

Medium- and Long-Term Activities of the
Centre for Environmental Creation

(Provisional Translation)

February 2015

Management Strategy Committee
of
the Centre for Environmental Creation

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Supplement : Research Plan for the Centre for Environmental Creation

1. Introduction

The Centre for Environmental Creation (CEC)¹ will be established by Fukushima Prefecture with the support of the Japanese government, as a central organization to conduct research, and provide information and education, with the aim of recovering and creating the environment that has been contaminated with radioactive materials.

The Japanese government has been conducting the following activities in accordance with the Act on Special Measures for Fukushima Reconstruction and Revitalization (Act No. 25 of March 2012) and the Basic Guideline for Fukushima Reconstruction and Revitalization (Cabinet Decision of July 2012) (hereinafter called “Basic Guidelines”): research into the movement of radioactive materials in the environment and the effect of these materials on ecosystems; development of radioactivity decontamination technologies; and provision of advice for radioactivity decontamination. These activities of the national government should be carefully coordinated with those of Fukushima Prefecture in the CEC to serve the goal of creating an environment in which people can live safely.

The initiatives of the central government will be implemented by Japan Atomic Energy Agency (hereinafter “JAEA”)² and National Institute for Environmental Studies (hereinafter “NIES”)³ as participants in CEC. It will be of utmost importance that these organizations and Fukushima prefecture closely cooperate with one another in CEC in conducting such research and other activities.

To ensure the close cooperation of the participants, the Management Strategy Committee of CEC has created these Medium- and Long-Term Activities of the Centre for Environmental Creation (hereinafter “Medium- and Long-Term Activities”) to establish the specific policies for such cooperation, and the specific measures to implement the Basic Plan of Fukushima Prefecture for the Centre for Environmental Creation (tentative title) formulated by the prefectural authorities in October 2012.

¹ The CEC facilities consist of the Miharu Town facilities (main building, research building, information and communication building, and annex) and the Minamisoma City facilities (main building and calibration building).

² JAEA has decided to conduct R&D activities for decontaminating radioactive materials and recovering the contaminated environment, and to provide the R&D results, in such a scope and in such a timeframe that the results as to allow their actual application for decontamination and recovery. This will be done in accordance with the Basic Guidelines of the national government. JAEA has been working under its FY 2010–2014 plan (JAEA’s Plan for Achieving the Medium-Term Goals).

³ NIES has decided to assess and develop technologies for disposing of contaminated waste and soil, and to conduct research on the movement of radioactive materials in the environment, in accordance with the Basic Guidelines. This has been implemented as part of its current (third) five-year plan (FY 2011–2015).

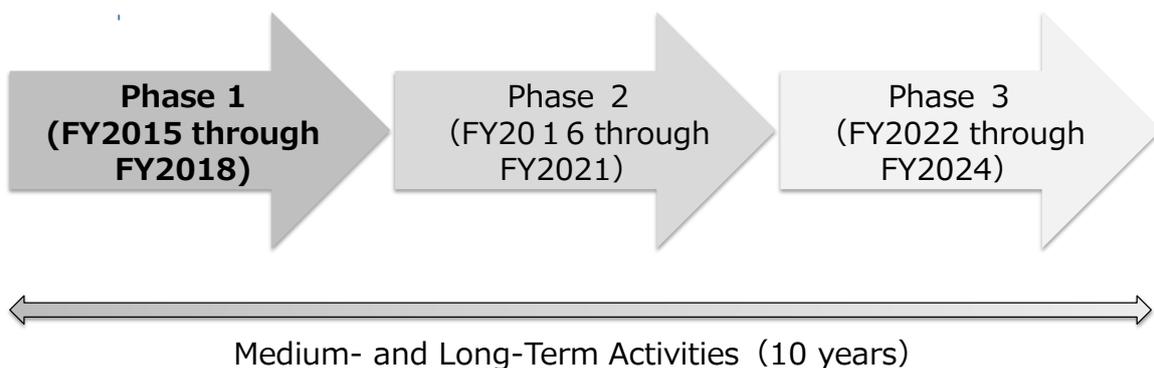
2. Term of activities

This document establishes the basic plan for the ten years from FY2015 through FY2024⁴ so that the three participants can work and cooperate together in an appropriate, coordinated, efficient and effective manner in CEC to implement the measures outlined in the Basic Guidelines. In view of the fact that there are no precedents or models for the activities of CEC, and of possible future environmental changes, the ten-year term of the Medium- and Long-Term Activities is divided into: Phase 1: FY2015 through FY2018; Phase 2: FY2019 through FY2021; and Phase 3: FY2022 through FY2024, to allow a stepwise approach.

In Phase 1, the three participants in CEC will give priority to the most urgent issues, including thorough decontamination, and appropriate disposal of removed contaminated soil and waste, and clarification of the movement of radioactive materials in the environment, to facilitate the recovery of the environment in Fukushima Prefecture. The three participants will also cooperate in research to contribute to environmental creation.

JAEA and NIES may reflect the Phase 1 activities in their own activity plans.

The Phases 2 and 3 activities will be developed after the results of the activities of the three participants in Phase 1 are assessed, with consideration to changes in the situation, including environmental changes.



⁴ The CEC facilities will be partially inaugurated in FY2015, and fully operational in FY2016. The Medium- and Long-Term Activities cover the ten years from FY2015 through FY2024.

3. Implementation arrangement

(1) Implementation policy

Fukushima Prefecture will itself take comprehensive measures for the recovery of the environment and environmental creation, cooperating and working together with JAEA and NIES, to implement the Medium- and Long-Term Activities.

JAEA is Japan's only institution for comprehensive R&D of nuclear power, while NIES is Japan's only research institute that undertakes a broad range of environmental research in an interdisciplinary and comprehensive manner. Both institutions will actively contribute toward recovery and restoration from the nuclear accident, and perform their comprehensive functions by applying their advanced knowledge, expertise, and research resources for the recovery of the environment and environmental creation in Fukushima Prefecture.

(2) Implementation organizations

The three participant organizations responsible for the implementation of the measures for the recovery of the environment and environmental creation in CEC are as follows.

Fukushima Prefecture: Fukushima Prefecture CEC (a branch organization of the Prefectural government, hereinafter "FPCEC")

JAEA: Japan Atomic Energy Agency, Fukushima Environmental Safety Center (This is a branch organization of JAEA, hereinafter "JAEA Fukushima Center")

NIES: National Institute for Environmental Studies, Fukushima Branch (provisional name) (This is a branch organization of NIES, hereinafter "NIES Fukushima Branch").

