

Safety and Security

Technical Emergency Control FORCE

TEC-FORCE (Technical Emergency Control Force)



It is a group of experts established in the Ministry of Land, Infrastructure, Transport and Tourism, and each Regional Development Bureau, etc. in order to perform smooth and prompt implementation of technical support for disaster emergency measures such as a prompt grasp of the damage situation carried out by afflicted local government, prevention of occurrence and spread of damage, and early restoration of afflicted areas when a large-scale natural disaster occurs or there is a risk of an occurrence.

Disaster situation investigation



Information and communication support



Emergency measures

Disassembly / assembly type backhoe



Support for afflicted municipalities

Signed "support at the time of disaster" between Regional Development Bureau and municipalities

An agreement is concluded for quick and smooth dispatch of TEC-FORCE, liaison, and machinery for disaster countermeasures in order to prevent damage expansion and secondary disasters, when a disaster occurred in the area of a local government (municipality) or there is a risk of a disaster.

Agreement at the time of disaster with various organizations • Construction business continuity plan (construction business BCP)

Concluded a disaster agreement between the Regional Development Bureau and various organizations

In response to the occurrence or fear of disasters such as Earthquakes, tsunamis, wind and flood damage, an agreement is concluded in order to prepare system in advance, prompt and smooth emergency response immediately after the disaster, and implementation of emergency no-bid contract construction, etc. against occurrence or risk of etc.

Promotion of construction business continuity plan (construction BCP) at the time of disaster

For large-scale natural disasters, secondary disaster prevention, emergency response, early restoration and reconstruction of infrastructure are the most important tasks. For this reason, construction companies, etc. need to take measures to mitigate their damage and to strengthen disaster response capabilities for quick returning to normal operations, and Kinki Regional Development Bureau, with expectation that such efforts will be promoted, implements a construction business continuity certification system in the event of a disaster

What is Business Continuity Plan (BCP)?

When a company suffers damage due to a disaster or accident, it is expected to minimize the damage or avoid interruption of the important operations as well as to resume in the shortest possible period. This plan to pursue business continuity is called as "Business Continuity Plan (BCP)."

Current Certified Companies

This system is established from FY 2012 and certified 600 companies with business continuity capability at the time of disaster. (As of March 20, 2016)

Effects of construction business continuity certification system

- Promotion of construction business continuity plan → Improvement of regional disaster prevention ability
- Disaster-resistant construction industry in the Kinki district → Improvement of corporate capabilities
- System for quick restoration and reconstruction at the time of disaster → Contribution to the community and society

System of certification



At the disaster of Kinki Regional Development Bureau Construction business continuity certification system



Drainage work by Development Bureau pump car Investigation of the disaster situation (September, 2015 Kanto Tohoku torrential rain: Joso City)



Emergency construction assisted by lighting car Investigation of road damage area (April, 2016 Kumamoto Earthquake)

Major activities

- March, 2011 Great East Japan Earthquake 2,882 people (18,115 person-day in total) from all over the country
- August, 2014 Landslide occurred in Hiroshima prefecture 439 people from all over the country (2,431 person-day in total)
- August, 2014 Torrential rain disaster occurred in Fukuchiyama city, etc. in Kyoto Prefecture 158 people from all over the country (378 person-day in total)
- September, 2015 Torrential rain in Kanto and Tohoku 826 people from all over the country (2,587 person-day in total)

Activity content

Dispatch of Information Contact Personnel (Liaison), etc. to Emergency Disaster Response Task Force (TEC-FORCE) and afflicted local government.

Recent Activity

- TEC-FORCE activities in the Kinki Regional Development Bureau in the 2016 Kumamoto earthquakes
- Approximately four hours after the 2016 Kumamoto earthquakes (occurrence 21:26 → departure 01:30) Dispatched TEC-FORCE 1st team
 - Dispatched from the Kinki Regional Development Bureau (April 15 - May 13: 30 days, 16 groups of 129 people, 797 person-day in total (preliminary figures)
 - Dispatched seven lighting cars, two satellite communication cars, two disaster headquarters cars, and one disassemble type backhoe capable of unmanned construction



Local Government Support Activities (Technical support by TEC-FORCE, Miyazu City, Kyoto Prefecture)

Crisis management and response for large-scale natural disasters such as the huge earthquake and tsunami of the Nankai Trough

Nankai Trough earthquake countermeasure plan

The Ministry of Land, Infrastructure Transport and Tourism has formulated the "Nankai Trough Earthquake Countermeasures Plan" and "Kinki District Regional Countermeasures Plan" on April 1, 2014 as a response to the occurrence of the Nankai Trough earthquake, and the ministry compiled measures to tackle with full efforts.

Various training in cooperation with other organizations

In cooperation with administrative organizations as well as disaster prevention organizations such as local governments and public institutions, in order to protect citizens' safety and security from large-scale natural disasters and crisis management events, various kinds of training are implemented.

Use daily training results



Implemented training of securing traffic routes for emergency vehicles jointly with police, etc.

Training of removing unattended cars

Emergency drainage training by pumping cars by TEC-FORCE members



Pump car drainage training

For actual disaster response



Disaster of typhoon No 18 in 2013

Grasped the disaster situation and provided support for emergency restoration works

- Monitoring of disaster sites using satellite communication
- Dispatch of lighting car to the emergency restoration site

Kanto Tohoku torrential rain in 2015

Large-scale drainage work in Jyoso City, Ibaraki prefecture

Drainage of flooded area by pump car



Enhancing observation of localized torrential rain, • Accelerating information transmission

Currently, water disasters due to localized torrential rain are increasing, as a countermeasure, high-performance compact radar, capable of high precision and high frequency observation, is developed, which shorten the time for observation data distribution to strengthen the crisis management responsiveness.

