Together, Creating, Making Reality, in Fukushima

Fukushima Innovation Coast Promotion Organization

Fukushima Prefecture established the Fukushima Innovation Coast Promotion Organization to be the central agency in the advancement of the Fukushima Innovation Coast Framework, a national project of Japan. In accordance with the Reconstruction and Revitalization of the Fukushima Plan outlined in the Act on Special Measures for the Reconstruction and Revitalization of Fukushima, we work along with everyone through a variety of efforts in order to bring about a future Fukushima can proudly show the world.

Promotion Organization Initiatives

Industrial Clusters & Business Matching

- Attracting companies to the Hamadori region
- Partnering expansion with local companies
- Supporting launch of new company businesses
- Supporting private company entry into agriculture


Hamadori area bus tours

Management and Operation of Base Facilities

- Managing the Fukushima Robot Test Field
- Managing the Great East Japan Earthquake and Nuclear Disaster Memorial Museum
- Promoting base activities locally and beyond


Fukushima Robot Test Field (RTF)

Education and Human Resource Development

- Supporting the collaboration of high school and other educational curriculum with industry and research institutions
- Supporting education and research activities at universities, etc. in collaboration with municipalities


Programming education utilizing student (TA) insight (University of Aizu)

Spreading Information

- Presenting easy-to-understand information about the framework to residents of the prefecture and others
- Communicating the appeal of the framework to attract visitors from outside the prefecture


Symposiums

Increasing the Number of Visitors

- Attracting visitors to each Hamadori region location
- Promoting relocation and settlement in the Hamadori region
- Managing the Fukushima 12-Municipality Migration Support Center


Future Work Fukushima Relocation Seminar

Fukushima Innovation Coast Framework Progress

June 2014
- Compiled reports from the Fukushima Innovation Coast Framework Seminar
- Framework first defined in the Basic Policies for Economic and Fiscal Management 2014 (robust policy)

May 2017
- Act on Special Measures for the Reconstruction and Revitalization of Fukushima amended and framework codified.
- Fukushima Prefecture establishes the Fukushima Innovation Coast Promotion Office

July 2017
- Fukushima Innovation Coast Promotion Organization is founded as a general incorporated foundation
- 1st Fukushima Innovation Coast Promotion Organization ministerial meeting (attended by Prime Minister)

April 2018
- Prime Minister certifies the Intensive Promotion Plan in the Act on Special Measures for the Reconstruction and Revitalization of Fukushima

January 2019
- Fukushima Innovation Coast Promotion Organization transitions to a public interest incorporated foundation

December 2019
- Coordinated the industrial development blueprint which acts as the foundation of the Fukushima Innovation Coast Framework

May 2020
- Prime Minister certifies changes to the Intensive Promotion Plan in the Act on Special Measures for the Reconstruction and Revitalization of Fukushima

April 2021
- Prime Minister certifies reorganization of the Intensive Promotion Plan in the Act on Special Measures for the Reconstruction and Revitalization of Fukushima into the Reconstruction and Revitalization of Fukushima Plan

December 2022
- Prime Minister certifies changes to the Reconstruction and Revitalization of Fukushima Plan in the Act on Special Measures for the Reconstruction and Revitalization of Fukushima

Fukushima Institute for Research, Education and Innovation (F-REI)

F-REI is a national corporation (established in April 2023) which will work towards the reconstruction of Fukushima and the whole of the Tohoku region, strengthening Japan's scientific and technological capabilities and industrial competitiveness, and stand as a world-leading center for creative reconstruction efforts. F-REI is expected to act as a control-point and further develop the Fukushima Innovation Coast Framework.

The 5 Fields of F-REI's Research Initiatives

1. Robotics
2. Agriculture - Forestry - Fisheries
3. Energy
4. Radiation science, medicinal drug development, industrial use of radiation
5. Collection and dissemination of data and knowledge related to nuclear disasters

Public Interest Incorporated Foundation
Fukushima Innovation Coast Promotion Organization
FIPO
Nakamachi Building 6F, 1-19 Nakamachi, Fukushima City, Fukushima Prefecture 960-8043, Japan https://www.fipo.or.jp

March 2023 With support from:
Fukushima Prefecture, Reconstruction Agency, METI

*All information in this pamphlet is up to date as of February 28th, 2023.


Decommissioning of Nuclear Reactors
Naraha Center for Remote Control Technology Development (NARREC)


Robotics and Drones
Fukushima Robot Test Field (RTF)


Energy, Environment, and Recycling
Fukushima Hydrogen Energy Research Field (FH2R)


Agriculture, Forestry, and Fisheries
Closed-off Nursery Facility (Berg Fukushima)


Medical Industry
Training healthcare workers at the Fukushima Medical Device Development Support Center


Aerospace
Robot and Aerospace Festa Fukushima 2022

FUKUSHIMA INNOVATION COAST FRAMEWORK

A national project to build new industrial infrastructure in the Hamadori region of Fukushima

Fukushima Innovation Coast Framework

Together, Creating, Making Reality, in Fukushima

FUKUSHIMA INNOVATION COAST PROMOTION ORGANIZATION

Fukushima Innovation Coast Framework　Main Projects

Fukushima Innovation Coast Framework is a national project that aims to build a new industrial infrastructure of the coastal region of Fukushima Prefecture to recover the industries lost due to the earthquake and tsunami on March 11, 2011 and nuclear disaster.

Project 1

➡See P3-4 for more details

Technological development that brings together the expertise of Japanese and international professionals.

Decommissioning of Nuclear Reactors

Naraha Center for Remote Control Technology Development conducts required demonstration tests for decommissioning (Naraha Town)

Collaborative Laboratories for Advanced Decommissioning Science (CLADS) conducts R&D and human resource development for decommissioning (Tomioka Town)

Okuma Analysis and Research Center conducts analytical research on the disposal and processing of radioactive waste (Okuma Town)

Project 2

➡See P5-10 for more details

Creating industrial clusters of robotics with the Fukushima Robot Test Field at the core

Robotics and Drones

The Fukushima RTF recreates land, sea, and air environs for robot use (Minamisoma City, Namie Town)

Acts as an intermediary for the Hamadori region in providing testing and training locations for robotics and drones

Project 3

➡See P11-12 for more details

Toward the establishment of cutting-edge renewable energy and recycling technologies

Energy, Environment, and Recycling

Working to promote the systematic and smooth introduction of renewable energy throughout the entire Hamadori region as well as hasten the introduction of such forms of energy through the maintenance of power transmission lines shared between solar and wind power generators.

Project 4

➡See P13-14 for more details

Revitalization of agriculture, forestry and fisheries industries through the use of ICT, robotics, and other technologies

Agriculture, Forestry, and Fisheries

Promulgation of direct seeded onion cultivation through mechanization

Promulgation of AI ultrasonic meat quality analysis to diagnose quality of beef cattle meat during fattening

Project 5

➡See P15-16 for more details

Developing business opportunities through supporting technological development

Medical Industry

The Medical Science Translational Research Center aids in technology transfer and consulting for corporations throughout the Hamadori region in the aim of concentrating medical industry in the region (Fukushima City)

The Fukushima Medical Device Development Support Center is the first of its kind in Japan to provide integrated support for medical devices from development to commercialization (Koriyama City)

Project 6

➡See P17-18 for more details

Developing next-gen air mobility technology and enhancing competitiveness of companies in the field

Aerospace

The Aerospace Festa Fukushima is held to promote exchanges of technology and business negotiations in the aerospace sector as well as raise public awareness

IHI Soma Works (production base for aero-engine and space related components)

The Fukushima Innovation Coast Framework set in motion

In addition to promoting the materialization of projects in the fields of decommissioning, robotics and drones, energy, environment, recycling, agriculture, forestry and fisheries, medical care, and aerospace, we have also been working on the development of a wide range of infrastructure to realize these projects, including the creation of industrial clusters, human resource development, increasing the number of visitors, and spreading information.

The three pillars of our efforts

- A region capable of meeting all kinds of challenges
- Focus on regional companies
- Developing human resources to support the Framework

Approach 1 toward realization

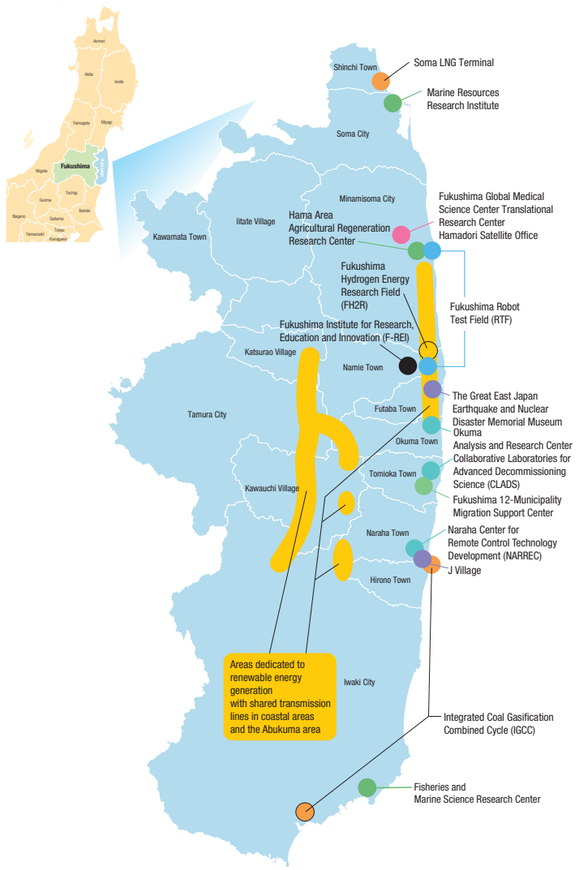
➡See P19-22 for more details

Inviting enterprises and bringing local and outside enterprises together

Industrial Clusters

The Fukushima Innovation Club was established to create new businesses and expand cross-industry collaboration and transactions.

On-site tours and business location seminars are held to promote Japan's top preferential treatment system and the existing business environment.



Approach 2 toward realization

➡See P23-24 for more details

Fostering young talent who will lead the Hamadori region into the future

Education and Human Resource Development

Universities

Hands-on agricultural training in rice paddies restored after tsunami damage (Tokyo University of Agriculture and the Town of Namie)

Elementary, Junior High, and High Schools

In order to foster interest in occupations and industries related to the Fukushima Innovation Coast Framework, as well as to grow the pool of human resources to handle the reconstruction, hands-on lectures on renewable energy, medical care, robotics, and programming are held at elementary and junior high schools throughout the prefecture (including compulsory education schools). These lectures are held once or twice a year at 14 schools throughout Fukushima Prefecture.
(Fukushima Super Science School Project)

Junior high school students at a hands-on medical lecture

Approach 3 toward realization

➡See P25-26 for more details

Expanding the network of Framework supporters

Increasing the Number of Visitors

The Palette Camp was held to allow the participants to work alongside residents of Futaba Town to solve problems together towards reconstruction of the town.

The Fukushima 12-Municipality Migration Support Center distributes information for potential migrants on learning about, working, and starting businesses in the 12 municipalities and hosts hands-on tours.

Approach 4 toward realization

➡See P27-30 for more details

Promoting participation by raising awareness of the natural and nuclear disasters, training for such, and the Framework

Spreading Information

The Great East Japan Earthquake and Nuclear Disaster Memorial Museum collects, preserves, and researches records and lessons learned from the compound disaster of earthquakes, tsunami, and a nuclear accident, and shares such information through exhibits, training programs, and storytelling.