These are hereinafter referred to as the "three organizations."

(3) Arrangements for implementation of activities

(a) Establishment of Liaison and Coordination Committee

A Liaison and Coordination Committee made up of representatives of the three organizations, the heads of divisions of CEC (specified in (b)), etc., will be established to formulate an annual plan in accordance with "the Medium- and Long-Term Activities", and liaise and coordinate among the three organizations.

(b) Establishment of Division Committees

In order for the three organizations to closely coordinate their research activities, Division Committees made up of staff members of the three organizations according to the research fields described in Table 1, will be established. Each of the Division Committees may include outside researchers from universities or other research institutions, as deemed necessary.

A head of each Division will be appointed to manage and coordinate the activities in its fields of research. The head of each Division will preside at its Division Committee; formulate an annual plan in its fields of research; manage progress in implementation of the annual plan; and provide results of this implementation. Staff members of the three organizations who are part of each Division Committee will be assigned to projects according to the characteristics of their own three organizations. The head of each Division will endeavor to share information with researchers other than those from the three CEC organizations to coordinate research activities and promote joint research projects.

(c) Opinions/advice from inhabitant at the Prefectural Committee

In order to reflect the needs of inhabitants of the prefecture, CEC will seek their opinions/advice at a Prefectural Committee to be made up of people from various communities/groups in Fukushima Prefecture.

Table 1 List of Division Committees

| Division Committee | Fields of research |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Radiation Measurement | Development of analysis methods/measurement technologies, prediction of radiation exposure, etc. |
| Decontamination and Contaminated Waste Disposal | Development of decontamination technologies; establishment of methods for radioactive waste disposal, etc. |
| Environmental Dynamics | Clarification of environmental dynamics; construction of radioactivity migration models; establishment of methods for ecosystem management, etc. |
| Environmental Creation | Creation of an environmentally friendly society, a disaster-resilient society, etc. |

A schematic diagram depicting arrangements for the implementation of “Medium- and Long-Term Activities” is shown in Figure 1.

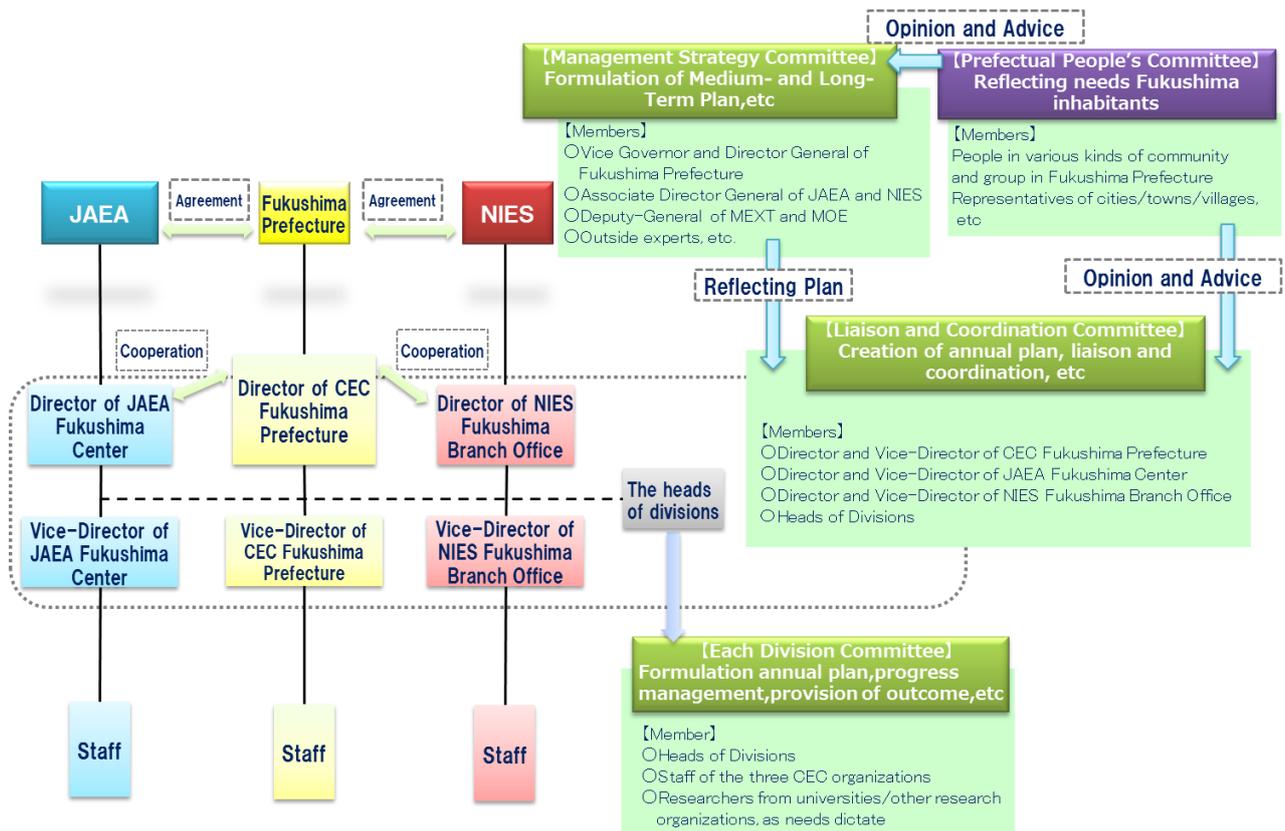


Figure 1. Schematic diagram of arrangements for the implementation of Medium- and Long-Term Activities

4. Basic principles for activities

In view of the aims associated with the establishment of CEC, its activities should be based on the following principles.

- It is imperative to acknowledge the severe environmental changes caused by the nuclear accident and the many issues related to recovery and restoration from the accident, and to reflect the hopes and aspirations of the inhabitants of Fukushima prefecture with regards to the activities of CEC. In order to facilitate recovery and restoration efforts, with a particular emphasis on decontamination activities in the disaster-stricken areas, and to improve the environment such that the inhabitants feel safe living there, and in as swift a manner as possible, CEC should endeavor to respond to changes in the situation as they occur and make efforts to respond appropriately.
- In order to improve the environment such that the inhabitants, including children, feel safe and comfortable living in Fukushima, the recovery and restoration measures are to be constantly optimized to ultimately create a society in which their various needs are satisfied, with first priority being given to the prevention of the health impacts from radiation, and to simultaneously address and overcome other challenging issues associated with the disaster.

