



Preparedness for Disaster Response in Japan

Research Report presentation of Visiting Researcher program 2022

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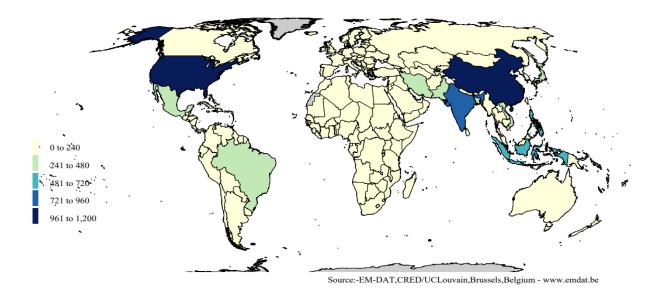
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Introduction

Global Occurences from Natural Disasters, 1900 to 2023



- Asia and the Pacific: Most disaster-prone region in the world
- Concentration of World Population, Lack of Resources
- Vulnerabilities are by increased by Industrialisation, Urbanization, environmental degradation, climate change

Problem

In context of Disaster Response

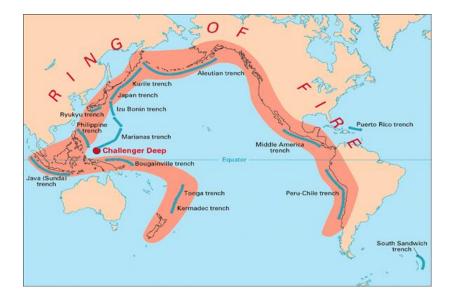


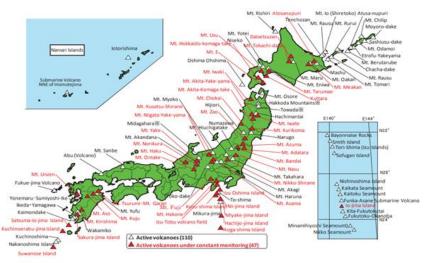
Objective

Study the Preparedness for Disaster Response in Japan

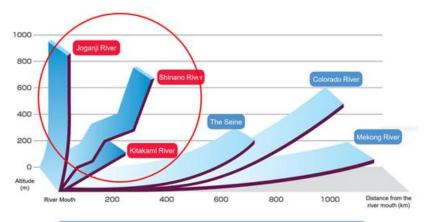
- Disaster management plans
- Business Continuity
- Forecasting and Early warning systems
- Communication system
- Disaster Response mechanism
- Coordination: National and Local governments
- Human resource development: Training, Drills, etc
- Other preparedness and response activities

Disaster Risk Profile: Japan

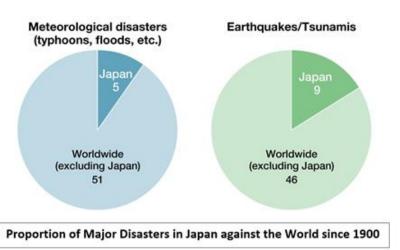




Source: Created by the Cabinet Office from the Japan Meteorological Agency website

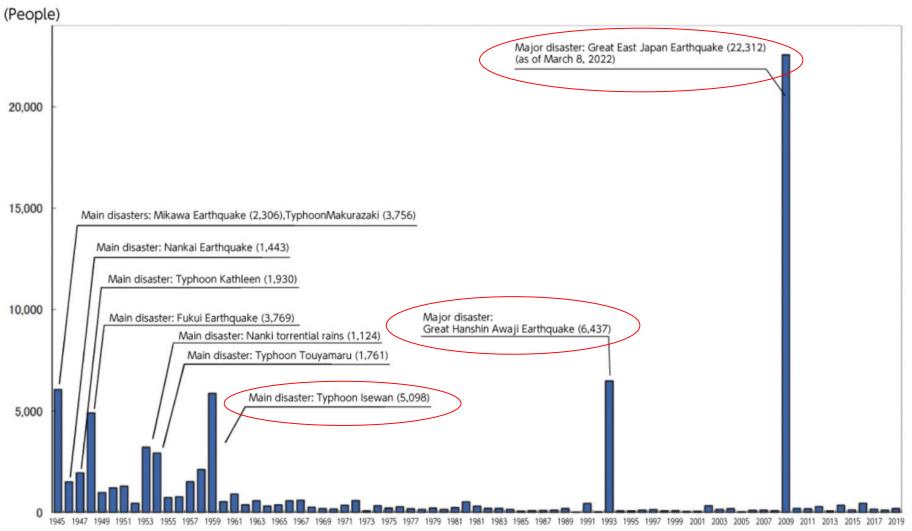


Japanese rivers are narrow, steep, and short.



