

# THE AI STARTUP UNIVERSE: A COMPANY SNAPSHOT



SINCE 2014



## LEADERSHIP

HYUN-JUN KIM,  
CEO

KYU-HWAN JUNG  
CTO

YEHA LEE,  
BOARD OF DIRECTORS



## CLIENTS

100+



## PARTNERSHIPS



## BUSINESS MODEL

Pay-per-use



## INVESTMENT ROUNDS

### TOTAL FUNDING

\$15M

Received in three rounds of funding

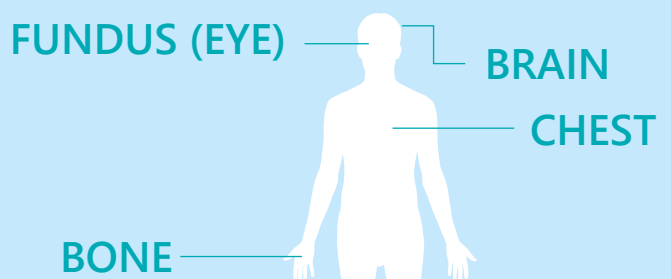


## BRIEF HISTORY

- 2014 – establishment of VUNO
- 2015 – VUNO is ranked **5th at the ImageNet Large Scale Visual Recognition Challenge (ILSVRC)**
- 2018 – Ranked **1st at the ISBI Funduscopy Challenge** sponsored by the International Symposium on Biomedical Imaging (ISBI)
- 2018 – Ranked **2nd at challenge in International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI)**
- 2018 – Ranked in the **top 1% of 3,000 teams in the Pneumonia Detection Challenge** for the RSNA Kaggle challenge
- 2018 – Ranked **1st at the AI Startup Challenge** sponsored by Amazon Web Services (AWS)
- 2018 – **Digital Transformation (DX) award, Korea**
- 2018 – VUNO Med®-BoneAge™ won **MFDS approval as a Korea's first AI medical device**
- 2019 – Ranked in the **top 1% of 1,345 teams in the Intracranial Hemorrhage Detection Challenge** for the RSNA Kaggle challenge
- 2020 – Ranked **1st at the ISBI Funduscopy Challenge** sponsored by the International Symposium on Biomedical Imaging (ISBI)

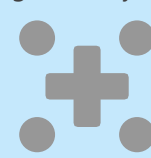


## AREA OF EXPERTISE/ CURRENT SOLUTIONS:



### VUNO Med® Series:

- DeepBrain™** – Parcellates the brain into 100+ parts using 3D T1 non-contrast MRI in a short time, and provides quantitative data describing volume, normative percentiles, and cortical thickness with color overlays
- Fundus AI™** – Detects lesions within a second, classifying and localizing them in funduscopy images of retinas to provide diagnostic information
- Chest X-ray™** – It can find nodule/mass, consolidation, interstitial capacity, pleural effusion, and pneumothorax. The system is also capable of detecting thoracic diseases such as TB and Pneumonia.
- Lung CT AI™** – Detects and quantifies the size and the volume of lesions, based on CT images within one minute. Medical staff can check preliminary information provided by the solution. They are also given further information categorized based on Lung-RADS.
- LungQuant™** – Specially designed for the screening, diagnosis and management of patients with suspected or known COVID 19 infection. It is a deep learning-based automatic lung CT quantification solution for interstitial lung disease patterns.
- BoneAge™** – Assists bone age assessment based on a child hand's X-ray image, reducing reading time and significantly improving accuracy



## MODALITIES COVERED



MRI, CT, X-ray, Biosignal



## STEP OF THE RADIOLOGIST JOURNEY

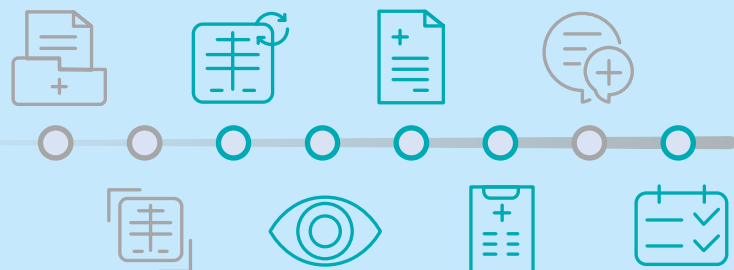


IMAGE PROCESSING, DETECTION,  
DIAGNOSIS, LABELLING &  
REPORTING, PERFORMANCE  
MANAGEMENT



## VISION FOR THE FUTURE

### Product Development Roadmap:

- Expand its clinical application field **from diagnosis aids to early examination and treatment decisions**

### How do you see the future of the AI ecosystem?

**AI is here to conquer the world.** It rewrites the past and the present of our experiences and it is ready to go above and beyond our imagination. AI technology is marching into practically every field to address daunting challenges and problems facing us today, and the medical field is no exception. **Deep learning algorithms trained on large sets of high-quality medical data are performing just as well as their human counterparts if not better.**

### What is your role in it?

VUNO's AI solutions are reshaping the medical industry presenting **a whole new level of experience** to medical practitioners in their day-to-day workflow, enabling them to make diagnostic decisions **faster and more accurately** and to provide quality patient care. We are **on a mission** to **"View the Invisible, Know the Unknown"**, and will never rest until we discover the invisible and unknown territories of medicine by **navigating the ambiguity with the help of artificial intelligence.**