

NARREC (Naraha Center for Remote Control

<u>Naraha</u> Center for <u>Re</u>mote <u>C</u>ontro Technology Development)

Status of efforts of Naraha Center for Remote Control Technology Development

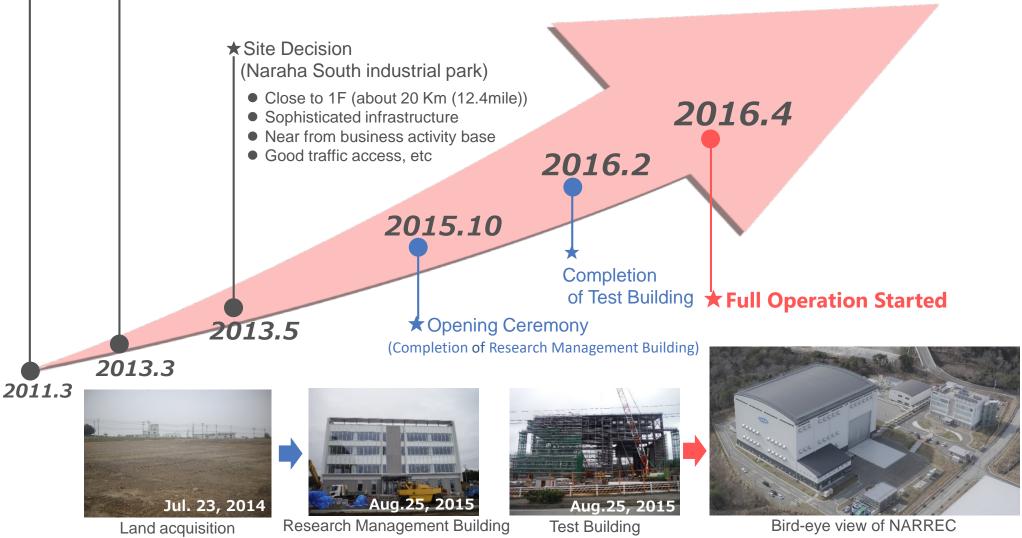
Fukushima Research Institute, Sector of Fukushima Research and Development, Japan Atomic Energy Agency Apr. 30, 2020



★The Great East Japan Earthquake

*Serious accident at the TEPCO's Fukushima Daiichi Nuclear Power Station(1F)

* Construction of mock-up facility for remote control technology decided by Japanese Government





Test facilities of NARREC

R & D base for remote control technology Operation started in FY2015

Full-scale Mock-up Test Area The world's first test of fuel debris retrieval by side access aerial methods planned

Component Test Area Used for decommissioning, decontamination, disaster response etc. Place of "Creative Robot Contest for Decommissioning"



Bird-eye view of NARREC

Full-scale Mock-up Test Area



Virtual Reality System

Limitated Reactor Building of 1F



Component Test Area

Used for training of decommissioning work







Usage Examples

Usage Record 230 cases

85 cases were used by companies, schools in Fukushima











株式会社アトックス







(JAEA) Aiming at cost region to base for decommissioning R & D 4

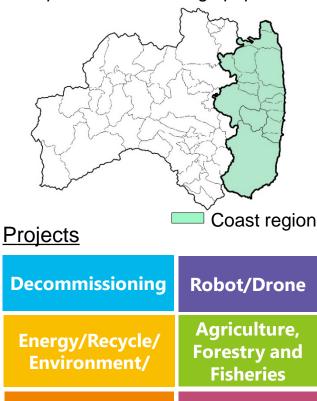
Coast region is a place for mock-up tests and training of decommissioning.



Fukushima Innovation Coast Framework aims to build a new industrial base in coast region, in order to restore industries that have been lost due to the Great East Japan Earthquake and nuclear disasters.

