

Development of an Automated Assisted Reproductive Technology System(ARCS Inc.)



City	Year of Establishment	Founder
Shibuya-ku, Tokyo	2022	Masayasu Tanase

Partner VC	Latest round of Fundraising	Valuation
HIRAC FUND (Money Forward Venture Partners, Inc.)	Series A	Non-Disclosure

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○ Business Plan
Leveraging artificial intelligence (AI) and robotics technologies, the company aims to create a world where everyone has access to safe, high-quality fertility treatment. In particular, at assisted reproductive technology (ART) clinics, embryologists handle human sperm and eggs to perform fertilization and culture procedures. These tasks face challenges including a shortage of embryologists and variability in clinical outcomes due to differences in operator skill level. The purpose of this project is to address these challenges through a work automation system that reduces the burden on medical professionals and improves treatment success rates (i.e., pregnancy rates).

○ Research Outline
The project will complete a prototype of the automation system and advance it toward practical implementation through performance verification and other evaluations. In parallel, R&D activities targeting global expansion will be initiated, and overseas business development activities will be pursued proactively.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Healthcare	STS 2026～2027FY	JPY 389 million	United States, Europe

- International collaborative technology demonstration
- Relationship development with potential local partner
- [STS Period Targets]
1. Formulate overseas clinical trial plan
 2. Secure clinical research agreement with overseas medical institutions
 3. Prepare regulatory submissions (FDA/MDR)