# Creating a disaster-resilient nation, to protect the lives and livelihoods of you and your family

 $\sim$ What is meant by building national resilience? $\sim$ 



## 01 Examples of disasters that have occurred in Japan

Japan is a disaster-prone country. What kind of disasters What happens when a disaster occurs? occur in Japan? Earthquakes Many people die in earthquakes, Heavy rain, typhoons, landslides, etc. make houses tsunamis, fires, and house Earthquakes seismic intensity 5 and over uninhabitable collapses **18.6** times/year\*1 Storm and flood damage Hourly rainfall of 50 mm or more 334 Electricity, water, food, and other supplies essential for daily life are cut off Farmland and businesses are times/year\*2 damaged, the country is devastated, and ability to compete in world markets is undermined **Volcanic eruptions** Number of active volcanoes\*3 It's scary to think things like this can happen. But how can we prevent it ...

\*1 Japan Meteorological Agency. Number of earthquakes per month by maximum seismic intensity on the Japanese scale during the past 10 years (2011–2020) from the December 2020 Monthly Seismic and Volcanic Activity Report (Disaster Damage Prevention edition)

\*2 Japan Meteorological Agency. Changes in Extreme Weather Phenomena (Heavy Rain, Extreme Heat, etc.) to Date | Average annual frequency of rainfall events in the last 10 years (2011–2020) from the nationwide (AMeDAS) annual frequency of hourly rainfall of 50 mm or more

\*3 Japan Meteorological Agency. What is an Active Volcano? | From the definition of "active volcano and changes

in the number of active volcanoes

National Resilience Promotion Office, Cabinet Secretariat

### 02

### What is meant by creating a disaster-resilient nation (building national resilience)?

Building national resilience refers to initiatives to make a nation and communities resilient to the effects of natural disasters such as earthquakes, tsunamis, and typhoons.





Taking preventive measures in advance not only limits the damage but also ensures that reconstruction is quick!

## 03 Initiatives to build national resilience

Building national resilience is an extremely broad concept.

Building national resilience includes not only initiatives at government level but also at the corporate, regional, and individual level. And it includes not only structural but also non-structural measures.



## 04 Examples of initiatives to build national resilience (1)

Let's take a look at some examples of how local people have worked together to build national resilience.

**Disaster Preparedness Guide for Parents and Kids** (Kawabe, Mabi-cho, Kurashiki City, Okayama Prefecture)

The Disaster Preparedness Guide for Parents and Kids was produced as part of the "Kawabe Reconstruction Project ARUKU" launched by residents of areas that sustained damage in the West Japan flood disaster out of a desire to ensure that children are protected from fear and that no-one has to suffer the pain of loss.

The Guide sets out in an accessible format what residents should know to prepare for disaster, such as (1) Dispersed evacuation other than evacuation shelter -Decide where to evacuate; (2) Timing for evacuation - Decide when to evacuate; (3) Think about what to take with you -Prepare what you will take with you.



\* https://aruku2018.org/oyako-notebook/ (in Japanese)
\* https://aruku2018.org/english-version/

#### Formulation of Disaster Prevention Plan for Sapporo Tokeidai (Sapporo Clock Tower) Building (Chuo-ku, Sapporo)

Sapporo Tokeidai Building houses an FM radio station, eating establishments, and a childcare facility. An area for recharging batteries and a rest area have also been prepared to allow employees of tenants to stay in the building for three days in the event of a disaster, with relief supplies and information also being provided.



Also, a "Nursery School Response Team" comprised of representatives from each tenant company has been formed to protect the safety of the children being cared for in the facility.

These initiatives are helping to raise awareness of the importance of self-help and mutual assistance in times of disaster.

What a great opportunity to involve our children in preparing for an emergency!





So disaster preparedness was motivated by having experienced an earthquake and an awareness of the need to keep the children in the nursery school safe.

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### 04 04 Examples of initiatives to build national resilience (2)

Let's take a look at some examples of how national and local governments have built national resilience.

Mitigating flood damage by upgrading river embankments (Satsuma, Isa City, Kagoshima Prefecture, etc.)

During the heavy rains that fell from July 1, 2020, the water level was reduced by approximately 3.1 m as a result of embankment improvement and river excavation. As a result, the mainstream Kawauchi river did not spill its banks, mitigating flood damage.



\* Water level if river improvements not carried out



 $\ast$  Estimated water level at time of 2021 water outflow volume using cross-section of channel prior to 2006

It's great that the river no

longer overflows its banks!

Ensure safety of school facility through seismic reinforcement (Chikugo City, Fukuoka Prefecture)

The school gymnasium was at high risk of falling down so was earthquakeresistant. This measure ensured the safety of the school facility.

In the event of a disaster, it can be used as an evacuation site.









Now we can send our children to school with peace of mind!