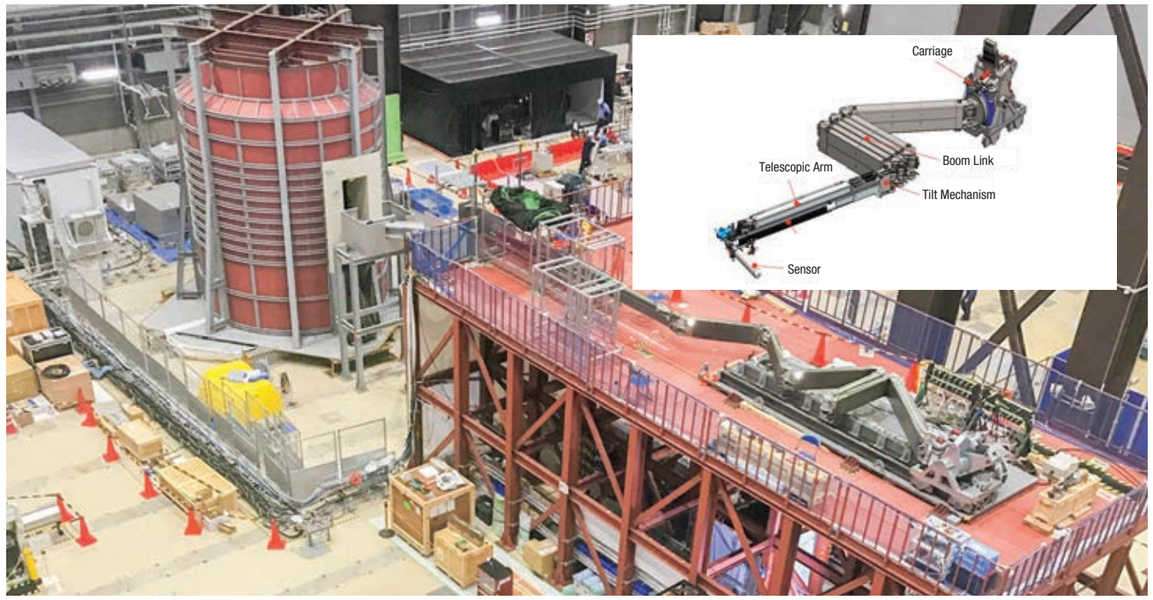
The framework portal site, Hama Tech Channel, and all the official social media accounts post easy-to-follow information

PROJECT 01

Technological development that brings together the expertise of Japanese and international professionals.

Decommissioning of Nuclear Reactors

The decommissioning of nuclear reactors is vital to the restoration of the Hamadori region. By bringing together the best and brightest from around the world and promoting R&D and human resource development, our efforts will have effects across the industry, and work to form industry clusters in the area.



This project was made possible through the use of METI's Subsidy for Decommissioning and Contaminated Water Management.
Materials provided by: International Research Institute for Nuclear Decommissioning (IRID)

Testing in an environment made to simulate the various locations inside nuclear reactors

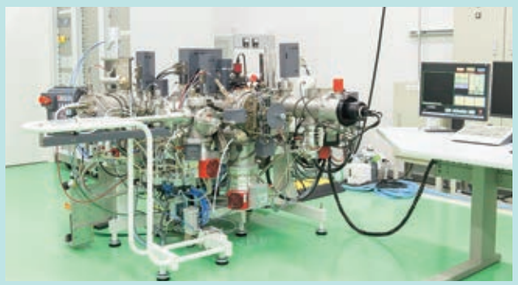
Naraha Center for Remote Control Technology Development (NARREC)

In an effort to promote the decommissioning of the Fukushima Daiichi Nuclear Power Plant, the Japan Atomic Energy Agency's testing center is equipped with various facilities which allow for motion capture, mock-up steps, water tanks for robotic testing, and other facilities to test the effectiveness and handling of robotic devices. The practical testing area is also equipped with full-scale replicas of the facilities at Fukushima Daiichi. Starting in February 2022, tests are being conducted on the full-scale nuclear reactor model using robotic arms meant for experimental fuel debris retrieval. (Image shows a practice test and trial of controls for a robotic arm in development to draw closer to fuel debris through the narrow reactor containment vessel puncture.)

Conducting analysis for decommissioning

Okuma Analysis and Research Center

Radioactive Material Analysis & Research Laboratory-1 is a facility which works to aid in decommissioning through analysis of rubble, ash, and secondary waste from water treatment that resulted from the reactor incident. It began operations in June, 2022. Preparations are currently underway for construction of Laboratory-2, which will carry out analysis of items including fuel debris.



Bringing together expertise both domestically and internationally

Collaborative Laboratories for Advanced Decommissioning Science (CLADS)

Works towards the decommissioning of nuclear power plants by both building a network in which human resources from universities, research institutions, and industry from within and outside of Japan can interact as well as a system to promote R&D and human resource development in a manner which integrates industry, academia, and government.

Example Initiatives

Developing human resources for decommissioning

National Institute of Technology (KOSEN), Kumamoto College won the innovation prize (Kumamoto campus)

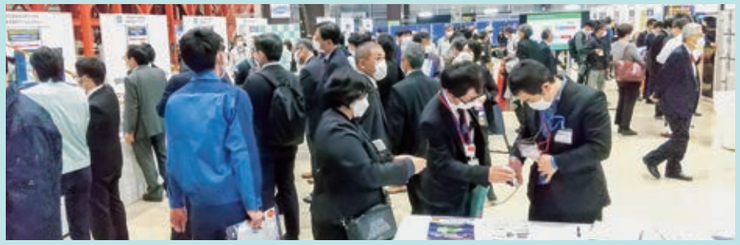
Creative Robot Contest for Decommissioning

A contest in which students from technical schools throughout Japan work to create robots focused on themes associated with the decommissioning of the Fukushima Daiichi Nuclear Power Plant. This contest aims to use robotics as a means to foster creativity and knowledge of decommissioning while simultaneously working to develop the human resources required for such work. The 7th competition in 2022 was held at the Japan Atomic Energy Agency (JAEA) Naraha Center for Remote Control Technology Development, and National Institute of Technology (KOSEN), Oyama College took the grand prize. (Image: 7th competition held in 2022)

Exhibition aimed at development and concentration of decommissioning industries

Fukushima Decommissioning Industry Business Exhibition

At this exhibition, held to promote the development and concentration of decommissioning industry, local companies showed off their technologies and services and held business meetings with demonstrations of actual equipment. Local companies were encouraged to enter the market, increase work orders, and establish networks. (November 8th, 2022)



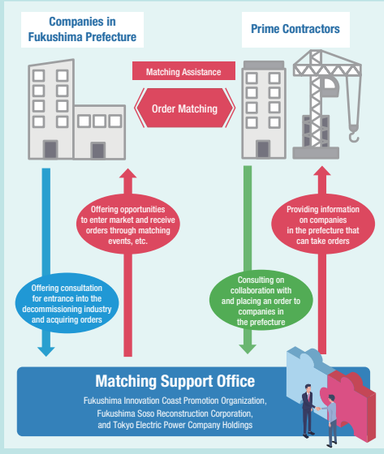
Supporting local business entry in the decommissioning field

Established a matching support office

In an effort to promote local company participation in decommissioning efforts related to the Fukushima Daiichi Nuclear Power Plant, Fukushima Innovation Coast Promotion Organization (public interest incorporated foundation), Fukushima Soso Reconstruction Corporation (public corporation), and Tokyo Electric Power Company Holdings (corporation) joined forces in July 2020 to establish a matching support office. At present, over 170 companies from within Fukushima prefecture have enrolled, and the office has supported 488 contracts (as of the end of November 2022).

<Primary Activities>

- **Providing matching opportunities**
  Offering matching meetings and private discussions to facilitate business matching.
- **Hosting decommissioning study tours**
  Offering on-site visits to the Fukushima Daiichi Nuclear Power Reactor and explanations of the current situation.
- **Subsidization of employee qualification acquisition**
  Offering subsidies on obtaining qualifications related to decommissioning.
- **Networking events for TEPCO, prime contractors, and local companies**
  Hosting networking opportunities to bring vendors and businesses closer together.



Matching Meeting

Decommissioning Study Tours

PROJECT 02

World-Class-Scale Testing Facilities - Fukushima Robot Test Field (RTF)

Robotics and Drones

The Fukushima Robot Test Field is a one-of-a-kind development and testing base with 4 areas for testing robots on land, sea, and air. With the RTF at the core, the aim is to accumulate robotics industries in Hamadori and other areas.

Recreating Land, Sea, and Air Environments

Fukushima Robot Test Field

Features the 1,000m east-west, 500m north-south unmanned aircraft facilities, infrastructure inspection and disaster response facilities, underwater and maritime robot facilities, and development base facilities in the Minamisoma City Reconstruction Industrial Park, as well as a runway for long-distance flight tests within the Tanashio Industrial Park in Namie Town.

Fukushima Robot Test Field Data

From July 20, 2018 - December 31, 2022

No. of Visitors: 82,200

No. of demonstrations carried out in the Hamadori robot test field: **962**

* The Hamadori Robot Test Field is an area which Fukushima Prefecture mediates for companies, universities, and research institutions working with robotics and drones in areas of logistics, infrastructure inspection, and disaster response. Bridges, dams, rivers, mountains and other areas in the prefecture are provided for use in tests and pilot training.

Everything researchers need for short or long term operations

Development Base Facilities

17 universities and corporations from across Japan maintain space at the laboratory in the research building, the central pillar of the Fukushima Robot Test Field (as of the end of December 2022). In addition, Fukushima Technology Center Minamisoma Technical Support Center, installed in the ward, provides technical consultations, equipment support (processing/analysis equipment, etc.), and test analysis support.

Recreating various forms of natural disasters and degradation

Infrastructure Inspection and Disaster Response Facilities

Recreating dams, rivers, flooded cities, and ports

Underwater and Maritime Robot Facilities

Featuring the nation's largest airspace

Unmanned Aircraft Facilities

Latest robots and drones all in one place!

ROBOTESU Day

Many participants joined "RoboTest Day," which was held to allow residents of the area to get up close with robots and drones and learn more about the Fukushima Robot Test Field.

*Organizing association: Fukushima-Minpo Co., LTD.

Teams from Japan and abroad compete in engineering feats!

World Robot Summit 2020

In October 2021, the infrastructure and disaster response categories of the international robotics competition, World Robot Summit, were held at the Fukushima Robot Test Field. In the Tunnel Disaster Response & Restoration Challenge, the University of Aizu took 3rd place, and in the Disaster Response Standard Test Method (STM) Challenge, the Minamisoma Robotics Industry Council took 2nd place while the University of Aizu took 3rd.

