

MAPIS Brain Vessels Al

Golden Hour
Guarantees Tomorrow!



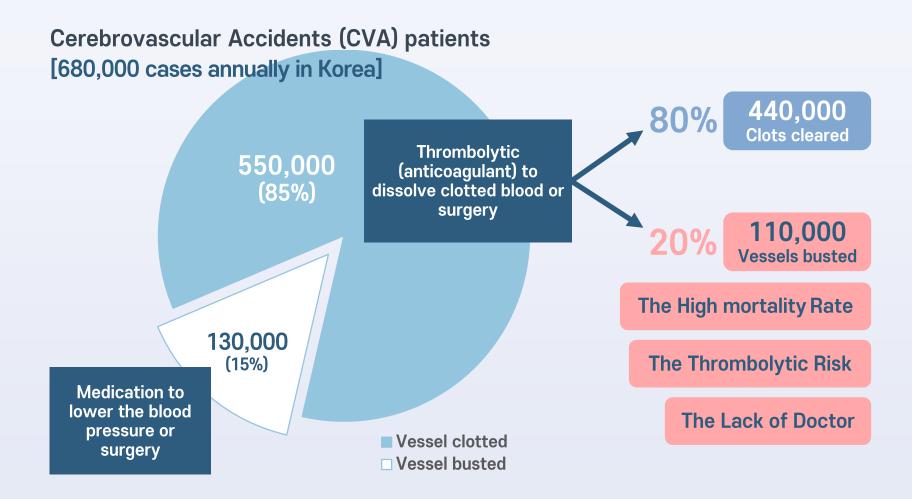
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01 The Current Issues





02 Approach & Story



Need for robust, immediate, and accessible solutions as patients only have 270 minutes.

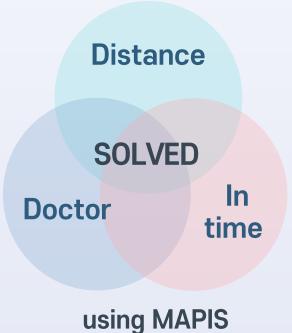


Specialist Deficiency

Lack of specialists in emergency rooms or rural areas increases patient vulnerability.

Thrombolytic Risk

20% of patients receiving thrombolytic drugs face potential hemorrhagic stroke.



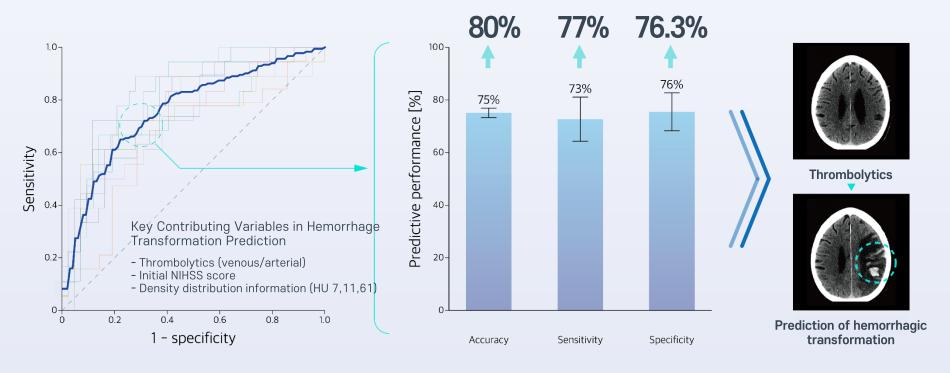


The SolutionThe Methodology

03 The Solution(MAPIS)



Achieved 80%+ accuracy on 1,275 patients using MAPIS (Medical Al Prediction Image System) by 3KBICAS



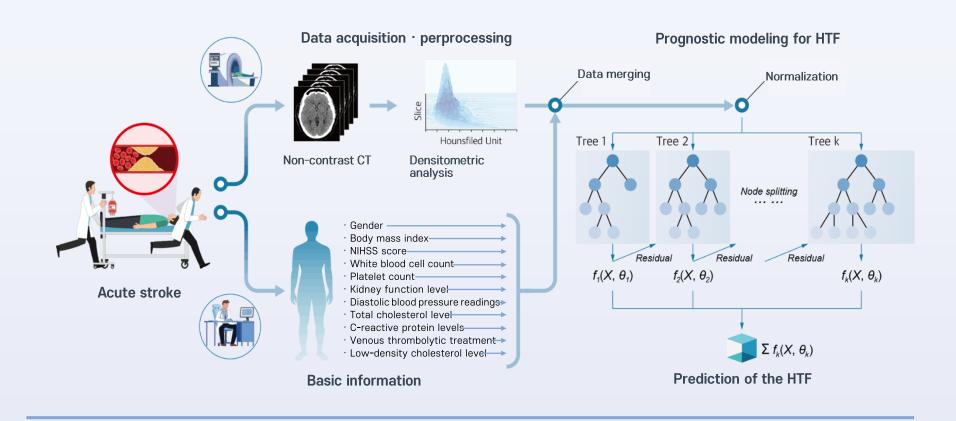
Prediction ROC Curve

Prediction Accuracy

Prediction Case

03 The Methodology





Hemorrhagic Transformation Prediction

Patient EMR Info.