Purpose

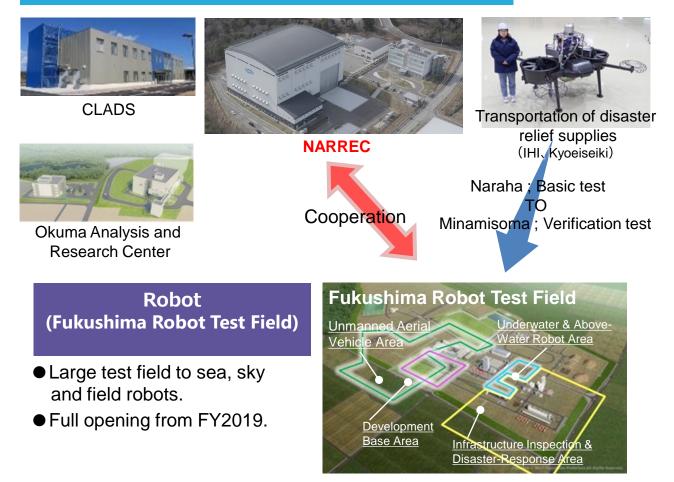
- Industrial cluster formation
- Human resource development
- Expansion of exchange population



Aerospace

Medical

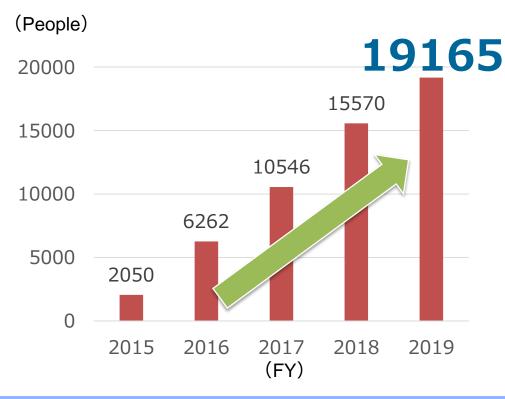
R&D for Decommissioning (JAEA Fukushima)



5



About 4,000 to 5,000 people visited the NARREC per year
NARREC is cooperating with Naraha Town to promote the use of accommodation, transportation and eating & drinking facilities for contributing town's reconstruction



Visitors (total)



Examples of use

NARAFUKU, V-Chain NEMOTO (foods & drinks)

Naraha Taxi <u>Wins</u> ウインズトラベル



"Michi-no-Eki Naraha" reopen

Along with the reopening ceremony of "Michi-no-Eki Naraha (rest stop) " NARREC facility tour was held. (22 visitors, Apr. 25, 2019)



Tour of NAREEC

Along with the "FUTABA-World 2019 in J-Villge" of regional events, NARREC facility tour was held. (about 200 visitors, Oct. 5, 2019)







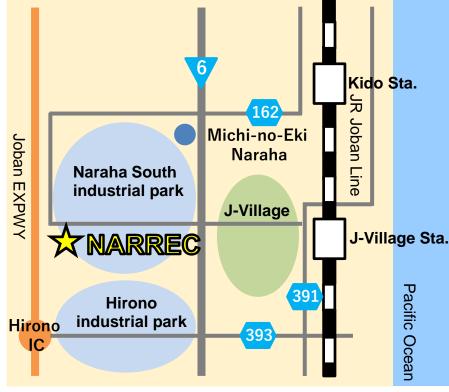
Naraha town Public Relations Magazine





Access & Contact

<u>Access</u>



Contact us

Japan Atomic Energy Agency

Naraha Center for Remote Control Technology Development (NAREEC)

Nakamaru 1-22, Yamadaoka, Naraha-machi, Futaba-gun, Fukushima, 979-0513, JAPAN

Phone: +81-240-26-1040

Staff : Facility use (ITO), Facility tour (AOYAMA)

E-mail : <u>naraha_mockup@jaea.go.jp</u>

_URL : <u>https://naraha.jaea.go.jp</u>

By Car

Misato JCT(Joban EXPWY)130min. \rightarrow Hirono IC(R6)10min. \rightarrow NARREC

By Train

Tokyo Sta.(JR Joban Line, Limited Express)140min. \rightarrow Iwaki Sta. Iwaki Sta.(JR Joban Line)30min. \rightarrow Kido Sta. Kido Sta.(Taxi*)10min. \rightarrow NARREC *Reservation required