INTERVIEW

Minamisoma Robotics Industry Council

Developing robots for everyday use and utilization in times of crisis

Minamisoma Robotics Industry Council President

Shinichi Igarashi

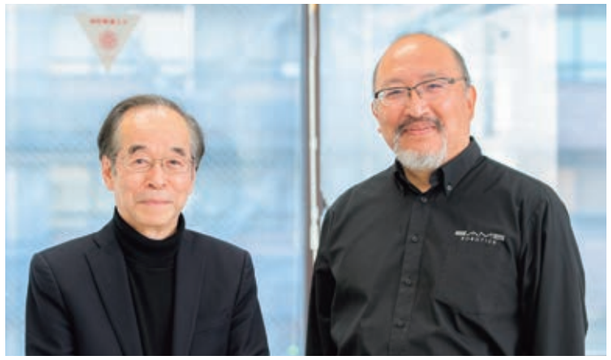
At the World Robot Summit (WRS) 2020 Fukushima Tournament, held in October 2021, all of us in Minamisoma came together to win second place with our disaster response robot MISORA. Since then, we have displayed the robot at various exhibitions and have received a number of requests for collaboration in development and research from corporations and universities. My hope is that we can utilize the specialties of the council's member companies to create customized machines to meet the various needs asked of us, and tie such efforts into sales.

Robots are only useful in times of disaster if they are first of use in day-to-day life. At present we've received a request from a major construction company to develop a robot that can carry materials up stairs at constructions sites. But in order to ensure the materials it carries won't fall, we need a suspension system that can absorb impacts. This is exactly what disaster response robots that operate in poor road conditions need in order to improve.

What we intend to do is first develop a robot for everyday use, then use that as a base machine to change up our competition machine if there is a second WRS. I'm really glad to see our younger members show interest in participating and creating a successor to MISORA.

As of two years ago, the Minamisoma Robotics Industry Council fully supports the "Fukushima Future-Building Technologist Training" initiative of Fukushima Prefectural ODAKA Industrial Technology and Commerce High School, an institution designated as a "Meister High School" by MEXT as part of its next-generation regional industrial human resources development project. Our hope is that students who learn to solve problems on their own will one day contribute to the revitalization of local industry.

TALK



Pioneering the future of "Level 4" drone flight - Bringing the future from Fukushima to the world

Fukushima Robot Test Field Director
Shinji Suzuki

×

CEO of EAMS Robotics
Hideji Sotani

<Profile>
Professor Emeritus and Specially Appointed Professor at the University of Tokyo, Doctor of Engineering. A leader in drone research in Japan

Amendments to the Aviation Act on December 5th, 2022 allow for drone flight beyond direct line of sight in inhabited areas ("Level 4 flight"). What future does Level 4 flight offer? What issues must still be resolved? And what is Fukushima Prefecture uniquely capable of? We spoke with Shinji Suzuki, director of the Fukushima Robot Test Field (RTF) which made major contributions to the formulation of this new policy, and Hideji Sotani, CEO of long-time drone manufacturer EAMS Robotics, which is based in Minamisoma City.

Experiments underway for logistics utilizing drones

Sotani EAMS Robotics is one of the oldest drone manufacturers in Japan. We operate in every area drones offer capabilities in, and are especially focused on the inspection, logistics, and security markets. In April 2021, we moved our main office from Fukushima City to Minamisoma City. We are now just a 20-minute drive from RTF, and I think that leaves us in the best position for drone development and testing in all of Japan. With restrictions on Level 4 flight removed, I believe drones will play an increasingly large role in the field of logistics. In addition to developing a craft to obtain Class 1 Type certification, we are also conducting logistics demonstrations in Ome City for the Tokyo government, in collaboration with companies such as Sagawa Express.

Suzuki RTF has long worked along with EAMS Robotics in various initiatives aimed towards the further implementation of drones in our society. I myself am also working along with EAMS Robotics on a NEDO (New Energy and Industrial Technology Development Organization) project involving research into equipping drones with AI. They are a company which is always working towards new technology, and I find them exceedingly dependable.

RTF was closely involved in the establishment of the new policy which allows for Level 4 flight. There were three particular areas where we played a role. First, we participated in the aircraft review working group, offering suggestions and making requests. Second, working towards the launch of a new aircraft certification system, we investigated performance evaluation methods as part of NEDO's DRESS project. And third, we drafted guidelines for the safe utilization of drones in businesses.

Turning Fukushima coast to a Level 4 flight testing zone

Hideji Sotani

Sotani With restrictions on Level 4 flight removed, we expect growth in the logistics, inspection, security, and disaster response markets. More than the rest, though, the needs are greatest in logistics. We can expect drones will be used in the "last mile," the final leg of a product's delivery to consumer's doorsteps.

Director Shinji Suzuki

As manufacturers, we need to obtain Class 1 Type certification for high-level safety standards, but in many ways it remains unclear how much we can build confidence in our services, and we are currently in discussions with the Ministry of Land, Infrastructure, Transport and Tourism about this topic. My hope is that we can set a precedent for the industry as a whole.

Suzuki We need to figure out what sort of safety measures will be required of drones that fly in heavily populated areas, as well as how to build confidence in them. Examinations into systems which promote the use of new technology like AI and the development of infrastructure for drone service management will be crucial. I believe RTF will play an ever more important role as a field for studies and experiments in this regard.

At RTF, we are currently drafting the "Drone Service JIS," a set of standards for operator's management systems. Our plan is to support businesses through the creation of a guidebook for certification acquisition.

Sotani RTF is an incredible facility unlike any other in the world. I hope we will see increased utilization of drones through RTF's efforts.

In order to move towards Level 4 flight, we need a place to test long-range, non-line-of-sight flight. We are working with the Ministry of Land, Infrastructure, Transport and Tourism as well as the Reconstruction Agency to make the coastal area between RTF and the Namie Runway an open testing area. Eventually, we hope to expand from RTF to Fukushima Sky Park, Fukushima Airport, and Sendai Airport, and make a free-flying area for drones and flying cars. As a drone manufacturer located in Minamisoma City ourselves, we intend to offer our full support in the creation of such an environment, centered around RTF, and make Minamisoma City and Fukushima Prefecture a leading area for drone development.

Suzuki The coast of Fukushima Prefecture is set to be a development base for new uses for drones which will then spread throughout Japan and the wider world. I hope to work to see that RTF becomes that very base.

A Region for Cutting Edge Robotics Development & Testing

Robotics and Drones

The Fukushima Robot Test Field and other facilities in the Hamadori region will actively attract development and testing of robotics and drones to be used in a variety of situations, such as disaster response, distribution, infrastructure inspection etc.

Prime Minister Kishida pays visit to see the eVTOL "Mk-5" [Tetra Aviation Corp.]

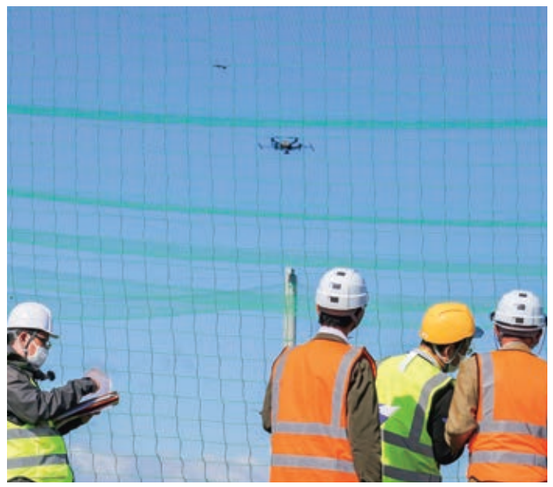
Prime Minister Kishida paid visit to see and sit inside the single-passenger eVTOL "Mk-5." Tetra Aviation president Tasuku Nakai joined to explain the craft and gift the Prime Minister a copy of the company's "The Manga Guide to Flying Cars" publication.

Humanoid heavy machinery demonstration [Man-Machine Synergy Effectors, Inc.]

A demonstration of humanoid heavy machinery was held at the mockup plant. The hope is for robots to carry out work at dangerous heights, allowing for safer inspections and rescue efforts.

Test flight for Class 2 certification [NEDO DRESS Project]

Mock examinations based on attempts for aircraft certification acquisition and flight test methods were examined. Fully surrounded by a buffer net, the test airfield allows for even more dangerous tests such as those imitating malfunctions and damage to aircraft.



Fukushima Prefecture General Disaster Prevention Training

Fire Fighters, Police, JSDF, and Coast Guard participated in training for typhoon-related disasters and chemical spills of substances such as sarin.

Concentration of robotics companies in the Hamadori region post-2011

	New Businesses	New Local Companies Entering Market	Total
Drones	35	8	**43**
Fixed-wing Unmanned Aircraft	3	0	**3**
Flying Cars	2	0	**2**
Self-Driving	4	1	**5**
Disaster Response / Decommissioning Robots	10	1	**11**

	New Businesses	New Local Companies Entering Market	Total
Agricultural Robots	2	0	**2**
Industrial/ Commercial-use Robots	7	4	**11**
Care / Rehabilitation / Communication	7	0	**7**
Marine Robots	1	0	**1**
Space	2	0	**2**

Since the 2011 Tohoku earthquake and tsunami, 73 companies have made new advancements in the region, and 14 local companies have entered the industry, resulting in a concentration of robotics companies in the Hamadori region (as of the end of December 2022).

Example Initiatives

University Initiatives

The University of Aizu maintains space at the Fukushima RTF laboratory, driving research, development and industry-academic cooperation in robotics, while also fostering human resources for Fukushima Prefecture's robotics industry.

Local Support Systems

As a local industry support organization, Yume Support Minamisoma aids in new business connections by matching tenants and member companies with local companies.

Local Company Initiatives

e-Robotics conducted a Level 3 flight test above Lake Kasumigaura which aimed to pave the way towards practical logistics use of domestically produced large cellular drones. Dynamic management of the drones in this test was conducted via the Fukushima Robot Test Field's UTM.

INTERVIEW Kufusha Inc.

Developer of the world's first stair-climbing robot Responding to niche markets with ingenuity

CEO
Iichiro Onishi

Our company develops autonomous mobile robots and carries out systems integration for collaborative robots. Our company name comes from a Japanese word for ingenuity, and symbolizes our desire to be forward-facing and constructive. Established in Sagamihara City, Kanagawa Prefecture in 2014, we opened our office in Minamisoma City in 2019. Sagamihara is another specialized zone for robotics, and we got our start as a result of exchanges between government agencies.

When equipped with cleaning functions, autonomous mobile robots become cleaning robots. When equipped with AI cameras, they become security robots. Equip them with sensors, and they become inspection robots. We are a small company, so we make our way by focusing on niche markets where we aren't in competition with larger companies, and have developed a number of autonomous mobile robots such as our commercial-use dry cleaning robot, Asion. We are now utilizing the know-how we've acquired in the development of what will be the world's first commercialized cleaning robot capable of autonomous mobility up and down stairs. With FIPO's support we have acquired a patent, and plan to commercialize our product in 2023.

Testing autonomous mobile robots is easy in Minamisoma City, and there are numerous support systems in place as well. The number of small and mid-sized manufacturing companies in the Hamadori region is another attractive point. We are a fabless manufacturing company without our own fabrication facilities, so we rely on the support of local companies in creating our robots.

Moving forward, we will be focusing on 4-legged robots which are capable of freely moving across poor road conditions. We hope to continue making Made in Minamisoma and Made in Hamadori robots that are unlike anything seen in Japan or the wider world before.

Toward the establishment of cutting-edge renewable energy and recycling technologies

Energy, Environment, and Recycling

We work to rejuvenate and restore the local economy by fostering and accumulating industries focused on renewable energy. We currently promote efforts to develop cutting-edge recycling technologies for solar panels, coal ash, and more.