[Basic info., Medical history etc]

Patient's Brain CT Info. + [CNN, PCA]

[Densitometry feature, Morphological parameters]

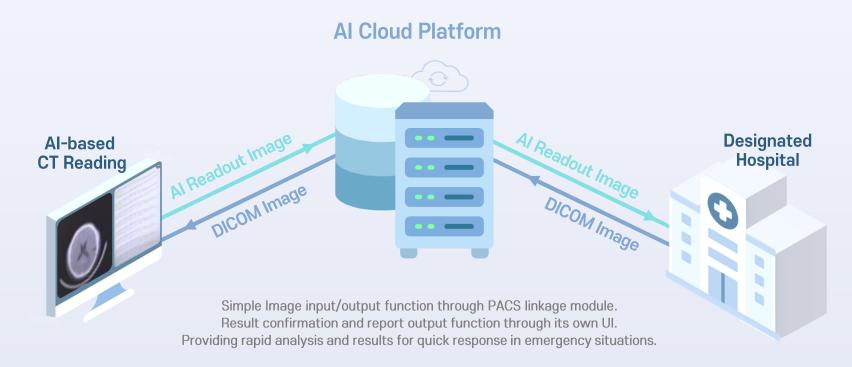
Gradient boosting & K-Fold cross validation



The SystemDevelopment Groups

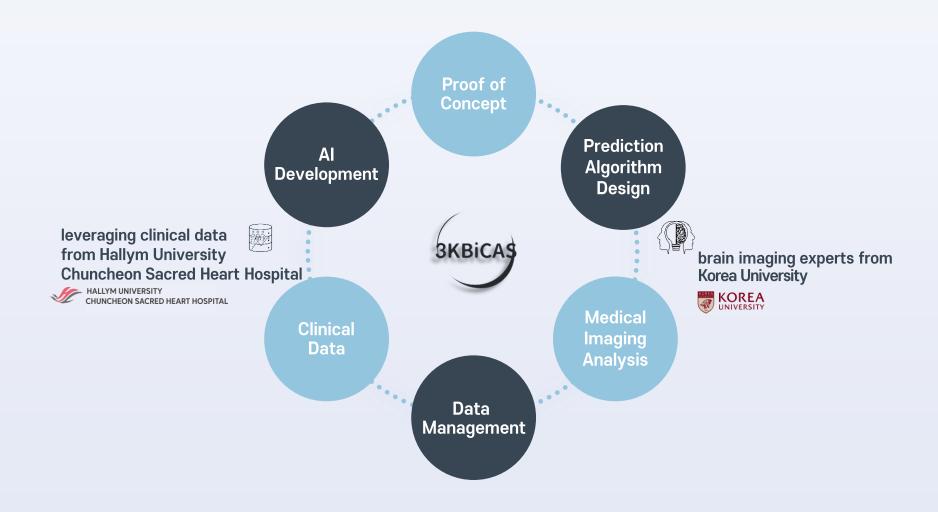


Cloud-based Al Medical Imaging Service Platform



Development Groups







Competitive AdvantageDevelopment Progress

- Competitive Advantages
- Achievements





MAPIS is a golden time saver assisting doctors to make a quick and robust decision.

Korea	3KBICAS	SK C&C	Heuron	VUNO	JLK	Lunit
Offering	Cerebral infarction disease Medical Al Solution	IT Service Solutions by Industry	Cranial nerve disease Al	Medical Al	Stroke diagnosis	Diagnosis and prediction based on medical imaging
Brain Technology	Prediction AI for hemorrhagic transformation **CDSS: Present treatment guidelines	Cerebral hemorrhage readings	Cranial nerve disease (Dementia, Parkinson's, Stroke) cerebral infarction data by CT image	Diagnosing degenerative brain diseases by quantifying the degree of brain atrophy	Severity prediction and stroke area segmentation	N/A
Founded / investment	2018 Angel/Seed (2023: 2Bn)	N/A	2017 Pre-IPO (2021: 34Bn+)	2014 IPO (2021: 59Bn+)	2014 IPO (2019: 54Bn)	2013 IPO (2022: 196Bn+)

Global	Viz	NovaSignal	Zeit Medical	RapidAl	Caption Health
Offering	Brain scan using machine learning / Detecting suspected signs of cerebrovascular and stroke through deep learning algorithms and notifying the attending physician	Diagnosis of real-time cerebrovascular blood circulation in a non- surgical manner, using ultrasound, robotics, and Al	Monitoring cerebral hemorrhage and stroke and transmitting to emergency medical institutions during daily life and sleep, through the head band equipped with ultrasonic technology	Diagnosis and treatment of cerebral hemorrhage and aneurysms	Early screening and diagnosis through ultrasonic solutions