On the basis of the aforementioned basic principles, the three organizations will comprehensively establish the foundations on which they will cooperate and work together to dynamically respond to any changes in the situation by consolidating these arrangements as necessary. They will make a concerted effort to construct a system in which they can effectively and efficiently conduct activities, such as research, so as to deal with not only urgent issues, including radioactivity decontamination - mainly in previously inhabited areas - and the disposal of radioactive wastes, but also medium- and long-term issues, including assessment of the environmental impact of the decontamination and environmental creation. This will be done with the support of the national government.

At the end of each phase, the outcomes of the activities of CEC will be analyzed and evaluated, and the plan for the next phase will then be formulated on the basis of the considerations thus identified.

In order to enhance the effectiveness of its activities, including its research capacities, CEC will cooperate and work together with research organizations, etc., in various fields, including agriculture, forestry and fisheries, as shown in Figure 2.

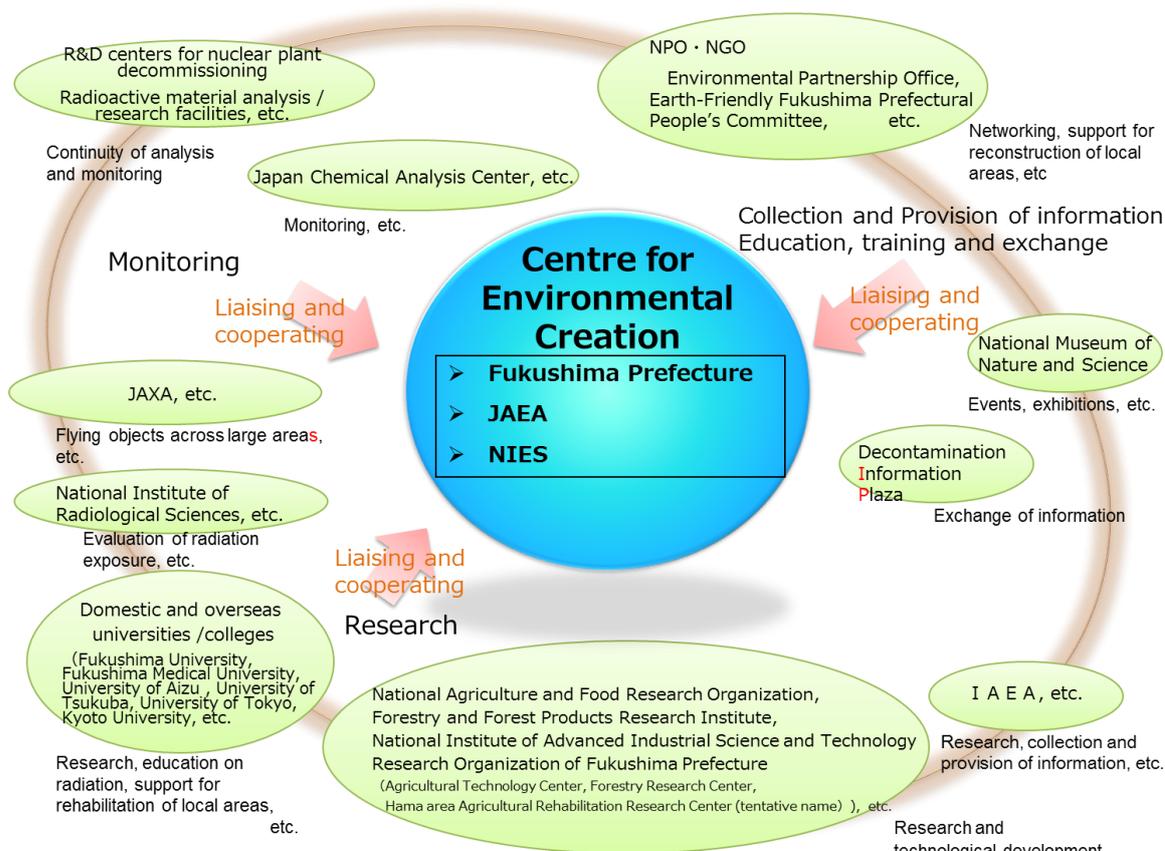


Figure 2. Schematic diagram for cooperation of CEC with other organizations

5 Medium- and Long-Term Activities (FY2015 through FY2024)

(1) Monitoring

The task of environmental radiation monitoring is shared by the national government, local authorities, and other organizations, according to the Comprehensive Monitoring Plan established by the Monitoring Coordination Committee⁵ of the national government (as revised on April 1, 2014). In view of the fact that the radioactive materials have affected various aspects of people's lives, and because there are also concerns about the effects of the reactor decommissioning work, it is necessary to continuously conduct detailed monitoring of air doses and radioactive materials.

⁵ This Committee has been responsible for the coordination of radiation monitoring by the relevant government agencies, local authorities and other organizations, in the aftermath of the accident at the Fukushima Daiichi Nuclear Power Station, to ensure that the accurate and systematic monitoring is implemented on the basis of the Guidelines.

FPCEC will assume the core function in environmental radiation monitoring. It will conduct continuous radiation monitoring in people's living environments and around the nuclear plant, central control of the monitoring data and provide to mitigate inhabitant anxieties information based on the data.

In the event of a nuclear emergency, FPCEC will make emergency monitoring arrangements and take emergency actions to respond to a broader range of events and changes in the emergency situation in cooperation with the national government, which is in charge of overall supervision of the monitoring, according to the Nuclear Emergency Preparedness and Response Guidelines.

(2) Research

In order to recover and create the environment in the areas contaminated with radioactive materials, it is necessary to take a series of measures, e.g., gain sufficient knowledge of the contamination status and the movement of radioactive materials; implement decontamination actions tailored to the contaminated area and available resources; assess the results of such actions; and appropriately reduce, store, dispose of, and reuse removed contaminated soil and waste. In addition, it is necessary to facilitate the recovery of the biota and ecosystems that have been subjected to changes.

Furthermore, in order to create a beautiful and rich environment in which the inhabitants of the prefecture will feel safe to live, it is necessary to construct a material-cycle society that uses the local environment to its best advantage, resources, industries and other characteristics, while taking into consideration the circumstances surrounding radioactive materials and the progress of the decontamination work. It is also necessary to construct a disaster-resilient society based on lessons learned from the Great East Japan Earthquake, and further enhance environmental preservation measures to create a beautiful Fukushima.

