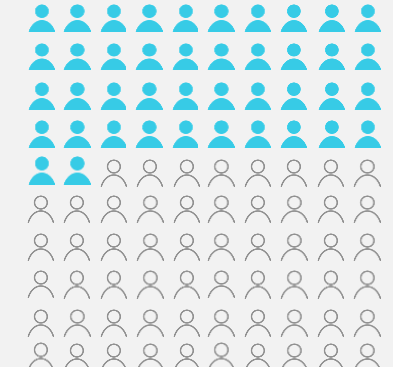
TMB/MSI-High	Lunit SCOPE IO®
10%	42%

Analysis on PD-L1(-) patients who would not be eligible for immunotherapy

10% of patients are identified to respond to immunotherapy



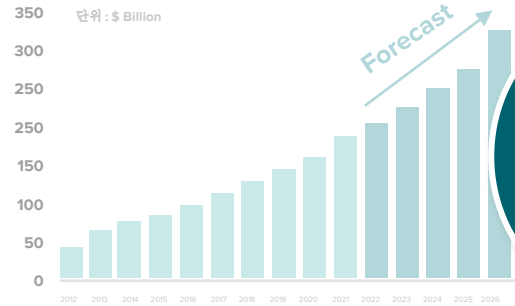
42% of patients are identified to respond to immunotherapy



ASCO®

Lunit SCOPE Market

Use of Biomarkers Is Standard in Cancer Medical Treatment



Source: IQVIA, 2021-2026 Global size and CAGR forecast of Anticancer drugs

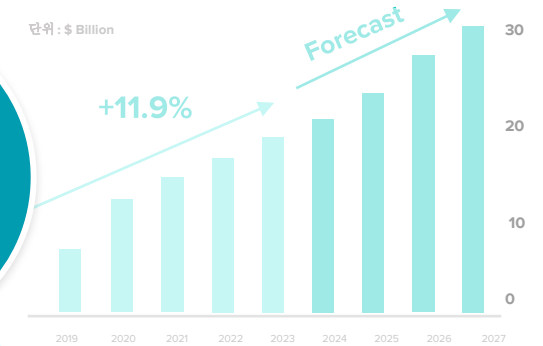
Market Size
+\$300B
CAGR 12%

Pharmaceutical
Companies
Cancer
Drugs



Cancer Diagnostics
Companies
Biomarkers

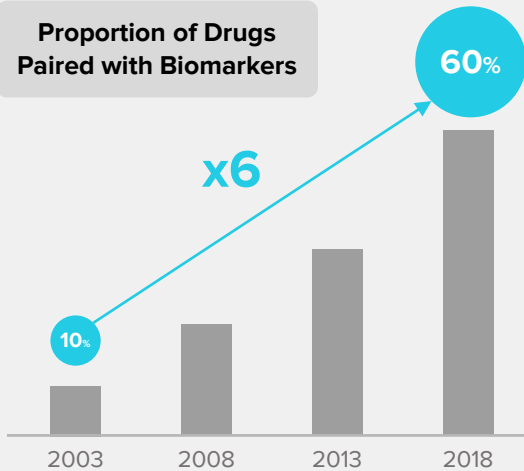
Market Size
+\$27B
CAGR 11.9%



출처: Allied Market Research, Cancer Biomarkers Market, 2020.

Trend in Biomarker (CDx) Use

Proportion of Drugs
Paired with Biomarkers



Source Vadas et al, J Precision Medicine

Global Cancer Drugs (solid-tumor)

Revenue Ranking

Unit: B\$

No	Drug	Pharma	Revenue 2022	FDA Approved Biomarker (CDx)
1	Keytruda	Merck	20.94	PD-L1, MSI, TMB
2	Opdivo	BMS	8.25	PD-L1
3	Tagrisso	Astra-Zeneca	5.44	EGFR
4	Ibrance	Pfizer	5.12	ER/PR
5	Perjeta	Roche	4.30	HER2
6	Tecentriq	Roche	3.91	PD-L1
7	Imfinzi	Astra-Zeneca	2.78	PD-L1
8	Lynparza	Astra-Zeneca	2.64	BRCA
9	Herceptin	Roche	2.25	HER2
10	Avastin	Roche	2.23	-