Development Progress



Development





05 Achievements







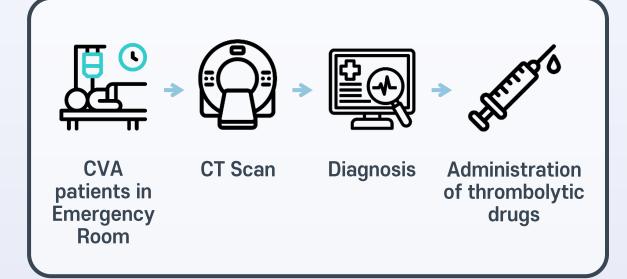


Business ModelSales Roadmap

- Management
- Advisors

06 Business Model





Salaries for Al development and data collection

+

Clinical trials, certification, intellectual property registration

+

Business development for Korea and global



Patients × per usage × Market share =

06 Sales Roadmap



Korea

2024 2025 2026

- · Pilot at 6 Hallym Univ Hospitals
- Package at 20 tertiary general and general hospitals
- Package at 200 tertiary and general hospitals
- SaaS at 100 hospitals and clinics
- Package at 350 tertiary and general hospitals
- · SaaS at 1000 hospitals and clinics

Global

2024 2025 2026

- International Conference
- · Global Partnership

- 1st priority: US, Canada, Japan, and China (16,993 general hospitals: 5,815, 1,200, 1,546, and 8,432, respectively)
- 2nd priority: Southeast Asia
 Germany, Japan, Italia, England,
 France, India

06 Management





Dr. Lee Sanghyung
Medical



- Neurosurgery at Seoul
 National University Boramae
 Hospital
- Professor of Neurosurgery & Medical Device Industry at Seoul National University
- PhD in Neurosurgery at Seoul National University







Dr. Kim Chulho Research

20 years of experience

- Neurology at Hallym University Chuncheon Sacred Heart Hospital
- Professor of Al Convergence at Hallym University
- PhD in Neurology at Hallym University Medical Center







Dongsoo Song
Technology

25 years of experience

- Korea Computer (XML big data)
- ■INEK (AI for e-library mgmt.)
- Prosecution Service (data mgmt.)
- Computer Officer at Army Logistics Command
- Computer Science at Hongik University







Juhyung Lee
Business Development

25 years of experience

- · Vice President at 3K Soft
- · CEO of Geo
- · Hallym University





06 Advisors





Sangwon Seo **Brain Neuroscientist**

Dean of Hallym University College of Medicine

TEXAS STATE

UNIVERSITY

■ PhD at Texas State University



Dongju Kim **Brain Engineering**

- Brain Engineering Department of College of Informatics at Korea University
- Professor of Neurology and Al Studies
- PhD in Engineering at University of Cambridge



Jundong Park Immunology & Pediatrics

- Chief of Pediatric **Emergency Department at** Seoul National University Hospital
- Director of Seoul National University Institute of **Immunology**
- PhD in Pediatrics at Seoul National University



Hyungkyu Kang Strategy



- Deloitte Consulting
- DKV Korea
- Accounting at Pennsylvania State University

Deloitte.



Jun-ho Jeong **Brand Ambassador**

- Journalism and Information Studies, Cultural Contents & Department of Theater and Film at Kyung Hee University
- Executive Committee Chairman at Jeonju International Film Festival











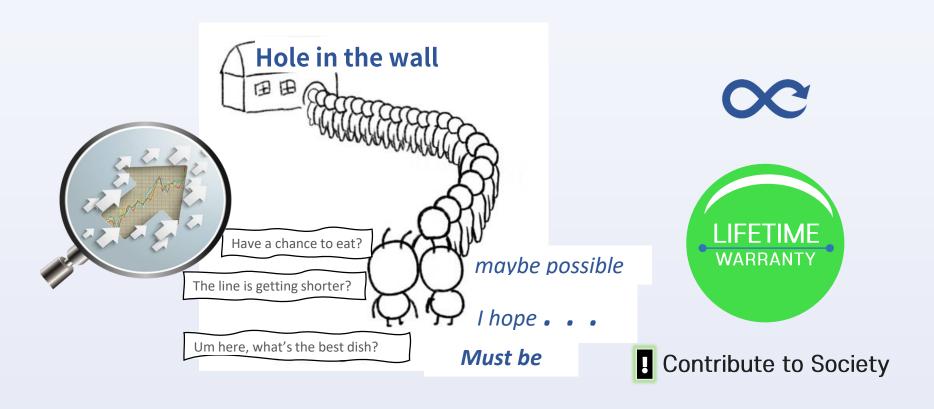






✓ Sources & Uses







270 that doesn't collapse a life. Keep in time!

Thank you.