To achieve the above goals, CEC will make the best use of, and improve, state-of-the-art technologies and methods. It will implement research tasks systematically on the basis of relevant plans and according to priorities, and ensure that the national and prefectural governments can take appropriate advantage of the research results that CEC produces in the course of implementation of their measures, and in a timely manner. The research topics with which CEC is to be engaged will be selected according to priorities assigned on the basis of the expected effects from the results in context of the above-mentioned basic principles for activities.

In order to ensure that research for the recovery of the environment and environmental creation are efficiently coordinated, and to eliminate redundancy in

the implement of such, and, further, to ensure that the outcomes of such research are effectively used to address actual issues in the field, CEC will construct a platform⁶ through which relevant domestic and overseas universities and other organizations can exchange and provide relevant information, in cooperation with the Ministry of Education, Culture, Sports and Technology (MEXT), the Ministry of the Environment (MOE), IAEA, etc.

(3) Collection and provision of information

The outcomes of various research projects and the results of radiation monitoring are to be collected and organized on a centralized basis, and there is to be a system for providing information based on such outcomes and results so that prefectural inhabitants and others can easily understand and apply such outcomes.

To achieve this, FPCEC, with the participation of JAEA Fukushima Center and NIES Fukushima Branch, will produce systematic information on radiation and decontamination and the outcomes of relevant research, and provide such information and outcomes to address the needs of prefectural inhabitants in an easily understandable manner. They will also actively collect and provide relevant information, e.g., by holding international conferences of experts, so that the knowledge and experiences acquired due to the globally topical disaster can be shared internationally.

In addition, in relation to the collection and provision of information, and the provision of information search and review services, CEC plans to publish a mail magazine, as well as regular written materials, to provide continuous updates for prefectural inhabitants. It may also make use of websites and social media as avenues for the dissemination of this information.

(4) Education, training, information exchange and communication

It is necessary to provide information on the current environmental situation and radiation in the prefecture, education, training, information exchange and communication to develop capacities and facilitate the creation of a future Fukushima.

To achieve this, FPCEC will provide the necessary support to the Board of Education of Fukushima Prefecture to improve education on radiation and the environment provided to teachers and students. JAEA Fukushima Center and NIES Fukushima Branch Office will contribute to the long-term development of human resources, including researchers, in cooperation with universities and other research organizations.

By means of these information and communication building activities of the CEC, it will construct a network encompassing a broad range of actors, including NPOs

⁶ This platform will be a shared base in which a vast amount of various types of information is generated, collected, stored, distributed, shared, and used. It is expected to serve as an information base for academic communities and society.

and local residents, in order to promote risk communication initiatives on radiation and decontamination, and it will also provide a training program on the recovery of the environment and environmental creation for concerned businesses.

The relationship among the four activities of monitoring, research, information collection and provision, and education, training, information exchange and communication is shown in Figure 3.

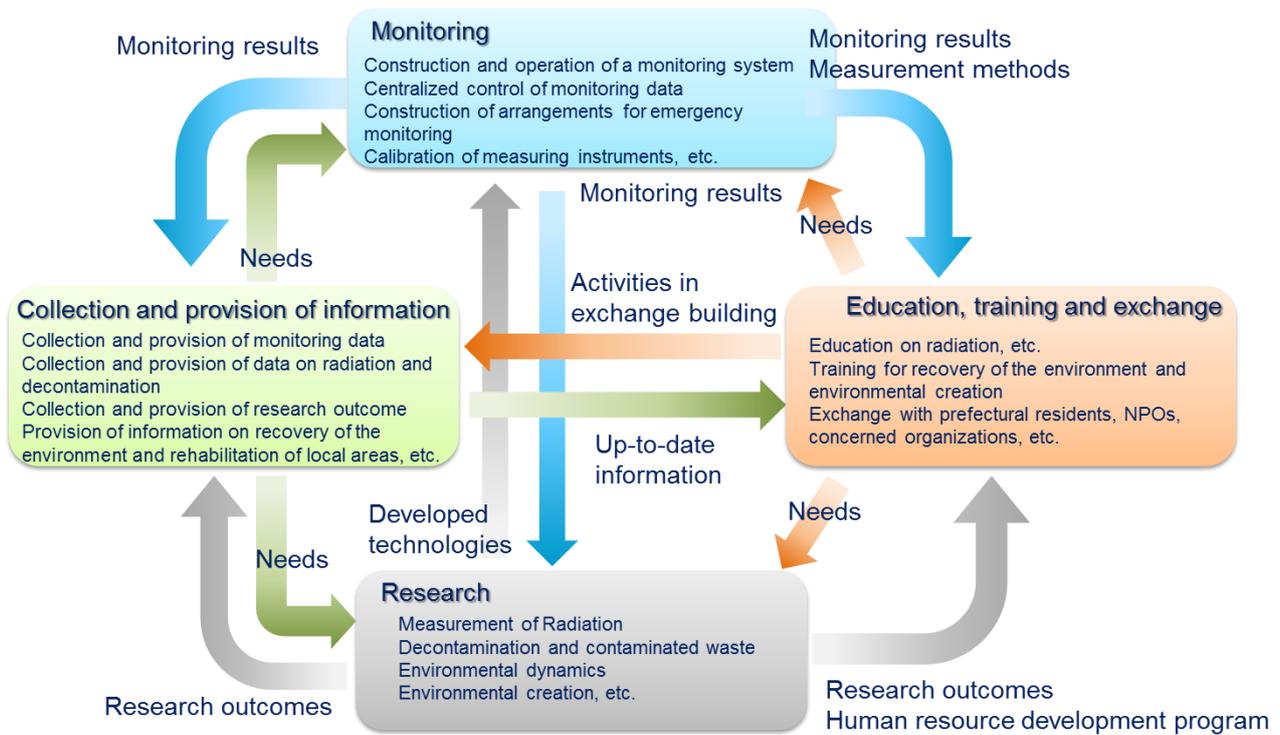


Figure 3. Relationship among four categories of activities

6. Phase 1 activities (FY2015 through FY2018)

(1) Monitoring

① **Construction and operation of a system for detailed and continuous environmental radiation monitoring**

Environmental radiation monitoring will be implemented by measuring the radiation in the environment according to a comprehensive monitoring plan.