Successful CDx Cases

	Case 1	Case 2	Case 3
FDA APPROVED			
Biomarker	EGFR	HER2	TMB
CDx Product			
Paired Drugs			

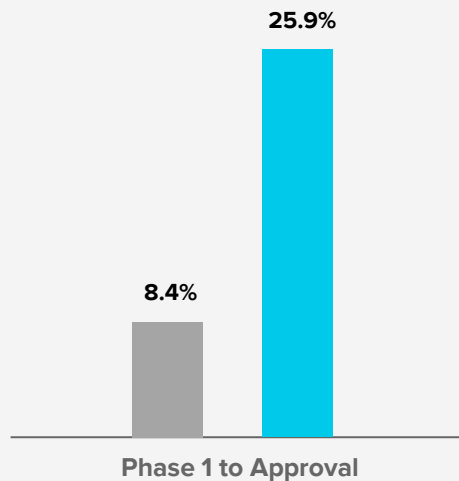
Why Pharma Actively Use Biomarkers (CDx)

Use of biomarkers is key to successful clinical trials

Biomarker leads to
3x higher success rate

Higher ↑
Chance of
Approval

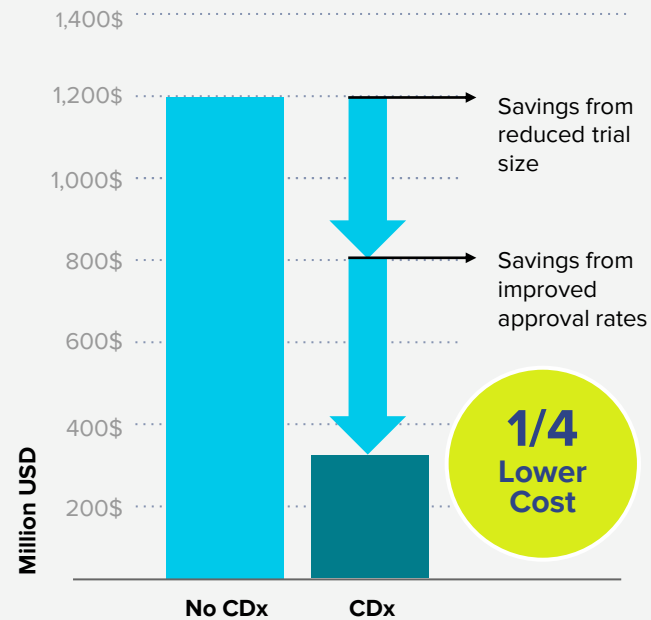
3x
Success
Rate



Source: ARK investment Management LLC

Biomarker leads to
1/4 lower cost for clinical trials

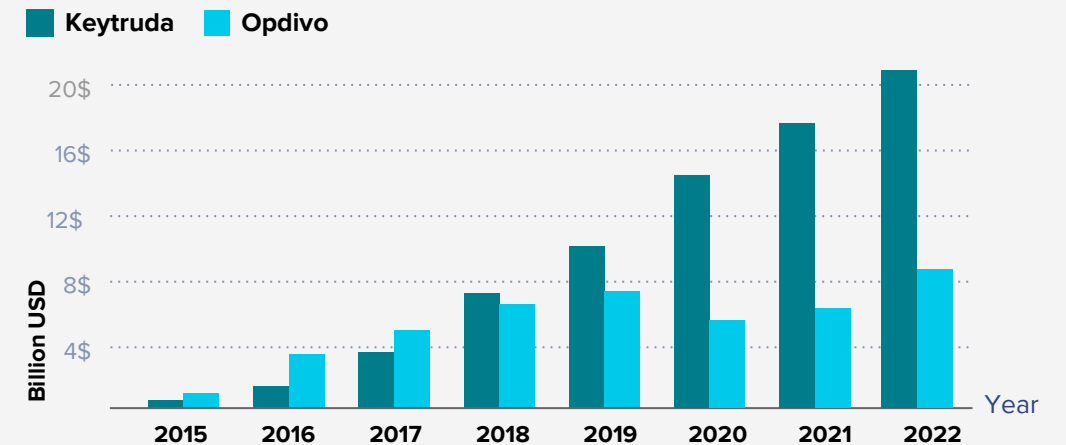
Cost of each anticancer drug



Source: ARK investment Management LLC

Biomarker leads to more frequent use of paired drugs and sales performance

How MSD's Keytruda rapidly surpassed BMS's Opdivo
and became the No.1 cancer drug globally



