

Social Implementation of the Heart Sound AI Diagnostic Assistance System and Development of Heart Sound Biomarkers (AMI Inc.)



City	Year of Establishment	Founder
Kumamoto	2015	Shimpei Ogawa

Partner VC	Latest round of Fundraising	Valuation
Real Tech Holdings Co.,Ltd.	Series B	JPY 4,070 million

○ Business Plan

The main focus is on developing a compact, low-noise, and high signal-to-noise ratio super stethoscope, capable of measuring heart sounds and electrocardiograms. By utilizing signal processing and deep learning technologies, we aim to develop and implement heart failure and heart valve disease estimating AI. Through the commercialization of heart sound analysis Doctor to Doctor service, we aim to screen these cardiac diseases and connect individuals to appropriate treatment in preparation for the upcoming heart failure pandemic.

○ Research Outline

In this research and development, we will enhance the accuracy of the severity classification AI for heart valve diseases, conduct clinical performance trials, and apply for regulatory approval. Additionally, we will develop two new AIs capable of identifying cardiac conditions, and expand the suite of diagnostic assistance functions. Furthermore, we will have end users utilize the remote auscultation heart sound analysis Doctor to Doctor service and conduct surveys to gather feedback. Using this feedback, we will make interface improvements and assess business viability, and aim for an official release.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Healthcare	PCA 2023～2024FY	JPY 183 million	North America, Asia

○International collaborative technology demonstration

- Contract with local partners
- Relationship development with potential local partner

In this research, the following actions will be taken targeting North America and Asia:

- Market research and business plan formulation for phonocardiogram devices in North America and Asia.
- Selection of local partners and manufacturers for research and development purposes in North America and Asia, as well as design and development of phonocardiogram devices.
- Conducting rule-making surveys for phonocardiogram devices and examining testing methods, as well as preparing for FDA submissions (510(k), pre-sub).

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