CEC will enhance and improve continuous radiation monitoring throughout the prefecture, using real-time radiation dose measuring systems, with monitoring posts installed in the elementary and junior high schools, public parks, etc., which constitute people's living environments, and radiation monitoring to encourage the return of people forced to leave their homes because of the nuclear accident.

Furthermore, CEC will construct and operate a system which is equipped to reflect the opinions and views of both inhabitants and experts in monitoring plans to ensure detailed and precise radiation monitoring.

② **Centralized control, analysis, and evaluation of monitoring data such as that on radiation in the environment**

CEC will centralize the administration of the various environmental radiation monitoring data possessed by participant organizations to facilitate its use by inhabitants at one time. It will also analyze and evaluate and endeavor to optimize, data, including its precision control, in complement to research activities.

To ensure the traceability of measurements of radioactivity and radiation, CEC will construct a precision control system including regular calibration of measuring instruments and checking measuring methods.

In addition, CEC will construct and operate a system for monitoring hazardous substances in the environment and controlling monitoring data on a centralized basis.

③ **Construction and operation of a system for monitoring radiation in the environment at times of emergency**

CEC will construct and operate an emergency monitoring system in accordance with the Nuclear Emergency Preparedness and Response Guidelines, and will consider the potential and practicalities of constructing an environmental radiation monitoring system to cater for decommissioning work at Fukushima Daiichi Nuclear Power Plant (in particular the removal of fuel debris, etc.) as a medium- and long-term issue. A schematic diagram for the monitoring activity is shown in Figure 4.

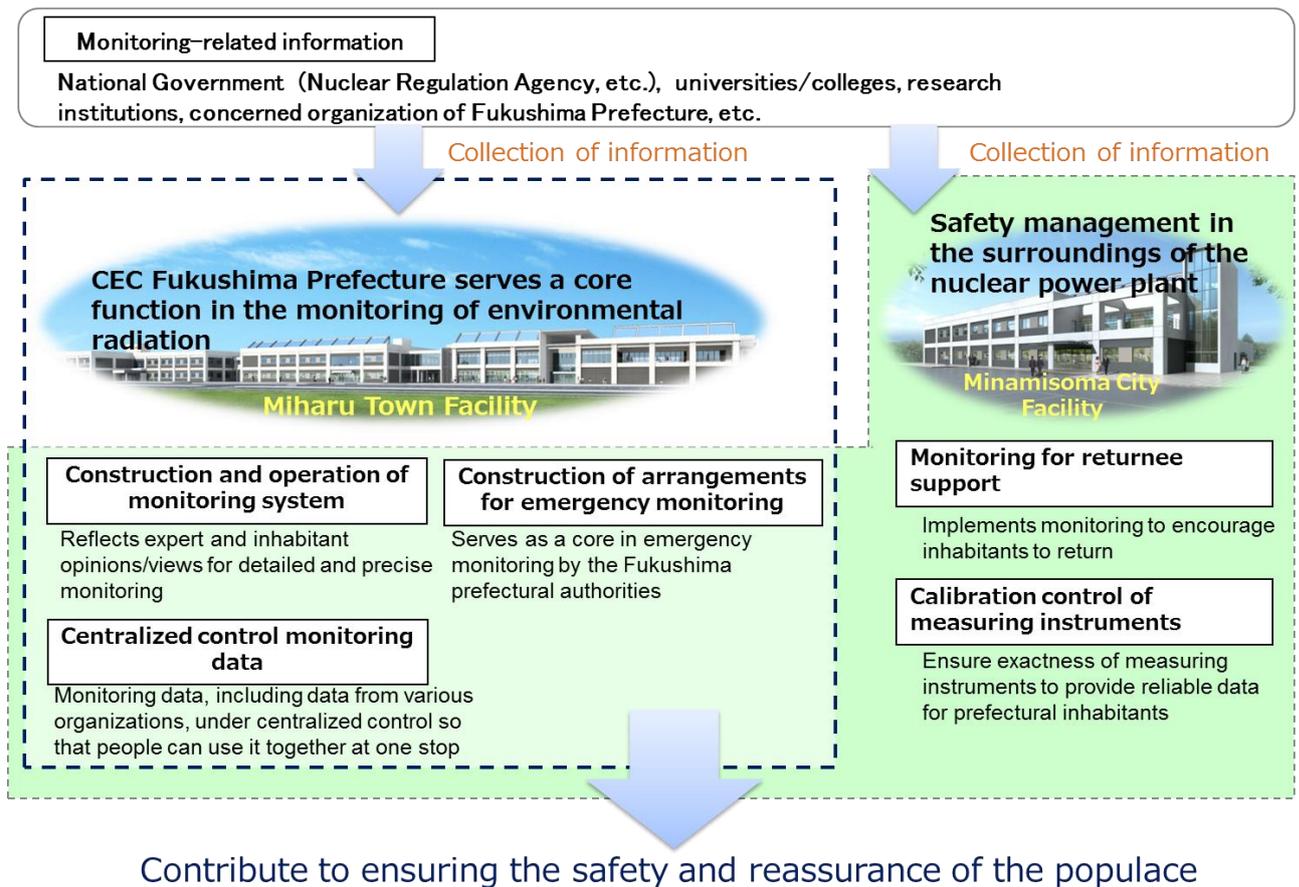


Figure 4. Schematic diagram for monitoring activities

(2) Research

① Radiation Measurement

It is necessary to develop radiation measurement technologies and methods for evaluating radiation doses and thus gain an exact knowledge of the current exposure dose; predict future exposure doses; assess the safety and risks in the living environment; and disseminate the results of such measurements and evaluations in an easily understandable manner.

To achieve this, CEC will develop analysis methods that enable the rapid and/or simple analysis of radioactive materials found in various samples from the environment; technologies that enable measurement of a detailed dose rate distribution in a large area in a short time; technologies for measurement in water systems (rivers, lakes, the sea, etc.); and technologies that enable highly precise continuous measurement in the field. It will also endeavor to create methods for the presentation of readily-understandable measurement results e.g., visualized presentation techniques for dose rate distribution.

CEC will develop methods for evaluating exposure doses allowing for the

differences in radioactivity concentration among areas, and matched with lifestyles of individuals, for the safety and peace of mind of the inhabitants of Fukushima prefecture.