World-leading renewable energy-derived hydrogen production base

Fukushima Hydrogen Energy Research Field (FH2R)

Located in Namie Town, FH2R produces hydrogen that was not only used as fuel for the Olympic cauldron and the Olympic torch relay during the Tokyo Olympics and Paralympics, but is currently used at fuel cell and hydrogen stations installed in prefectural facilities and more. FH2R is expected to play a core role in making Fukushima Prefecture a more hydrogen-focused society by developing efficient, low-cost hydrogen production systems which utilize renewable energy to a maximum extent, as well as advance technological efforts in developing larger facilities which can accommodate bigger hydrogen stations and fuel cell trucks.

Expanding hydrogen station facilities

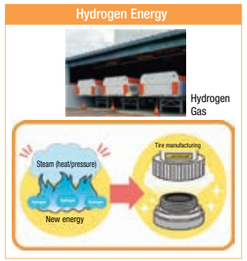
Areas throughout Fukushima Prefecture have seen an advance in hydrogen station facilities. Namie Town in particular, dubbed "Hydrogen Town Namie," is home to Namie Energy (Apollo Group Fukushima Hydro Supply), the first commercial mobile hydrogen station in the Soso region, as well as Namie Hydrogen Station (Date Juki), a commercial stationary hydrogen station. These stations utilize in part hydrogen made primarily from renewable resources in town at Fukushima Hydrogen Energy Research Field (FH2R).

In Motomiya City, in the Nakadori region of Fukushima Prefecture, Japan's first 24-hour, year-round hydrogen station is being built in anticipation of hydrogen demands from fuel cell trucks. Various such efforts are underway in attempt to create a hydrogen-centered society.

Mobile sales via hydrogen fuel cell vehicles

Aeon Tohoku conducts mobile sales based from Aeon Namie via fuel cell vehicles. As designations on evacuation areas are expected to be systematically lifted in Namie Town and Futaba Town, efforts are underway to create a community location to support the shopping needs of local residents.

Introduction of hydrogen boilers



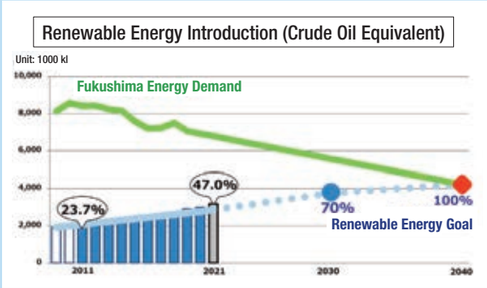
At Sumitomo Rubber Industries' Shirakawa factory (Shirakawa City, Fukushima Prefecture), the boilers used to create the intense quantities of heat (steam) required for producing tires were transitioned over to hydrogen systems in January 2023. By transitioning from heavy oil and natural gas to hydrogen, a non-CO_2 emitting fuel, they have sped up decarbonization efforts at the factory and brought the total CO_2 emissions from the life-cycle of their tires to a minimum.

Example Initiatives

Renewable energy introduced in FY 2021

Dramatic advancement of renewable energy has been made one of the main policies for restoration efforts in Fukushima Prefecture, and ambitious goals were set in March 2012 to meet 100% of prefecture energy demands with renewable energy by around 2040.

By the end of fiscal year 2021, the prefecture had achieved 47% of this target, levels twice as high as in FY 2011. The Fukushima Prefecture Renewable Energy Promotion Vision 2021, formulated in December 2021, continues to expand its aims for the introduction of such forms of energy, calling for building a renewable energy dependent society and one which utilizes hydrogen.



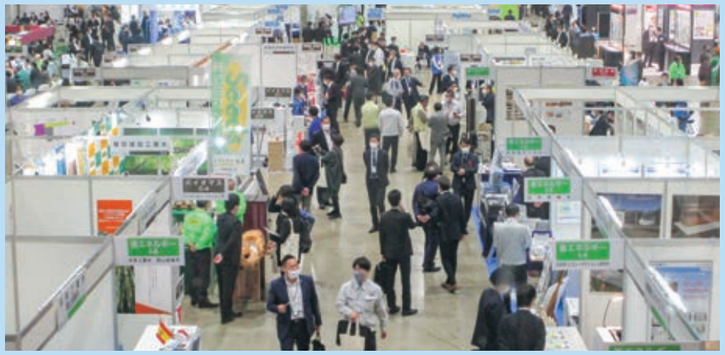
Cities built for a future with hydrogen

In June 2021, Fukushima Prefecture began examinations into a new future with hydrogen along with companies such as Toyota Motor Corporation. Using fuel cell delivery trucks, food trucks, and emergency care vehicles, the prefecture aims to be a world-leader in hydrogen use and strives to achieve carbon neutrality.

Fuel cell truck introduction concept Source: Toyota Motor Corporation

Fukushima Renewable Energy Industrial Fair (REIF Fukushima)

Moving toward the development and accumulation of renewable energy industries, the Fukushima Renewable Energy Industrial Fair is held annually in an effort to provide a place to share technology and information, engage in business discussions, and interact with others in the industry. It is one of the largest renewable energy events in the Tohoku Region and features a variety of events, including seminars by famous speakers, and matching events with major companies.



Iwaki EV Academy

Industry-academia-government collaboration in Iwaki City has established the Iwaki EV Academy, which provides opportunities for students at technical colleges and high schools within the city to learn about the structure and workings of storage batteries and next-generation vehicles. Battery and electric vehicle specialists and university professors visit as speakers, offering lectures and disassembly and assembly training using the small electric vehicle, PIUS. These efforts are meant to show students the joy in manufacturing and help rear the engineers who will support the manufacturing industry of the future.

Research to improve production of bio-ethanol fuel for automobiles

In July 2022, six private companies, ENEOS, Suzuki, SUBARU, Daihatsu, Toyota Motor Corporation, and Toyota Tsusho established the Research Association of Biomass Innovation for Next Generation Automobile Fuels (raBit).

In an effort to support a shift to a carbon neutral society, this research association is researching efficient manufacturing methods and practical uses for plant-derived bio-ethanol fuel, one option in the decarbonization of automobiles.

The association's research and production facilities are located in Okuma Town, and operations are expected to begin in 2024.

PROJECT 04

Revitalization of agriculture, forestry and fisheries industries through the use of ICT, robotics, and other technologies

Agriculture, Forestry, and Fisheries

We consider agriculture an area for innovative growth and work to develop new, "smart" agriculture, support the creation of new jobs, and attract agricultural work from other regions.

Bringing cutting-edge plant vaccine technology to the world

Berg Fukushima (Kawamata Town)

Berg Fukushima uses its artificially lighted, fully sealed-off seedling nursery facility, its plant vaccine seedling mass production technologies, and its grafted seedling mass production technology to produce high-quality, high-value-added fruit and vegetable seedlings.
Its fully sealed-off seedling nursery is one of the largest fruit and vegetable seedling production factories in eastern Japan.
It is uniquely capable and was the first in the world to produce seedlings which were inoculated with a mixture of two types of plant vaccines.

Chiino (Corporation qualified to own cropland) (Namie Town / Iitate Village)

Utilizing fallow fields and abandoned farmland to grow rice to provide to Biomass Resin Fukushima, which produces biomass plastic (rice resin) from it. Beginning in 2021 in Namie Town and starting in Iitate Village in 2022, Chiino produces rice to be used as a resource, incorporating methods such as regenerative double cropping and direct seeding via drones, placing importance on productivity and efficiency.

Minamisoma Fukko Agri (Minamisoma City)

Founded in January 2013 in an effort to foster human resources for agricultural recovery and management in Minamisoma City. Production began later in 2015. The facilities feature a massive 1.5ha greenhouse which utilizes solar power and environmentally controlled hydroponic cultivation to raise “on-the-vine” cherry tomatoes throughout the year. Temperature, humidity, and carbon dioxide concentration levels inside the greenhouse are controlled by a computer, allowing for cultivation and shipping throughout the year.

Nakata Farm (Namie Town)

An agricultural company which produces rice and raises leeks in Koriyama City. Nakata Farm began raising leeks in 3.5ha of idle farmland in Namie Town in 2022. Taking advantage of the relatively mild weather conditions, they produce even through the winter months. Moving forward Nakata Farm plans to increase its cultivated land in Namie Town and Tomioka Town to work with approx. 18ha of land and produce 480t of product.

Example Initiatives

Efforts to promote smooth entry into agricultural industry

In an effort to ease companies into the agricultural industry, we hold training sessions for municipalities looking to accept such companies, provide consultations for businesses looking to enter the industry, offer individual on-site guidance for companies, support the establishment of test fields for companies expected to enter the industry, coordinate between companies and the municipalities they are expected to enter, as well as collect and distribute information related to entry into the industry.

On-site Tour

Municipal Training Session

Industry Entry Seminar

INTERVIEW Fukushima Shirohato Farm

Providing Safe Seedlings to Increase Producers and Make Hamadori a Major Sweet Potato Production Area

Full-time Farmer
Agricultural Division Chief

Shotaro Nagai

Fukushima Shirohato Farm is a group company of Shirohato Food Corporation (Moriguchi City, Osaka Prefecture) that produces, processes, and sells sweet potatoes. Hearing the town of Naraha express a desire to turn sweet potatoes into a local town specialty in an effort to revitalize the region, we began test cultivation on 1.5ha of farmland in the town in 2017. Shirohato group decided to move into Naraha Town in order to create new areas of production and ensure a stable supply of raw materials, but also because we believe the company philosophy of "Bringing smiles to women and children" ties into efforts we can make to help the region.
Once the group found through our test cultivation that the Hamadori area's warm climate was perfect for sweet potatoes, Fukushima Shirohato Farm was established in 2019. Year by year we are increasing our production area, and as of today we work on 31ha of land. Last year JA launched the Fukushima Sakura Naraha Sweet Potato Production Committee, and this year 41 members planted across 16ha of land.
In August 2020, the Naraha Sweet Potato Storage Facility, one of the largest such facilities in Japan, was constructed. Once harvested sweet potatoes mature in this facility, they are sent to factories in Miyazaki Prefecture where they are turned into products such as daigakuimo and sold in convenience stores and other locations.
Efforts to mechanize the process and reduce required labor have led to the introduction of self-driving tractors and drones used to spray pesticides. A chaff biomass boiler has also been added to the seedling house used through the winter. The charcoal left from burning chaff is then used to improve soil quality in the fields, helping to facilitate circular agriculture. We also value our interactions with local children, and have developed products along with Naraha Junior-high School students.
Our plan moving forward is to focus on growing and supplying safe seedlings using our seedling greenhouse. These seedlings will be used not only by us or in Naraha Town, but provided throughout the Hamadori region, and we will grow the number of farmers producing sweet potatoes by purchasing their harvests. Working from Naraha Town, we hope to turn the entire Hamadori region into a major sweet potato producing area.

Developing business opportunities through supporting technological development

Medical Industry

As the Hamadori region faces an aging population and a lack of medical and care workers, we promote the entry of new companies and continued industrial concentration in the field of medicine.

Retaining employment at companies

Human resource development for the field of medicine

By helping boost the skills of young engineers in Fukushima Prefecture and promoting university and high school students' interest in the medical equipment, we are working to place employees, and keep them, at medical-focused institutions within the prefecture.