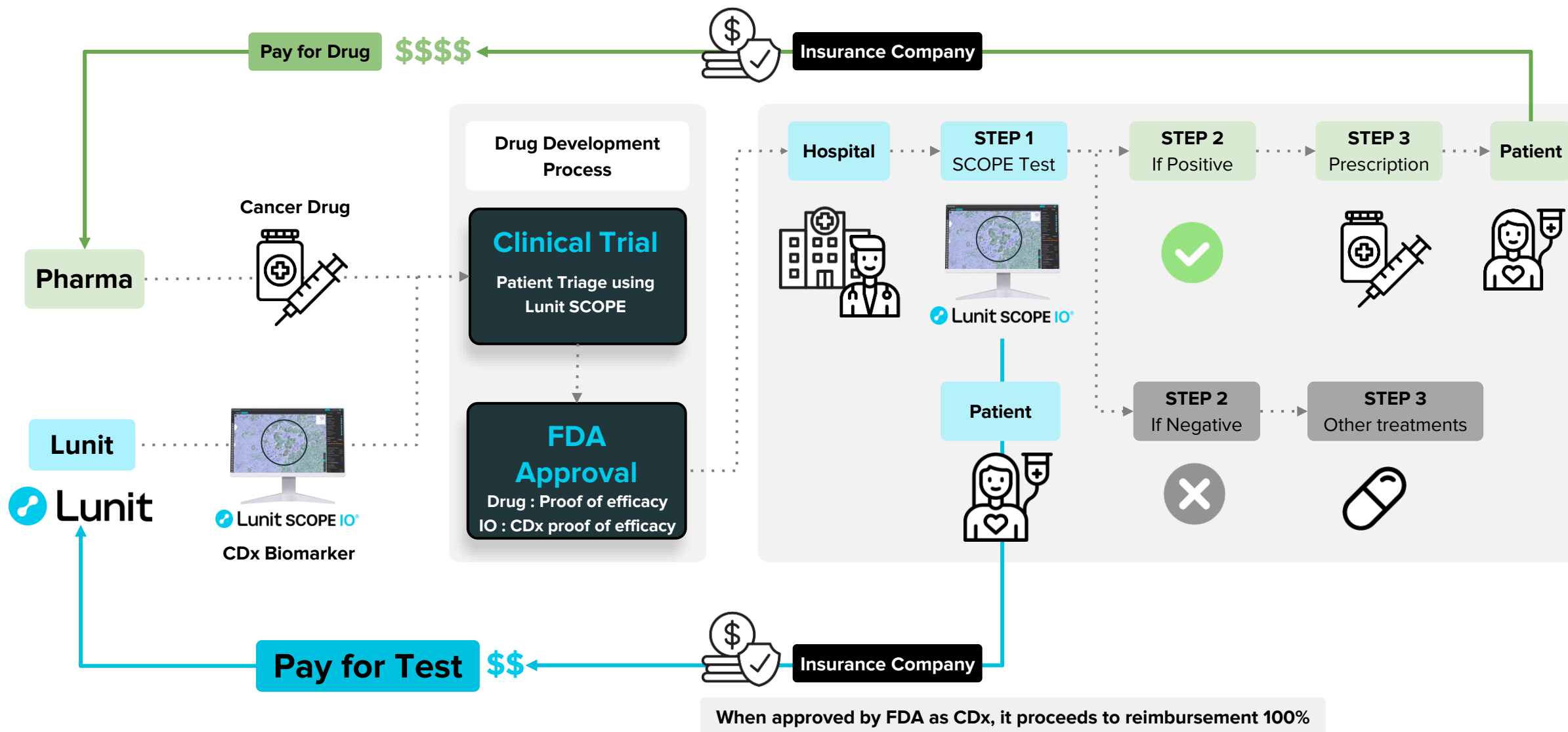
75% of physicians prefer Keytruda because it helps identify how well a patient is likely to respond (Survey by ASCO)

