

Project to develop a domestic surgical robot with pneumatic-driven force sensing function for the U.S. market (RIVERFIELD Inc.)



City	Year of Establishment	Founder
Minato-ku, Tokyo	2014	Kotaro Tadano

Partner VC	Latest round of Fundraising	Valuation
-	Series F	JPY 12,823 million

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○ Business Plan

The objective is to develop a surgical robot for the U.S. market and obtain FDA approval. The robot will be designed to improve the safety and accuracy of minimally invasive surgery through high-precision force feedback technology and to be suitable for the physical stature of U.S. patients. Furthermore, the company aims to commercialize the surgical robot for the U.S. market by ensuring regulatory compliance and verifying its effectiveness through clinical evaluations.

○ Research Outline

This R&D will develop an improved version of the current Saroa Surgical System for the U.S. market and solve issues related to the U.S. market deployment.

- (1) Larger arm size
- (2) Elongation of forceps
- (3) Development of new base unit
- (4) Development of optional arm
- (5) Clinical trial

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Healthcare	PCA 2025～2028FY	JPY 965 million	U.S.A.

○International collaborative technology demonstration

- Relationship development with potential local partner

The breakdown of overseas technology demonstration is the clinical trial of Saroa to be conducted in the US. A clinical trial is a study conducted for the purpose of final confirmation of efficacy and safety in humans using a product for which research and development has been completed. The clinical trial report will be an important document for the U.S. FDA regulatory submission required for the U.S. market launch of Saroa, and is a particularly important demonstration work in this grant project.