② **Decontamination and contaminated waste disposal**

To facilitate environmental recovery, it is necessary to develop decontamination technologies to effectively and efficiently remove radioactive materials from the contaminated soil, etc. It is also necessary to conduct research and development so that the vast amounts of removed contaminated soil and waste produced in the decontamination work, etc. will be disposed of appropriately, and so that the bulk of such soil and waste can be reduced and put under strict control throughout the process leading to its final disposal.

To achieve this, CEC will develop effective and efficient decontamination technologies based on the caesium adsorption/desorption mechanism, and conduct research to inhibit the outflow of radioactive materials from forests, etc. It will also conduct research to assess the general effects and environmental impacts of decontamination.

CEC will develop and enhance technologies for removing contaminated soil and reducing the bulk of contaminated waste. It will also study and consider the adoption of technologies and methods for the safe control of such soil and waste in temporary storage sites and Intermediate Storage Facilities, as well as those for transport, regeneration and reuse of contaminated waste.

③ **Environmental dynamics**

In order to understand exposure doses, and predict such doses to promote decontamination in the prefecture and encourage the return of inhabitants forced to leave their homes because of the nuclear accident, it is necessary to achieve a precise understanding of the environmental dynamics of radioactive materials, including their movement in the environment, and assess and predict their environmental impacts.

To achieve this, CEC will conduct research and assessments to understand actual material cycles on land, including forests, and clarify re-contamination mechanisms, and the migration of radioactive materials. It will also endeavor to precisely clarify the actual conditions informing the movement and accumulation of radioactive materials in water systems, including rivers, lakes, and the sea, and assess and model the environmental dynamics of those materials.

In addition, CEC will conduct research to predict the behavior of wildlife, including

eating habits, and investigate the *in vitro* concentration of radioactive materials, to understand the effects of radiation exposure on wildlife.

CEC will also implement long-term monitoring of the biota, and construct ecosystem models to predict the effect on human life of changes in the ecosystems, and to facilitate research methods for ecosystem management and the preservation of biodiversity over a large area.

④ **Environmental creation**

In order to encourage the return of inhabitants forced to leave their homes because of the nuclear power plant accident, and to create a safe and comfortable environment for those people, it is necessary not only to facilitate recovery of the environment by decontamination and other activities, but also to support the creation of a foundation for their own future vision of this newly-created environment. Research for environmental creation, should endeavor to impart the natural legacy of the beautiful landscape and rich environment of Fukushima prefecture to future generations, by complementing this environment to its best advantage.

To achieve these goals, CEC will consider local characteristics such as those of the environment, resources and industries, and study quantitative models and sustainable future scenarios for environmental creation to respond to issues such as those associated with creation of a low-carbon society, material-cycle society, and a society in harmony with nature. It will also conduct research for the creation of a disaster-resilient society in environmental terms, as informed by the experiences accumulated as a result of the Great East Japan Earthquake.

CEC will conduct research to preserve the natural environment of Fukushima prefecture as represented by Lake Inawashiro and the Urabandai Lakes, and create an improved environment to be passed down to future generations.

A schematic diagram of the uses of outcomes of the above-mentioned research activities is shown in Figure 5.

In addition, the research plan of three organizations is summarized in shown in a Supplement.

