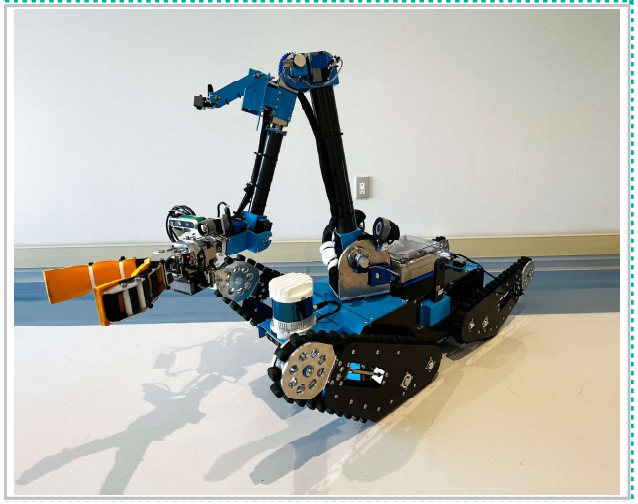
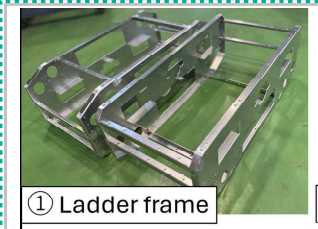
Plant Disaster	Challenge	MISORA+UoA	Japan/Fukushima

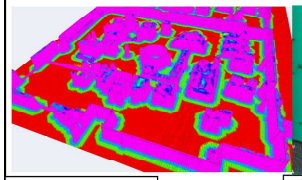


Key Development Points

① Carbon frame for strength & lightness;
② semi-auto arm & torque hand ease use;
③ 3D SLAM + 2.5D maps for autonomy;
④ vision automates gauges, QR, cracks.


① Ladder frame

②6DoF-Arm + Gripper


③ 2.5D Map

④ Auto-read gauges value

Team Introduction

Inspired by lessons from the Great East Japan Earthquake, we aimed to build robots useful on site. Our team includes a development firm and University of Aizu students.

We aim to expand beyond disaster response robots into agriculture, forestry, fisheries, and construction.

Role		Affiliation/Position	Areas of expertise, research fields
Team Leader	Yuma Matsumura	Kufusha Inc.	Robot Development (SLAM Navigation)
Robot Operator 1	Yuki Nagasawa	University of Aizu Graduate School	Robot Development (Image Recognition)
Robot Operator 2	Takeo Numao	HAMA, Inc.	Robot Development (Drone Operation)
Safety Manager	Taiga Sasaki	Kufusha Inc.	Robot Development (Arm Control)
Assistant	Shouta Hasegawa	Takawaseimitu Co., Ltd.	Robot Development (Hardware Design and Production)
Network Manager	Rui Iwata	University of Aizu Graduate School	Robot Development (Image Reporting Program)
Member	Iichirou Onishi	Kufusha Inc.	Team Management
Member	Teruaki Kanbayashi	Takawaseimitu Co., Ltd.	Robot Development (Mechanical Design and Development)

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