The reason why drugs with biomarker/CDx are
best-selling despite narrower indication

Lunit SCOPE Business Model

Business Model

Paired with pharma's drug, generating high sales by active testing before treatment



Proven to Be Effective in Pharma Clinical Trials

+20 Global Big Pharma

Currently discussing research agreement/
collaboration with leading global pharmas

Monotherapy : 3x more responsive when using Lunit SCOPE IO

Phase 1 : "multiple cancer", anti-PD-(L)1 Inhibitor

		Group	N	ORR
Pharma	Anti-PD-(L)1	All analyzed set	32	21.9%
		Lunit SCOPE(+)	8 (25%)	62.5%
Lunit	Lunit SCOPE IO	Lunit SCOPE(-)	24 (75%)	8.3%

Combotherapy : 2x more responsive when using Lunit SCOPE IO

Phase 1/2 : Colorectal cancer (MSS), TGF-beta Inhibitor + anti-PD-(L)1 Inhibitor

		Group	N	ORR
Pharma	TGF-beta inhibitor	All analyzed set	31	12.9%
		Lunit SCOPE(+)	16 (51.6%)	25.0%
Lunit	Lunit SCOPE IO	Lunit SCOPE(-)	15 (48.4%)	0%

Monotherapy : 2.6x more responsive when using Lunit SCOPE IO

Phase 2 : Rectal cancer, Chemoradiotherapy + anti-PD-(L)1 Inhibitor

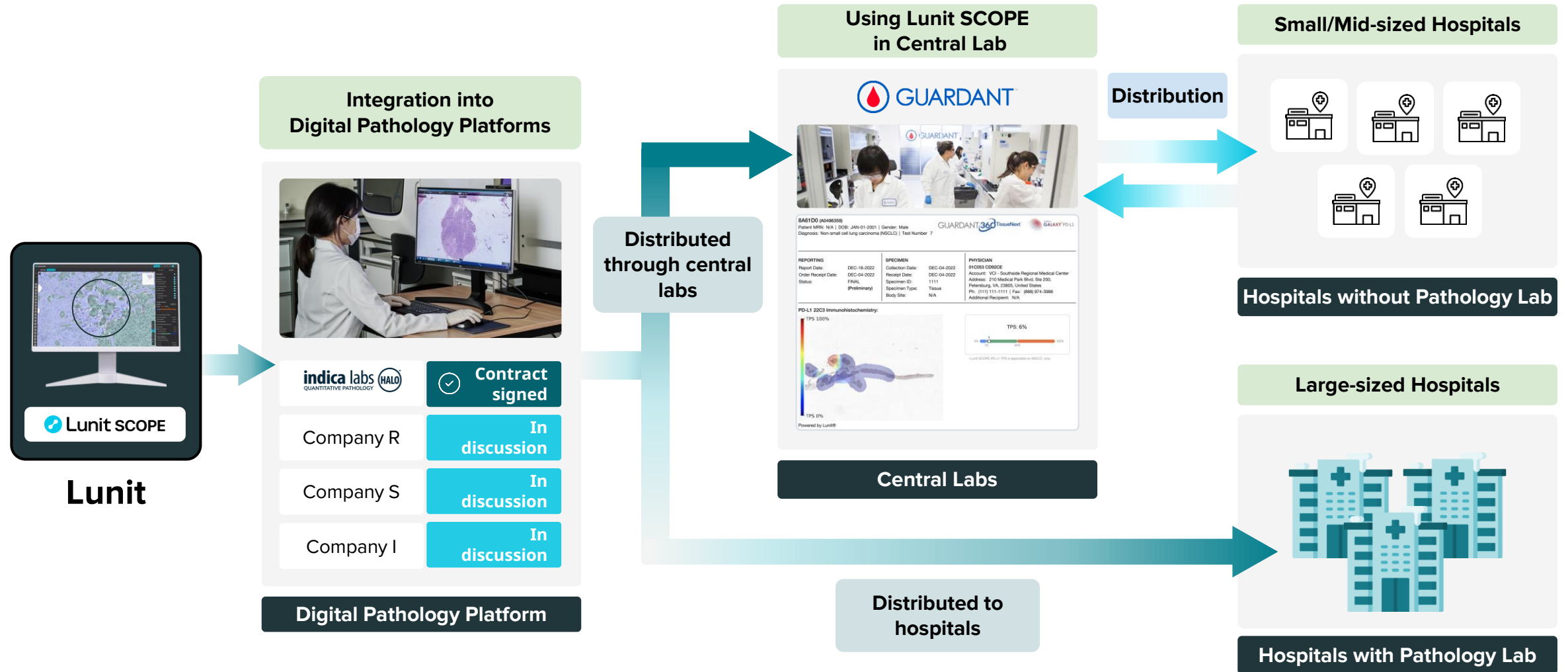
		Group	N	pCR
Pharma	Anti-PD-(L)1	All analyzed set	38	28.9%
		Lunit SCOPE(+)	8 (21%)	75.0%
Lunit	Lunit SCOPE IO	Lunit SCOPE(-)	30 (79%)	16.7%