Source: Ministry of Land, Infrastructure, Transport and Tourism, Water and Disaster Management Bureau website, introduction of projects (pamphiet) Overview of River Administration on Japan 2005 (Current status and issues of rivers https://www.mit.go.jpineetpamphiet_jreik/assen/gayou/pant/gayou/2005/indox/html

Major Disasters



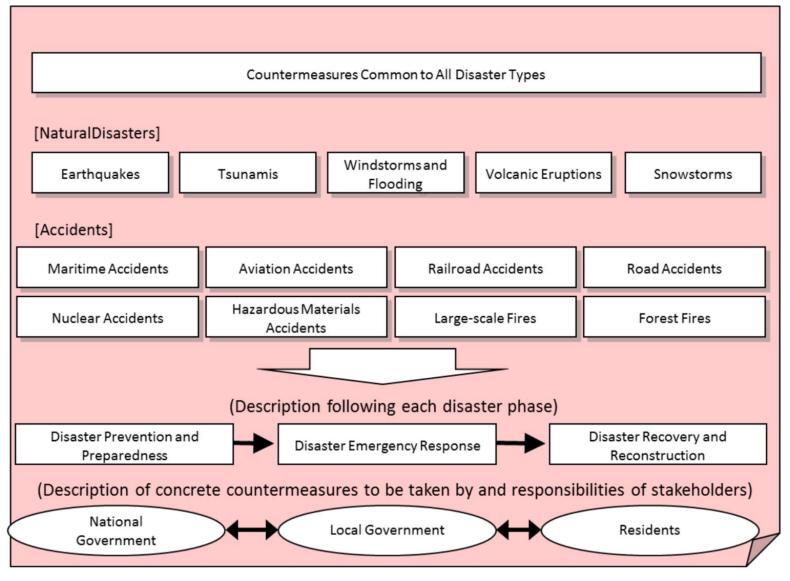
Disaster Countermeasures Basic Act

- Enacted in 1961 after Typhoon Isewan
- Protect: Land, Lives, livelihoods, and property from disasters
- Responsibilities: Government, Prefectures, Municipalities
- Comprehensive and strategic disaster management system: Central DM council, Local DM headquarters.
- Disaster management plans: National, Local and Community levels
- Promotion of Disaster Countermeasures
- Financial measures
- Declaration of Disaster emergency