Medical personnel training carried out at the Fukushima Medical Device Development Support Center

The first facility in the country to provide integrated support for medical devices from development to commercialization

Fukushima Medical Device Development Support Center (Koriyama City)

Working to promote the medical device industry in Japan, expanding upon the strength of the industry in Fukushima Prefecture by supporting safety evaluations and commercialization of medical devices as well as by training medical professionals. The facility is equipped for EMC testing, which tests the impact of electromagnetic waves on devices, as well as biological tests on large animals (lab pigs) in evaluating the safety of devices. In order to address the issues that arise with entry into the industry and throughout the course of development, the Center offers a variety of support such as legal consulting, matching with partner companies, and on-site interviews at medical facilities.

Example Initiatives

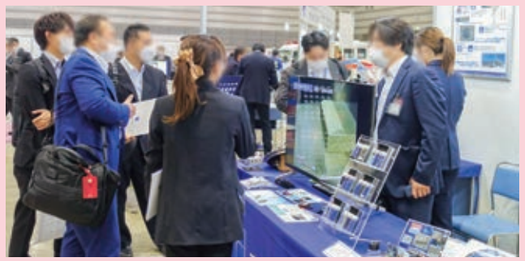
Fukushima Medical Device Industry Promotion Agency

The Fukushima Medical Device Industry Promotion Agency offers various forms of support to encourage member advancement in the field of medical devices by stimulating interaction and exchanges between members and relevant corporations and organizations and offering opportunities to foster human resources, expanding business among members and strengthening their technological foundations.

Fiscal 2022 general meeting of the Fukushima Medical Device Industry Promotion Agency

Medical Creation Fukushima

Provides a place for exchanges of technology among medical device manufacturers and the local region and universities, allowing local producers to display their technological prowess and manufacturers to exhibit their newest medical devices at the same time. By bringing R&D leaders and engineers together in proactive exchanges, the event works to promote the development of new technologies and the creation of new products.



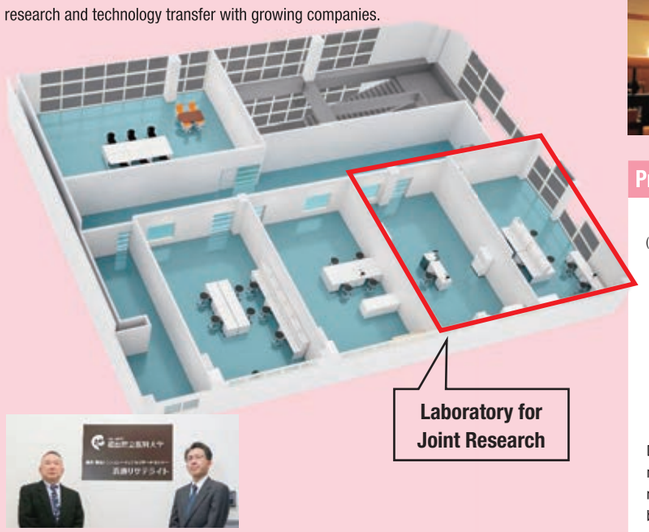
Medical Creation Fukushima 2022

Medical-Industrial Translational Research (TR) Center (Hamadori Satellite Office)

Hamadori Satellite Office opened in Minamisoma City

~Promoting joint research, technology transfer, and more with companies expanding into the Hamadori region~

The Medical-Industrial Translational Research Center (TR Center) was established in November 2012 to promote the "Fukushima Pharmaceutical Industry Support Base Project (Fukushima Project)." In November 2021, the Hamadori Satellite Office was opened to facilitate in the concentrating of pharmaceutical companies through its support efforts and research results. The Hamadori Satellite Office has a cutting-edge research team engaged in world-class antibody production research, and promotes joint research and technology transfer with growing companies.



FUKUSHIMA MEDICAL UNIVERSITY

2nd Hamadori Bio-industry Promotion Forum

(December 15th, 2022 - Minamisoma City)

~Held as a regular opportunity for the exchange of opinions in considering efforts to grow a cluster of pharmaceutical-related companies~

Practical use of IgA antibodies against COVID-19

ZEFA Co, Ltd
(Sukagawa City, Fukushima Prefecture)

IgA Antibody Mask

Developed a filter for use in face masks which utilized COVID-19-resistant IgA antibodies acquired by TR Center.

Ichii Inc.
(Fukushima City, Fukushima Prefecture)

IgA Antibody Spray

Made with COVID-19-resistant IgA antibodies, this spray is used on masks to block the virus from entering the body.

Expanding Company Introductions

ARCALIS, INC

Starting in July 2023 in the Shimoota Industrial Park in Minamisoma City, Fukushima Prefecture, ARCALIS was the first mRNA pharmaceutical manufacturing plant in Japan. The company is striving to build an integrated manufacturing system for mRNA pharmaceuticals, vaccine substances and pharmaceutical products.

ARCALIS, INC - mRNA Pharmaceutical & Vaccine Production Factory (mock-up of completed construction)

Mitsufuji Corporation Fukushima Factory

Expanding into the Western Kawamata Industrial Park in Kawamata Town, Date-gun, Mitsufuji manufactures various fashion items, including wearable devices which acquire highly precise biometric data just by being worn. They also act as an R&D base for health monitoring services using online medical treatment systems.

Equipped with a factory and research wing, the Fukushima factory produces cutting edge smart clothes.

Developing next-gen air mobility technology and enhancing competitiveness of companies in the field

Aerospace

We support the influx of companies and human resource to grow and lead the aerospace industry.

Robot and Aerospace Festa Fukushima 2022

A 2-day event held at Big Palette Fukushima in November 2022.
Day one consisted of industry-focused exhibitions and sales discussions, while day two included exhibitions for the general public. A total of 4,600 visitors attended over the course of both days. Day two saw many young participants who will take charge of the future showing interest in the robotics and aerospace exhibits and enjoying the hands-on events.

International Business Fair Exhibit Support

In order to support the growth of markets for companies within the prefecture, support was provided for exhibit business meetings at Aeromart Toulouse in December 2022. One company from the prefecture participated and was provided with 13 sales discussion opportunities.

*Aeromart Toulouse: One of the world's largest aerospace industry business conventions held every two years in Toulouse, France. Around 1,300 companies participate in this event.

Example Initiatives

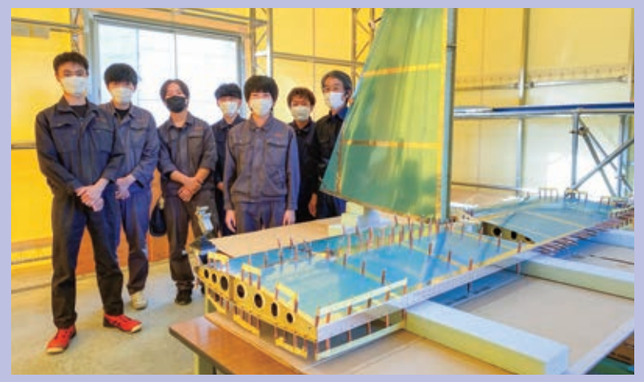
Technology Exchange with JAXA Kakuda Space Center

Supporting growing business transactions for companies within the prefecture in anticipation of a growing aerospace industry cluster.
In March 2022, 20 researchers from JAXA Kakuda Space Center who work on rocket engine research and development joined an exchange event with 6 companies and organizations from throughout the prefecture.

After getting to examine the mechanical testing facilities of rockets and a ramjet engine, the participating companies and organizations gave presentations about their products and technologies to the JAXA engineers and other relevant persons at the research facilities. The engineers asked numerous questions which the participating companies enthusiastically answered.

Students Creating & Flying Lightweight Aircraft - REALSKY Project

In the REALSKY Project, students from Fukushima Prefectural Technical Academy work along with cooperation from air race pilot Yoshihde Muroya to design and fly light sport aircraft (LSA). The goal of the project is to raise engineers who will one day develop and manufacture next-generation small aircraft by granting the project participants an understanding of aircraft structures and training them in techniques required for manufacturing parts. Additionally, through collaboration with local companies, the project strives to develop human resources who will take charge of the aviation industry through practical education of a variety of skills.



Students from the department of mechanical technology at Hama Technical Academy participating in the REALSKY Project.

Product Safety & Imitation Prevention and Compliance Seminar

Nagoya Quality Assurance Technology Co., Ltd, a company which provides guidance for obtaining and renewing international quality certifications for aircraft JISQ9100 and Nadocap, held a seminar on how to approach product safety on October 12th, 2022, using case studies to examine how to ensure compliance and prevent the impact of introducing imitation products. Seminars focused on quality will also be held in the future.

Fiscal 2022 Aerospace Industry Support Project Briefing

A briefing on the prefecture's monetary support opportunities and other support systems for the aerospace industry for FY 2022 was held on July 29th, 2022. That same day, Central Japan Aerospace Industrial Technology Center gave a talk on global aircraft manufacturers and the position of the Japanese aircraft industry, offering advice to the small and medium-sized business operators in attendance.

Support for business negotiations with aerospace manufacturers in the Chukyo Metropolitan area

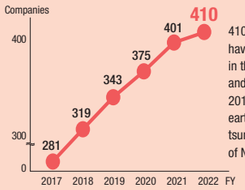
Along with the Robotics & Aerospace Festa Fukushima 2022, 13 aerospace manufacturers (Tier 1, Tier 2) from the Chukyo Metropolitan area were invited and held business meetings with 5 companies and 1 organization from the aerospace industry in Hamadori and throughout Fukushima Prefecture. A total of 17 business negotiations were carried out, and the event provided connections between the companies to promote transactions. Moving forward we will continue to support the expansion of the aerospace industry within the prefecture.

Supporting and bringing local and outside enterprises together

Industrial Clusters

In order to expand industry in the Hamadori region and rejuvenate and revitalize those already present, we promote the development of industrial parks and the creation of business establishments, as well as assist in promoting exchanges and business partnering opportunities between companies and local businesses.

Numerous Companies Expanding into Hamadori Region



410 company sites have been established in the Hamadori region and beyond since the 2011 Tohoku earthquake and tsunami. (As of the end of November 2022)

No. of Employees 4,733

Futaba Town: Nakano District Reconstruction Industrial Hub

Asanonenshi Co., LTD (HQ: Gifu Prefecture)

At the Nakano District Reconstruction Industrial Hub (Futaba Town), Asanonenshi manufactures the threads used in their main product, the "air kaoru" towel, as well as the "dakishimete futaba" towel scarf they manufacture to wish for the recovery of the town. They are also constructing a cafe and shop facility which will be attached to the factory (expected to open in April 2023).

Minamisoma City: Reconstruction Industrial Park

Iris Product (HQ: Miyagi Prefecture)

Making use of know-how from the Iris Group, Iris Product has introduced a high-efficiency robotic production line at their site in the Reconstruction Industrial Park (Minamisoma City), manufacturing artificial turf, oxygen absorbers, flat and corrugated plates for construction, and more (operations began in April 2022).

Namie Town: Namie Town Minami Industrial Park

Aizawa Concrete Corporation (HQ: Hokkaido)

Constructing Fukushima RDM Center, a next-generation facility equipped for research, development, and manufacturing, all at Namie Town Minami Industrial Park (target start of operations in April 2023).

Futaba Town: Nakano District Reconstruction Industrial Hub

Almedio (HQ: Tokyo)

Mass producing carbon nanofiber products at the Nakano District Reconstruction Industrial Hub (Futaba Town) sporting excellent electrical and thermal conductivity, and capable of use in absorbing radio waves when mixed with resin (operations launched in October 2022).