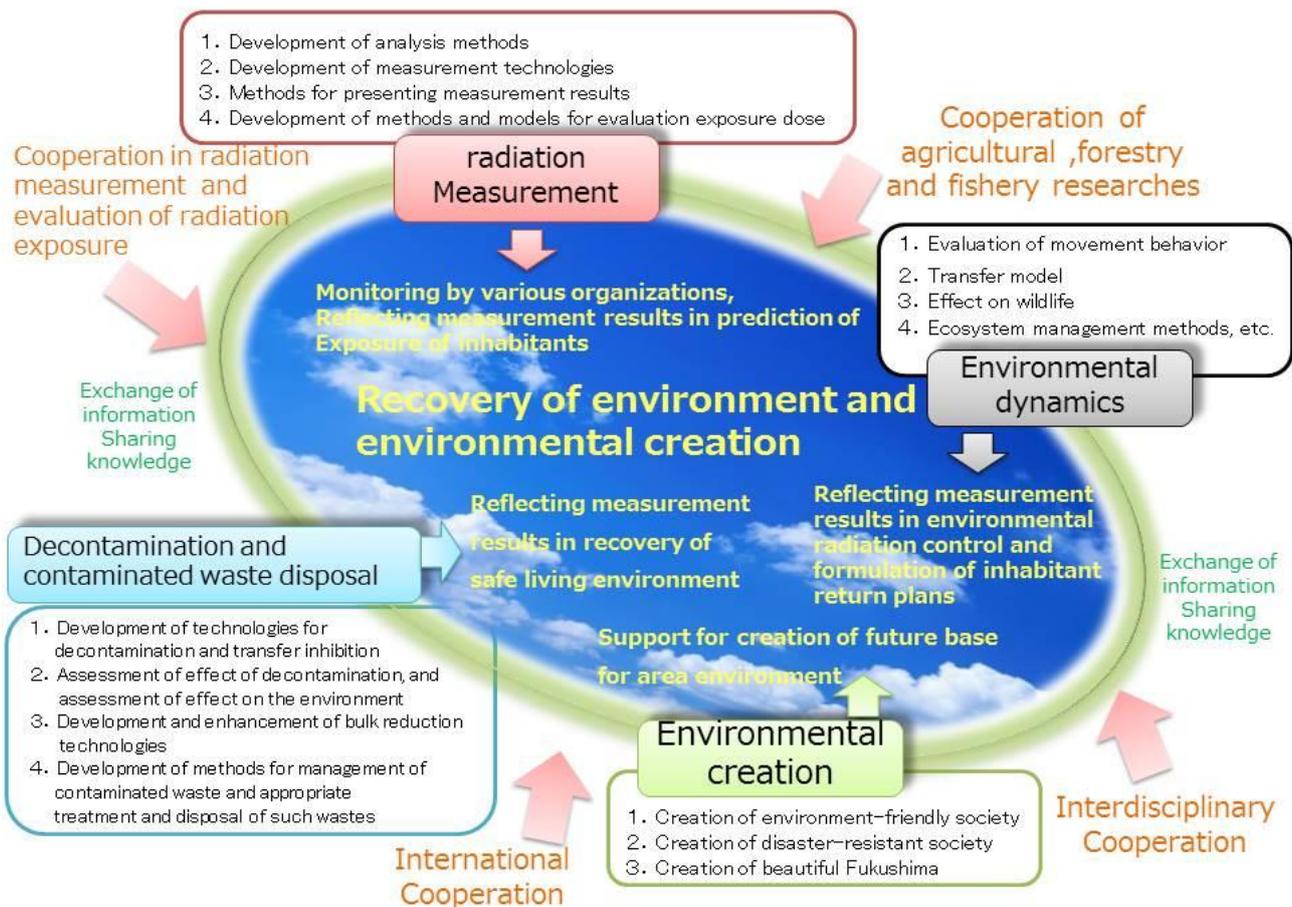


Figure 5. Schematic diagram for the use of the outcomes of research

(3) Collection and provision of information

① Collection and provision of monitoring data

CEC will construct a system for collecting, organizing, and providing to prefectural inhabitants, the monitoring data on environmental radiation and hazardous substances in the environment in the possession of the concerned organizations in Japan, and in an easily understandable manner.

CEC will construct a system whereby data from environmental monitoring outposts can be checked in real time, and create readily-understandable explanations of monitoring data, such as indexes for environmental assessment. Thus, it will endeavor to collect and provide monitoring data in a manner which will allow it to flexibly address the needs of prefectural inhabitants.

② Collection and provision of research outcomes

CEC will collate not only its own research outcomes, but also relevant research results from IAEA, universities and other research organizations, by cooperating with those organizations.

In addition, CEC will actively provide research results through various academic societies, and international conferences and facilitate the provision of information

by its staff through workshops, outreach and exchange with visitors.

③ **Collection and provision of information on the recovery of the environment, rehabilitation of local areas, and environmental creation**

CEC will collect and provide information on recovery status of the environment and rehabilitation of local areas, for example by decontamination and environmental creation in the prefecture, on a centralized and comprehensive basis.

④ **Outreach and communication building measures**

The Information and Communication Building of CEC will provide visitors from and beyond Fukushima Prefecture, including those from other countries, with information on the situation in the prefecture as well as radiation, and research outcomes of CEC, through its Exhibition and Experiential Learning rooms.

In addition, CEC will construct an international research network centered on Fukushima, and organize international conferences, academic conventions, workshops, etc., to collate and provide relevant information from and for researchers in Japan and overseas countries at its conference room, hall, and multi-purpose training room.

A schematic diagram for the collection and provision of information is shown in Figure 6.

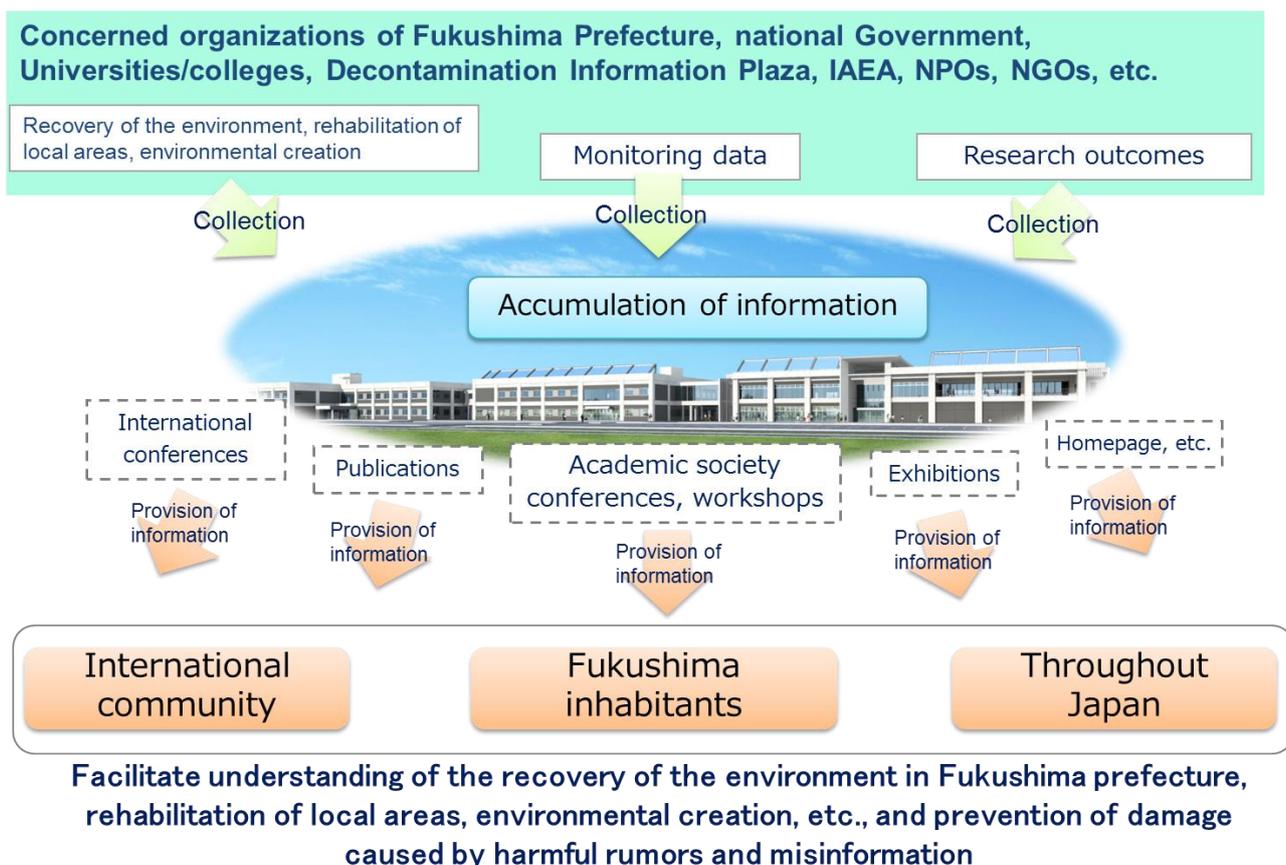


Figure 6. Schematic diagram for collection and provision of information

(4) Education, training, information exchange and communication

① **Education on environmental radiation**

In order to implement and support educational activities for elementary and junior high school students, CEC will be equipped with exhibition and experiential learning facilities in line with the guidelines “Guidance for Education on Radiation” produced by the Fukushima Prefecture Board of Education. CEC will create a “learning notebook” as a follow-up tool for participants of an exhibition tour and experiential learning program to promote the use of the project.