Institutional Setup

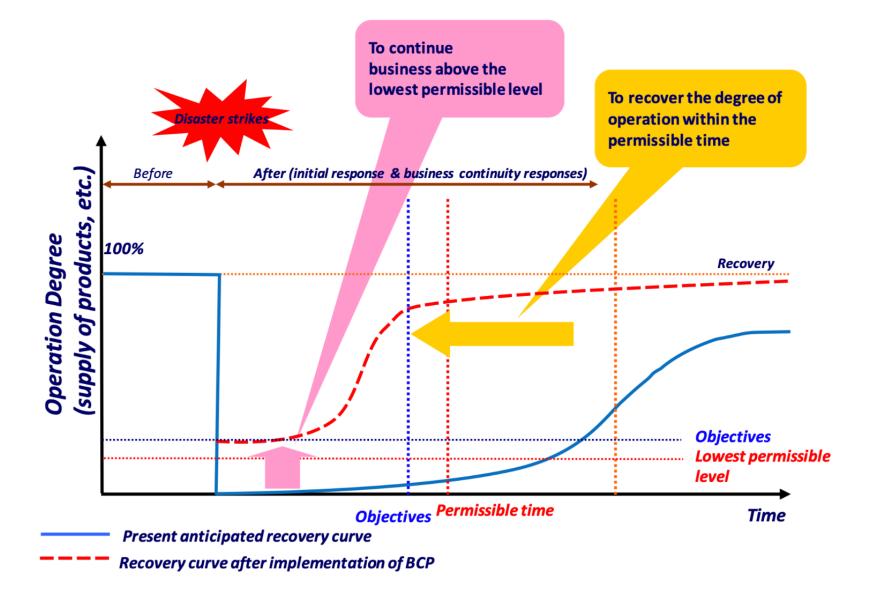
Nai le 都道	-ベル tional evel ら に の い	内閣総理大臣 中央防災会議 指定行政機関(※1) 指定公共機関(※2) 知事	 Designated	aster Management Council Government Organizations			
	fectural level	都道府県防災会議 指定地方行政機関 指定地方公共機関	Designated I	Disaster Management Council Local Government Organizations Local Public Corporations	— 都道府県地域防災計画の策定、実施の推進 Formulation and promoting implementation of Prefectural Disaster Management Plan		
Mur	町村 ベル nicipal evel 主民 ベル sidents evel	市町村長 │ 市町村防災会議			 市町村地域防災計画の策定、実施の推進 Formulation and promoting implementation of Municipal Disaster Management Plan 地区防災計画の策定、実施の推進 Formulation and promoting implementation of Community Disaster Management Plan 		
Res		居住者及び事業者					
Designat ※2 指定公		5政機関 ated Government Organizations 公共機関 ated Public Corporations		24の国の行政機関が指定されています。 24 ministries and agencies are designated			
				独立行政法人の一部、日本銀行、日本赤十字社、NHKなどの公共的機関や電力会社、ガス会社、NTTなど公益的事業 を営む法人100機関が指定されています。 66 organizations including independent administrative agencies, Bank of Japan, Japanese Red Cross Society, NHK, electric and gas companies and NTT are designated.			

Basic Disaster Management Plan



Source: Cabinet Office

Business Continuity Plan



White Paper on Disaster Management

2022

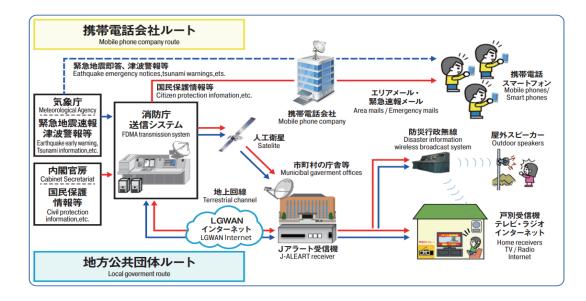
White Paper Disaster Management in Japan



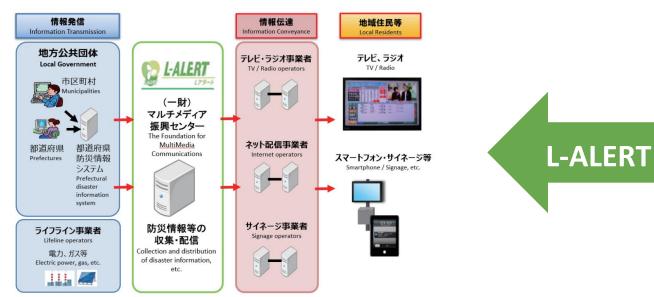


- Disaster Countermeasures Basic Act, 1961
- Cabinet Office: First published in 1962
- Annual report: Overview of DM Policies, Strategies and Activities
- Promotes Public awareness and understanding of DM issues
- Monitoring and Evaluation tool
- Learning from the experiences

Early Warning System







Alert Levels

Alert level	Situation	Required action	Evacuation information					
5	Disaster occurrence or urgency	Danger of life Secure safety immediately!	Emergency Safety Measures*1					
Control Con								
4	High risk of disaster	Everyone evacuates from hazardous places	Evacuation Instruction (meet					
3	Risk of disaster	The elderly, etc. evacuate from hazardous places*2	Evacuation of the Elderly, etc.					
2	Weather worsening	Check how to evacuate	Heavy rain, Flood, of Storm Surge Advisories (JMA)					
1	Risk of weather worsening	Be prepare for disasters	Probability of Warnings (JMA)					