Shinchi Town: Shinchi Minami Industrial Park

Sohka (HQ: Yamagata Prefecture)

Equipped with the latest melting, casting, and processing equipment and utilizing knowledge and technology to manufacture castings with complex core shapes in Shinchi Minami Industrial Park (operations launched in September 2022).

Tomioka Town: Tomioka Industrial Park

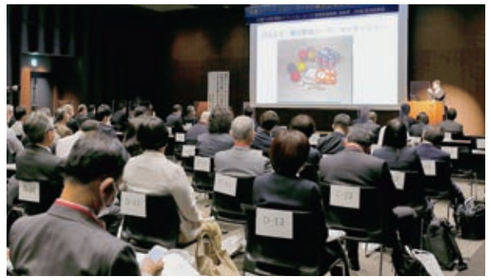
Katayama Corp. (HQ: Gifu Prefecture)

Manufacturing and selling heat sinks for cooling power semiconductors used in electric vehicles in Tomioka Industrial Park (Tomioka Town) (operations launched in September 2021).

Example Initiatives

Efforts to attract companies

Business location seminars are held to promote the excellent environment offered by location in the Hamadori area. Tours of industrial parks, commercial facilities, and medical institutions are also offered to companies considering entering the area.



Business Location Seminar (Tokyo: Otemachi)

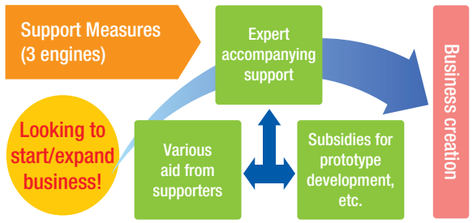
Hosting the Fukushima Innovating Companies Joint Press Conference

In order to help give a boost to companies that newly enter the Hamadori region or local companies engaging in new initiatives in the region, the Fukushima Innovating Companies Joint Press Conference is held to publicize such news and efforts and make them widely known.

Fukushima Innovating Companies Joint Press Conference

Fukushima Tech Create

Creating new business in Hamadori by offering expert accompanying support for startups and new endeavors to aid in making ideas a reality, subsidies for market research, prototype development, etc., and providing demonstration sites through supporters.



Promotional projects to stimulate practical development in region

Supporting practical development in the priority areas of the Fukushima Innovation Coast Framework (decommissioning, robots & drones, energy, environment, recycling, agriculture, forestry, fishery, medical, aerospace) in conjunction with local companies.

Continued R&D on original long-range unmanned aircraft

Fukushima Innovation Club

Fukushima Innovation Club was founded to be a place for collaboration between industries, regions, and local and expanding companies in order to create new business and transactions (145 participating companies/organizations as of January 2023). It promotes exchanges through tours and training sessions and helps spread information on available support systems.

Accompanying support for businesses aiming for commercialization

Measures aim to aid the companies selected for the Regional Reconstruction Practical Development Promotion Project (178 companies and organizations) through support for formulating business models and sales strategies, creating lists of expected customers, various forms of matching, securing funds, and strategic intellectual property protection such as patent applications.

Pre-marketing implementation support

Developing industrial parks and promoting business locations

Industrial Clusters

Efforts are underway to develop industrial parks and promote business locations in order to create new industrial clusters in the 15 municipalities in the Hamadori region.

Industrial Parks in the Hamadori Region

Iwaki City — 142 sites

1 Iwaki-yotsukura Central Industrial Park First Stage Zone 33.6ha
- ◆Nemoto Kosan (Iwaki City - Cement/cement product manufacturer)
- ◆Seiei (Iwaki City - Construction/architectural-use metal products manufacturer)
- ◆KANEKO Manufacturing (Saitama Prefecture - Medical equipment manufacturer)
- ◆Onogawa Co., Ltd (Iwaki City - Electronic parts/device/circuit manufacturer)
- ◆Meltec Iwaki (Iwaki City - Ceramics/earth & stone products manufacturer)
- ◆Aikawa Engineering (Iwaki City - Metal products manufacturer)

2 Iwaki-yotsukura Central Industrial Park Second Stage Zone 17.0ha
- ◆Toshin Industries (Yokohama City - Plating)
- ◆NICCHU (Tokyo - Metal processing machinery manufacturer)


Aikawa Engineering

Tamura City — 25 sites

6 Tamura City Industrial Park 13.0ha
- ◆Topcon Optonexus (Tamura City - Optical instruments/ lens manufacturer)
- ◆Tamura Biomass Energy (Tamura City - Electric power producer)
- ◆Fujikura Parachute (Tokyo - Aircraft equipment manufacturer)
- ◆All Navi Quartz (Koriyama - Glass product manufacturer)


DENSO Fukushima

7 Tamura City Western Industrial Park 64.1ha
- ◆DENSO Fukushima (Tamura City - Transportation machinery & equipment manufacturer)
- ◆Tokkyu (Hokkaido - Road freight transportation)

8 (Tentative name) Tamura City Eastern Industrial Park 23.4ha
Scheduled to open October 2023

Kawauchi Village — 8 sites

24 Tanoiri Industrial Park 7.0ha
- ◆Resela (Okayama Prefecture - Textile industry)
- ◆OHASHI KISAN (Saitama Prefecture - Construction & mining machinery manufacturer)

Other Areas
- ◆Kikuchi Seisakusho (Tokyo - Metal products manufacturer)
- ◆Codomo Energy (Osaka Prefecture - Ceramics/earth & stone products manufacturer)
- ◆Chemical Kawauchi (Kawauchi Village - Ceramics/earth & stone products manufacturer)


Resela

Kawamata Town — 8 sites

12 Western Kawamata Industrial Park 7.7ha
- ◆Mitsufuji Corporation (Kyoto Prefecture - Textile industry)
- ◆Kamino Works (Kawamata Town - Transportation machinery & equipment manufacturing)
- ◆Berg Fukushima (Kawamata Town - Crop farming)

13 Haneda Industrial Park 1.9ha
- ◆Berg Fukushima (Kawamata Town - Crop farming)

14 Nakayama Industrial Park 3.5ha
- ◆Asahi Tsushin (Fukushima City - Electromechanical equipment manufacturer)
- ◆Kobayashi (Kawamata Town - Fuel wholesale)


Mitsufuji

Other Areas
- ◆Kawamata Seiki (Kawamata Town - Electromechanical equipment manufacturer)
- ◆NPR Fukushima Works (Kawamata Town - Transportation machinery & equipment manufacturer)
- ◆NOK Metal (Miyagi Prefecture - Transportation machinery & equipment manufacturer)

Shinchi Town — 7 sites

34 Shinchi Minami Industrial Park 8.0ha
- ◆Sohka (Yamagata Prefecture – Nonferrous metal casting manufacturer)
- ◆READ (Kanagawa Prefecture - Production machinery & equipment manufacturer)

35 Komagamine Industrial Site 2.0ha

Other Areas
- ◆Japan Petroleum Exploration (Tokyo - Gas industry)


Sohka

Soma City — 34 sites

3 Soma Central Industrial Park (Western District) 68.5ha
- ◆IHI (Tokyo - Transportation machinery & equipment manufacturing)
- ◆Oriental Motor (Tokyo - Electromechanical equipment manufacturer)

4 Soma Central Industrial Park (Eastern District) 284.7ha
- ◆Soma Energy Support (Tokyo - Warehousing)
- ◆ADEKA Corporation (Tokyo - Chemical product manufacturer)

5 Soma Minami No.2 Industrial Park 5.5ha

Other Areas
- ◆ITEC Corporation (Shizuoka Prefecture - Construction material/minerals/metals wholesale)


IHI

Katsurao Village — 3 sites

32 Katsurao Village Industrial Park 2.9ha
- ◆KINSEN KNIT (Aichi Prefecture - Textile industry)

33 Katsurao Village Eastern Industrial Park 2.4ha
- ◆Fukushima Palm Sea (Katsurao Village - Timber & wood product manufacturer)


KINSEN KNIT

Minamisoma City — 69 sites

9 Shidazawa Industrial Park 4.6ha
- ◆Meijishoko ◆H.A.T.

10 Reconstruction Industrial Park 12.4ha
- ◆ROBOTCOM AND FA. COM (Tokyo - Production machinery & related parts manufacturer)
- ◆Iris Product (Miyagi Prefecture - Plastic product manufacturer)
- ◆TERRA LABO (Aichi Prefecture - Information services)


Reconstruction Industrial Park

11 Shimoota Industrial Park 13.3ha
- ◆Ibe (Tokyo - Formed and fabricated metal material manufacturer)
- ◆Winding Fukushima ◆ARCALIS
- ◆Minamisoma Fukko Agri ◆Ukawa Rubber Mfg. ◆Fujikiso Kikai

Other Areas
- ◆Sanwa Chemical Industry (Tokyo - Inorganic chemical product manufacturer)
- ◆TOUHOKU ACCESS (Minamisoma City - Road passenger transport)
- ◆Fujikura Composites ◆Hitachi Power Semiconductor Device ◆Tanico ◆Shima Company

Namie Town — 25 sites

28 Namie Town Kita Industrial Park 3.7ha
- ◆Biomass Resin Fukushima (Namie Town - Plastic product manufacturer)
- ◆KAMOME MIRAI SUISAN (Namie Town - Land-based aquaculture)


4R Energy

29 Namie Town Minami Industrial Park 18.5ha
- ◆Aizawa Concrete Corporation (Hokkaido - Ceramics/earth & stone manufacturer)

30 Namie Town Tanashio Industrial Park 38.1ha

31 Namie Town Fujihashi Industrial Park 6.7ha
- ◆4R Energy (Kanagawa Prefecture - Electromechanical equipment manufacturer)
- ◆Fuji Computer (Hyogo Prefecture - Information services)

Other Areas
- ◆LE System (Fukuoka Prefecture - Electromechanical equipment manufacturer)

Okuma Town — 6 sites

25 Okuma Nishi Industrial Park 9.2ha
- ◆Research Association of Biomass Innovation for Next Generation Automobile Fuels (Okuma Town - Organic chemical product manufacturer)

26 Okuma Chuo Industrial Hub 9.1ha
- ◆Connect Around (Tokyo - Crop farming)
- ◆Pixel High (LLC) (Okuma Town - Information processing & distribution services)


Okuma Chuo Industrial Hub

Tomioka Town — 21 sites

21 Tomioka Industrial Park 22.2ha
- ◆Miyata Traffic (Osaka Prefecture - General automotive logistics and freight shipping)
- ◆Katayama Corp. (Gifu Prefecture - Nonferrous metal manufacturer)
- ◆Marutou ◆Wamu ◆SKYBLUE
- ◆Max International

22 Tomioka Industrial Park 24.1ha
- ◆ATOX (Tokyo - Warehousing) ◆ROCKWOOL Japan (LLC)
- ◆(LLC) Crystal Clear Solar

23 Tomioka No.2 Industrial Park 6.1ha
- ◆Fujisawa Wood ◆Amerikaya

Other Areas
- ◆Hojinkan (Iwaki City - Hospitality industry)


Katayama Corp.