# 05 Effectiveness of building national resilience

Let's take a look at the effectiveness of initiatives for building national resilience



\*1 Prepared by the National Resilience Promotion Office of the Cabinet Secretariat based on materials prepared by the Water and Disaster Management Bureau, Ministry of Land, Infrastructure, Transport and Tourism

\*2 Present status of recovery costs for general damage, support for victims and affected areas, disaster waste disposal costs, etc.



So taking proper precautions not only limits the damage, but also reduces recovery costs!

## 06

## How well prepared are you for national resilience initiatives?

Let's take a look at the results of a survey to determine how others are faring in their attempts to build national resilience.

### How well prepared are you for a disaster?

Status of initiatives to prepare for disaster\*

### What specific actions are you taking?



#### Specific details of preparations for disaster\*

\* Partial extract from results of Questionnaire Survey on Promotion and Raising Public Awareness of National Resilience conducted in 2021 Survey period: November 9–11, 2021 Survey method: Online questionnaire Number of valid responses: 1,048

# **07** What specific preparations should I start with?

It is best not to overthink it - just start wherever you can.

	Checklist	Action		
Investigate	Talk abo Investig school is Check h	ut disaster planning with your family and friends ate disasters that have occurred in the area where your house, workplace, or located azard maps and evacuation sites e routes to evacuation sites and do a test run		
Prepare	Decide v the way Decide v disaster Register Prepare Eearthqu and fixir	what you will do if a disaster occurs in various scenarios (while sleeping, on to school, at work) with your family and friends how you will stay in touch in the event of a (e.g., use the 171 Disaster Emergency Message Dial service) for disaster information email alerts and emergency apps emergency supplies and food reserves (preferably enough for one week) take-resistant your home by installing earthquake-sensitive circuit breakers g furniture securely in place, earthquake-resistant your house		
Work together	Make an Participa Share in platform Participa	effort to greet and converse with people in the neighborhood on a daily basis te in disaster drills in your community, company, school, etc. formation on disasters received from various authorities via SNS and other s te in voluntary disaster prevention organizations		



So we too should just get started in whatever way we can! I think I'll start by having a conversation with the family about disaster planning.



Let's share what we know with everyone to keep everyone safe!

## **08** Use a worksheet (1) If an earthquake were to occur...

Begin by having a conversation with your family and friends about what damage you anticipate in the event of a disaster and what you should do to prevent it!



#### Talk about what you can do to prevent damage



## Use a worksheet (2) - If heavy rains or a typhoon were to occur...

Begin by having a conversation with your family and friends about what damage you anticipate in the event of a disaster and what you should do to prevent it!

# Talk about what happens when heavy rains and typhoons come

**80** 

#### Talk about what you can do to prevent damage



## For more information

The Cabinet Secretariat provides the following information. We recommend that you consult these reference sources.

Pamphlet: "Building National Resilience!" Workbook: "leaning how to reduce disaster risks at the national and community levels"

Pamphlet and educational materials summarizing the concept of building national resilience in an accessible format. https://www.cas.go.jp/jp/seisaku/kokudo kyoujinka/about.html (in Japanese) https://www.cas.go.jp/jp/seisaku/kokudo\_kyoujinka/index\_en.html

Examples of effectiveness of disaster prevention and mitigation to build national resilience

This document summarizes examples of the effectiveness of disaster prevention and mitigation in recent disasters that have occurred.

https://www.cas.go.jp/jp/seisaku/kokudo\_kyoujinka/kouhou/koukahakkijirei.html (in Japanese)

Collection of initiative examples from three-year emergency response plan for disaster prevention, disaster mitigation and building national resilience

This document summarizes examples of the effectiveness of all 160 three-year emergency measures when disasters have occurred.

https://www.cas.go.jp/jp/seisaku/kokudo\_kyoujinka/kouhou/3kanenjirei.html (in Japanese)

**Examples of private sector initiatives for building national resilience (April 2022)** This document summarizes examples of private-sector initiatives spearheading efforts to build national resilience.

https://www.cas.go.jp/jp/seisaku/kokudo\_kyoujinka/r4\_minkan/index.html (in Japanese)



lational Resilience Promotion Office, Cabinet Secretariat https://www.cas.go.jp/jp/seisaku /kokudo kyoujinka/index.html



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### Creating a disaster-resilient nation, to protect the lives and livelihoods of you and your family:

Evacuation sites in the event of a disaster	Names and contact details of family members and others who you would want to know were safe		
	Name:	Name:	
	Telephone number:	Telephone number:	
	Email:	Email:	
	Address:	Address:	
in the event of a disaster	Name:	Name:	
	Telephone number:	Telephone number:	
	Email:	Email:	
	Address:	Address:	



Print this out and carry it with you wherever you go!