Combotherapy : 1.6x higher PFS when using Lunit SCOPE IO

Phase 2 : Nasopharyngeal cancer, Chemotherapy + anti-PD-(L)1 Inhibitor

		Group	N	PFS rate (%)
Pharma	Anti-PD-(L)1	All analyzed set	24	32.2%
		Lunit SCOPE(+)	12 (50%)	52.1%
Lunit	Lunit SCOPE IO	Lunit SCOPE(-)	12 (50%)	0%

Lunit SCOPE Commercialization Strategy



Commercialization Roadmap

2017 -

Product Development



Lunit SCOPE®

2021 -

Biopharma Collaboration

Paired as biomarker
for new drug development
clinical trials

2022 -

Early Revenue (RUO Sales)



Clinical collaborations with big
pharma to generate research revenue

E.g.) Guardant Health

2019 Revenue
\$214M
100% RUO sales



2020
FDA Approval

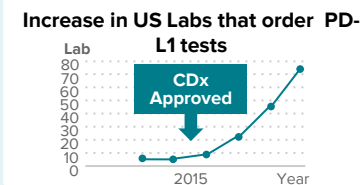
2025 -

FDA Approval



Exponential increase in revenue

Approved as CDx product;
authorized for reimbursement



CDx Approval Example PD-L1

Lunit SCOPE IO Market

\$27B market for cancer biomarkers

Target Market



4.8M

Immunotherapy Patients

X



\$1,500

||

\$7.5B

Pairing Lunit SCOPE with Cancer Drugs

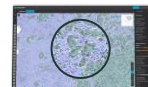
	Drug	Indication
Pharma X	A	X (Lung Cancer)
		Y (Breast Cancer)
	B	Z (Colorectal Cancer)
		Y (Bladder Cancer)