Naraha Town — 22 sites

18 Tatsuta Station East Side Development Area 6.2ha

19 Naraha Kita Industrial Park 15.8ha
- ◆NBS (Tokyo - Glass/glass product manufacturer)

20 Naraha Minami Industrial Park 33.4ha
- ◆Toyotsu Lithium (Naraha Town - Inorganic chemical product manufacturer)
- ◆Sumiko Energy Materials (Tokyo - Inorganic chemical product manufacturer)


NBS

Hirono Town — 23 sites

15 Hirono Industrial Park 45.2ha
- ◆FUJIFILM Wako Chemical Corporation (Kanagawa Prefecture - Pharmaceutical manufacturer)
- ◆RACE (Tokyo - Chemical industry)

16 Hirono Station East Side Industrial Park 5.0ha
- ◆Owada Sokuryou Sekkei (Hirono Town - Information services)
- ◆hirono progress (Tokyo - Hospitality industry)

17 Higashimachi Industrial Park 5.0ha
Scheduled to open in April 2023


FUJIFILM Wako Chemical Corporation

Iitate Village — 9 sites

36 Iitate Village Business Site 1.87ha

Other Areas
- ◆Kikuchi Seisakusho (Tokyo - Metal products manufacturer)
- ◆Saito Seisakusho (Iitate Village - Production machinery & equipment manufacturer)
- ◆Hayashi Manufacturing (Iitate Village - Metal products manufacturer)


Kikuchi Seisakusho

Futaba Town — 8 sites

27 Nakano District Reconstruction Industrial Hub 34.3ha
- ◆Futaba Chuo Ascon (JV) (Futaba Town - Paving material manufacturer)
- ◆Almedio (Tokyo - Carbon/graphite product manufacturer)
- ◆Asanonenshi (Gifu Prefecture - Yarn manufacturer)
- ◆Arm System (Hokkaido - Hospitality industry)


Almedio

*Site counts accompanying area names are the number of companies selected for business location subsidies (as of the end of November 2022).
*List includes major example companies.

For more information on industrial parks

Fostering young talent who will lead the Hamadori region into the future

Education and Human Resource Development

We work to foster the ambitions of youth who will one day lead the reconstruction efforts in the Hamadori region through revitalizing education and research activities at universities and other locations, as well as by offering career education opportunities at elementary, junior high, and high schools in cooperation with companies and institutions of higher education.

Supporting education and research activities at universities, etc.

"Reconstruction Knowledge" Projects

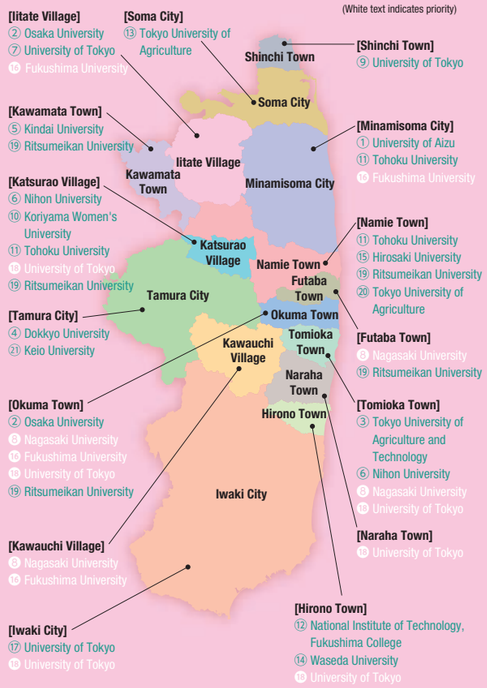
"Reconstruction Knowledge" projects support universities that carry out educational research activities within the Hamadori area in an effort to accumulate and utilize the knowledge of universities and institutions around the country in the reconstruction of Fukushima. In FY 2021, 21 five-year plans from 17 universities were selected.

Fukushima University x Minamisoma City / Kawauchi Village / Okuma Town / Iitate Village

Student fieldwork lessons are held in an effort to teach about food & agriculture and work to solve the issues the Hamadori region faces. On-site food & agriculture lessons are held at elementary and junior high schools to teach about the qualities of good tasting rice, as well as nutrients such as starch, and other topics. [Photo: On-site class at Minamisoma Haramachi Daiichi Elementary School]

Universities selected in FY 2022 for human resource development infrastructure construction efforts utilizing reconstruction knowledge

(White text indicates priority)



Example Initiatives

Kindai University x Kawamata Town

Efforts are underway to utilize all the knowledge of Kindai University and its students to contribute to the restoration of agriculture and tourism and the decontamination research in Kawamata Town, revitalize the local community, and develop the human resources needed for reconstruction. Through such efforts a new product, "Kawamata Burger Shamo Mince," was developed using the local Kawamata Shamo brand of chicken in 2022.

Hirosaki University x Namie Town

Namie Town acts as an educational field for studying environmental radiation (radioactivity) monitoring research, water sampling from rivers and streams, and health consultation with nursing students in an effort to foster human resources with technical knowledge of radiation and disaster care. The town also carries out educational programs to teach residents about radiation and practice risk communication through dialogue with them.

Collaborations With Selected Universities

7 universities selected for the Reconstruction Knowledge Projects, Nihon University, Keio University, Tokyo University of Agriculture, Tokyo University of Agriculture and Technology, Tohoku University, Nagasaki University, and Fukushima University, have worked together to create the "Bird & Animal Damage Control Network" to combat damage from wildlife in the Hamadori region. Fukushima Prefecture and the Ministry of the Environment also offer support and collaboration, exchanging opinions and conducting on-site surveys to resolve issues.

Reconstruction Knowledge Project Presentation

Presentations on "Reconstruction Knowledge" projects are held to spread the word about educational research activities by selected universities. In FY2022 the presentation was held in Okuma Town and featured poster sessions by each of the participating universities and reports given by teachers and students.

Innovation Education (Raising human resources to drive the framework)

Support is offered for education at the elementary, junior high, compulsory school, high school, and university levels which utilizes practical learning to teach what is necessary to foster a drive for challenge, the skills required for achieving SDGs and reconstructing Fukushima, and makes a progressive shift towards expected inquiry-based learning curriculum.

- Identifying local issues
- Utilizing desirable local resources
- Collaboration with local and remote research institutions and innovation companies

Elementary & Junior High	High School	University
Futaba District Educational Reconstruction Vision Council Project Education Restoration Project for the 12 Municipalities in Evacuated Areas	Fukushima Innovation Human Resource Development Support Project Fukushima Innovation Industrial Human Resource Development Project	Reconstruction Knowledge Project

[NEW] Innovation Area Regional Promotion Project "Fukushima Future Innovation Lectures"

Expanding the Circle of Innovative Human Resources
- Support for education that fosters care for the community
- Support for efforts to raise ambition for FIPO & reconstruction

Discovering Fukushima's Potential
- Support for efforts to develop human resources capable of innovation
- Support for efforts to raise human resources with expertise

Acquiring Knowledge for Reconstruction in Fukushima
- Developing human resources with expertise to contribute to Fukushima's reconstruction

Collaborative programs between companies and high schools

Fostering Innovative Human Resources

Practical educational programs which utilize the latest technology and consist of lectures on problem solving and on-the-job training are conducted in collaboration with local businesses, universities, and research institutions to develop human resources who will serve as leaders in driving the Fukushima Innovation Coast Framework.

Developing & Securing Human Resources in Industrial Fields

We promote development of human resources in key industries and encourage such talent to settle in the area by supporting tours of technology and processes at leading companies, training in cutting-edge technology such as programming for robotics in courses at technical colleges, universities, techno-academies and other manufacturing-focused institutions of higher learning.

Innovation Framework Eligible Schools

Eligible schools are high schools in Fukushima Prefecture, centered around the Hamadori region, which raise expert human resources who will serve as top leaders and drive the Fukushima Innovation Coast Framework in the areas of manufacturing, commerce, agriculture, forestry, and fisheries. The useful and practical initiatives resulting from their efforts have spread to vocational schools throughout the Nakadori and Aizu regions and help foster innovative human resources throughout Fukushima Prefecture.

Top Leaders: Iwaki High School, Soma High School, Haramachi High School
Agriculture, Forestry, and Fishery Field: Iwaki Agricultural High School, Soma Agricultural High School, Onahama Kaisei High School*
Manufacturing Field: Taira Technical High School, Nakoso Technical High School, Kawamata High School, Odaka Industrial Technology and Commerce High School*
Commerce Field: Taira Commercial High School, Onahama Kaisei High School*, Odaka Industrial Technology and Commerce High School*
Expert Human Resource Development Schools: All vocational high schools in Fukushima Prefecture (Nakadori, Aizu)
Advanced Schools: Futaba Future School, Odaka Industrial Technology and Commerce High School

*Onahama Kaisei High School offers education in agriculture, forestry, and fisheries, as well as commerce. Odaka Industrial Technology and Commerce High School offers education in manufacturing and commerce.

Expanding the Circle of Innovative Human Resources

Expanding the circle of efforts to develop human resources to lead Fukushima by cultivating an interest in the vocations and industries associated with the framework, growing hopes and dreams.

Educational Programs Building Ties to the Community

Elementary and junior high schools in the eight municipalities of Futaba-gun engage in inquiry-based Community Development Studies which cover the people, things, and ideas of the local region in order to build ties with the community and train students in the skills required to forge their futures and the future of the area.

Promoting Attractive Education Programs at Schools in 12 Municipalities in Evacuated Areas

This project provides educational support for the elementary, junior high, and compulsory schools in 12 municipalities in the evacuated areas to help create attractive schools and a distinctive education program that builds stronger ties with the community to encourages students to want to attend the schools, and leaves parents wanting to send their children to them.

Learning about the wildlife ecosystem in natural studies program

Example Initiatives

Innovation School Collaboration Project - Sending You the Jam of Youth PART 2

The "Jam Project" is a collaboration between 6 Agriculture, Forestry, and Fishery schools with Food Science departments. It was designed to allow students from these schools to promote the great taste and safety of agricultural products in Fukushima Prefecture. The project involves guest speakers giving lectures on "sixth industrialization" (not only producing but processing and selling products) as well as marketing. Opportunities to exchange opinions and improve jam production techniques are also organized. These efforts seek to promote and spread the appeal of Fukushima Prefecture's food products.

"Fukushima Future Innovation Lectures" NEW Project

Visiting lectures by experts involved in the Fukushima Innovation Coast Framework for the future leaders of Fukushima Prefecture (all regions of Fukushima). These lectures not only familiarize people with the Framework but provide opportunities to learn about advanced technologies and the potential of Fukushima Prefecture. The hope is to produce human resources capable of innovation in the future from among the lecture participants in Fukushima Prefecture.

Medical Field Lecture x Aizu Tenpo Jozo

Expanding the network of Framework supporters

Increasing the Number of Visitors

By working to attract companies and human resources from outside the region, we strive to bring together both non-resident and resident populations in order to get these groups of people involved in the various aspects of this framework for the Hamadori region.

Brush-up Projects to Improve the Value of the Region

This exchange project attracts businesses and young people to create resonance with the Framework and form ties with the Hamadori area.

Palette Camp Fukushima (Futaba Town)

Young people from outside the area worked with residents to solve issues aimed at reconstructing the town of Futaba.
Diverse participants from Japan and abroad used their knowledge and techniques, and the project developed sustainable businesses in Futaba Town which do not end with a single tour (magazine production and souvenir development).
*Project Organizer: Rurio

"iro" magazine and souvenir item "Daruma Cookies"

Custom Tours

Specialized tours made to match visitor needs

Companies, educational/research institutions, and organizations interested in the activities of the Hamadori region, as well as companies considering new business advancements in the area, are able to consult to create visiting plans to see the advanced technology, research centers, and other facilities and companies in the Hamadori region.