Prediction of localized Torrential rain and consideration of early detection method will be conducted from the observation data.

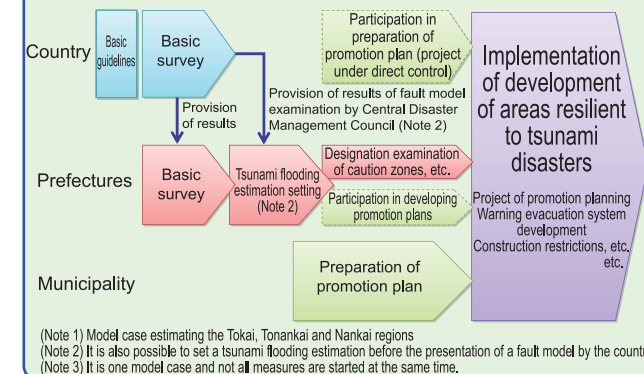
Promotion of development of areas resilient to tsunami disasters

Local governments are supported in order to prevent and reduce future tsunami disasters by implementing a "multiple protection" system that includes structural and non-structural measures for "Development of Areas Resilient to Tsunami Disasters."

Basic idea for the largest class tsunami

- It is important to take countermeasures based on the concept of "disaster reduction" focusing on minimizing damages.
- Thus, the damage caused by the tsunami shall be reduced as much as possible through structural measures such as coastal conservation facilities.
- For tsunamis exceeding the above, non-structural measures that focus on evacuation, such as the development of hazard maps, shall be emphasized

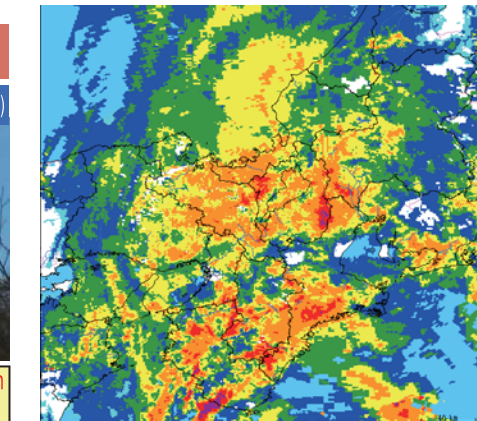
How to proceed development of areas resilient to tsunami disasters



High-performance compact radar rain gauge (Rokko)

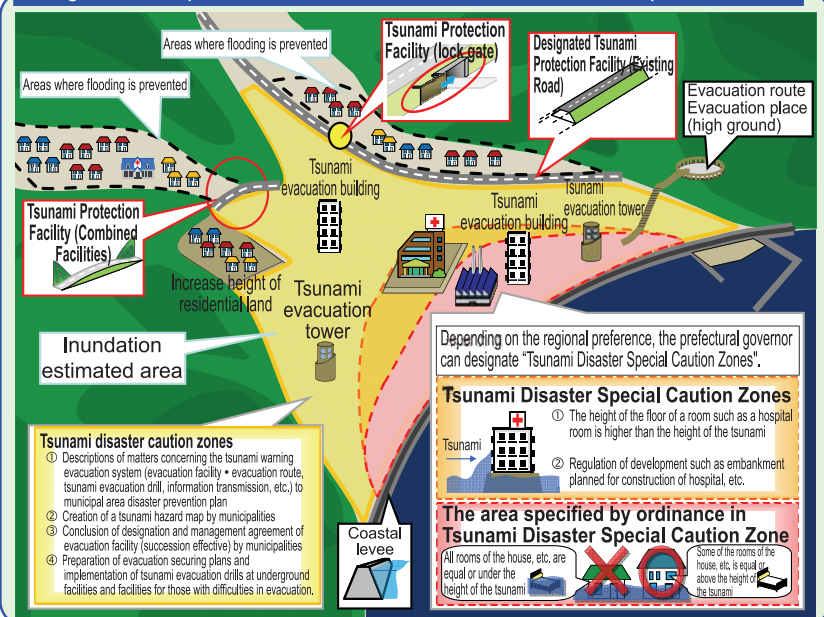


High-performance compact radar location [Rokko • Taguchi • Washomiyama • Katsuragi]



"Rainfall situation of Typhoon No. 18 analyzed by the C band radar of the Ministry of Land, Infrastructure, Transport and Tourism 3:00, September 16, 2013"

Image of development of areas resilient to tsunami disasters to protect the life



Tsunami disaster caution zones

- Descriptions of matters concerning the tsunami warning evacuation system (evacuation facility • evacuation route, tsunami evacuation drill, information transmission, etc.) to municipal area disaster prevention plan
- Creation of a tsunami hazard map by municipalities
- Conclusion of designation and management agreement of evacuation facility (succession effective) by municipalities
- Preparation of evacuation securing plans and implementation of tsunami evacuation drills at underground facilities and facilities for those with difficulties in evacuation.

The area specified by ordinance in Tsunami Disaster Special Caution Zone

All rooms of the house, etc. are equal or under the height of the tsunami

Some of the rooms of the house, etc. are equal or above the height of the tsunami