Lunit SCOPE Research Use

Decision to use SCOPE or not



Apply SCOPE in Clinical Trials



Lunit SCOPE IO®

Screening patients with SCOPE for patient
enrollment in clinical trials
OR

Analyzing existing clinical trial data with SCOPE

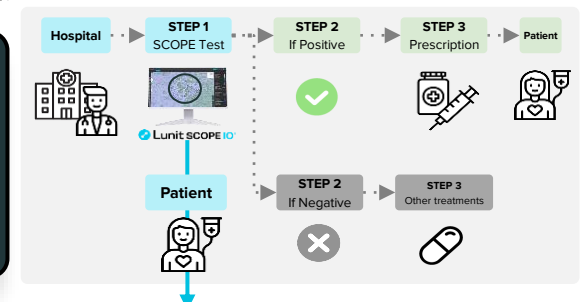
Regulatory Approval as CDx

FDA Approval

Drug : proof of efficacy
IO : CDx proof of efficacy

Lunit SCOPE Commercial Use

















CDx Sales for Patient Use



Research Revenue : Paying Lunit per analysis

Commercial Revenue : Paying Lunit per test

Leading with Advanced Tech, Research, and Collaboration

Company	<div> <div>   </div> <div>   </div> <div>   </div> </div> <p>Leader Group</p> <p>VS</p> <p>Direct performance comparison in the process of investment evaluation by Guardant Health Lunit showed superior performance</p> <div>           </div>			
AI AI tech evaluation	<p>Annual Participation in Top-tier AI Conference</p> <p>CVPR, ECCV, MICCAI, etc.</p> <p>—</p> <p>Weak AI</p>			
Science Medical Journals*	<p>150+/10+ 60+/5+ 20+/10+ Weak Science</p>			
Biopharma	<p>Agreement Discussion with Global Big Pharmas Roche, BMS Sanofi No Biopharma</p>			

*All abstracts and journals / SCI IF 10+ journals

AI-powered “Comprehensive Histophenomic Profiling”

1940 -

1st Generation
Chemotherapy

2000 -

2nd Generation
Targeted Therapy

2015 -

3rd Generation
Immunotherapy

2025 -

4th Generation
Antibody-drug Conjugate (ADC)

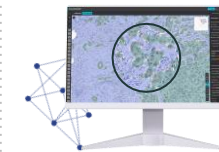
CGP (Comprehensive Genomic Profiling)



- Comprehensive NGS-based biomarker panel mainly focusing on targeted therapy
- Accurate but slow (2~3 weeks)

Test Result	Matched Drug
EGFR mutation	Tagrisso, Iressa, ...
HER2 (ERBB2) amplification or overexpression	Enhertu, Perjeta, Herceptin, ...
BRCA1/2 mutation	Lynparza, Nerlynx, Rubraca, Talzenna, ...
ALK fusion	Alecensa, Zykadia, Alunbrig, Xalkori, ...
KRAS mutation	Lumakras, Krazati, ...
ROS1 fusion	Rozlytrek, Xalkori, ...
MET exon-skipping	Tabrecta, Tepmetko, ...
NTRK fusion	Vitrakvi, Rozlytrek, ...
FGFR2 fusion	Lytgobi, Truseltiq, ...
RET fusion	Retevmo, ...
⋮	⋮

CHP (Comprehensive Histophenomic Profiling)



- Comprehensive tissue-based biomarker panel → Lunit's new approach
- Comprehensive and fast (<3 days)

Test Result	Matched Drug (example)
Lunit SCOPE IO (Inflamed)	anti-PD-(L)1 +/- anti-CTLA4
Lunit SCOPE PD-L1 (Inflamed)	anti-PD-(L)1 +/- anti-CTLA4
Lunit SCOPE IO (Immune-Excluded, Fibroblast)	anti-PD-(L)1 + anti-TGFB anti-PD-(L)1 + IL7-agonist Chemotherapy + IL7-agonist
Lunit SCOPE IO (Macrophage)	anti-PD-(L)1 + Macrophage-modulators
Lunit SCOPE IO (Blood Vessel)	anti-PD-(L)1 + anti-VEGF
Lunit SCOPE HER2	anti-HER2 ADCs
Lunit SCOPE uIHC - TROP2	anti-TROP2 ADC
Lunit SCOPE uIHC - ROR1	anti-ROR1 ADCs
Lunit SCOPE uIHC - PSMA	PSMA-targeted PET
Lunit SCOPE uIHC	Novel Target ADCs
⋮	⋮