Collaboration with Universities to Spread Information to Future Talent

Creating points of contact with future leaders of the Innovation Region

Online exchanges are held with the aim of fostering interest in the Innovation Region. Through interactions with companies on the cutting edge of their fields and those who work with passion, university students are exposed to the thoughts and challenges in the industry.

Fukushima 12-Municipality Migration Support Center

Founded by Fukushima Prefecture on July 1st, 2021 in order to promote relocation and settlement in the 12 municipalities which were given evacuation orders as a result of the accident at the Fukushima Daiichi Nuclear Power Plant. The center is engaged in a wider range of activities to support wide-area collaboration and relocation measures for these 12 municipalities.

Major Efforts

- Information dissemination: Learn - Work - Startup - Live - Support - Magazine - Topics, etc.
- Producing tie-in videos, articles, and internet ads
- Relocation trial tours, events and seminars
- Relocation consultations
- Relocation job opportunities (discovering and exhibiting openings at job fairs, etc.)

Fukushima 12-Municipality Migration Support Center

Fukushima Prefecture Tomioka Joint Government Building 2F, 553-2 Kobama, Tomioka Town, Futaba-gun, Fukushima Prefecture 979-1111
☎ 024-23-4315 (Main line) Relocation Consultation Line 0800-800-3305 (Operating Hours: 8:30 - 17:00) * Excluding weekends, national holidays & end of year/New Year holidays
http://mirai-work.life ijyu-shien@fipo.or.jp

Example Initiatives

In an effort to convince people interested in moving to the 12 municipalities of Fukushima to act on said interest, information on moving to the area is posted on the Future Work Fukushima website and trial tours with hands-on activities and exchange events are also held. There are even promotional events and seminars held in the Greater Tokyo area to inform people of efforts the 12 municipalities have enacted to draw in new residents and to show them all the various things others who have relocated now do there.
There are also numerous forms of support for those looking to move, including in-person, over the phone, and online consultations, Fukushima 12-municipality relocation support transportation subsidies for on-site tours for those interested, and more.

- Future Work Fukushima website

- Fukushima 12-municipality relocation trial tours

- Fukushima 12-municipality relocation seminars

- Local exchange events

- Fukushima 12-municipality relocation consultations

- Fukushima 12-municipality relocation support transportation subsidies

Promoting participation by raising awareness of the Framework

Spreading Information

Various information is sent out in order to improve awareness of the framework and promote increased participation.

Fukushima Innovation Coast Framework Symposium

Hosting Symposiums

Symposiums are held to promote recognition of the progress of the Fukushima Innovation Coast Framework and its ripple effects on reconstruction to a wider audience and deepen understanding of the framework itself.
In FY 2022, the symposium was held at the Tomioka Town Art & Media Center and was titled "New Challenges in Disaster Prevention and Mitigation — Innovation in Fukushima, a Region Facing Advanced Issues" and covered prevention, mitigation, and other efforts to solve societal problems. (December 10th, 2022)

Tohoku University International Research Institute of Disaster Science
Director Fumihiko Imamura

Fumihiko Imamura, Director of the International Research Institute of Disaster Science at Tohoku University, spoke of how disaster prevention requires self-help, mutual assistance, public assistance, and also industrial assistance (strong industry). He spoke of a need to develop a domestic disaster prevention industry and contribute to the greater international community. Representatives from the industrial, academic, and government sectors took stage to speak to their activities and efforts as well.

During the talk session, guests spoke on the theme of "Innovations in Japanese Disaster Prevention from the Framework" from their own perspectives, discussing personal experiences, current problem solving efforts, and positive hopes for the future. Director Imamura closed the discussion saying that once industry takes root, the local area must create its own disaster prevention culture, and then consider sharing that information both domestically and around the world.

FIPO Official YouTube
Fukushima Innovation Coast Framework Symposium

Tours for Foreign Media

Sharing Information Domestically and Abroad

FIPO conducted tours for foreign media and embassy officials to promote awareness of the Framework's initiatives and the growing industrial clusters in Hamadori and attract international companies to the area.

Showcasing the Fukushima Innovation Coast Framework

Events & Exhibitions

We participate in a variety of events held in the Tokyo metropolitan area, Fukushima Prefecture, and elsewhere to raise interest in and awareness of the Fukushima Innovation Coast Framework and expand the visiting population. We exhibit videos and panels presenting initiatives and distribute pamphlets on the Framework itself. We also hold popular hands-on events with programming tools to help inspire children, the leaders of the future, to take an interest in programming.

Mieruka (Visualization) Seminars to Raise Awareness

Seminars were conducted to familiarize local communities with the Framework.

Visualization Seminar in Minamisoma (Minamisoma City) Robotics and Societies of the Future

October 27th, 2022

Experts involved in robotics and drone R&D in the Fukushima Innovation Region gave presentations on the latest technology, detailed how development of robots and drones might change our lifestyles, and described Minamisoma's promotional vision for robots for the future.

Mieruka (Visualization) Seminar in Kawamata (Kawamata Town) New Efforts starting in Kawamata Town!

February 25th, 2023

Special Christmas Event (Fukushima City) Learn as a Family! What is the Fukushima Innovation Coast Framework?

December 25th, 2022

Seminars on the cutting-edge technology and progressive initiatives of the Fukushima Innovation Coast Framework were held to win the interest of elementary and junior high school student in the hopes that some of them may one day become the robot developers and operators that will lead the restoration of the Hamadori region.

Mieruka (Visualization) Seminar - Why Study Science?

Drone trials

Robot programming demos

Mock surgery using laparoscope

Making electricity with hydrogen

Dissemination of Information (web, social media)

Information is shared in easy-to-digest formats on the official website, the Hama Tech Channel, through videos, and via social media in order to spread understanding of the Framework to a wider age group.

The Hama Tech Channel operates under the motto, "The strength of Fukushima, changing the world," and spotlights the leaders and technologies that tackle the many problems modern society faces and pave way towards a brighter future.
It is a Fukushima-based future-focused co-creation media effort to support forceful changes to better society.

Official Site | Instagram | Facebook | Twitter | YouTube | Hama Tech Channel

Promoting participation by raising awareness of the Framework

Spreading Information

Various information is sent out in order to improve awareness of the framework and promote increased participation.

[Exhibit] Exhibits on 2 Topics Held in FY 2022

Mechanisms of Earthquakes & Tsunamis

Panels, photos, and models were exhibited to explain the mechanisms at work when earthquakes and tsunamis occur in an easy to understand manner. The exhibit's hands-on equipment, including the one that demonstrated the liquefaction phenomenon, garnered particular attention. A connected event also featured lectures from professionals in the field.

Exhibit - Mechanisms of Earthquakes & Tsunamis

The 2011 Tohoku Earthquake and Tsunami Seen Through Maps and Photographs

This exhibit featured maps and aerial imagery of the Hamadori (coastal) and Nakadori (inland) areas of Fukushima Prefecture before the earthquake and tsunami, immediately after, and today, comparing the differences, showing the extent of the destruction, and raising awareness of the steps towards reconstruction. Visitors could walk over massive aerial images displayed on the floor and get a birds-eye view of the area, compare the differences, and learn just how much changed.

Exhibit - The 2011 Tohoku Earthquake and Tsunami Seen Through Maps and Photographs

Learning & Contemplating Earthquakes, Tsunamis, and Nuclear Disasters

[Storytelling]

Opportunities are available to hear directly from residents who experienced the earthquake, tsunami, and nuclear plant disaster. 40-minute sessions are held 4 times a day (beginning at 10AM, 11:30AM, 1:30PM, 3PM). Training seminars for organizations and groups are also available (optional event).

[Panel Exhibit]

In addition to the permanent exhibits, other exhibits that offer deeper looks at topics are held. Panel exhibits are also held at various times to match the timing of the lifting of evacuation orders after nuclear accidents.
In FY 2022, this exhibit detailed the reconstruction efforts in the Special Zones for Reconstruction and Revitalization in the Difficult-to-return Zone in Futaba Town, Katsurao Village, and Okuma Town as the evacuation orders for those areas were lifted.

Futaba Town Panel Exhibit

4 full-time researchers appointed in FY 2022

4 Full-time Researches Appointed for New Full-scale Research Efforts

The Memorial Museum carries out survey and research efforts.
Through training and exhibits and presentations, the museum uses the research it has accumulated to help spread information about the state of Fukushima today and the lessons learned from the nuclear disaster to more people.
In addition to Director Noboru Takamura and the senior research staff, 4 full time researchers who reside and research the disaster-struck areas were appointed in April 2022. Each comes to the museum with their own focus on particular issues at hand, and all face their research head-on, working to play important roles in passing on the experiences of Fukushima to future generations.

The Great East Japan Earthquake and Nuclear Disaster Memorial Museum (Futaba Town)

This facility uses facts and records of the 2011 Tohoku earthquake and tsunami, as well as the subsequent nuclear disaster to show the progress of Fukushima Prefecture and share disaster prevention lessons with Japan and the world.
The exhibits detail earthquakes, tsunamis, and nuclear disaster, and storytellers give talks daily.
The museum also carries out field work in the disaster-hit areas on the coasts of Futaba Town and Namie Town, and experts offer talks and training.

Firetruck deformed by the tsunami on display outside

The Great East Japan Earthquake and Nuclear Disaster Memorial Museum

39 Takada, Nakano, Futaba Town, Futaba-gun, Fukushima Prefecture 979-1401
☎ 0240-23-4402 Opening hours 9:00-17:00 (last admission: 16:30)
Closed Tuesdays (or the following day if the Tuesday falls on a national holiday) and year-end/New Year period (December 29 - January 3)
http://www.fipo.or.jp/lore/ archive@fipo.or.jp

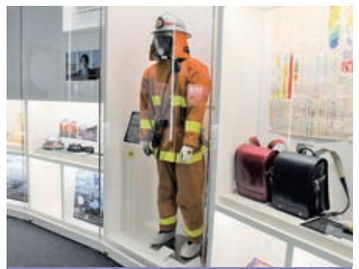
Exhibits

Around 200 items, including photographs of areas before the disaster and materials describing the lives of evacuees at the time of the disaster and thereafter, are on display at the museum. The exhibits feature video footage of testimony from survivors, touch panel displays, and a model of the Tokyo Electric Power Fukushima Daiichi Nuclear Power Plant as it looked just after the accident.

Prologue
Seven huge screens show everything from life in the area beforehand, the multiple disasters, and efforts towards reconstruction.

Beginning of the Compound Disaster
Allows you to travel through time and witness changes from life prior to the onslaught of the compound disaster.

Immediate Response to the Nuclear Accident
Details and keeps records of the efforts taken immediately following the accident for use in teaching the lessons learned to future generations.



Voices of Fukushima
Testimonies and mementos share the emotions local residents felt as their homeland was, and continues to be, changed.

Long-term Impact of the Nuclear Disaster
Learn about the ongoing impact of the nuclear disaster and efforts concerning it.

Striving for Revitalization
Offers a look at the new reconstruction efforts the people and government of Fukushima Prefecture are engaged in, and gives a picture of the Fukushima of the future.