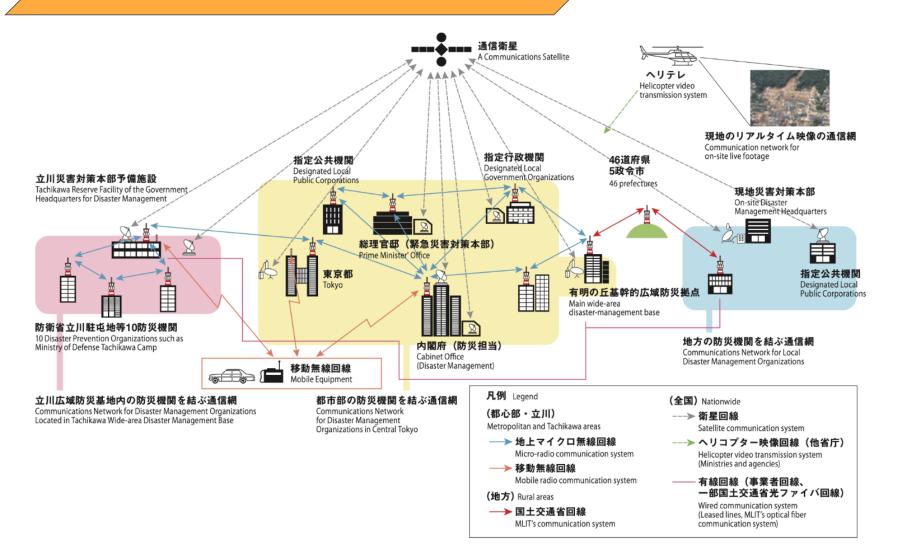
* 1 Alert level 5 is not always issued, as municipalities may not be able to certainly understand the situation of disasters.

* 2 Alert level 3 is the timing for people other than elderly to suspend normal activities and begin evacuating voluntary when feel danger, as needed.

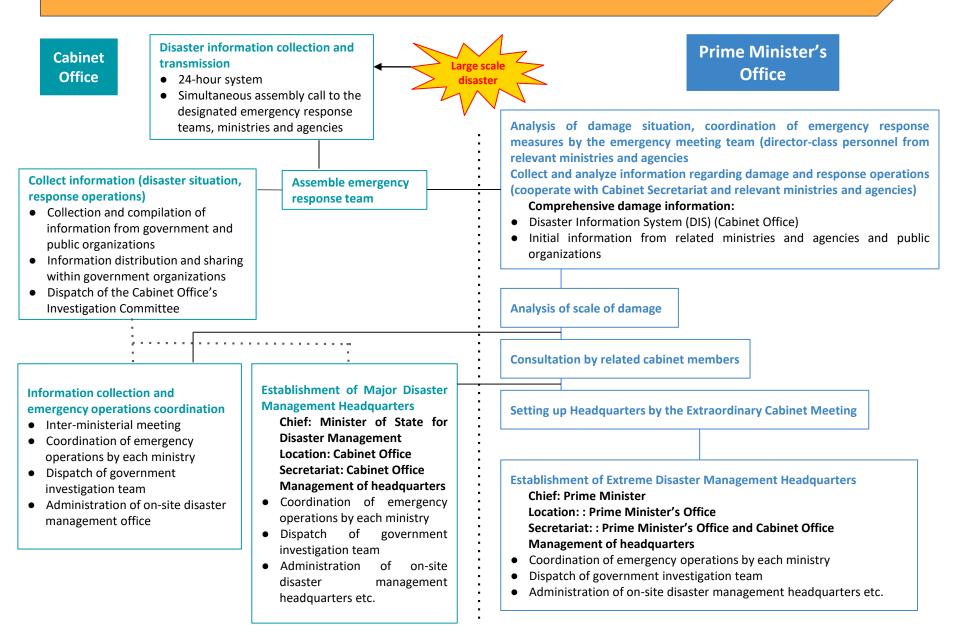
(note) Evacuation warning s are issued at the timing of current evacuation advisory.