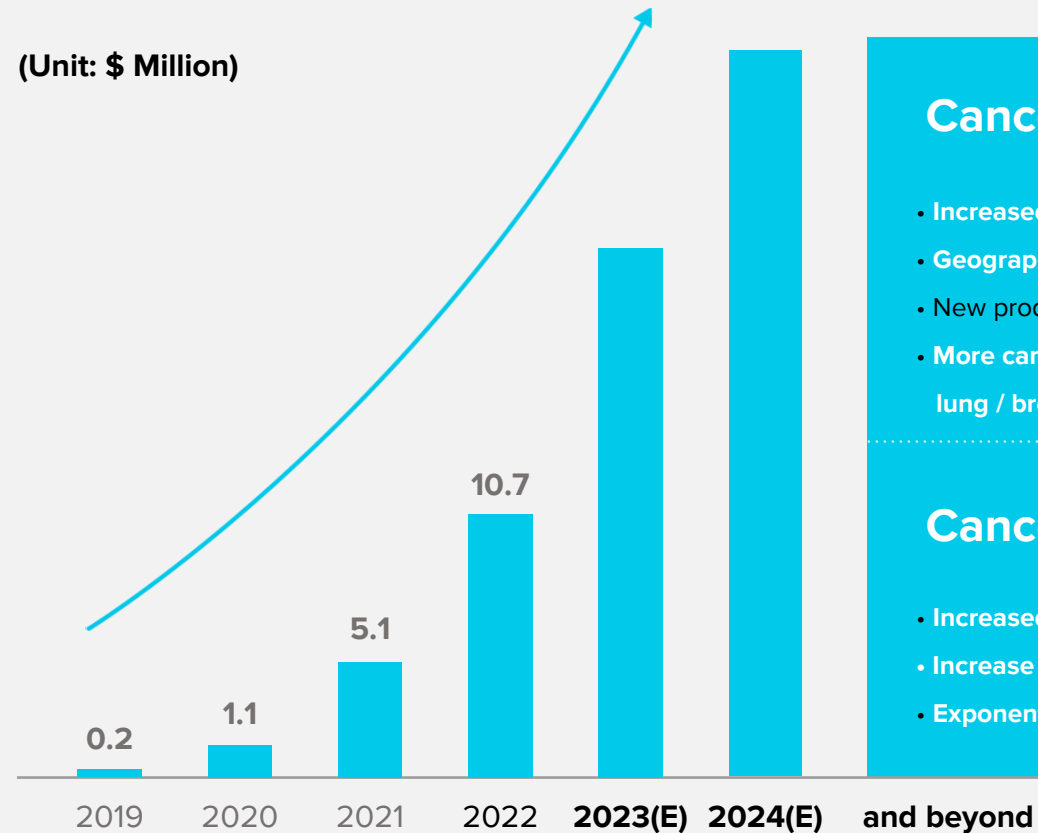
**Lunit SCOPE will become a widely used biomarker panel
for immunotherapy and ADCs**

Our Future

2023 INVESTOR RELATIONS

Short-Term Business Expansion

Lunit Revenue Growth



Cancer Screening

- Increased revenue through partnerships
- Geographical expansion through regulatory approvals
- New products: Lunit INSIGHT DBT, etc
- More cancer types screened
lung / breast → prostate / pancreas / liver, etc.

Lunit INSIGHT



Cancer Treatment

- Increased collaboration with pharmas
- Increase in Research Use Only revenue
- Exponential revenue after CDx approval

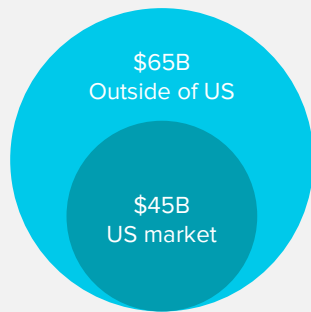
Lunit SCOPE



Long-Term Business Expansion

Cancer Screening

Cancer Screening/Dx Market is a “\$110B opportunity”



“Liquid biopsy is the future of cancer screening”

Bert Vogelstein
Johns Hopkins Oncology

Pioneer in cancer genetics
“Breakthrough Award” (2013)



But liquid biopsy has
clear limitations

LBx accuracy

30%~80%
sensitivity



Lunit will overcome the limitations through a
collaboration of **Imaging AI** with liquid biopsy

Imaging test
+ AI



GUARDANT



LBx

DNA

New screening method

Currently in discussion with Guardant Health:
a test method consisted of imaging+AI and liquid
biopsy

Cancer Treatment

AI biomarker-based Drug Development Company

Drug Discovery

New drug
candidate

Discovered

Small Pharma

Clinical Trials

AI biomarker
+
drug candidate

Lunit

Drug Sales

Remaining
clinical trials
.....
New drug
sales

Big Pharma

License **IN**

License **OUT**

Set biomarker
standard



Conquer Cancer through AI-Based Personalized Medicine

AI is bound to become the future of medicine

“Lunit will become a global standard in the entire cancer care journey”



THANK YOU