In addition, to promote knowledge diffusion among visitors from Fukushima and beyond, including those from overseas, CEC will create operation programs tailored to respective age groups and levels of acquired knowledge, and plan events with a view to attracting repeat visitors. By these means, the facilities will be operated in a flexible manner.

② **Training on recovery of the environment and environmental creation**

In order to nurture human resources for decontamination work, CEC will, in cooperation with relevant institutions, both organize lecture meetings and practical training sessions, and provide training programs for local government, to develop coordinators capable of contributing to the diffusion of knowledge for the recovery of the environment and environmental creation, as well as human resources for waste control and environmental management, in cooperation with universities, etc.

In addition, CEC will initiate development programs for human resources to be active in the field of disasters and the environment and the creation of disaster-resilient environments.

③ **Information exchange and communication with prefectural inhabitants, NPOs and relevant organizations**

CEC will provide a venue, and opportunities, for information exchange and communication among prefectural inhabitants and NPOs, to give such actors a voice in the future of Fukushima. CEC will organize workshops and lectures at which CEC staff will exchange and communicate with visitors to enhance inhabitant understanding of the effects of radiation, etc.

CEC will also organize programs, events, PR activities (circuit exhibitions in the prefecture), in cooperation with the Decontamination Information Plaza, National Museum of Nature and Science, and invite volunteer participation of local residents in these initiatives.

A schematic diagram for education, training, information exchange and communication activities is shown in Figure 7.

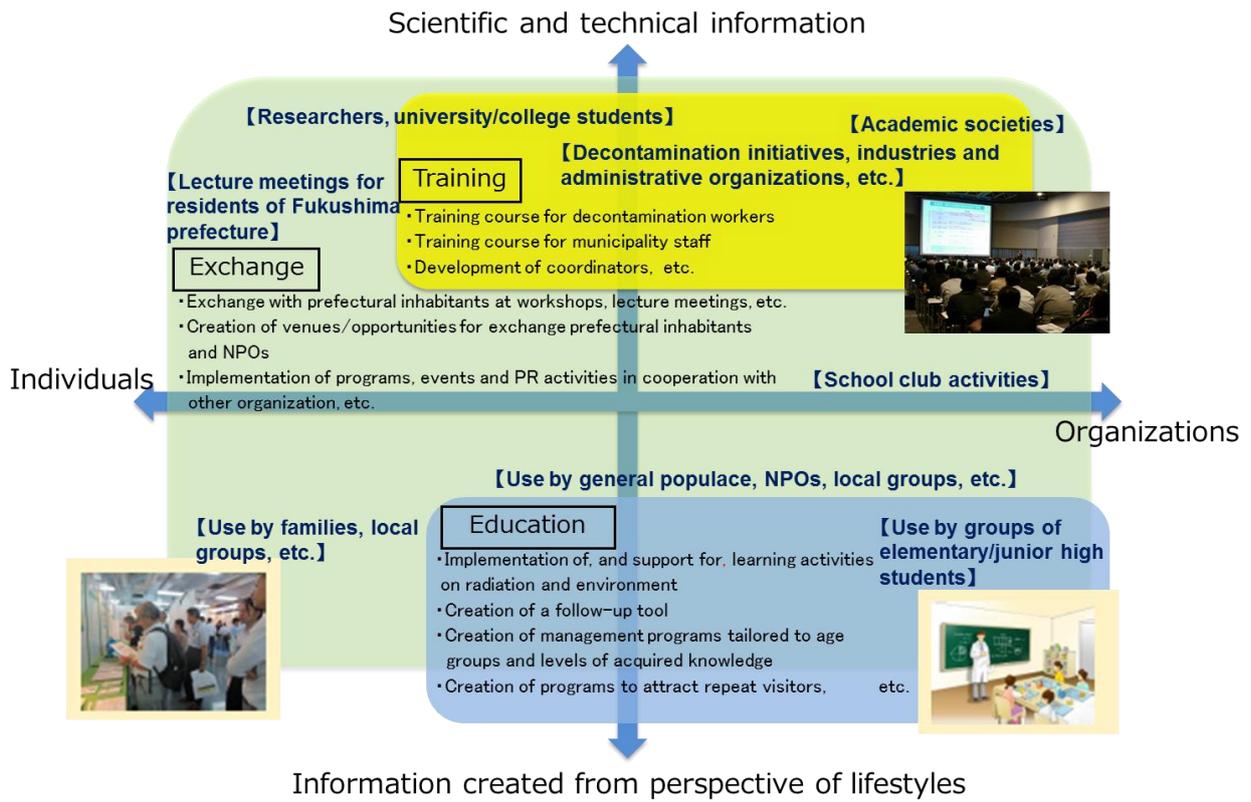


Figure 7. Schematic diagram for education, training information exchange and communication

7. Assessment of activities

In order to effectively and efficiently implement its activities, it is necessary to evaluate the four activities of CEC, i.e., monitoring; research; collection and provision of information; and education, training, information exchange and communication, in terms of the problems involved, suitability of plans, results and prospects and suitability of future plans.

To achieve this, CEC will evaluate its activities on the basis of the principles underlying these activities, and report on the results to the inhabitants a Prefectural Committee and Management Strategy Committee and seek their opinions and advice.

CEC will continue or modify the activity content to reflect evaluations, or otherwise take measures to consolidate and manage the results.

(1) Evaluation of activities

Regarding the research activities, the heads of each Division will collect reports on the progress and results of those activities in their charge, and evaluate these in accordance with specific guidelines to be presented separately.

Regarding other activities, FPCEC will collect progress and outcome reports for these activities, and evaluate them in accordance with specific guidelines to be presented separately.

The Liaison and Coordination Committee will take receipt of the results of these evaluations, to enable a comprehensive evaluation of CEC activities.

(2) Report to inhabitants of the Prefectural Committee and Management Strategy Committee

The Liaison and Coordination Committee will report the results of its comprehensive evaluation to the Prefectural Committee and Management Strategy Committee, receive their opinions and advice, and make public related materials for prefectural inhabitants.

8. Review of activities

“Medium- and Long-Term Activities” has been formulated as a three-phase plan in view of the fact that there are no precedents for the activities of CEC, and potential future environmental changes.

In this context, at the end of FY2018 (end of Phase 1), the results of the activities of CEC will be evaluated, and the plans for phases 2 and 3 will be formulated on the basis of the evaluation results.