Communication Network

Central DM Radio Communication Network



Government Disaster Response Mechanism

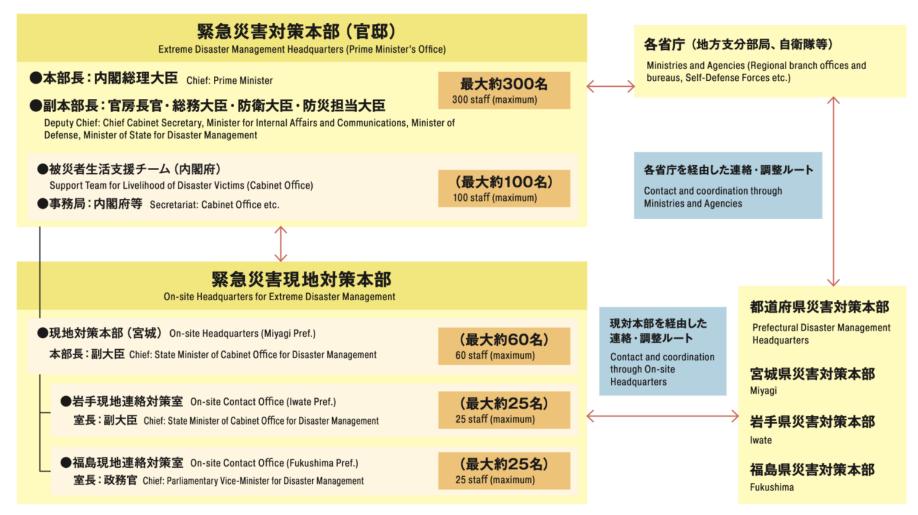


Coordination: National and Local

Coordination System between National and Local Governments (in the case of the Great East Japan Earthquake)

東日本大震災における緊急災害対策本部と各県の連絡・調整体制

Communication and coordination system between Extreme Disaster Management Headquarters and each prefecture during the Great East Japan Earthquake



Disaster Management Base Facilities

「東京湾臨海部基幹的広域防災拠点(有明の丘地区)」(東京都江東区)

"The Main Wide-area Disaster Management Base Facility in the Tokyo Bay Waterfront area (in the Ariake-no-Oka area)" (Ko-to ward, Tokyo)

首都圏広域防災の ヘッドクォーター機能

Headquarters Functions of the Greater-Metropolitan Area Disaster Management

本部会議室

Operation room

面積約960m 座席数 186席 300インチモニター (画面分割可能)

capability)

SAR and medical activities

モニターでTV会議が可能 Local Headquarters Conference Room Videoconferencing using monitors

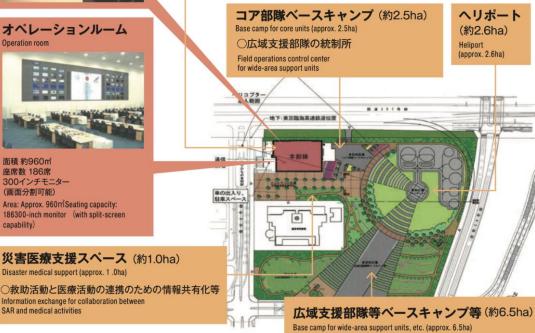


本部棟(約10,000m)

Headquarters building (approx. 1.0ha) ○防災施設(オペレーションルーム、本部会議 室など災害時において、政府現地対策本部とし て活動)

Disaster management facilities (An operations room, eadquarters conference room and communications facility room for the activities of the joint on-site disaster management headquarters')

○公園施設(平常時の防災関連展示、体験学習施設) Park facilities (Facilities to be used for disaster reduction exhibits and education programs, etc. in the ordinary time)



○広域支援部隊やボランティア等のための活動・統制所 Activity area and field operations control center for wide-area support units and volunteers

Disaster Response Agencies

Fire Service Organizations

- Regular fire fighting units
- Volunteer firefighters
- Emergency Fire Response Teams

National Police Agency

• Disaster Response Units

Self Defense Forces

Japan Coast Guards

Disaster Medical Assistance Teams

Community Organisations

• BOKOMI

Other Preparedness & Response activities

Disaster Reduction Drills and Exercises

Human Resources Development (Training)

Assistance in Evacuation

Living Conditions at Shelters

Grants to Disaster Affected People

What's in it for India?

- White Paper on Disaster Management
- DM plans at Community level
- BOKOMI: Community Organisations
- Business Continuity Plan
- Communication Network
- Human Resource Development
- Evacuation sites and Emergency shelters



Arigato Gozaimasu !